

TestAmerica

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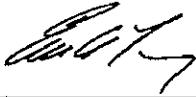
ANALYTICAL REPORT

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

TestAmerica Job ID: 500-111195-1
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:
5/25/2016 8:42:04 AM

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

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Case Narrative

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

TestAmerica Job ID: 500-111195-1

Job ID: 500-111195-1

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Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-111195-1

Comments

No additional comments.

Receipt

The samples were received on 5/5/2016 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.7° C, 3.1° C and 3.4° 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: 500-111195-1

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: 500-111195-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-111195-1	MW-01	Water	05/04/16 09:30	05/05/16 15:30
500-111195-2	MW-02	Water	05/04/16 11:44	05/05/16 15:30
500-111195-3	MW-03	Water	05/04/16 13:05	05/05/16 15:30
500-111195-4	MW-04	Water	05/04/16 14:43	05/05/16 15:30
500-111195-5	MW-09	Water	05/03/16 13:45	05/05/16 15:30
500-111195-6	MW-11	Water	05/05/16 10:45	05/05/16 15:30
500-111195-7	MW-14	Water	05/05/16 08:51	05/05/16 15:30
500-111195-8	MW-16	Water	05/02/16 13:45	05/05/16 15:30
500-111195-9	Duplicate	Water	05/04/16 00:00	05/05/16 15:30

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Client Sample Results

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

TestAmerica Job ID: 500-111195-1

Client Sample ID: MW-01

Lab Sample ID: 500-111195-1

Date Collected: 05/04/16 09:30

Matrix: Water

Date Received: 05/05/16 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/12/16 11:06	05/13/16 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		05/06/16 14:53	05/09/16 19:01	1
Arsenic	0.11		0.0010		mg/L		05/06/16 14:53	05/09/16 19:01	1
Barium	0.017		0.0025		mg/L		05/06/16 14:53	05/09/16 19:01	1
Beryllium	<0.0010		0.0010		mg/L		05/06/16 14:53	05/19/16 16:17	1
Boron	2.0		0.25		mg/L		05/06/16 14:53	05/20/16 16:31	5
Cadmium	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:01	1
Calcium	45		0.20		mg/L		05/06/16 14:53	05/09/16 19:01	1
Chromium	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 19:01	1
Cobalt	<0.0010		0.0010		mg/L		05/06/16 14:53	05/09/16 19:01	1
Lead	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:01	1
Molybdenum	0.069		0.0050		mg/L		05/06/16 14:53	05/09/16 19:01	1
Selenium	<0.0025		0.0025		mg/L		05/06/16 14:53	05/09/16 19:01	1
Thallium	<0.0020		0.0020		mg/L		05/06/16 14:53	05/09/16 19:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/09/16 17:15	05/10/16 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	490		10		mg/L			05/06/16 04:13	1
Chloride	60		2.0		mg/L			05/16/16 23:23	1
Fluoride	0.30		0.10		mg/L			05/14/16 21:04	1
Sulfate	210		50		mg/L			05/16/16 00:13	10

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Client Sample Results

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

TestAmerica Job ID: 500-111195-1

Client Sample ID: MW-02

Lab Sample ID: 500-111195-2

Date Collected: 05/04/16 11:44

Matrix: Water

Date Received: 05/05/16 15:30

Method: 6010C - Metals (ICP) - Total Recoverable										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lithium	<0.010		0.010		mg/L		05/12/16 11:06	05/13/16 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		05/06/16 14:53	05/09/16 19:20	1	
Arsenic	0.0081		0.0010		mg/L		05/06/16 14:53	05/09/16 19:20	1	
Barium	0.018		0.0025		mg/L		05/06/16 14:53	05/09/16 19:20	1	
Beryllium	<0.0010		0.0010		mg/L		05/06/16 14:53	05/19/16 16:36	1	
Boron	3.3		0.25		mg/L		05/06/16 14:53	05/20/16 16:50	5	
Cadmium	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:20	1	
Calcium	34		0.20		mg/L		05/06/16 14:53	05/09/16 19:20	1	
Chromium	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 19:20	1	
Cobalt	<0.0010		0.0010		mg/L		05/06/16 14:53	05/09/16 19:20	1	
Lead	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:20	1	
Molybdenum	0.069		0.0050		mg/L		05/06/16 14:53	05/09/16 19:20	1	
Selenium	<0.0025		0.0025		mg/L		05/06/16 14:53	05/09/16 19:20	1	
Thallium	<0.0020		0.0020		mg/L		05/06/16 14:53	05/09/16 19:20	1	

Method: 7470A - Mercury (CVAA)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	<0.00020		0.00020		mg/L		05/09/16 17:15	05/10/16 11:32	1	

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Dissolved Solids	440		10		mg/L			05/06/16 04:16	1	
Chloride	51		2.0		mg/L			05/16/16 23:24	1	
Fluoride	1.5		0.10		mg/L			05/14/16 21:07	1	
Sulfate	180		50		mg/L			05/16/16 00:14	10	

