

TestAmerica

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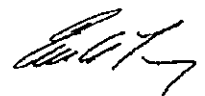
ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108286-1
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:
3/24/2016 4:42:16 PM

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

MWG13-15_60113

Comp. Ex. 225J

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Case Narrative

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

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Job ID: 500-108286-1

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Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-108286-1

Comments

No additional comments.

Receipt

The samples were received on 3/3/2016 1:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.4° C, 2.0° C, 2.8° C and 3.2° C.

Metals

No analytical or quality issues were noted, other than those described 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: 500-108286-1

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

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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

TestAmerica Chicago

Sample Summary

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

TestAmerica Job ID: 500-108286-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-108286-1	MW-01	Water	03/01/16 10:05	03/03/16 13:45
500-108286-2	MW-02	Water	03/01/16 12:10	03/03/16 13:45
500-108286-3	MW-03	Water	03/01/16 13:40	03/03/16 13:45
500-108286-4	MW-04	Water	03/01/16 16:05	03/03/16 13:45
500-108286-5	MW-09	Water	03/02/16 18:00	03/03/16 13:45
500-108286-6	MW-11	Water	03/02/16 15:35	03/03/16 13:45
500-108286-7	MW-14	Water	03/02/16 14:25	03/03/16 13:45
500-108286-8	MW-16	Water	03/02/16 10:15	03/03/16 13:45
500-108286-9	Duplicates	Water	03/02/16 00:00	03/03/16 13:45

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Client Sample Results

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

TestAmerica Job ID: 500-108286-1

Client Sample ID: MW-01

Lab Sample ID: 500-108286-1

Date Collected: 03/01/16 10:05

Matrix: Water

Date Received: 03/03/16 13:45

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		03/04/16 08:35	03/04/16 18:04	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		03/04/16 08:35	03/09/16 23:47	1
Arsenic	0.10		0.0010		mg/L		03/04/16 08:35	03/09/16 23:47	1
Barium	0.026		0.0025		mg/L		03/04/16 08:35	03/09/16 23:47	1
Beryllium	<0.0010		0.0010		mg/L		03/04/16 08:35	03/21/16 12:52	1
Boron	1.9	V	0.050		mg/L		03/04/16 08:35	03/21/16 12:52	1
Cadmium	<0.00050		0.00050		mg/L		03/04/16 08:35	03/09/16 23:47	1
Calcium	58		0.20		mg/L		03/04/16 08:35	03/09/16 23:47	1
Chromium	<0.0050		0.0050		mg/L		03/04/16 08:35	03/09/16 23:47	1
Cobalt	<0.0010		0.0010		mg/L		03/04/16 08:35	03/09/16 23:47	1
Lead	<0.00050		0.00050		mg/L		03/04/16 08:35	03/21/16 12:52	1
Molybdenum	0.059		0.0050		mg/L		03/04/16 08:35	03/09/16 23:47	1
Selenium	<0.0025		0.0025		mg/L		03/04/16 08:35	03/09/16 23:47	1
Thallium	<0.0020		0.0020		mg/L		03/04/16 08:35	03/21/16 12:52	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/05/16 19:15	03/12/16 13:35	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	570		10		mg/L			03/04/16 01:44	1
Chloride	63		2.0		mg/L			03/10/16 23:29	1
Fluoride	0.26		0.10		mg/L			03/05/16 15:43	1
Sulfate	270		50		mg/L			03/12/16 22:45	10

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MWG13-15_60118
3/24/2016

Client Sample Results

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

TestAmerica Job ID: 500-108286-1

Client Sample ID: MW-02

Lab Sample ID: 500-108286-2

Date Collected: 03/01/16 12:10

Matrix: Water

Date Received: 03/03/16 13:45

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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		03/04/16 08:35	03/04/16 18:25	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		03/04/16 08:35	03/10/16 00:13	1
Arsenic	0.011		0.0010		mg/L		03/04/16 08:35	03/10/16 00:13	1
Barium	0.020		0.0025		mg/L		03/04/16 08:35	03/10/16 00:13	1
Beryllium	<0.0010		0.0010		mg/L		03/04/16 08:35	03/21/16 13:26	1
Boron	4.1		0.25		mg/L		03/04/16 08:35	03/21/16 13:11	5
Cadmium	<0.00050		0.00050		mg/L		03/04/16 08:35	03/10/16 00:13	1
Calcium	39		0.20		mg/L		03/04/16 08:35	03/10/16 00:13	1
Chromium	<0.0050		0.0050		mg/L		03/04/16 08:35	03/10/16 00:13	1
Cobalt	<0.0010		0.0010		mg/L		03/04/16 08:35	03/10/16 00:13	1
Lead	<0.00050		0.00050		mg/L		03/04/16 08:35	03/21/16 13:26	1
Molybdenum	0.078		0.0050		mg/L		03/04/16 08:35	03/10/16 00:13	1
Selenium	<0.0025		0.0025		mg/L		03/04/16 08:35	03/10/16 00:13	1
Thallium	<0.0020		0.0020		mg/L		03/04/16 08:35	03/21/16 13:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/05/16 19:15	03/12/16 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	510		10		mg/L			03/03/16 22:51	1
Chloride	47		2.0		mg/L			03/10/16 23:29	1
Fluoride	1.3		0.10		mg/L			03/05/16 15:45	1
Sulfate	220		50		mg/L			03/12/16 22:46	10

