

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-119293-1  
Client Project/Site: Will County CCR

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

Attn: Richard Gnat



Authorized for release by:  
11/9/2016 12:38:16 PM

Eric Lang, Manager of Project Management  
(708)534-5200  
eric.lang@testamericainc.com

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?

**?** Ask  
The  
Expert

Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

MWG13-15\_59193

COMP. EX. 238 L

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Method Summary . . . . .	4
Sample Summary . . . . .	5
Client Sample Results . . . . .	6
Definitions . . . . .	13
QC Association . . . . .	14
QC Sample Results . . . . .	17
Chain of Custody . . . . .	23
Receipt Checklists . . . . .	24
Certification Summary . . . . .	25

# Case Narrative

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

TestAmerica Job ID: 500-119293-1

**Job ID: 500-119293-1**

**Laboratory: TestAmerica Chicago**

**Narrative**

**Job Narrative**  
**500-119293-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 10/28/2016 11:08 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 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: Will County CCR

TestAmerica Job ID: 500-119293-1

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

#### Protocol References:

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

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

#### Laboratory References:

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

TestAmerica Chicago

# Sample Summary

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

TestAmerica Job ID: 500-119293-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-119293-1	MW-05 CCR	Water	10/26/16 16:44	10/28/16 11:08
500-119293-2	MW-06 CCR	Water	10/26/16 09:38	10/28/16 11:08
500-119293-3	MW-09 CCR	Water	10/26/16 14:50	10/28/16 11:08
500-119293-4	MW-10 CCR	Water	10/26/16 13:36	10/28/16 11:08
500-119293-5	MW-11 CCR	Water	10/26/16 15:20	10/28/16 11:08
500-119293-6	MW-12 CCR	Water	10/26/16 11:39	10/28/16 11:08
500-119293-7	DUPLICATE	Water	10/26/16 00:00	10/28/16 11:08

5

# Client Sample Results

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

TestAmerica Job ID: 500-119293-1

**Client Sample ID: MW-05 CCR**

Date Collected: 10/26/16 16:44

Date Received: 10/28/16 11:08

**Lab Sample ID: 500-119293-1**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		11/04/16 14:18	11/05/16 16:47	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		10/29/16 10:56	10/31/16 17:39	1
Arsenic	<b>0.0047</b>		0.0010		mg/L		10/29/16 10:56	10/31/16 17:39	1
Barium	<b>0.033</b>		0.0025		mg/L		10/29/16 10:56	10/31/16 17:39	1
Beryllium	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 17:39	1
Boron	<b>3.6</b>		0.50		mg/L		10/29/16 10:56	11/01/16 17:48	10
Cadmium	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 17:39	1
Calcium	<b>44</b>		0.20		mg/L		10/29/16 10:56	10/31/16 17:39	1
Chromium	<0.0050		0.0050		mg/L		10/29/16 10:56	10/31/16 17:39	1
Cobalt	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 17:39	1
Lead	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 17:39	1
Molybdenum	<b>0.12</b>		0.0050		mg/L		10/29/16 10:56	10/31/16 17:39	1
Selenium	<0.0025		0.0025		mg/L		10/29/16 10:56	10/31/16 17:39	1
Thallium	<0.0020		0.0020		mg/L		10/29/16 10:56	10/31/16 17:39	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 09:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<b>920</b>		10		mg/L			11/02/16 02:42	1
Chloride	<b>120</b>		10		mg/L			11/02/16 01:19	5
Fluoride	<b>0.70</b>		0.10		mg/L			11/05/16 15:33	1
Sulfate	<b>410</b>		100		mg/L			11/07/16 06:13	20