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Client Sample Results

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

TestAmerica Job ID: 500-111195-1

Client Sample ID: MW-03

Lab Sample ID: 500-111195-3

Date Collected: 05/04/16 13:05

Matrix: Water

Date Received: 05/05/16 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/12/16 11:06	05/13/16 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		05/06/16 14:53	05/09/16 19:31	1
Arsenic	0.0070		0.0010		mg/L		05/06/16 14:53	05/09/16 19:31	1
Barium	0.011		0.0025		mg/L		05/06/16 14:53	05/09/16 19:31	1
Beryllium	<0.0010		0.0010		mg/L		05/06/16 14:53	05/19/16 16:40	1
Boron	2.4		0.25		mg/L		05/06/16 14:53	05/20/16 16:54	5
Cadmium	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:31	1
Calcium	42		0.20		mg/L		05/06/16 14:53	05/09/16 19:31	1
Chromium	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 19:31	1
Cobalt	<0.0010		0.0010		mg/L		05/06/16 14:53	05/09/16 19:31	1
Lead	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:31	1
Molybdenum	0.058		0.0050		mg/L		05/06/16 14:53	05/09/16 19:31	1
Selenium	<0.0025		0.0025		mg/L		05/06/16 14:53	05/09/16 19:31	1
Thallium	<0.0020		0.0020		mg/L		05/06/16 14:53	05/09/16 19:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/09/16 17:15	05/10/16 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	470		10		mg/L			05/06/16 04:19	1
Chloride	74		2.0		mg/L			05/16/16 23:25	1
Fluoride	0.56		0.10		mg/L			05/14/16 21:10	1
Sulfate	170		50		mg/L			05/16/16 00:15	10

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Client Sample Results

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

TestAmerica Job ID: 500-111195-1

Client Sample ID: MW-04

Lab Sample ID: 500-111195-4

Date Collected: 05/04/16 14:43

Matrix: Water

Date Received: 05/05/16 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/12/16 11:06	05/13/16 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		05/06/16 14:53	05/09/16 19:35	1
Arsenic	0.0083		0.0010		mg/L		05/06/16 14:53	05/09/16 19:35	1
Barium	0.017		0.0025		mg/L		05/06/16 14:53	05/09/16 19:35	1
Beryllium	<0.0010		0.0010		mg/L		05/06/16 14:53	05/19/16 16:44	1
Boron	1.6		0.25		mg/L		05/06/16 14:53	05/20/16 16:57	5
Cadmium	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:35	1
Calcium	44		0.20		mg/L		05/06/16 14:53	05/09/16 19:35	1
Chromium	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 19:35	1
Cobalt	<0.0010		0.0010		mg/L		05/06/16 14:53	05/09/16 19:35	1
Lead	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:35	1
Molybdenum	0.046		0.0050		mg/L		05/06/16 14:53	05/09/16 19:35	1
Selenium	<0.0025		0.0025		mg/L		05/06/16 14:53	05/09/16 19:35	1
Thallium	<0.0020		0.0020		mg/L		05/06/16 14:53	05/09/16 19:35	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/09/16 17:15	05/10/16 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		10		mg/L			05/06/16 04:36	1
Chloride	49		2.0		mg/L			05/16/16 23:26	1
Fluoride	0.61		0.10		mg/L			05/14/16 21:13	1
Sulfate	140		25		mg/L			05/16/16 00:18	5

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TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-111195-1

Client Sample ID: MW-09

Lab Sample ID: 500-111195-5

Date Collected: 05/03/16 13:45

Matrix: Water

Date Received: 05/05/16 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.083		0.010		mg/L		05/12/16 11:06	05/13/16 18:46	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		05/06/16 14:53	05/09/16 19:38	1
Arsenic	0.0014		0.0010		mg/L		05/06/16 14:53	05/09/16 19:38	1
Barium	0.025		0.0025		mg/L		05/06/16 14:53	05/09/16 19:38	1
Beryllium	<0.0010		0.0010		mg/L		05/06/16 14:53	05/19/16 16:47	1
Boron	16		0.25		mg/L		05/06/16 14:53	05/20/16 17:09	5
Cadmium	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:38	1
Calcium	310		2.0		mg/L		05/06/16 14:53	05/19/16 15:59	10
Chromium	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 19:38	1
Cobalt	<0.0010		0.0010		mg/L		05/06/16 14:53	05/09/16 19:38	1
Lead	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:38	1
Molybdenum	0.63		0.0050		mg/L		05/06/16 14:53	05/09/16 19:38	1
Selenium	0.024		0.0025		mg/L		05/06/16 14:53	05/09/16 19:38	1
Thallium	<0.0020		0.0020		mg/L		05/06/16 14:53	05/09/16 19:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/09/16 17:15	05/10/16 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2500		13		mg/L			05/06/16 04:43	1
Chloride	620		50		mg/L			05/16/16 23:58	25
Fluoride	0.12		0.10		mg/L			05/14/16 21:15	1
Sulfate	740		250		mg/L			05/16/16 00:19	50

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TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-111195-1