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Client Sample Results

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

TestAmerica Job ID: 500-108286-1

Client Sample ID: MW-03

Lab Sample ID: 500-108286-3

Date Collected: 03/01/16 13:40

Matrix: Water

Date Received: 03/03/16 13:45

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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		03/04/16 08:35	03/04/16 18:29	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		03/04/16 08:35	03/10/16 00:17	1
Arsenic	0.0069		0.0010		mg/L		03/04/16 08:35	03/10/16 00:17	1
Barium	0.015		0.0025		mg/L		03/04/16 08:35	03/10/16 00:17	1
Beryllium	<0.0010		0.0010		mg/L		03/04/16 08:35	03/21/16 13:30	1
Boron	2.9		0.050		mg/L		03/04/16 08:35	03/21/16 13:30	1
Cadmium	<0.00050		0.00050		mg/L		03/04/16 08:35	03/10/16 00:17	1
Calcium	61		0.20		mg/L		03/04/16 08:35	03/10/16 00:17	1
Chromium	<0.0050		0.0050		mg/L		03/04/16 08:35	03/10/16 00:17	1
Cobalt	<0.0010		0.0010		mg/L		03/04/16 08:35	03/10/16 00:17	1
Lead	<0.00050		0.00050		mg/L		03/04/16 08:35	03/21/16 13:30	1
Molybdenum	0.056		0.0050		mg/L		03/04/16 08:35	03/10/16 00:17	1
Selenium	0.0043		0.0025		mg/L		03/04/16 08:35	03/10/16 00:17	1
Thallium	<0.0020		0.0020		mg/L		03/04/16 08:35	03/21/16 13:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/05/16 19:15	03/12/16 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	530		10		mg/L			03/03/16 22:54	1
Chloride	70		2.0		mg/L			03/10/16 23:33	1
Fluoride	0.33		0.10		mg/L			03/19/16 17:11	1
Sulfate	220		50		mg/L			03/12/16 22:47	10

TestAmerica Chicago

MWG13-15_60120
3/24/2016

Client Sample Results

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

TestAmerica Job ID: 500-108286-1

Client Sample ID: MW-04
Date Collected: 03/01/16 16:05
Date Received: 03/03/16 13:45

Lab Sample ID: 500-108286-4
Matrix: Water

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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		03/04/16 08:35	03/04/16 18:33	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		03/04/16 08:35	03/10/16 00:21	1
Arsenic	0.0083		0.0010		mg/L		03/04/16 08:35	03/10/16 00:21	1
Barium	0.033		0.0025		mg/L		03/04/16 08:35	03/10/16 00:21	1
Beryllium	<0.0010		0.0010		mg/L		03/04/16 08:35	03/21/16 13:33	1
Boron	2.0		0.050		mg/L		03/04/16 08:35	03/21/16 13:33	1
Cadmium	<0.00050		0.00050		mg/L		03/04/16 08:35	03/10/16 00:21	1
Calcium	58		0.20		mg/L		03/04/16 08:35	03/10/16 00:21	1
Chromium	<0.0050		0.0050		mg/L		03/04/16 08:35	03/10/16 00:21	1
Cobalt	<0.0010		0.0010		mg/L		03/04/16 08:35	03/10/16 00:21	1
Lead	<0.00050		0.00050		mg/L		03/04/16 08:35	03/21/16 13:33	1
Molybdenum	0.048		0.0050		mg/L		03/04/16 08:35	03/10/16 00:21	1
Selenium	<0.0025		0.0025		mg/L		03/04/16 08:35	03/10/16 00:21	1
Thallium	<0.0020		0.0020		mg/L		03/04/16 08:35	03/21/16 13:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/05/16 19:15	03/12/16 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	450		10		mg/L			03/03/16 22:57	1
Chloride	51		2.0		mg/L			03/10/16 23:33	1
Fluoride	0.50		0.10		mg/L			03/19/16 17:18	1
Sulfate	170		50		mg/L			03/13/16 01:40	10

TestAmerica Chicago

MWG13-15_60121

3/24/2016

Client Sample Results

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

TestAmerica Job ID: 500-108286-1

Client Sample ID: MW-09

Lab Sample ID: 500-108286-5

Date Collected: 03/02/16 18:00

Matrix: Water

Date Received: 03/03/16 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.094		0.010		mg/L		03/04/16 08:35	03/04/16 18:37	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		03/04/16 08:35	03/10/16 00:24	1
Arsenic	0.060		0.0010		mg/L		03/04/16 08:35	03/10/16 00:24	1
Barium	0.050		0.0025		mg/L		03/04/16 08:35	03/10/16 00:24	1
Beryllium	<0.0010		0.0010		mg/L		03/04/16 08:35	03/21/16 14:14	1
Boron	35		5.0		mg/L		03/04/16 08:35	03/21/16 13:37	100
Cadmium	<0.00050		0.00050		mg/L		03/04/16 08:35	03/10/16 00:24	1
Calcium	380		2.0		mg/L		03/04/16 08:35	03/10/16 00:28	10
Chromium	0.043		0.0050		mg/L		03/04/16 08:35	03/10/16 00:24	1
Cobalt	<0.0010		0.0010		mg/L		03/04/16 08:35	03/10/16 00:24	1
Lead	0.00061		0.00050		mg/L		03/04/16 08:35	03/21/16 14:14	1
Molybdenum	0.51		0.050		mg/L		03/04/16 08:35	03/10/16 00:28	10
Selenium	0.025		0.0025		mg/L		03/04/16 08:35	03/10/16 00:24	1
Thallium	<0.0020		0.0020		mg/L		03/04/16 08:35	03/21/16 14:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/05/16 19:15	03/12/16 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2800		13		mg/L			03/03/16 23:00	1
Chloride	720		50		mg/L			03/10/16 23:58	25
Fluoride	0.11		0.10		mg/L			03/19/16 17:21	1
Sulfate	970		250		mg/L			03/13/16 01:43	50