TestAmerica Chicago

# Client Sample Results

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

TestAmerica Job ID: 500-119293-1

**Client Sample ID: MW-06 CCR**

Date Collected: 10/26/16 09:38

Date Received: 10/28/16 11:08

**Lab Sample ID: 500-119293-2**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.013		0.010		mg/L		11/04/16 14:18	11/05/16 16:50	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		10/29/16 10:56	10/31/16 17:58	1
Arsenic	0.0030		0.0010		mg/L		10/29/16 10:56	10/31/16 17:58	1
Barium	0.074		0.0025		mg/L		10/29/16 10:56	10/31/16 17:58	1
Beryllium	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 17:58	1
Boron	3.8		0.50		mg/L		10/29/16 10:56	11/01/16 18:15	10
Cadmium	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 17:58	1
Calcium	86		0.20		mg/L		10/29/16 10:56	10/31/16 17:58	1
Chromium	<0.0050		0.0050		mg/L		10/29/16 10:56	10/31/16 17:58	1
Cobalt	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 17:58	1
Lead	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 17:58	1
Molybdenum	0.043		0.0050		mg/L		10/29/16 10:56	10/31/16 17:58	1
Selenium	<0.0025		0.0025		mg/L		10/29/16 10:56	10/31/16 17:58	1
Thallium	<0.0020		0.0020		mg/L		10/29/16 10:56	10/31/16 17:58	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 09:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	800		10		mg/L			11/02/16 02:47	1
Chloride	74		2.0		mg/L			11/02/16 00:44	1
Fluoride	0.40		0.10		mg/L			11/05/16 15:36	1
Sulfate	220		50		mg/L			11/07/16 06:14	10

6

# Client Sample Results

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

TestAmerica Job ID: 500-119293-1

**Client Sample ID: MW-09 CCR**

Date Collected: 10/26/16 14:50

Date Received: 10/28/16 11:08

**Lab Sample ID: 500-119293-3**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		11/04/16 14:18	11/05/16 16:54	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		10/29/16 10:56	10/31/16 18:02	1
Arsenic	0.0069		0.0010		mg/L		10/29/16 10:56	10/31/16 18:02	1
Barium	0.019		0.0025		mg/L		10/29/16 10:56	10/31/16 18:02	1
Beryllium	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 18:02	1
Boron	2.2		0.50		mg/L		10/29/16 10:56	11/01/16 18:18	10
Cadmium	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 18:02	1
Calcium	33		0.20		mg/L		10/29/16 10:56	10/31/16 18:02	1
Chromium	<0.0050		0.0050		mg/L		10/29/16 10:56	10/31/16 18:02	1
Cobalt	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 18:02	1
Lead	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 18:02	1
Molybdenum	0.11		0.0050		mg/L		10/29/16 10:56	10/31/16 18:02	1
Selenium	<0.0025		0.0025		mg/L		10/29/16 10:56	10/31/16 18:02	1
Thallium	<0.0020		0.0020		mg/L		10/29/16 10:56	10/31/16 18:02	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 09:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	660		10		mg/L			11/02/16 02:51	1
Chloride	130		10		mg/L			11/02/16 01:19	5
Fluoride	0.81		0.10		mg/L			11/05/16 15:40	1
Sulfate	230		50		mg/L			11/07/16 06:17	10

6



# Client Sample Results

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

TestAmerica Job ID: 500-119293-1

**Client Sample ID: MW-10 CCR**

Date Collected: 10/26/16 13:36

Date Received: 10/28/16 11:08

**Lab Sample ID: 500-119293-4**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.021		0.010		mg/L		11/04/16 14:18	11/05/16 16:58	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		10/29/16 10:56	10/31/16 18:06	1
Arsenic	0.022		0.0010		mg/L		10/29/16 10:56	10/31/16 18:06	1
Barium	0.11		0.0025		mg/L		10/29/16 10:56	10/31/16 18:06	1
Beryllium	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 18:06	1
Boron	3.0		0.50		mg/L		10/29/16 10:56	11/01/16 18:22	10
Cadmium	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 18:06	1
Calcium	160		0.20		mg/L		10/29/16 10:56	10/31/16 18:06	1
Chromium	<0.0050		0.0050		mg/L		10/29/16 10:56	10/31/16 18:06	1
Cobalt	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 18:06	1
Lead	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 18:06	1
Molybdenum	0.030		0.0050		mg/L		10/29/16 10:56	10/31/16 18:06	1
Selenium	<0.0025		0.0025		mg/L		10/29/16 10:56	10/31/16 18:06	1
Thallium	<0.0020		0.0020		mg/L		10/29/16 10:56	10/31/16 18:06	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 09:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			11/02/16 23:25	1
Chloride	74		10		mg/L			11/02/16 01:20	5
Fluoride	0.52		0.10		mg/L			11/05/16 15:42	1
Sulfate	220		50		mg/L			11/07/16 06:18	10

