

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

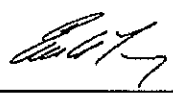
ANALYTICAL REPORT

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

TestAmerica Job ID: 500-121081-1
Client Project/Site: Waukegan Station CCA

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

Attn: Richard Gnat



Authorized for release by:
12/21/2016 5:01:50 PM

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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 Station CCA

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Job ID: 500-121081-1

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Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-121081-1

Comments

No additional comments.

Receipt

The samples were received on 12/7/2016 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.3° C, 2.7° C, 2.8° C, 3.2° C and 5.8° C.

GC/MS VOA

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

Metals

Method(s) 6020A: The low level continuing calibration verification (CCVL), at line 39, associated with batch 500-365026 recovered above the upper control limit for Beryllium and Copper. The samples associated with this CCV (LCS 500-364743/2-A) and (MB 500-364743/1-A). The MB and LCS were within control limits for these analytes and therefore reported.

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

Field Service / Mobile Lab

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.

Detection Summary

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

TestAmerica Job ID: 500-121081-1

Client Sample ID: ELUC MW-10

Lab Sample ID: 500-121081-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.42		0.0010		mg/L	1		6020A	Dissolved
Barium	0.066		0.0025		mg/L	1		6020A	Dissolved
Boron	1.0		0.25		mg/L	5		6020A	Dissolved
Iron	4.7		0.10		mg/L	1		6020A	Dissolved
Manganese	0.14		0.0025		mg/L	1		6020A	Dissolved
Sulfate	120		25		mg/L	5		9038	Dissolved
Chloride	140		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	890		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.15		0.10		mg/L	1		SM 4500 F C	Dissolved

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Client Sample ID: ELUC MW-12

Lab Sample ID: 500-121081-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0010		0.0010		mg/L	1		6020A	Dissolved
Barium	0.085		0.0025		mg/L	1		6020A	Dissolved
Boron	2.0		0.50		mg/L	10		6020A	Dissolved
Cadmium	0.00070		0.00050		mg/L	1		6020A	Dissolved
Cobalt	0.0034		0.0010		mg/L	1		6020A	Dissolved
Iron	1.6		0.10		mg/L	1		6020A	Dissolved
Manganese	0.22		0.0025		mg/L	1		6020A	Dissolved
Nickel	0.0096		0.0020		mg/L	1		6020A	Dissolved
Selenium	0.0035		0.0025		mg/L	1		6020A	Dissolved
Zinc	0.081		0.020		mg/L	1		6020A	Dissolved
Sulfate	100		25		mg/L	5		9038	Dissolved
Chloride	220		10		mg/L	5		9251	Dissolved
Nitrogen, Nitrate	1.4		0.10		mg/L	1		Nitrate by calc	Dissolved
Total Dissolved Solids	830		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.11		0.10		mg/L	1		SM 4500 F C	Dissolved
Nitrogen, Nitrate Nitrite	1.4		0.10		mg/L	1		SM 4500 NO3 F	Dissolved

Client Sample ID: ELUC MW-15

Lab Sample ID: 500-121081-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0098		0.0010		mg/L	1		6020A	Dissolved
Barium	0.086		0.0025		mg/L	1		6020A	Dissolved
Boron	2.6		0.50		mg/L	10		6020A	Dissolved
Cobalt	0.0012		0.0010		mg/L	1		6020A	Dissolved
Iron	11		0.10		mg/L	1		6020A	Dissolved
Manganese	0.43		0.0025		mg/L	1		6020A	Dissolved
Sulfate	200		50		mg/L	10		9038	Dissolved
Chloride	88		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	890		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.25		0.10		mg/L	1		SM 4500 F C	Dissolved

Client Sample ID: ELUC MW-11

Lab Sample ID: 500-121081-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.87		0.0010		mg/L	1		6020A	Dissolved
Barium	0.049		0.0025		mg/L	1		6020A	Dissolved
Boron	3.0		0.50		mg/L	10		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

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Detection Summary

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

TestAmerica Job ID: 500-121081-1

Client Sample ID: ELUC MW-11 (Continued)

Lab Sample ID: 500-121081-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3.4		0.10		mg/L	1		6020A	Dissolved
Manganese	0.26		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.0046		0.0025		mg/L	1		6020A	Dissolved
Sulfate	130		25		mg/L	5		9038	Dissolved
Chloride	250		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.13		0.10		mg/L	1		SM 4500 F C	Dissolved

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Client Sample ID: ELUC MW-14