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TestAmerica Chicago

MWG13-15_60122
3/24/2016

Client Sample Results

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

TestAmerica Job ID: 500-108286-1

Client Sample ID: MW-11

Lab Sample ID: 500-108286-6

Date Collected: 03/02/16 15:35

Matrix: Water

Date Received: 03/03/16 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.049		0.010		mg/L		03/04/16 08:35	03/04/16 18:42	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		03/04/16 08:35	03/10/16 00:32	1
Arsenic	0.55		0.0010		mg/L		03/04/16 08:35	03/10/16 00:32	1
Barium	0.048		0.0025		mg/L		03/04/16 08:35	03/10/16 00:32	1
Beryllium	<0.0010		0.0010		mg/L		03/04/16 08:35	03/21/16 14:18	1
Boron	4.0		0.25		mg/L		03/04/16 08:35	03/21/16 13:41	5
Cadmium	<0.00050		0.00050		mg/L		03/04/16 08:35	03/10/16 00:32	1
Calcium	170		0.20		mg/L		03/04/16 08:35	03/10/16 00:32	1
Chromium	0.0058		0.0050		mg/L		03/04/16 08:35	03/10/16 00:32	1
Cobalt	<0.0010		0.0010		mg/L		03/04/16 08:35	03/10/16 00:32	1
Lead	0.0011		0.00050		mg/L		03/04/16 08:35	03/21/16 14:18	1
Molybdenum	<0.0050		0.0050		mg/L		03/04/16 08:35	03/10/16 00:32	1
Selenium	<0.0025		0.0025		mg/L		03/04/16 08:35	03/10/16 00:32	1
Thallium	<0.0020		0.0020		mg/L		03/04/16 08:35	03/21/16 14:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/05/16 19:15	03/12/16 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			03/03/16 23:04	1
Chloride	240		10		mg/L			03/10/16 23:58	5
Fluoride	0.10		0.10		mg/L			03/19/16 17:24	1
Sulfate	210		50		mg/L			03/13/16 01:44	10

TestAmerica Chicago

MWG13-15_60123
3/24/2016

Client Sample Results

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

TestAmerica Job ID: 500-108286-1

Client Sample ID: MW-14

Lab Sample ID: 500-108286-7

Date Collected: 03/02/16 14:25

Matrix: Water

Date Received: 03/03/16 13:45

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.019		0.010		mg/L		03/04/16 08:35	03/04/16 18:54	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.015		0.0030		mg/L		03/04/16 08:35	03/10/16 00:36	1
Arsenic	4.3		0.0010		mg/L		03/04/16 08:35	03/10/16 00:36	1
Barium	0.12		0.0025		mg/L		03/04/16 08:35	03/10/16 00:36	1
Beryllium	<0.0010		0.0010		mg/L		03/04/16 08:35	03/21/16 13:45	1
Boron	0.93		0.050		mg/L		03/04/16 08:35	03/21/16 13:45	1
Cadmium	<0.00050		0.00050		mg/L		03/04/16 08:35	03/10/16 00:36	1
Calcium	150		0.20		mg/L		03/04/16 08:35	03/10/16 00:36	1
Chromium	1.1		0.0050		mg/L		03/04/16 08:35	03/10/16 00:36	1
Cobalt	0.0036		0.0010		mg/L		03/04/16 08:35	03/10/16 00:36	1
Lead	0.00068		0.00050		mg/L		03/04/16 08:35	03/21/16 13:45	1
Molybdenum	<0.0050		0.0050		mg/L		03/04/16 08:35	03/10/16 00:36	1
Selenium	<0.0025		0.0025		mg/L		03/04/16 08:35	03/10/16 00:36	1
Thallium	<0.0020		0.0020		mg/L		03/04/16 08:35	03/21/16 13:45	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/05/16 19:15	03/12/16 13:46	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	870		10		mg/L			03/03/16 23:07	1
Chloride	110		10		mg/L			03/10/16 23:59	5
Fluoride	0.17		0.10		mg/L			03/19/16 17:27	1
Sulfate	150		25		mg/L			03/13/16 01:45	5