# Client Sample Results

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

TestAmerica Job ID: 500-119293-1

**Client Sample ID: MW-11 CCR**

Date Collected: 10/26/16 15:20

Date Received: 10/28/16 11:08

**Lab Sample ID: 500-119293-5**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		11/04/16 14:18	11/05/16 17:02	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		10/29/16 10:56	10/31/16 18:17	1
Arsenic	0.0082		0.0010		mg/L		10/29/16 10:56	10/31/16 18:17	1
Barium	0.096		0.0025		mg/L		10/29/16 10:56	10/31/16 18:17	1
Beryllium	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 18:17	1
Boron	2.5		0.50		mg/L		10/29/16 10:56	11/01/16 18:26	10
Cadmium	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 18:17	1
Calcium	110		0.20		mg/L		10/29/16 10:56	10/31/16 18:17	1
Chromium	<0.0050		0.0050		mg/L		10/29/16 10:56	10/31/16 18:17	1
Cobalt	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 18:17	1
Lead	0.00052		0.00050		mg/L		10/29/16 10:56	10/31/16 18:17	1
Molybdenum	0.043		0.0050		mg/L		10/29/16 10:56	10/31/16 18:17	1
Selenium	<0.0025		0.0025		mg/L		10/29/16 10:56	10/31/16 18:17	1
Thallium	<0.0020		0.0020		mg/L		10/29/16 10:56	10/31/16 18:17	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 09:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	630		10		mg/L			11/02/16 23:33	1
Chloride	67		2.0		mg/L			11/02/16 00:47	1
Fluoride	0.53		0.10		mg/L			11/05/16 15:45	1
Sulfate	120		50		mg/L			11/07/16 06:19	10

5  
**6**

# Client Sample Results

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

TestAmerica Job ID: 500-119293-1

**Client Sample ID: MW-12 CCR**

Date Collected: 10/26/16 11:39

Date Received: 10/28/16 11:08

**Lab Sample ID: 500-119293-6**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.013		0.010		mg/L		11/04/16 14:18	11/05/16 17:05	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		10/29/16 10:56	10/31/16 18:21	1
Arsenic	0.0016		0.0010		mg/L		10/29/16 10:56	10/31/16 18:21	1
Barium	0.11		0.0025		mg/L		10/29/16 10:56	10/31/16 18:21	1
Beryllium	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 18:21	1
Boron	2.6		0.50		mg/L		10/29/16 10:56	11/01/16 18:30	10
Cadmium	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 18:21	1
Calcium	140		0.20		mg/L		10/29/16 10:56	10/31/16 18:21	1
Chromium	0.025		0.0050		mg/L		10/29/16 10:56	10/31/16 18:21	1
Cobalt	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 18:21	1
Lead	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 18:21	1
Molybdenum	0.036		0.0050		mg/L		10/29/16 10:56	10/31/16 18:21	1
Selenium	<0.0025		0.0025		mg/L		10/29/16 10:56	10/31/16 18:21	1
Thallium	<0.0020		0.0020		mg/L		10/29/16 10:56	10/31/16 18:21	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 09:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	980		10		mg/L			11/02/16 23:38	1
Chloride	120		10		mg/L			11/02/16 01:20	5
Fluoride	0.49		0.10		mg/L			11/05/16 15:48	1
Sulfate	220		50		mg/L			11/07/16 06:20	10

6

TestAmerica Chicago

# Client Sample Results

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

TestAmerica Job ID: 500-119293-1

**Client Sample ID: DUPLICATE**

Date Collected: 10/26/16 00:00

Date Received: 10/28/16 11:08

**Lab Sample ID: 500-119293-7**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.012		0.010		mg/L		11/04/16 14:18	11/05/16 17:09	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		10/29/16 10:56	10/31/16 18:24	1
Arsenic	0.0016		0.0010		mg/L		10/29/16 10:56	10/31/16 18:24	1
Barium	0.11		0.0025		mg/L		10/29/16 10:56	10/31/16 18:24	1
Beryllium	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 18:24	1
Boron	2.5		0.50		mg/L		10/29/16 10:56	11/01/16 18:33	10
Cadmium	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 18:24	1
Calcium	140		0.20		mg/L		10/29/16 10:56	10/31/16 18:24	1
Chromium	0.031		0.0050		mg/L		10/29/16 10:56	10/31/16 18:24	1
Cobalt	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 18:24	1
Lead	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 18:24	1
Molybdenum	0.035		0.0050		mg/L		10/29/16 10:56	10/31/16 18:24	1
Selenium	<0.0025		0.0025		mg/L		10/29/16 10:56	10/31/16 18:24	1
Thallium	<0.0020		0.0020		mg/L		10/29/16 10:56	10/31/16 18:24	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 10:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		10		mg/L			11/02/16 23:42	1
Chloride	120		10		mg/L			11/02/16 01:21	5
Fluoride	0.54		0.10		mg/L			11/05/16 16:01	1
Sulfate	210		50		mg/L			11/07/16 06:23	10