Client Sample ID: MW-11

Lab Sample ID: 500-111195-6

Date Collected: 05/05/16 10:45

Matrix: Water

Date Received: 05/05/16 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.057		0.010		mg/L		05/12/16 11:06	05/13/16 18:51	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		05/06/16 14:53	05/09/16 19:42	1
Arsenic	0.51		0.0010		mg/L		05/06/16 14:53	05/09/16 19:42	1
Barium	0.038		0.0025		mg/L		05/06/16 14:53	05/09/16 19:42	1
Beryllium	<0.0010		0.0010		mg/L		05/06/16 14:53	05/19/16 16:59	1
Boron	5.0		0.25		mg/L		05/06/16 14:53	05/20/16 17:12	5
Cadmium	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:42	1
Calcium	140		0.20		mg/L		05/06/16 14:53	05/09/16 19:42	1
Chromium	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 19:42	1
Cobalt	<0.0010		0.0010		mg/L		05/06/16 14:53	05/09/16 19:42	1
Lead	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:42	1
Molybdenum	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 19:42	1
Selenium	<0.0025		0.0025		mg/L		05/06/16 14:53	05/09/16 19:42	1
Thallium	<0.0020		0.0020		mg/L		05/06/16 14:53	05/09/16 19:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/09/16 17:15	05/10/16 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			05/06/16 04:46	1
Chloride	280		10		mg/L			05/16/16 23:59	5
Fluoride	0.11		0.10		mg/L			05/14/16 21:18	1
Sulfate	160		40		mg/L			05/16/16 00:20	8

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Client Sample Results

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

TestAmerica Job ID: 500-111195-1

Client Sample ID: MW-14

Lab Sample ID: 500-111195-7

Date Collected: 05/05/16 08:51

Matrix: Water

Date Received: 05/05/16 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.021		0.010		mg/L		05/12/16 11:06	05/13/16 18:56	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		05/06/16 14:53	05/09/16 19:46	1
Arsenic	0.35		0.0010		mg/L		05/06/16 14:53	05/09/16 19:46	1
Barium	0.054		0.0025		mg/L		05/06/16 14:53	05/09/16 19:46	1
Beryllium	<0.0010		0.0010		mg/L		05/06/16 14:53	05/19/16 17:03	1
Boron	1.2		0.25		mg/L		05/06/16 14:53	05/20/16 17:16	5
Cadmium	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:46	1
Calcium	170		0.20		mg/L		05/06/16 14:53	05/09/16 19:46	1
Chromium	0.017		0.0050		mg/L		05/06/16 14:53	05/09/16 19:46	1
Cobalt	0.0014		0.0010		mg/L		05/06/16 14:53	05/09/16 19:46	1
Lead	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:46	1
Molybdenum	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 19:46	1
Selenium	<0.0025		0.0025		mg/L		05/06/16 14:53	05/09/16 19:46	1
Thallium	<0.0020		0.0020		mg/L		05/06/16 14:53	05/09/16 19:46	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/09/16 17:15	05/10/16 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	980		10		mg/L			05/06/16 04:50	1
Chloride	120		10		mg/L			05/17/16 00:00	5
Fluoride	0.18		0.10		mg/L			05/14/16 21:21	1
Sulfate	190		50		mg/L			05/16/16 00:21	10

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TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-111195-1

Client Sample ID: MW-16

Lab Sample ID: 500-111195-8

Date Collected: 05/02/16 13:45

Matrix: Water

Date Received: 05/05/16 15:30

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.024		0.010		mg/L		05/12/16 11:06	05/13/16 19:00	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		05/06/16 14:53	05/09/16 19:50	1
Arsenic	0.0011		0.0010		mg/L		05/06/16 14:53	05/09/16 19:50	1
Barium	0.052		0.0025		mg/L		05/06/16 14:53	05/09/16 19:50	1
Beryllium	<0.0010		0.0010		mg/L		05/06/16 14:53	05/19/16 17:06	1
Boron	4.9		0.25		mg/L		05/06/16 14:53	05/20/16 17:20	5
Cadmium	0.00053		0.00050		mg/L		05/06/16 14:53	05/09/16 19:50	1
Calcium	250		2.0		mg/L		05/06/16 14:53	05/19/16 16:02	10
Chromium	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 19:50	1
Cobalt	<0.0010		0.0010		mg/L		05/06/16 14:53	05/09/16 19:50	1
Lead	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:50	1
Molybdenum	0.014		0.0050		mg/L		05/06/16 14:53	05/09/16 19:50	1
Selenium	<0.0025		0.0025		mg/L		05/06/16 14:53	05/09/16 19:50	1
Thallium	<0.0020		0.0020		mg/L		05/06/16 14:53	05/09/16 19:50	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/09/16 17:15	05/10/16 11:54	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			05/06/16 04:53	1
Chloride	150		10		mg/L			05/17/16 00:00	5
Fluoride	0.49		0.10		mg/L			05/14/16 21:23	1
Sulfate	620		100		mg/L			05/16/16 00:24	20