Lab Sample ID: 500-121081-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.13		0.0010		mg/L	1		6020A	Dissolved
Barium	0.050		0.0025		mg/L	1		6020A	Dissolved
Boron	0.94		0.25		mg/L	5		6020A	Dissolved
Chromium	0.0060		0.0050		mg/L	1		6020A	Dissolved
Iron	0.92		0.10		mg/L	1		6020A	Dissolved
Manganese	0.11		0.0025		mg/L	1		6020A	Dissolved
Sulfate	100		50		mg/L	10		9038	Dissolved
Chloride	300		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.23		0.10		mg/L	1		SM 4500 F C	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

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

TestAmerica Job ID: 500-121081-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
314.0	Perchlorate (IC)	EPA	TAL SAC
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9038	Sulfate, Turbidimetric	SW846	TAL CHI
9251	Chloride	SW846	TAL CHI
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 NO2 B	Nitrogen, Nitrite	SM	TAL CHI
SM 4500 NO3 F	Nitrogen, Nitrate	SM	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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TestAmerica Chicago

Sample Summary

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

TestAmerica Job ID: 500-121081-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121081-1	ELUC MW-10	Water	12/06/16 14:11	12/07/16 10:10
500-121081-2	ELUC MW-12	Water	12/06/16 13:05	12/07/16 10:10
500-121081-3	ELUC MW-15	Water	12/06/16 09:55	12/07/16 10:10
500-121081-4	ELUC MW-11	Water	12/07/16 15:01	12/08/16 15:15
500-121081-5	ELUC MW-14	Water	12/07/16 13:10	12/08/16 15:15

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Client Sample Results

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

TestAmerica Job ID: 500-121081-1

Client Sample ID: ELUC MW-10

Lab Sample ID: 500-121081-1

Date Collected: 12/06/16 14:11

Matrix: Water

Date Received: 12/07/16 10:10

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Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 15:02	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 15:02	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 15:02	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		71 - 127					12/13/16 15:02	1
Toluene-d8 (Surr)	91		75 - 120					12/13/16 15:02	1
4-Bromofluorobenzene (Surr)	88		71 - 120					12/13/16 15:02	1
Dibromofluoromethane	92		70 - 120					12/13/16 15:02	1

Method: 314.0 - Perchlorate (IC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 23:01	1

Method: 6020A - Metals (ICP/MS) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 17:37	1
Arsenic	0.42		0.0010		mg/L		12/12/16 17:19	12/13/16 17:37	1
Barium	0.066		0.0025		mg/L		12/12/16 17:19	12/13/16 17:37	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:37	1
Boron	1.0		0.25		mg/L		12/12/16 17:19	12/14/16 13:48	5
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:37	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:37	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:37	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:37	1
Iron	4.7		0.10		mg/L		12/12/16 17:19	12/13/16 17:37	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:37	1
Manganese	0.14		0.0025		mg/L		12/12/16 17:19	12/13/16 17:37	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:37	1
Selenium	<0.0025		0.0025		mg/L		12/12/16 17:19	12/15/16 13:39	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:37	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:37	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:37	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 17:37	1

Method: 7470A - Mercury (CVAA) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 09:55	1

General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:40	1
Sulfate	120		25		mg/L			12/15/16 07:20	5
Chloride	140		10		mg/L			12/08/16 22:58	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/15/16 20:39	1
Total Dissolved Solids	890		10		mg/L			12/09/16 04:02	1
Fluoride	0.15		0.10		mg/L			12/10/16 13:06	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/07/16 16:52	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/13/16 19:35	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-121081-1