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Client Sample Results

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

TestAmerica Job ID: 500-108286-1

Client Sample ID: MW-16

Lab Sample ID: 500-108286-8

Date Collected: 03/02/16 10:15

Matrix: Water

Date Received: 03/03/16 13:45

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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		03/04/16 08:35	03/04/16 18:58	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		03/04/16 08:35	03/10/16 00:39	1
Arsenic	0.0015		0.0010		mg/L		03/04/16 08:35	03/10/16 00:39	1
Barium	0.035		0.0025		mg/L		03/04/16 08:35	03/10/16 00:39	1
Beryllium	<0.0010		0.0010		mg/L		03/04/16 08:35	03/21/16 13:49	1
Boron	3.1		0.050		mg/L		03/04/16 08:35	03/21/16 13:49	1
Cadmium	0.0010		0.00050		mg/L		03/04/16 08:35	03/10/16 00:39	1
Calcium	360		2.0		mg/L		03/04/16 08:35	03/10/16 00:43	10
Chromium	<0.0050		0.0050		mg/L		03/04/16 08:35	03/10/16 00:39	1
Cobalt	<0.0010		0.0010		mg/L		03/04/16 08:35	03/10/16 00:39	1
Lead	<0.00050		0.00050		mg/L		03/04/16 08:35	03/21/16 13:49	1
Molybdenum	0.013		0.0050		mg/L		03/04/16 08:35	03/10/16 00:39	1
Selenium	0.0052		0.0025		mg/L		03/04/16 08:35	03/10/16 00:39	1
Thallium	0.0020		0.0020		mg/L		03/04/16 08:35	03/21/16 13:49	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/05/16 19:15	03/12/16 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10		mg/L			03/03/16 23:10	1
Chloride	130		10		mg/L			03/10/16 23:59	5
Fluoride	0.35		0.10		mg/L			03/19/16 17:30	1
Sulfate	990		250		mg/L			03/13/16 01:46	50

TestAmerica Chicago

MWG13-15_60125
3/24/2016

Client Sample Results

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

TestAmerica Job ID: 500-108286-1

Client Sample ID: Duplicates

Lab Sample ID: 500-108286-9

Date Collected: 03/02/16 00:00

Matrix: Water

Date Received: 03/03/16 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.12		0.010		mg/L		03/04/16 08:35	03/04/16 19:02	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		03/04/16 08:35	03/10/16 00:55	1
Arsenic	0.0013		0.0010		mg/L		03/04/16 08:35	03/21/16 14:22	1
Barium	0.035		0.0025		mg/L		03/04/16 08:35	03/21/16 14:22	1
Beryllium	<0.0010		0.0010		mg/L		03/04/16 08:35	03/21/16 14:22	1
Boron	3.6		0.50		mg/L		03/04/16 08:35	03/21/16 13:52	10
Cadmium	0.0010		0.00050		mg/L		03/04/16 08:35	03/10/16 00:55	1
Calcium	360		2.0		mg/L		03/04/16 08:35	03/21/16 13:52	10
Chromium	<0.0050		0.0050		mg/L		03/04/16 08:35	03/10/16 00:55	1
Cobalt	<0.0010		0.0010		mg/L		03/04/16 08:35	03/10/16 00:55	1
Lead	<0.00050		0.00050		mg/L		03/04/16 08:35	03/21/16 14:22	1
Molybdenum	0.012		0.0050		mg/L		03/04/16 08:35	03/10/16 00:55	1
Seelenium	0.0047		0.0025		mg/L		03/04/16 08:35	03/21/16 14:22	1
Thallium	<0.0020		0.0020		mg/L		03/04/16 08:35	03/21/16 14:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/05/16 19:15	03/12/16 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1800		10		mg/L			03/03/16 23:13	1
Chloride	120		10		mg/L			03/11/16 00:00	5
Fluoride	0.43		0.10		mg/L			03/24/16 11:15	1
Sulfate	1000		250		mg/L			03/13/16 01:47	50

TestAmerica Chicago

MWG13-15_60126
3/24/2016

Definitions/Glossary

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

TestAmerica Job ID: 500-108286-1

Qualifiers

Metals

Qualifier	Qualifier Description
V	Serial Dilution exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: 500-108286-1

Metals

Prep Batch: 325525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1	MW-01	Total Recoverable	Water	3005A	
500-108286-1 DU	MW-01	Total Recoverable	Water	3005A	
500-108286-1 MS	MW-01	Total Recoverable	Water	3005A	
500-108286-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-108286-2	MW-02	Total Recoverable	Water	3005A	
500-108286-3	MW-03	Total Recoverable	Water	3005A	
500-108286-4	MW-04	Total Recoverable	Water	3005A	
500-108286-5	MW-09	Total Recoverable	Water	3005A	
500-108286-6	MW-11	Total Recoverable	Water	3005A	
500-108286-7	MW-14	Total Recoverable	Water	3005A	
500-108286-8	MW-16	Total Recoverable	Water	3005A	
500-108286-9	Duplicates	Total Recoverable	Water	3005A	
LCS 500-325525/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 500-325525/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 325710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1	MW-01	Total Recoverable	Water	6010C	325525
500-108286-1 DU	MW-01	Total Recoverable	Water	6010C	325525
500-108286-1 MS	MW-01	Total Recoverable	Water	6010C	325525
500-108286-1 MSD	MW-01	Total Recoverable	Water	6010C	325525
500-108286-2	MW-02	Total Recoverable	Water	6010C	325525
500-108286-3	MW-03	Total Recoverable	Water	6010C	325525
500-108286-4	MW-04	Total Recoverable	Water	6010C	325525
500-108286-5	MW-09	Total Recoverable	Water	6010C	325525
500-108286-6	MW-11	Total Recoverable	Water	6010C	325525
500-108286-7	MW-14	Total Recoverable	Water	6010C	325525
500-108286-8	MW-16	Total Recoverable	Water	6010C	325525
500-108286-9	Duplicates	Total Recoverable	Water	6010C	325525
LCS 500-325525/2-A	Lab Control Sample	Total Recoverable	Water	6010C	325525
MB 500-325525/1-A	Method Blank	Total Recoverable	Water	6010C	325525