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Client Sample Results

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

TestAmerica Job ID: 500-111195-1

Client Sample ID: Duplicate

Lab Sample ID: 500-111195-9

Date Collected: 05/04/16 00:00

Matrix: Water

Date Received: 05/05/16 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/12/16 11:06	05/13/16 19:04	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		05/06/16 14:53	05/09/16 19:53	1
Arsenic	0.12		0.0010		mg/L		05/06/16 14:53	05/09/16 19:53	1
Barium	0.017		0.0025		mg/L		05/06/16 14:53	05/09/16 19:53	1
Beryllium	<0.0010		0.0010		mg/L		05/06/16 14:53	05/19/16 17:10	1
Boron	2.2		0.25		mg/L		05/06/16 14:53	05/20/16 17:24	5
Cadmium	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:53	1
Calcium	45		0.20		mg/L		05/06/16 14:53	05/09/16 19:53	1
Chromium	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 19:53	1
Cobalt	<0.0010		0.0010		mg/L		05/06/16 14:53	05/09/16 19:53	1
Lead	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 19:53	1
Molybdenum	0.071		0.0050		mg/L		05/06/16 14:53	05/09/16 19:53	1
Selenium	<0.0025		0.0025		mg/L		05/06/16 14:53	05/09/16 19:53	1
Thallium	<0.0020		0.0020		mg/L		05/06/16 14:53	05/09/16 19:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/09/16 17:15	05/10/16 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	560		10		mg/L			05/06/16 04:57	1
Chloride	61		2.0		mg/L			05/16/16 23:34	1
Fluoride	0.30		0.10		mg/L			05/14/16 21:36	1
Sulfate	210		50		mg/L			05/16/16 00:25	10

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TestAmerica Chicago

Definitions/Glossary

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

TestAmerica Job ID: 500-111195-1

Qualifiers

Metals

Qualifier	Qualifier Description
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.
π	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: 500-111195-1

Metals

Prep Batch: 334344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total Recoverable	Water	3005A	
500-111195-1 DU	MW-01	Total Recoverable	Water	3005A	
500-111195-1 MS	MW-01	Total Recoverable	Water	3005A	
500-111195-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-111195-2	MW-02	Total Recoverable	Water	3005A	
500-111195-3	MW-03	Total Recoverable	Water	3005A	
500-111195-4	MW-04	Total Recoverable	Water	3005A	
500-111195-5	MW-09	Total Recoverable	Water	3005A	
500-111195-6	MW-11	Total Recoverable	Water	3005A	
500-111195-7	MW-14	Total Recoverable	Water	3005A	
500-111195-8	MW-16	Total Recoverable	Water	3005A	
500-111195-9	Duplicate	Total Recoverable	Water	3005A	
LCS 500-334344/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 500-334344/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 334611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total/NA	Water	7470A	
500-111195-2	MW-02	Total/NA	Water	7470A	
500-111195-2 DU	MW-02	Total/NA	Water	7470A	
500-111195-2 MS	MW-02	Total/NA	Water	7470A	
500-111195-2 MSD	MW-02	Total/NA	Water	7470A	
500-111195-3	MW-03	Total/NA	Water	7470A	
500-111195-4	MW-04	Total/NA	Water	7470A	
500-111195-5	MW-09	Total/NA	Water	7470A	
500-111195-6	MW-11	Total/NA	Water	7470A	
500-111195-7	MW-14	Total/NA	Water	7470A	
500-111195-8	MW-16	Total/NA	Water	7470A	
500-111195-9	Duplicate	Total/NA	Water	7470A	
LCS 500-334611/13-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-334611/12-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 334746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total Recoverable	Water	6020A	334344
500-111195-1 DU	MW-01	Total Recoverable	Water	6020A	334344
500-111195-1 MS	MW-01	Total Recoverable	Water	6020A	334344
500-111195-1 MSD	MW-01	Total Recoverable	Water	6020A	334344
500-111195-2	MW-02	Total Recoverable	Water	6020A	334344
500-111195-3	MW-03	Total Recoverable	Water	6020A	334344
500-111195-4	MW-04	Total Recoverable	Water	6020A	334344
500-111195-5	MW-09	Total Recoverable	Water	6020A	334344
500-111195-6	MW-11	Total Recoverable	Water	6020A	334344
500-111195-7	MW-14	Total Recoverable	Water	6020A	334344
500-111195-8	MW-16	Total Recoverable	Water	6020A	334344
500-111195-9	Duplicate	Total Recoverable	Water	6020A	334344
LCS 500-334344/2-A	Lab Control Sample	Total Recoverable	Water	6020A	334344
MB 500-334344/1-A	Method Blank	Total Recoverable	Water	6020A	334344

TestAmerica Chicago

QC Association Summary

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

TestAmerica Job ID: 500-111195-1

Metals (Continued)

Analysis Batch: 334804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total/NA	Water	7470A	334611
500-111195-2	MW-02	Total/NA	Water	7470A	334611
500-111195-2 DU	MW-02	Total/NA	Water	7470A	334611
500-111195-2 MS	MW-02	Total/NA	Water	7470A	334611
500-111195-2 MSD	MW-02	Total/NA	Water	7470A	334611
500-111195-3	MW-03	Total/NA	Water	7470A	334611
500-111195-4	MW-04	Total/NA	Water	7470A	334611
500-111195-5	MW-09	Total/NA	Water	7470A	334611
500-111195-6	MW-11	Total/NA	Water	7470A	334611
500-111195-7	MW-14	Total/NA	Water	7470A	334611
500-111195-8	MW-16	Total/NA	Water	7470A	334611
500-111195-9	Duplicate	Total/NA	Water	7470A	334611
LCS 500-334611/13-A	Lab Control Sample	Total/NA	Water	7470A	334611
MB 500-334611/12-A	Method Blank	Total/NA	Water	7470A	334611