6

## Definitions/Glossary

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

TestAmerica Job ID: 500-119293-1

### 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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)

7

# QC Association Summary

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

TestAmerica Job ID: 500-119293-1

## Metals

### Prep Batch: 358414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total Recoverable	Water	3005A	
500-119293-2	MW-06 CCR	Total Recoverable	Water	3005A	
500-119293-3	MW-09 CCR	Total Recoverable	Water	3005A	
500-119293-4	MW-10 CCR	Total Recoverable	Water	3005A	
500-119293-5	MW-11 CCR	Total Recoverable	Water	3005A	
500-119293-6	MW-12 CCR	Total Recoverable	Water	3005A	
500-119293-7	DUPLICATE	Total Recoverable	Water	3005A	
MB 500-358414/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-358414/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-119293-1 MS	MW-05 CCR	Total Recoverable	Water	3005A	
500-119293-1 MSD	MW-05 CCR	Total Recoverable	Water	3005A	
500-119293-1 DU	MW-05 CCR	Total Recoverable	Water	3005A	

### Prep Batch: 358597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total/NA	Water	7470A	
500-119293-2	MW-06 CCR	Total/NA	Water	7470A	
500-119293-3	MW-09 CCR	Total/NA	Water	7470A	
500-119293-4	MW-10 CCR	Total/NA	Water	7470A	
500-119293-5	MW-11 CCR	Total/NA	Water	7470A	
500-119293-6	MW-12 CCR	Total/NA	Water	7470A	
500-119293-7	DUPLICATE	Total/NA	Water	7470A	
MB 500-358597/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-358597/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 358729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total Recoverable	Water	6020A	358414
500-119293-2	MW-06 CCR	Total Recoverable	Water	6020A	358414
500-119293-3	MW-09 CCR	Total Recoverable	Water	6020A	358414
500-119293-4	MW-10 CCR	Total Recoverable	Water	6020A	358414
500-119293-5	MW-11 CCR	Total Recoverable	Water	6020A	358414
500-119293-6	MW-12 CCR	Total Recoverable	Water	6020A	358414
500-119293-7	DUPLICATE	Total Recoverable	Water	6020A	358414
MB 500-358414/1-A	Method Blank	Total Recoverable	Water	6020A	358414
LCS 500-358414/2-A	Lab Control Sample	Total Recoverable	Water	6020A	358414
500-119293-1 MS	MW-05 CCR	Total Recoverable	Water	6020A	358414
500-119293-1 MSD	MW-05 CCR	Total Recoverable	Water	6020A	358414
500-119293-1 DU	MW-05 CCR	Total Recoverable	Water	6020A	358414

### Analysis Batch: 358757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total/NA	Water	7470A	358597
500-119293-2	MW-06 CCR	Total/NA	Water	7470A	358597
500-119293-3	MW-09 CCR	Total/NA	Water	7470A	358597
500-119293-4	MW-10 CCR	Total/NA	Water	7470A	358597
500-119293-5	MW-11 CCR	Total/NA	Water	7470A	358597
500-119293-6	MW-12 CCR	Total/NA	Water	7470A	358597
500-119293-7	DUPLICATE	Total/NA	Water	7470A	358597
MB 500-358597/12-A	Method Blank	Total/NA	Water	7470A	358597
LCS 500-358597/13-A	Lab Control Sample	Total/NA	Water	7470A	358597

TestAmerica Chicago

# QC Association Summary

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

TestAmerica Job ID: 500-119293-1

## Analysis Batch: 358885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total Recoverable	Water	6020A	358414
500-119293-2	MW-06 CCR	Total Recoverable	Water	6020A	358414
500-119293-3	MW-09 CCR	Total Recoverable	Water	6020A	358414
500-119293-4	MW-10 CCR	Total Recoverable	Water	6020A	358414
500-119293-5	MW-11 CCR	Total Recoverable	Water	6020A	358414
500-119293-6	MW-12 CCR	Total Recoverable	Water	6020A	358414
500-119293-7	DUPLICATE	Total Recoverable	Water	6020A	358414
MB 500-358414/1-A	Method Blank	Total Recoverable	Water	6020A	358414
LCS 500-358414/2-A	Lab Control Sample	Total Recoverable	Water	6020A	358414
500-119293-1 MS	MW-05 CCR	Total Recoverable	Water	6020A	358414
500-119293-1 MSD	MW-05 CCR	Total Recoverable	Water	6020A	358414
500-119293-1 DU	MW-05 CCR	Total Recoverable	Water	6020A	358414