Prep Batch: 325748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1	MW-01	Total/NA	Water	7470A	
500-108286-2	MW-02	Total/NA	Water	7470A	
500-108286-3	MW-03	Total/NA	Water	7470A	
500-108286-4	MW-04	Total/NA	Water	7470A	
500-108286-5	MW-09	Total/NA	Water	7470A	
500-108286-6	MW-11	Total/NA	Water	7470A	
500-108286-7	MW-14	Total/NA	Water	7470A	
500-108286-8	MW-16	Total/NA	Water	7470A	
500-108286-9	Duplicates	Total/NA	Water	7470A	
LCS 500-325748/13-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-325748/12-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 326400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1	MW-01	Total Recoverable	Water	6020A	325525
500-108286-1 DU	MW-01	Total Recoverable	Water	6020A	325525
500-108286-1 MS	MW-01	Total Recoverable	Water	6020A	325525

TestAmerica Chicago

QC Association Summary

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

TestAmerica Job ID: 500-108286-1

Metals (Continued)

Analysis Batch: 326400 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1 MSD	MW-01	Total Recoverable	Water	6020A	325525
500-108286-2	MW-02	Total Recoverable	Water	6020A	325525
500-108286-3	MW-03	Total Recoverable	Water	6020A	325525
500-108286-4	MW-04	Total Recoverable	Water	6020A	325525
500-108286-5	MW-09	Total Recoverable	Water	6020A	325525
500-108286-5	MW-09	Total Recoverable	Water	6020A	325525
500-108286-6	MW-11	Total Recoverable	Water	6020A	325525
500-108286-7	MW-14	Total Recoverable	Water	6020A	325525
500-108286-8	MW-16	Total Recoverable	Water	6020A	325525
500-108286-8	MW-16	Total Recoverable	Water	6020A	325525
500-108286-9	Duplicates	Total Recoverable	Water	6020A	325525
LCS 500-325525/2-A	Lab Control Sample	Total Recoverable	Water	6020A	325525
MB 500-325525/1-A	Method Blank	Total Recoverable	Water	6020A	325525

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Analysis Batch: 326792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1	MW-01	Total/NA	Water	7470A	325748
500-108286-2	MW-02	Total/NA	Water	7470A	325748
500-108286-3	MW-03	Total/NA	Water	7470A	325748
500-108286-4	MW-04	Total/NA	Water	7470A	325748
500-108286-5	MW-09	Total/NA	Water	7470A	325748
500-108286-6	MW-11	Total/NA	Water	7470A	325748
500-108286-7	MW-14	Total/NA	Water	7470A	325748
500-108286-8	MW-16	Total/NA	Water	7470A	325748
500-108286-9	Duplicates	Total/NA	Water	7470A	325748
LCS 500-325748/13-A	Lab Control Sample	Total/NA	Water	7470A	325748
MB 500-325748/12-A	Method Blank	Total/NA	Water	7470A	325748

Analysis Batch: 328052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1	MW-01	Total Recoverable	Water	6020A	325525
500-108286-1 DU	MW-01	Total Recoverable	Water	6020A	325525
500-108286-1 MS	MW-01	Total Recoverable	Water	6020A	325525
500-108286-1 MSD	MW-01	Total Recoverable	Water	6020A	325525
500-108286-2	MW-02	Total Recoverable	Water	6020A	325525
500-108286-2	MW-02	Total Recoverable	Water	6020A	325525
500-108286-3	MW-03	Total Recoverable	Water	6020A	325525
500-108286-4	MW-04	Total Recoverable	Water	6020A	325525
500-108286-5	MW-09	Total Recoverable	Water	6020A	325525
500-108286-5	MW-09	Total Recoverable	Water	6020A	325525
500-108286-6	MW-11	Total Recoverable	Water	6020A	325525
500-108286-6	MW-11	Total Recoverable	Water	6020A	325525
500-108286-7	MW-14	Total Recoverable	Water	6020A	325525
500-108286-8	MW-16	Total Recoverable	Water	6020A	325525
500-108286-9	Duplicates	Total Recoverable	Water	6020A	325525
500-108286-9	Duplicates	Total Recoverable	Water	6020A	325525
LCS 500-325525/2-A	Lab Control Sample	Total Recoverable	Water	6020A	325525
MB 500-325525/1-A	Method Blank	Total Recoverable	Water	6020A	325525

TestAmerica Chicago

MWG13-15_60129
3/24/2016

QC Association Summary

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

TestAmerica Job ID: 500-108286-1

General Chemistry

Analysis Batch: 325492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-2	MW-02	Total/NA	Water	SM 2540C	
500-108286-3	MW-03	Total/NA	Water	SM 2540C	
500-108286-4	MW-04	Total/NA	Water	SM 2540C	
500-108286-5	MW-09	Total/NA	Water	SM 2540C	
500-108286-6	MW-11	Total/NA	Water	SM 2540C	
500-108286-7	MW-14	Total/NA	Water	SM 2540C	
500-108286-8	MW-16	Total/NA	Water	SM 2540C	
500-108286-9	Duplicates	Total/NA	Water	SM 2540C	
LCS 500-325492/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-325492/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 325493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1	MW-01	Total/NA	Water	SM 2540C	
LCS 500-325493/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-325493/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 325740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1	MW-01	Total/NA	Water	SM 4500 F C	
500-108286-2	MW-02	Total/NA	Water	SM 4500 F C	
LCS 500-325740/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-325740/31	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 326674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-108286-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-108286-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-108286-4	MW-04	Total/NA	Water	SM 4500 CI- E	
500-108286-5	MW-09	Total/NA	Water	SM 4500 CI- E	
500-108286-6	MW-11	Total/NA	Water	SM 4500 CI- E	
500-108286-7	MW-14	Total/NA	Water	SM 4500 CI- E	
500-108286-8	MW-16	Total/NA	Water	SM 4500 CI- E	
500-108286-9	Duplicates	Total/NA	Water	SM 4500 CI- E	
LCS 500-326674/13	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MB 500-326674/12	Method Blank	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 326940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-108286-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-108286-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
LCS 500-326940/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 500-326940/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 326946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-108286-4 MS	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-108286-4 MSD	MW-04	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Chicago