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Prep Batch: 335169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total Recoverable	Water	3005A	
500-111195-2	MW-02	Total Recoverable	Water	3005A	
500-111195-3	MW-03	Total Recoverable	Water	3005A	
500-111195-4	MW-04	Total Recoverable	Water	3005A	
500-111195-5	MW-09	Total Recoverable	Water	3005A	
500-111195-6	MW-11	Total Recoverable	Water	3005A	
500-111195-7	MW-14	Total Recoverable	Water	3005A	
500-111195-8	MW-16	Total Recoverable	Water	3005A	
500-111195-9	Duplicate	Total Recoverable	Water	3005A	
LCS 500-335169/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 500-335169/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 335476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total Recoverable	Water	6010C	335169
500-111195-2	MW-02	Total Recoverable	Water	6010C	335169
500-111195-3	MW-03	Total Recoverable	Water	6010C	335169
500-111195-4	MW-04	Total Recoverable	Water	6010C	335169
500-111195-5	MW-09	Total Recoverable	Water	6010C	335169
500-111195-6	MW-11	Total Recoverable	Water	6010C	335169
500-111195-7	MW-14	Total Recoverable	Water	6010C	335169
500-111195-8	MW-16	Total Recoverable	Water	6010C	335169
500-111195-9	Duplicate	Total Recoverable	Water	6010C	335169
LCS 500-335169/2-A	Lab Control Sample	Total Recoverable	Water	6010C	335169
MB 500-335169/1-A	Method Blank	Total Recoverable	Water	6010C	335169

Analysis Batch: 336337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total Recoverable	Water	6020A	334344
500-111195-1 DU	MW-01	Total Recoverable	Water	6020A	334344
500-111195-1 MS	MW-01	Total Recoverable	Water	6020A	334344
500-111195-1 MSD	MW-01	Total Recoverable	Water	6020A	334344
500-111195-2	MW-02	Total Recoverable	Water	6020A	334344
500-111195-3	MW-03	Total Recoverable	Water	6020A	334344

TestAmerica Chicago

QC Association Summary

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

TestAmerica Job ID: 500-111195-1

Metals (Continued)

Analysis Batch: 336337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-4	MW-04	Total Recoverable	Water	6020A	334344
500-111195-5	MW-09	Total Recoverable	Water	6020A	334344
500-111195-5	MW-09	Total Recoverable	Water	6020A	334344
500-111195-6	MW-11	Total Recoverable	Water	6020A	334344
500-111195-7	MW-14	Total Recoverable	Water	6020A	334344
500-111195-8	MW-16	Total Recoverable	Water	6020A	334344
500-111195-8	MW-16	Total Recoverable	Water	6020A	334344
500-111195-9	Duplicate	Total Recoverable	Water	6020A	334344
LCS 500-334344/2-A	Lab Control Sample	Total Recoverable	Water	6020A	334344
MB 500-334344/1-A	Method Blank	Total Recoverable	Water	6020A	334344

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Analysis Batch: 336629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total Recoverable	Water	6020A	334344
500-111195-1 DU	MW-01	Total Recoverable	Water	6020A	334344
500-111195-1 MS	MW-01	Total Recoverable	Water	6020A	334344
500-111195-1 MSD	MW-01	Total Recoverable	Water	6020A	334344
500-111195-2	MW-02	Total Recoverable	Water	6020A	334344
500-111195-3	MW-03	Total Recoverable	Water	6020A	334344
500-111195-4	MW-04	Total Recoverable	Water	6020A	334344
500-111195-5	MW-09	Total Recoverable	Water	6020A	334344
500-111195-6	MW-11	Total Recoverable	Water	6020A	334344
500-111195-7	MW-14	Total Recoverable	Water	6020A	334344
500-111195-8	MW-16	Total Recoverable	Water	6020A	334344
500-111195-9	Duplicate	Total Recoverable	Water	6020A	334344
LCS 500-334344/2-A	Lab Control Sample	Total Recoverable	Water	6020A	334344
MB 500-334344/1-A	Method Blank	Total Recoverable	Water	6020A	334344

General Chemistry

Analysis Batch: 334239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total/NA	Water	SM 2540C	
500-111195-2	MW-02	Total/NA	Water	SM 2540C	
500-111195-3	MW-03	Total/NA	Water	SM 2540C	
LCS 500-334239/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-334239/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 334240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-4	MW-04	Total/NA	Water	SM 2540C	
500-111195-4 DU	MW-04	Total/NA	Water	SM 2540C	
500-111195-5	MW-09	Total/NA	Water	SM 2540C	
500-111195-6	MW-11	Total/NA	Water	SM 2540C	
500-111195-7	MW-14	Total/NA	Water	SM 2540C	
500-111195-8	MW-16	Total/NA	Water	SM 2540C	
500-111195-9	Duplicate	Total/NA	Water	SM 2540C	
LCS 500-334240/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-334240/1	Method Blank	Total/NA	Water	SM 2540C	