## Prep Batch: 359395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total Recoverable	Water	3005A	
500-119293-2	MW-06 CCR	Total Recoverable	Water	3005A	
500-119293-3	MW-09 CCR	Total Recoverable	Water	3005A	
500-119293-4	MW-10 CCR	Total Recoverable	Water	3005A	
500-119293-5	MW-11 CCR	Total Recoverable	Water	3005A	
500-119293-6	MW-12 CCR	Total Recoverable	Water	3005A	
500-119293-7	DUPLICATE	Total Recoverable	Water	3005A	
MB 500-359395/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-359395/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-119293-7 MS	DUPLICATE	Total Recoverable	Water	3005A	
500-119293-7 MSD	DUPLICATE	Total Recoverable	Water	3005A	
500-119293-7 DU	DUPLICATE	Total Recoverable	Water	3005A	

## Analysis Batch: 359483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total Recoverable	Water	6010C	359395
500-119293-2	MW-06 CCR	Total Recoverable	Water	6010C	359395
500-119293-3	MW-09 CCR	Total Recoverable	Water	6010C	359395
500-119293-4	MW-10 CCR	Total Recoverable	Water	6010C	359395
500-119293-5	MW-11 CCR	Total Recoverable	Water	6010C	359395
500-119293-6	MW-12 CCR	Total Recoverable	Water	6010C	359395
500-119293-7	DUPLICATE	Total Recoverable	Water	6010C	359395
MB 500-359395/1-A	Method Blank	Total Recoverable	Water	6010C	359395
LCS 500-359395/2-A	Lab Control Sample	Total Recoverable	Water	6010C	359395
500-119293-7 MS	DUPLICATE	Total Recoverable	Water	6010C	359395
500-119293-7 MSD	DUPLICATE	Total Recoverable	Water	6010C	359395
500-119293-7 DU	DUPLICATE	Total Recoverable	Water	6010C	359395

## General Chemistry

### Analysis Batch: 358861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total/NA	Water	SM 2540C	
500-119293-2	MW-06 CCR	Total/NA	Water	SM 2540C	
500-119293-3	MW-09 CCR	Total/NA	Water	SM 2540C	
MB 500-358861/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-358861/2	Lab Control Sample	Total/NA	Water	SM 2540C	

TestAmerica Chicago

# QC Association Summary

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

TestAmerica Job ID: 500-119293-1

## General Chemistry (Continued)

### Analysis Batch: 358864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-4	MW-10 CCR	Total/NA	Water	SM 2540C	
500-119293-5	MW-11 CCR	Total/NA	Water	SM 2540C	
500-119293-6	MW-12 CCR	Total/NA	Water	SM 2540C	
500-119293-7	DUPLICATE	Total/NA	Water	SM 2540C	
MB 500-358864/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-358864/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-119293-4 DU	MW-10 CCR	Total/NA	Water	SM 2540C	

### Analysis Batch: 359178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total/NA	Water	SM 4500 CI- E	
500-119293-2	MW-06 CCR	Total/NA	Water	SM 4500 CI- E	
500-119293-3	MW-09 CCR	Total/NA	Water	SM 4500 CI- E	
500-119293-4	MW-10 CCR	Total/NA	Water	SM 4500 CI- E	
500-119293-5	MW-11 CCR	Total/NA	Water	SM 4500 CI- E	
500-119293-6	MW-12 CCR	Total/NA	Water	SM 4500 CI- E	
500-119293-7	DUPLICATE	Total/NA	Water	SM 4500 CI- E	
MB 500-359178/4	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-359178/5	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 359576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total/NA	Water	SM 4500 SO4 E	
500-119293-2	MW-06 CCR	Total/NA	Water	SM 4500 SO4 E	
500-119293-3	MW-09 CCR	Total/NA	Water	SM 4500 SO4 E	
500-119293-4	MW-10 CCR	Total/NA	Water	SM 4500 SO4 E	
500-119293-5	MW-11 CCR	Total/NA	Water	SM 4500 SO4 E	
500-119293-6	MW-12 CCR	Total/NA	Water	SM 4500 SO4 E	
500-119293-7	DUPLICATE	Total/NA	Water	SM 4500 SO4 E	
MB 500-359576/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-359576/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-119293-2 MS	MW-06 CCR	Total/NA	Water	SM 4500 SO4 E	
500-119293-2 MSD	MW-06 CCR	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 359614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119293-1	MW-05 CCR	Total/NA	Water	SM 4500 F C	
500-119293-2	MW-06 CCR	Total/NA	Water	SM 4500 F C	
500-119293-3	MW-09 CCR	Total/NA	Water	SM 4500 F C	
500-119293-4	MW-10 CCR	Total/NA	Water	SM 4500 F C	
500-119293-5	MW-11 CCR	Total/NA	Water	SM 4500 F C	
500-119293-6	MW-12 CCR	Total/NA	Water	SM 4500 F C	
500-119293-7	DUPLICATE	Total/NA	Water	SM 4500 F C	
MB 500-359614/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-359614/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