MWG13-15_60130
3/24/2016

QC Association Summary

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

TestAmerica Job ID: 500-108286-1

General Chemistry (Continued)

Analysis Batch: 326946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-5	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-108286-6	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-108286-7	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-108286-8	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-108286-9	Duplicates	Total/NA	Water	SM 4500 SO4 E	
LCS 500-326946/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 500-326946/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	

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Analysis Batch: 327955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-3	MW-03	Total/NA	Water	SM 4500 F C	
500-108286-3 MS	MW-03	Total/NA	Water	SM 4500 F C	
500-108286-3 MSD	MW-03	Total/NA	Water	SM 4500 F C	
500-108286-4	MW-04	Total/NA	Water	SM 4500 F C	
500-108286-5	MW-09	Total/NA	Water	SM 4500 F C	
500-108286-6	MW-11	Total/NA	Water	SM 4500 F C	
500-108286-7	MW-14	Total/NA	Water	SM 4500 F C	
500-108286-8	MW-16	Total/NA	Water	SM 4500 F C	
LCS 500-327955/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-327955/3	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 328532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-108286-9	Duplicates	Total/NA	Water	SM 4500 F C	
LCS 500-328532/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-328532/3	Method Blank	Total/NA	Water	SM 4500 F C	

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-108286-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-325525/1-A Matrix: Water Analysis Batch: 325710						Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 325525			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		03/04/16 08:35	03/04/16 17:44	1

Lab Sample ID: LCS 500-325525/2-A Matrix: Water Analysis Batch: 325710						Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 325525			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.	
Lithium	0.500	0.483		mg/L		97	80 - 120		

Lab Sample ID: 500-108286-1 MS Matrix: Water Analysis Batch: 325710						Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 325525			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lithium	<0.010		0.500	0.516		mg/L		103	75 - 125

Lab Sample ID: 500-108286-1 MSD Matrix: Water Analysis Batch: 325710						Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 325525					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lithium	<0.010		0.500	0.480		mg/L		96	75 - 125	7	20

Lab Sample ID: 500-108286-1 DU Matrix: Water Analysis Batch: 325710						Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 325525				
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit	RPD	
Lithium	<0.010		<0.010		mg/L		NC	20		

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-325525/1-A Matrix: Water Analysis Batch: 326400						Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 325525			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/04/16 08:35	03/09/16 22:50	1
Arsenic	<0.0010		0.0010		mg/L		03/04/16 08:35	03/09/16 22:50	1
Barium	<0.0025		0.0025		mg/L		03/04/16 08:35	03/09/16 22:50	1
Cadmium	<0.00050		0.00050		mg/L		03/04/16 08:35	03/09/16 22:50	1
Calcium	<0.20		0.20		mg/L		03/04/16 08:35	03/09/16 22:50	1
Chromium	<0.0050		0.0050		mg/L		03/04/16 08:35	03/09/16 22:50	1
Cobalt	<0.0010		0.0010		mg/L		03/04/16 08:35	03/09/16 22:50	1
Molybdenum	<0.0050		0.0050		mg/L		03/04/16 08:35	03/09/16 22:50	1
Selenium	<0.0025		0.0025		mg/L		03/04/16 08:35	03/09/16 22:50	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-108286-1

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

Lab Sample ID: MB 500-325525/1-A
Matrix: Water
Analysis Batch: 328052

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 325525

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		03/04/16 08:35	03/21/16 12:45	1
Boron	<0.050		0.050		mg/L		03/04/16 08:35	03/21/16 12:45	1
Lead	<0.00050		0.00050		mg/L		03/04/16 08:35	03/21/16 12:45	1
Thallium	<0.0020		0.0020		mg/L		03/04/16 08:35	03/21/16 12:45	1

Lab Sample ID: LCS 500-325525/2-A
Matrix: Water
Analysis Batch: 326400

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 325525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	0.500	0.496		mg/L		99	80 - 120	
Arsenic	0.100	0.104		mg/L		104	80 - 120	
Barium	2.00	2.05		mg/L		103	80 - 120	
Cadmium	0.0500	0.0514		mg/L		103	80 - 120	
Calcium	10.0	11.1		mg/L		111	80 - 120	
Chromium	0.200	0.204		mg/L		102	80 - 120	
Cobalt	0.500	0.513		mg/L		103	80 - 120	
Molybdenum	1.00	0.961		mg/L		96	80 - 120	
Selenium	0.100	0.104		mg/L		104	80 - 120	

Lab Sample ID: LCS 500-325525/2-A
Matrix: Water
Analysis Batch: 328052

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 325525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Beryllium	0.0500	0.0498		mg/L		100	80 - 120	
Boron	1.00	0.977		mg/L		98	80 - 120	
Lead	0.100	0.108		mg/L		108	80 - 120	
Thallium	0.100	0.109		mg/L		109	80 - 120	