TestAmerica Chicago

QC Association Summary

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

TestAmerica Job ID: 500-111195-1

General Chemistry (Continued)

Analysis Batch: 335515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total/NA	Water	SM 4500 F C	
500-111195-2	MW-02	Total/NA	Water	SM 4500 F C	
500-111195-3	MW-03	Total/NA	Water	SM 4500 F C	
500-111195-4	MW-04	Total/NA	Water	SM 4500 F C	
500-111195-5	MW-09	Total/NA	Water	SM 4500 F C	
500-111195-6	MW-11	Total/NA	Water	SM 4500 F C	
500-111195-7	MW-14	Total/NA	Water	SM 4500 F C	
500-111195-8	MW-16	Total/NA	Water	SM 4500 F C	
500-111195-9	Duplicate	Total/NA	Water	SM 4500 F C	
500-111195-9 MS	Duplicate	Total/NA	Water	SM 4500 F C	
500-111195-9 MSD	Duplicate	Total/NA	Water	SM 4500 F C	
LCS 500-335515/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-335515/3	Method Blank	Total/NA	Water	SM 4500 F C	

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Analysis Batch: 335539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-111195-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-111195-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-111195-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-111195-5	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-111195-6	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-111195-7	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-111195-7 MS	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-111195-7 MSD	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-111195-8	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-111195-9	Duplicate	Total/NA	Water	SM 4500 SO4 E	
LCS 500-335539/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 500-335539/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 335720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-111195-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-111195-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-111195-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-111195-4	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-111195-5	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-111195-6	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-111195-7	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-111195-8	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-111195-8 MS	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-111195-8 MSD	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-111195-9	Duplicate	Total/NA	Water	SM 4500 Cl- E	
LCS 500-335720/5	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MB 500-335720/4	Method Blank	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-111195-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-335169/1-A
Matrix: Water
Analysis Batch: 335476

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 335169

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<0.010		0.010		mg/L		05/12/16 11:06	05/13/16 18:13	1

Lab Sample ID: LCS 500-335169/2-A
Matrix: Water
Analysis Batch: 335476

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 335169

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Lithium	0.500	0.511		mg/L		102	80 - 120

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Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-334344/1-A
Matrix: Water
Analysis Batch: 334746

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 334344

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		05/06/16 14:53	05/09/16 18:49	1
Arsenic	<0.0010		0.0010		mg/L		05/06/16 14:53	05/09/16 18:49	1
Barium	<0.0025		0.0025		mg/L		05/06/16 14:53	05/09/16 18:49	1
Cadmium	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 18:49	1
Calcium	<0.20		0.20		mg/L		05/06/16 14:53	05/09/16 18:49	1
Chromium	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 18:49	1
Cobalt	<0.0010		0.0010		mg/L		05/06/16 14:53	05/09/16 18:49	1
Lead	<0.00050		0.00050		mg/L		05/06/16 14:53	05/09/16 18:49	1
Molybdenum	<0.0050		0.0050		mg/L		05/06/16 14:53	05/09/16 18:49	1
Selenium	<0.0025		0.0025		mg/L		05/06/16 14:53	05/09/16 18:49	1
Thallium	<0.0020		0.0020		mg/L		05/06/16 14:53	05/09/16 18:49	1

Lab Sample ID: MB 500-334344/1-A
Matrix: Water
Analysis Batch: 336337

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 334344

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		05/06/16 14:53	05/19/16 15:51	1

Lab Sample ID: MB 500-334344/1-A
Matrix: Water
Analysis Batch: 336629

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 334344

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		05/06/16 14:53	05/20/16 16:24	1

Lab Sample ID: LCS 500-334344/2-A
Matrix: Water
Analysis Batch: 334746

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 334344

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	0.500	0.470		mg/L		94	80 - 120
Arsenic	0.100	0.0913		mg/L		91	80 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-111195-1

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

Lab Sample ID: LCS 500-334344/2-A Matrix: Water Analysis Batch: 334746			Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 334344 %Rec.					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Barium	0.500	0.471		mg/L		94	80 - 120	
Cadmium	0.0500	0.0469		mg/L		94	80 - 120	
Calcium	10.0	10.3		mg/L		103	80 - 120	
Chromium	0.200	0.187		mg/L		94	80 - 120	
Cobalt	0.500	0.481		mg/L		96	80 - 120	
Lead	0.100	0.0956		mg/L		96	80 - 120	
Molybdenum	1.00	0.936		mg/L		94	80 - 120	
Selenium	0.100	0.0922		mg/L		92	80 - 120	
Thallium	0.100	0.0948		mg/L		95	80 - 120	

Lab Sample ID: LCS 500-334344/2-A Matrix: Water Analysis Batch: 336337			Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 334344 %Rec.					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Beryllium	0.0500	0.0446		mg/L		89	80 - 120	

Lab Sample ID: LCS 500-334344/2-A Matrix: Water Analysis Batch: 336629			Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 334344 %Rec.					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
Boron	1.00	0.951		mg/L		95	80 - 120	