TestAmerica Chicago



# QC Sample Results

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

TestAmerica Job ID: 500-119293-1

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-359395/1-A  
Matrix: Water  
Analysis Batch: 359483

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 359395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		11/04/16 14:18	11/05/16 16:39	1

Lab Sample ID: LCS 500-359395/2-A  
Matrix: Water  
Analysis Batch: 359483

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 359395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lithium	0.500	0.500		mg/L		100	80 - 120

Lab Sample ID: 500-119293-7 MS  
Matrix: Water  
Analysis Batch: 359483

Client Sample ID: DUPLICATE  
Prep Type: Total Recoverable  
Prep Batch: 359395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lithium	0.012		0.500	0.516		mg/L		101	75 - 125

Lab Sample ID: 500-119293-7 MSD  
Matrix: Water  
Analysis Batch: 359483

Client Sample ID: DUPLICATE  
Prep Type: Total Recoverable  
Prep Batch: 359395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Lithium	0.012		0.500	0.516		mg/L		101	75 - 125	0	20

Lab Sample ID: 500-119293-7 DU  
Matrix: Water  
Analysis Batch: 359483

Client Sample ID: DUPLICATE  
Prep Type: Total Recoverable  
Prep Batch: 359395

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lithium	0.012		0.0110		mg/L		6	20

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

Lab Sample ID: MB 500-358414/1-A  
Matrix: Water  
Analysis Batch: 358729

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 358414

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		10/29/16 10:56	10/31/16 17:32	1
Arsenic	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 17:32	1
Barium	<0.0025		0.0025		mg/L		10/29/16 10:56	10/31/16 17:32	1
Beryllium	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 17:32	1
Cadmium	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 17:32	1
Calcium	<0.20		0.20		mg/L		10/29/16 10:56	10/31/16 17:32	1
Chromium	<0.0050		0.0050		mg/L		10/29/16 10:56	10/31/16 17:32	1
Cobalt	<0.0010		0.0010		mg/L		10/29/16 10:56	10/31/16 17:32	1
Lead	<0.00050		0.00050		mg/L		10/29/16 10:56	10/31/16 17:32	1
Molybdenum	<0.0050		0.0050		mg/L		10/29/16 10:56	10/31/16 17:32	1
Selenium	<0.0025		0.0025		mg/L		10/29/16 10:56	10/31/16 17:32	1
Thallium	<0.0020		0.0020		mg/L		10/29/16 10:56	10/31/16 17:32	1

TestAmerica Chicago

# QC Sample Results

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

TestAmerica Job ID: 500-119293-1

Lab Sample ID: MB 500-358414/1-A  
Matrix: Water  
Analysis Batch: 358885

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 358414

Analyte	MB MB Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050	0.050		mg/L		10/29/16 10:56	11/01/16 17:41	1

Lab Sample ID: LCS 500-358414/2-A  
Matrix: Water  
Analysis Batch: 358729

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 358414

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.476		mg/L		95	80 - 120
Arsenic	0.100	0.0927		mg/L		93	80 - 120
Barium	0.500	0.484		mg/L		97	80 - 120
Beryllium	0.0500	0.0460		mg/L		92	80 - 120
Cadmium	0.0500	0.0479		mg/L		96	80 - 120
Calcium	10.0	11.2		mg/L		112	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.497		mg/L		99	80 - 120
Lead	0.100	0.0978		mg/L		98	80 - 120
Molybdenum	1.00	0.951		mg/L		95	80 - 120
Selenium	0.100	0.0937		mg/L		94	80 - 120
Thallium	0.100	0.0966		mg/L		97	80 - 120

Lab Sample ID: LCS 500-358414/2-A  
Matrix: Water  
Analysis Batch: 358885

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 358414

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.00	0.991		mg/L		99	80 - 120