Lab Sample ID: 500-108286-1 MS
Matrix: Water
Analysis Batch: 326400

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 325525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	<0.0030		0.500	0.510		mg/L		102	75 - 125	
Arsenic	0.10		0.100	0.218		mg/L		115	75 - 125	
Barium	0.026		2.00	2.09		mg/L		103	75 - 125	
Cadmium	<0.00050		0.0500	0.0507		mg/L		101	75 - 125	
Calcium	58		10.0	73.7	4	mg/L		153	75 - 125	
Chromium	<0.0050		0.200	0.197		mg/L		98	75 - 125	
Cobalt	<0.0010		0.500	0.496		mg/L		99	75 - 125	
Molybdenum	0.059		1.00	1.00		mg/L		95	75 - 125	
Selenium	<0.0025		0.100	0.0851		mg/L		83	75 - 125	

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-108286-1

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

Lab Sample ID: 500-108286-1 MS Matrix: Water Analysis Batch: 328052							Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 325525 %Rec.			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	
Beryllium	<0.0010		0.0500	0.0522		mg/L		104	75 - 125	
Boron	1.9	V	1.00	3.07		mg/L		115	75 - 125	
Lead	<0.00050		0.100	0.107		mg/L		106	75 - 125	
Thallium	<0.0020		0.100	0.107		mg/L		107	75 - 125	

Lab Sample ID: 500-108286-1 MSD Matrix: Water Analysis Batch: 326400							Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 325525 %Rec. RPD				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.502		mg/L		100	75 - 125	2	20
Arsenic	0.10		0.100	0.215		mg/L		111	75 - 125	2	20
Barium	0.026		2.00	2.06		mg/L		102	75 - 125	2	20
Cadmium	<0.00050		0.0500	0.0500		mg/L		100	75 - 125	1	20
Calcium	58		10.0	70.6	4	mg/L		123	75 - 125	4	20
Chromium	<0.0050		0.200	0.194		mg/L		97	75 - 125	2	20
Cobalt	<0.0010		0.500	0.486		mg/L		97	75 - 125	2	20
Molybdenum	0.059		1.00	0.993		mg/L		93	75 - 125	1	20
Selenium	<0.0025		0.100	0.0865		mg/L		84	75 - 125	2	20

Lab Sample ID: 500-108286-1 MSD Matrix: Water Analysis Batch: 328052							Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 325525 %Rec. RPD				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Beryllium	<0.0010		0.0500	0.0513		mg/L		103	75 - 125	2	20
Boron	1.9	V	1.00	3.08		mg/L		116	75 - 125	0	20
Lead	<0.00050		0.100	0.107		mg/L		106	75 - 125	0	20
Thallium	<0.0020		0.100	0.107		mg/L		107	75 - 125	0	20

Lab Sample ID: 500-108286-1 DU Matrix: Water Analysis Batch: 326400							Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 325525 RPD				
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD	Limit	
Antimony	<0.0030			<0.0030		mg/L			NC	20	
Arsenic	0.10			0.108		mg/L			4	20	
Barium	0.026			0.0269		mg/L			4	20	
Cadmium	<0.00050			<0.00050		mg/L			NC	20	
Calcium	58			60.5		mg/L			4	20	
Chromium	<0.0050			<0.0050		mg/L			NC	20	
Cobalt	<0.0010			<0.0010		mg/L			NC	20	
Molybdenum	0.059			0.0616		mg/L			5	20	
Selenium	<0.0025			0.00275		mg/L			NC	20	

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-108286-1

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

Lab Sample ID: 500-108286-1 DU		Client Sample ID: MW-01						
Matrix: Water		Prep Type: Total Recoverable						
Analysis Batch: 328052		Prep Batch: 325525						
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	1.9	V	2.01		mg/L		4	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-325748/12-A		Client Sample ID: Method Blank							
Matrix: Water		Prep Type: Total/NA							
Analysis Batch: 326792		Prep Batch: 325748							
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/05/16 19:15	03/12/16 12:58	1

Lab Sample ID: LCS 500-325748/13-A		Client Sample ID: Lab Control Sample					
Matrix: Water		Prep Type: Total/NA					
Analysis Batch: 326792		Prep Batch: 325748					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

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

Lab Sample ID: MB 500-325492/1		Client Sample ID: Method Blank							
Matrix: Water		Prep Type: Total/NA							
Analysis Batch: 325492									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			03/03/16 22:39	1

Lab Sample ID: LCS 500-325492/2		Client Sample ID: Lab Control Sample					
Matrix: Water		Prep Type: Total/NA					
Analysis Batch: 325492							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	250	290		mg/L		116	80 - 120

Lab Sample ID: MB 500-325493/1		Client Sample ID: Method Blank							
Matrix: Water		Prep Type: Total/NA							
Analysis Batch: 325493									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			03/04/16 00:31	1

TestAmerica Chicago

MWG13-15_60135
3/24/2016

QC Sample Results

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

TestAmerica Job ID: 500-108286-1

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

Lab Sample ID: LCS 500-325493/2				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 325493							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	294		mg/L		118	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-326674/12				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 326674									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			03/10/16 23:23	1

Lab Sample ID: LCS 500-326674/13				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 326674							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.9		mg/L		102	80 - 120

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-325740/31				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 325740									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/05/16 15:15	1

Lab Sample ID: LCS 500-325740/32				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 325740							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.6		mg/L		106	80 - 120