Client Sample ID: ELUC MW-12

Lab Sample ID: 500-121081-2

Date Collected: 12/06/16 13:05

Matrix: Water

Date Received: 12/07/16 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 15:30	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 15:30	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 15:30	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 15:30	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		71 - 127		12/13/16 15:30	1
Toluene-d8 (Surr)	91		75 - 120		12/13/16 15:30	1
4-Bromofluorobenzene (Surr)	89		71 - 120		12/13/16 15:30	1
Dibromofluoromethane	93		70 - 120		12/13/16 15:30	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 23:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 17:40	1
Arsenic	0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:40	1
Barium	0.085		0.0025		mg/L		12/12/16 17:19	12/13/16 17:40	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:40	1
Boron	2.0		0.50		mg/L		12/12/16 17:19	12/14/16 13:52	10
Cadmium	0.00070		0.00050		mg/L		12/12/16 17:19	12/13/16 17:40	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:40	1
Cobalt	0.0034		0.0010		mg/L		12/12/16 17:19	12/13/16 17:40	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:40	1
Iron	1.6		0.10		mg/L		12/12/16 17:19	12/13/16 17:40	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:40	1
Manganese	0.22		0.0025		mg/L		12/12/16 17:19	12/13/16 17:40	1
Nickel	0.0096		0.0020		mg/L		12/12/16 17:19	12/13/16 17:40	1
Selenium	0.0035		0.0025		mg/L		12/12/16 17:19	12/15/16 13:43	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:40	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:40	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:40	1
Zinc	0.081		0.020		mg/L		12/12/16 17:19	12/13/16 17:40	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 09:57	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:40	1
Sulfate	100		25		mg/L			12/15/16 07:21	5
Chloride	220		10		mg/L			12/08/16 22:59	5
Nitrogen, Nitrate	1.4		0.10		mg/L			12/15/16 20:39	1
Total Dissolved Solids	830		10		mg/L			12/09/16 04:11	1
Fluoride	0.11		0.10		mg/L			12/10/16 13:09	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/07/16 16:53	1
Nitrogen, Nitrate Nitrite	1.4		0.10		mg/L			12/13/16 19:37	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-121081-1

Client Sample ID: ELUC MW-15

Lab Sample ID: 500-121081-3

Date Collected: 12/06/16 09:55

Matrix: Water

Date Received: 12/07/16 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 15:57	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 15:57	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 15:57	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		71 - 127					12/13/16 15:57	1
Toluene-d8 (Surr)	93		75 - 120					12/13/16 15:57	1
4-Bromofluorobenzene (Surr)	89		71 - 120					12/13/16 15:57	1
Dibromofluoromethane	91		70 - 120					12/13/16 15:57	1

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Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/20/16 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 17:44	1
Arsenic	0.0098		0.0010		mg/L		12/12/16 17:19	12/13/16 17:44	1
Barium	0.086		0.0025		mg/L		12/12/16 17:19	12/13/16 17:44	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:44	1
Boron	2.6		0.50		mg/L		12/12/16 17:19	12/14/16 14:03	10
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:44	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:44	1
Cobalt	0.0012		0.0010		mg/L		12/12/16 17:19	12/13/16 17:44	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:44	1
Iron	11		0.10		mg/L		12/12/16 17:19	12/13/16 17:44	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:44	1
Manganese	0.43		0.0025		mg/L		12/12/16 17:19	12/13/16 17:44	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:44	1
Selenium	<0.0025		0.0025		mg/L		12/12/16 17:19	12/15/16 13:47	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:44	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:44	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:44	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 17:44	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 09:58	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:40	1
Sulfate	200		50		mg/L			12/15/16 07:22	10
Chloride	88		10		mg/L			12/08/16 23:03	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/15/16 20:39	1
Total Dissolved Solids	890		10		mg/L			12/09/16 04:16	1
Fluoride	0.25		0.10		mg/L			12/10/16 13:11	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/07/16 16:54	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/13/16 19:39	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-121081-1

Client Sample ID: ELUC MW-11

Lab Sample ID: 500-121081-4

Date Collected: 12/07/16 15:01

Matrix: Water

Date Received: 12/08/16 15:15

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			12/13/16 16:24	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 16:24	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 16:24	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		71 - 127					12/13/16 16:24	1
Toluene-d8 (Surr)	92		75 - 120					12/13/16 16:24	1
4-Bromofluorobenzene (Surr)	88		71 - 120					12/13/16 16:24	1
Dibromofluoromethane	93		70 - 120					12/13/16 16:24	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			12/20/16 00:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 17:48	1
Arsenic	0.87		0.0010		mg/L		12/12/16 17:19	12/13/16 17:48	1
Barium	0.049		0.0025		mg/L		12/12/16 17:19	12/13/16 17:48	1
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:48	1
Boron	3.0		0.50		mg/L		12/12/16 17:19	12/14/16 14:07	10
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:48	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:48	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:48	1
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:48	1
Iron	3.4		0.10		mg/L		12/12/16 17:19	12/13/16 17:48	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:48	1
Manganese	0.26		0.0025		mg/L		12/12/16 17:19	12/13/16 17:48	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:48	1
Selenium	0.0046		0.0025		mg/L		12/12/16 17:19	12/15/16 13:51	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:48	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:48	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:48	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 17:48	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 10:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:41	1
Sulfate	130		25		mg/L			12/15/16 07:25	5
Chloride	250		10		mg/L			12/08/16 22:20	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/15/16 20:39	1
Total Dissolved Solids	1100		10		mg/L			12/09/16 04:20	1
Fluoride	0.13		0.10		mg/L			12/10/16 13:14	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/09/16 09:31	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/13/16 19:41	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-121081-1