Lab Sample ID: 500-119293-1 MS  
Matrix: Water  
Analysis Batch: 358729

Client Sample ID: MW-05 CCR  
Prep Type: Total Recoverable  
Prep Batch: 358414

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0030		0.500	0.486		mg/L		97	75 - 125
Arsenic	0.0047		0.100	0.100		mg/L		96	75 - 125
Barium	0.033		0.500	0.495		mg/L		92	75 - 125
Beryllium	<0.0010		0.0500	0.0444		mg/L		89	75 - 125
Cadmium	<0.00050		0.0500	0.0472		mg/L		94	75 - 125
Calcium	44		10.0	56.1	4	mg/L		118	75 - 125
Chromium	<0.0050		0.200	0.186		mg/L		93	75 - 125
Cobalt	<0.0010		0.500	0.477		mg/L		95	75 - 125
Lead	<0.00050		0.100	0.0916		mg/L		91	75 - 125
Molybdenum	0.12		1.00	1.03		mg/L		91	75 - 125
Selenium	<0.0025		0.100	0.0967		mg/L		95	75 - 125
Thallium	<0.0020		0.100	0.0894		mg/L		89	75 - 125

Lab Sample ID: 500-119293-1 MS  
Matrix: Water  
Analysis Batch: 358885

Client Sample ID: MW-05 CCR  
Prep Type: Total Recoverable  
Prep Batch: 358414

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Boron	3.6		1.00	4.44		mg/L		84	75 - 125

TestAmerica Chicago

# QC Sample Results

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

TestAmerica Job ID: 500-119293-1

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

Lab Sample ID: 500-119293-1 MSD  
Matrix: Water  
Analysis Batch: 358729

Client Sample ID: MW-05 CCR  
Prep Type: Total Recoverable

Prep Batch: 358414  
%Rec. RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.491		mg/L		98	75 - 125	1	20
Arsenic	0.0047		0.100	0.102		mg/L		97	75 - 125	1	20
Barium	0.033		0.500	0.509		mg/L		95	75 - 125	3	20
Beryllium	<0.0010		0.0500	0.0439		mg/L		88	75 - 125	1	20
Cadmium	<0.00050		0.0500	0.0482		mg/L		96	75 - 125	2	20
Calcium	44		10.0	56.6	4	mg/L		123	75 - 125	1	20
Chromium	<0.0050		0.200	0.191		mg/L		95	75 - 125	3	20
Cobalt	<0.0010		0.500	0.487		mg/L		97	75 - 125	2	20
Lead	<0.00050		0.100	0.0934		mg/L		93	75 - 125	2	20
Molybdenum	0.12		1.00	1.06		mg/L		94	75 - 125	3	20
Selenium	<0.0025		0.100	0.0991		mg/L		98	75 - 125	2	20
Thallium	<0.0020		0.100	0.0915		mg/L		91	75 - 125	2	20

Lab Sample ID: 500-119293-1 MSD  
Matrix: Water  
Analysis Batch: 358885

Client Sample ID: MW-05 CCR  
Prep Type: Total Recoverable

Prep Batch: 358414  
%Rec. RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	3.6		1.00	4.61		mg/L		101	75 - 125	4	20

Lab Sample ID: 500-119293-1 DU  
Matrix: Water  
Analysis Batch: 358729

Client Sample ID: MW-05 CCR  
Prep Type: Total Recoverable

Prep Batch: 358414  
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0047		0.00491		mg/L		5	20
Barium	0.033		0.0334		mg/L		2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	44		46.2		mg/L		4	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	0.12		0.123		mg/L		2	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-119293-1 DU  
Matrix: Water  
Analysis Batch: 358885

Client Sample ID: MW-05 CCR  
Prep Type: Total Recoverable

Prep Batch: 358414  
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Boron	3.6		3.64		mg/L		1	20

TestAmerica Chicago

# QC Sample Results

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

TestAmerica Job ID: 500-119293-1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-358597/12-A  
Matrix: Water  
Analysis Batch: 358757

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 358597

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 09:25	1

Lab Sample ID: LCS 500-358597/13-A  
Matrix: Water  
Analysis Batch: 358757

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 358597

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00184		mg/L		92	80 - 120

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

Lab Sample ID: MB 500-358861/1  
Matrix: Water  
Analysis Batch: 358861

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			11/02/16 01:10	1

Lab Sample ID: LCS 500-358861/2  
Matrix: Water  
Analysis Batch: 358861

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	256		mg/L		102	80 - 120

Lab Sample ID: MB 500-358864/1  
Matrix: Water  
Analysis Batch: 358864

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			11/02/16 23:17	1

Lab Sample ID: LCS 500-358864/2  
Matrix: Water  
Analysis Batch: 358864

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	240		mg/L		96	80 - 120

Lab Sample ID: 500-119293-4 DU  
Matrix: Water  
Analysis Batch: 358864

Client Sample ID: MW-10 CCR  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1010		mg/L		1	5