Lab Sample ID: MB 500-327955/3				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 327955									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/19/16 17:06	1

Lab Sample ID: LCS 500-327955/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 327955							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	9.96		mg/L		100	80 - 120

TestAmerica Chicago

MWG13-15_60136
3/24/2016

QC Sample Results

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

TestAmerica Job ID: 500-108286-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-108286-3 MS
Matrix: Water
Analysis Batch: 327955

Client Sample ID: MW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.33		5.00	4.87		mg/L		91	75 - 125

Lab Sample ID: 500-108286-3 MSD
Matrix: Water
Analysis Batch: 327955

Client Sample ID: MW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.33		5.00	4.82		mg/L		90	75 - 125	1	20

Lab Sample ID: MB 500-328532/3
Matrix: Water
Analysis Batch: 328532

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/24/16 11:08	1

Lab Sample ID: LCS 500-328532/4
Matrix: Water
Analysis Batch: 328532

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.9		mg/L		109	80 - 120

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-326940/3
Matrix: Water
Analysis Batch: 326940

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			03/12/16 22:26	1

Lab Sample ID: LCS 500-326940/4
Matrix: Water
Analysis Batch: 326940

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	19.8		mg/L		99	80 - 120

Lab Sample ID: MB 500-326946/3
Matrix: Water
Analysis Batch: 326946

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			03/13/16 01:38	1

TestAmerica Chicago

MWG13-15_60137
3/24/2016

QC Sample Results

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

TestAmerica Job ID: 500-108286-1

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

Lab Sample ID: LCS 500-326946/4 Matrix: Water Analysis Batch: 326946			Client Sample ID: Lab Control Sample Prep Type: Total/NA							
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfate			20.0	20.2		mg/L		101	80 - 120	

Lab Sample ID: 500-108286-4 MS Matrix: Water Analysis Batch: 326946			Client Sample ID: MW-04 Prep Type: Total/NA							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfate	170		400	541		mg/L		92	75 - 125	

Lab Sample ID: 500-108286-4 MSD Matrix: Water Analysis Batch: 326946			Client Sample ID: MW-04 Prep Type: Total/NA								
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	170		400	575		mg/L		101	75 - 125	6	20

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Chicago
 2417 Bond St.
 University Park, IL 60484
 708-534-5200
 Fax: 708-534-5211

Report To:		Bill To:	
Contact: Richard Gnat	Contact: Accounts Payable	Lab Lot # 500-108286	
Company: KPRG and Associates, Inc	Company: NRG Energy	Package Sealed	Samples Sealed
Address: 14665 W. Lisbon Rd., Suite 2B	Address: 112 Telly St	Yes (No)	Yes (No)
Brookfield, WI 53005	New Roads, LA, 70760	Received on Ice	Samples Intact
Phone: 252-781-0475	Phone: 713 465-4113	Yes No	Yes No N/A
Email: richardg@kprginc.com	Email: invoices@nrg.com	Temperature °C of Cooler (3.2)(2.8)(2.0)(1.4)	
	PO #: 4501576732		

Sampler Name: Ian John Howieson		Signature:		# / Cont.								Within Hold Time		Preserv. Indicated	
Project Name: Quarterly Waukegan CCR		TestAmerica Project Number: 50011597		Preserv.								Yes No		Yes No N/A	
Project Location: Waukegan, IL		TAT 15 Days		Matrix	# of Cont							pH Check OK		Res CL ₂ Check OK	
Lab PM: Eric Lang												Yes No		Yes No N/A	
Laboratory ID	MS-#/SD	Client Sample ID	Sampling Date	Time		903.0, 904.0 Radium 226/228	6010C, 6020A, 7470A - Total Metals	2540C - TDS	4500_F_C - Fluoride	SM4500_CL_E Chloride	SM4500_SO4_E - Sulfate	Additional Analyses / Remarks			
1		MW-01	3-1-16	10:05	W	5	X	X	X	X	X				
2		MW-02	3-1-16	12:10	W	5	X	X	X	X	X				
3		MW-03	3-1-16	13:40	W	5	X	X	X	X	X				
4		MW-04	3-1-16	16:05	W	5	X	X	X	X	X				
5		MW-09	3-2-16	18:00	W	5	X	X	X	X	X				
6		MW-11	3-2-16	15:35	W	5	X	X	X	X	X				
7		MW-14	3-2-16	14:25	W	5	X	X	X	X	X				
8		MW-16	3-2-16	10:15	W	5	X	X	X	X	X				
9		Duplicates	3-2-16	—	W	5	X	X	X	X	X				
					W		X	X	X	X	X	500-108286 COC			

RELINQUISHED BY: <i>[Signature]</i>	COMPANY: KPRG	DATE: 3-3-16	TIME: 13:44	RECEIVED BY: <i>[Signature]</i>	COMPANY: TAT	DATE: 03/03/16	TIME: 1345
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 1. = Leachate OL = Oil W = Wipe A = Air O =	Container Key 1. Plastic 2. VOA Vial 3. Sterile Plastic 4. Amber Glass 5. Wide-mouth 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: 3.3.16 Courier: Hand Delivered: <input checked="" type="checkbox"/> Bill of Lading: 7 of 11
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10

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-108286-1

Login Number: 108286
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago

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	(3.2)(2.8)(2.0)(1.4)c
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.	True	



Certification Summary

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

TestAmerica Job ID: 500-108286-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