Lab Sample ID: 500-111195-1 MS Matrix: Water Analysis Batch: 334746			Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 334344 %Rec.						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0030		0.500	0.490		mg/L		98	75 - 125
Arsenic	0.11		0.100	0.209		mg/L		97	75 - 125
Barium	0.017		0.500	0.500		mg/L		97	75 - 125
Cadmium	<0.00050		0.0500	0.0478		mg/L		96	75 - 125
Calcium	45		10.0	54.8	4	mg/L		101	75 - 125
Chromium	<0.0050		0.200	0.189		mg/L		95	75 - 125
Cobalt	<0.0010		0.500	0.487		mg/L		97	75 - 125
Lead	<0.00050		0.100	0.0988		mg/L		99	75 - 125
Molybdenum	0.069		1.00	1.02		mg/L		95	75 - 125
Selenium	<0.0025		0.100	0.0832		mg/L		82	75 - 125
Thallium	<0.0020		0.100	0.0972		mg/L		97	75 - 125

Lab Sample ID: 500-111195-1 MS Matrix: Water Analysis Batch: 336337			Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 334344 %Rec.						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Beryllium	<0.0010		0.0500	0.0454		mg/L		91	75 - 125

TestAmerica Chicago

MWG13-15_58725
5/25/2016

QC Sample Results

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

TestAmerica Job ID: 500-111195-1

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

Lab Sample ID: 500-111195-1 MS Matrix: Water Analysis Batch: 336629						Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 334344 %Rec.				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	
Boron	2.0		1.00	2.98		mg/L		95	75-125	

Lab Sample ID: 500-111195-1 MSD Matrix: Water Analysis Batch: 334746						Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 334344 %Rec.					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.498		mg/L		100	75-125	2	20
Arsenic	0.11		0.100	0.212		mg/L		100	75-125	1	20
Barium	0.017		0.500	0.503		mg/L		97	75-125	1	20
Cadmium	<0.00050		0.0500	0.0492		mg/L		98	75-125	3	20
Calcium	45		10.0	55.8	4	mg/L		111	75-125	2	20
Chromium	<0.0050		0.200	0.192		mg/L		96	75-125	1	20
Cobalt	<0.0010		0.500	0.493		mg/L		99	75-125	1	20
Lead	<0.00050		0.100	0.0991		mg/L		99	75-125	0	20
Molybdenum	0.069		1.00	1.06		mg/L		99	75-125	3	20
Selenium	<0.0025		0.100	0.0837		mg/L		83	75-125	1	20
Thallium	<0.0020		0.100	0.0973		mg/L		97	75-125	0	20

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Lab Sample ID: 500-111195-1 MSD Matrix: Water Analysis Batch: 336337						Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 334344 %Rec.					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Beryllium	<0.0010		0.0500	0.0450		mg/L		90	75-125	1	20

Lab Sample ID: 500-111195-1 MSD Matrix: Water Analysis Batch: 336629						Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 334344 %Rec.					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	2.0		1.00	2.96		mg/L		93	75-125	0	20

Lab Sample ID: 500-111195-1 DU Matrix: Water Analysis Batch: 334746						Client Sample ID: MW-01 Prep Type: Total Recoverable Prep Batch: 334344 %Rec.					
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	Limit
Antimony	<0.0030			<0.0030		mg/L				NC	20
Arsenic	0.11			0.106		mg/L				5	20
Barium	0.017			0.0158		mg/L				7	20
Cadmium	<0.00050			<0.00050		mg/L				NC	20
Calcium	45			42.3		mg/L				6	20
Chromium	<0.0050			<0.0050		mg/L				NC	20
Cobalt	<0.0010			<0.0010		mg/L				NC	20
Lead	<0.00050			<0.00050		mg/L				NC	20
Molybdenum	0.069			0.0651		mg/L				6	20
Selenium	<0.0025			<0.0025		mg/L				NC	20
Thallium	<0.0020			<0.0020		mg/L				NC	20

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-111195-1

Lab Sample ID: 500-111195-1 DU
Matrix: Water
Analysis Batch: 336337

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 334344
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Beryllium	<0.0010		<0.0010		mg/L		NC	20

Lab Sample ID: 500-111195-1 DU
Matrix: Water
Analysis Batch: 336629

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 334344
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Boron	2.0		1.88		mg/L		8	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-334611/12-A
Matrix: Water
Analysis Batch: 334804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/09/16 17:15	05/10/16 11:17	1

Lab Sample ID: LCS 500-334611/13-A
Matrix: Water
Analysis Batch: 334804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334611
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00202		mg/L		101	80 - 120

Lab Sample ID: 500-111195-2 MS
Matrix: Water
Analysis Batch: 334804

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 334611
%Rec. Limits

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000927		mg/L		93	75 - 125

Lab Sample ID: 500-111195-2 MSD
Matrix: Water
Analysis Batch: 334804

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 334611
%Rec. RPD Limits

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000879		mg/L		88	75 - 125	5	20

Lab Sample ID: 500-111195-2 DU
Matrix: Water
Analysis Batch: 334804

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 334611
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