TestAmerica Chicago

# QC Sample Results

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

TestAmerica Job ID: 500-119293-1

## Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-359178/4  
Matrix: Water  
Analysis Batch: 359178

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			11/02/16 00:41	1

Lab Sample ID: LCS 500-359178/5  
Matrix: Water  
Analysis Batch: 359178

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	50.7		mg/L		101	80 - 120

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-359614/3  
Matrix: Water  
Analysis Batch: 359614

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			11/05/16 14:45	1

Lab Sample ID: LCS 500-359614/4  
Matrix: Water  
Analysis Batch: 359614

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	10.4		mg/L		104	80 - 120

## Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-359576/3  
Matrix: Water  
Analysis Batch: 359576

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			11/07/16 06:11	1

Lab Sample ID: LCS 500-359576/4  
Matrix: Water  
Analysis Batch: 359576

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	20.7		mg/L		104	80 - 120

Lab Sample ID: 500-119293-2 MS  
Matrix: Water  
Analysis Batch: 359576

Client Sample ID: MW-06 CCR  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	220		400	613		mg/L		99	75 - 125

TestAmerica Chicago

5  
9

# QC Sample Results

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

TestAmerica Job ID: 500-119293-1

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

Lab Sample ID: 500-119293-2 MSD  
 Matrix: Water  
 Analysis Batch: 359576

Client Sample ID: MW-06 CCR  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	220		400	631		mg/L		103	75 - 125	3	20

5  
 6  
 7  
 8  
 9

9

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
 TestAmerica Chicago  
 2417 Bond St.  
 University Park, IL 60  
 708-534-5200  
 Fax: 708-534-5211 500-119293 COC



**Report To:**

Contact: Richard Gnat  
 Company: KPRG and Associates, Inc  
 Address: 14666 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@nrg.com  
 PO #: 4501569118

Lab Lot # 500-119293  
 Package Sealed Yes  No   
 Samples Sealed Yes  No   
 Received on Ice Yes  No   
 Samples Intact Yes  No  N/A   
 Temperature °C of Cooler 3.2, 2.8

Sampler Name: Ian John Howleson		Signature:		# / Cont.												Within Hold Time Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Preserv. Indicated Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Project Name: Quarterly Will County: CCR		TestAmerica Project Number: 50011609		Preserv.												pH Check OK Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Res CL <sub>2</sub> Check OK Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	
Project Location: Romeoville, IL		TAT 15 Days		Matrix	Comp/Grab											Sample Labels and COC Agree Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		COC not present	
Lab PM: Eric Lang																			
Laboratory ID	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			Total # Containers	Additional Analyses / Remarks				
1	MW-05 CCR	10-26-16	16:44	W	G	X	X	X	X	X	X			5					
2	MW-06 CCR	10-26-16	09:38	W	G	X	X	X	X	X	X			5					
3	MW-09 CCR	10-25-16	14:50	W	G	X	X	X	X	X	X			5					
4	MW-10 CCR	10-26-16	13:36	W	G	X	X	X	X	X	X			5					
5	MW-11 CCR	10-26-16	15:20	W	G	X	X	X	X	X	X			5					
6	MW-12 CCR	10-26-16	11:39	W	G	X	X	X	X	X	X			5					
7	DUPLICATE	10-26-16	—	W	G	X	X	X	X	X	X			5					

RELINQUISHED BY: <i>[Signature]</i>	COMPANY: KPRG	DATE: 10-28-16	TIME: 11:08	RECEIVED BY: <i>[Signature]</i>	COMPANY: KPRG	DATE: 10-28-16	TIME: 11:08
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

<b>Matrix-Key</b> WW = Wastewater W = Water S = Soil SL = Sludge MS = Miscellaneous OL = Oil A = Air SE = Sediment SO = Solid DL = Drum Liquid DS = Drum Solid L = Leachate W = Wipe O =	<b>Container-Key</b> 1. Plastic 2. VOA Vial 3. Sterile Plastic 4. Amber Glass 5. Widemouth Glass 6. Other	<b>Preservative-Key</b> 1. HCl, Cool to 4° 2. H <sub>2</sub> SO <sub>4</sub> , Cool to 4° 3. HNO <sub>3</sub> , Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. Cool to 4° 7. None	<b>COMMENTS:</b>	<b>Date</b> Received <u>10/28/16</u> <b>Courier:</b> <b>Hand Delivered</b> <input checked="" type="checkbox"/> <b>Bill of Lading:</b>
--	---	--	------------------	---

10

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-119293-1

Login Number: 119293

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	3.2,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: Will County CCR

TestAmerica Job ID: 500-119293-1

## 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