TestAmerica Chicago

MWG13-15_58727
5/25/2016

QC Sample Results

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

TestAmerica Job ID: 500-111195-1

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

Lab Sample ID: MB 500-334239/1
Matrix: Water
Analysis Batch: 334239

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			05/06/16 03:10	1

Lab Sample ID: LCS 500-334239/2
Matrix: Water
Analysis Batch: 334239

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	274		mg/L		110	80 - 120

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Lab Sample ID: MB 500-334240/1
Matrix: Water
Analysis Batch: 334240

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			05/06/16 04:30	1

Lab Sample ID: LCS 500-334240/2
Matrix: Water
Analysis Batch: 334240

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	296		mg/L		118	80 - 120

Lab Sample ID: 500-111195-4 DU
Matrix: Water
Analysis Batch: 334240

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	340		354		mg/L		4	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-335720/4
Matrix: Water
Analysis Batch: 335720

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/16/16 23:21	1

Lab Sample ID: LCS 500-335720/5
Matrix: Water
Analysis Batch: 335720

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	55.3		mg/L		111	80 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-111195-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 500-111195-8 MS Matrix: Water Analysis Batch: 335720							Client Sample ID: MW-16 Prep Type: Total/NA			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloride	150		50.0	193		mg/L		81	75 - 125	

Lab Sample ID: 500-111195-8 MSD Matrix: Water Analysis Batch: 335720							Client Sample ID: MW-16 Prep Type: Total/NA				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	150		50.0	205		mg/L		105	75 - 125	6	20

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Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-335515/3 Matrix: Water Analysis Batch: 335515							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			05/14/16 20:21	1	

Lab Sample ID: LCS 500-335515/4 Matrix: Water Analysis Batch: 335515							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	10.7		mg/L		107	80 - 120			

Lab Sample ID: 500-111195-9 MS Matrix: Water Analysis Batch: 335515							Client Sample ID: Duplicate Prep Type: Total/NA			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Fluoride	0.30		5.00	4.80		mg/L		90	75 - 125	

Lab Sample ID: 500-111195-9 MSD Matrix: Water Analysis Batch: 335515							Client Sample ID: Duplicate Prep Type: Total/NA				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.30		5.00	4.80		mg/L		90	75 - 125	0	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-335539/3 Matrix: Water Analysis Batch: 335539							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			05/16/16 00:06	1	

TestAmerica Chicago

MWG13-15_58729
5/25/2016

QC Sample Results

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

TestAmerica Job ID: 500-111195-1

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

Lab Sample ID: LCS 500-335539/4 Matrix: Water Analysis Batch: 335539				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	19.5		mg/L		97	80 - 120	

Lab Sample ID: 500-111195-7 MS Matrix: Water Analysis Batch: 335539				Client Sample ID: MW-14 Prep Type: Total/NA					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	190		400	559		mg/L		92	75 - 125

Lab Sample ID: 500-111195-7 MSD Matrix: Water Analysis Batch: 335539				Client Sample ID: MW-14 Prep Type: Total/NA							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	190		400	546		mg/L		88	75 - 125	2	20

9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chic

2417 Bond St.

University Park, IL

708-534-5200

Fax 708-534-5211 500-111195 COC



Report To:

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

Bill To:

Contact: Accounts Payable
 Company: NRG Energy
 Address: 112 Telly St
 New Roads, LA 70760
 Phone: 713 465-4113
 Email: invoices@nrq.com

Lab Lot # 500-111195
 Package Sealed: Yes No
 Samples Sealed: Yes No
 Received on Ice: Yes No
 Samples Intact: Yes No N/A

Temperature °C of Cooler: 24, 27, 31

Sampler Name:		Signature:		# / Cont.											
Ian John Howleson				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													
Laboratory ID	MS#MSD	Client Sample ID	Sampling Date Time			903.0, 904.0 Radium 226/228	601DC, 6020A, 7470A - Total Metals	2540C - TDS	4500_F_C - Fluoride	SM4500_CL_E Chloride	SM4500_SO4_E - Sulfate	Additional Analyses / Remarks			
1		MW-01	5-4-16	09:30	W	5	X	X	X	X	X				
2		MW-02	5-4-16	11:44	W	5	X	X	X	X	X				
3		MW-03	5-4-16	13:05	W	5	X	X	X	X	X				
4		MW-04	5-4-16	14:43	W	5	X	X	X	X	X				
5		MW-09	5-3-16	13:45	W	5	X	X	X	X	X				
6		MW-11	5-5-16	10:45	W	5	X	X	X	X	X				
7		MW-14	5-5-16	08:51	W	5	X	X	X	X	X				
8		MW-16	5-7-16	13:45	W	5	X	X	X	X	X				
9		Duplicates	5-4-16		W	5	X	X	X	X	X				
					W		X	X	X	X	X				

RELINQUISHED BY: [Signature] COMPANY: KPRG DATE: 5-5-16 TIME: 15:30
 RECEIVED BY: [Signature] COMPANY: TR-CHT DATE: 5/5/16 TIME: 1530

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. H₂SO₄, Cool to 4°
 3. HNO₃, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. Cool to 4°
 7. None

COMMENTS:

Date Received: 5/5/16
 Courier:
 Hand Delivered:
 Bill of Lading:

10

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-111195-1

Login Number: 111195

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	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	3.4,2.7,3.1
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 < 6 mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

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

TestAmerica Job ID: 500-111195-1

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