Client Sample ID: ELUC MW-14

Lab Sample ID: 500-121081-5

Date Collected: 12/07/16 13:10

Matrix: Water

Date Received: 12/08/16 15:15

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Method: 8260B - Volatile Organic Compounds (GC/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00050		0.00050		mg/L			12/13/16 16:51	1	
Toluene	<0.00050		0.00050		mg/L			12/13/16 16:51	1	
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 16:51	1	
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 16:51	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	95		71 - 127					12/13/16 16:51	1	
Toluene-d8 (Surr)	91		75 - 120					12/13/16 16:51	1	
4-Bromofluorobenzene (Surr)	88		71 - 120					12/13/16 16:51	1	
Dibromofluoromethane	93		70 - 120					12/13/16 16:51	1	

Method: 314.0 - Perchlorate (IC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Perchlorate	<0.0040		0.0040		mg/L			12/20/16 00:58	1	

Method: 6020A - Metals (ICP/MS) - Dissolved										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Arsenic	0.13		0.0010		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Barium	0.050		0.0025		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Beryllium	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Boron	0.94		0.25		mg/L		12/12/16 17:19	12/14/16 14:11	5	
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Chromium	0.0060		0.0050		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Copper	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Iron	0.92		0.10		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Manganese	0.11		0.0025		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Selenium	<0.0025		0.0025		mg/L		12/12/16 17:19	12/15/16 13:54	1	
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 17:52	1	
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 17:52	1	

Method: 7470A - Mercury (CVAA) - Dissolved										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 10:01	1	

General Chemistry - Dissolved										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Cyanide, Total	<0.010		0.010		mg/L		12/13/16 10:10	12/13/16 16:41	1	
Sulfate	100		50		mg/L			12/16/16 08:11	10	
Chloride	300		10		mg/L			12/08/16 23:04	5	
Nitrogen, Nitrate	<0.10		0.10		mg/L			12/15/16 20:39	1	
Total Dissolved Solids	1100		10		mg/L			12/09/16 04:25	1	
Fluoride	0.23		0.10		mg/L			12/10/16 13:17	1	
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/09/16 09:31	1	
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			12/13/16 19:44	1	

TestAmerica Chicago

Definitions/Glossary

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

TestAmerica Job ID: 500-121081-1

Qualifiers

Metals

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

General Chemistry

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.
□	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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QC Association Summary

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

TestAmerica Job ID: 500-121081-1

GC/MS VOA

Analysis Batch: 364795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Total/NA	Water	8260B	
500-121081-2	ELUC MW-12	Total/NA	Water	8260B	
500-121081-3	ELUC MW-15	Total/NA	Water	8260B	
500-121081-4	ELUC MW-11	Total/NA	Water	8260B	
500-121081-5	ELUC MW-14	Total/NA	Water	8260B	
MB 500-364795/6	Method Blank	Total/NA	Water	8260B	
LCS 500-364795/4	Lab Control Sample	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 143193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Total/NA	Water	314.0	
500-121081-2	ELUC MW-12	Total/NA	Water	314.0	
500-121081-3	ELUC MW-15	Total/NA	Water	314.0	
500-121081-4	ELUC MW-11	Total/NA	Water	314.0	
500-121081-5	ELUC MW-14	Total/NA	Water	314.0	
MB 320-143193/5	Method Blank	Total/NA	Water	314.0	
LCS 320-143193/6	Lab Control Sample	Total/NA	Water	314.0	
MRL 320-143193/4	Lab Control Sample	Total/NA	Water	314.0	

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Metals

Prep Batch: 364391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	7470A	
500-121081-2	ELUC MW-12	Dissolved	Water	7470A	
500-121081-3	ELUC MW-15	Dissolved	Water	7470A	
500-121081-4	ELUC MW-11	Dissolved	Water	7470A	
500-121081-5	ELUC MW-14	Dissolved	Water	7470A	
MB 500-364391/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-364391/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 364705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	7470A	364391
500-121081-2	ELUC MW-12	Dissolved	Water	7470A	364391
500-121081-3	ELUC MW-15	Dissolved	Water	7470A	364391
500-121081-4	ELUC MW-11	Dissolved	Water	7470A	364391
500-121081-5	ELUC MW-14	Dissolved	Water	7470A	364391
MB 500-364391/12-A	Method Blank	Total/NA	Water	7470A	364391
LCS 500-364391/13-A	Lab Control Sample	Total/NA	Water	7470A	364391

Prep Batch: 364743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	Soluble Metals	
500-121081-2	ELUC MW-12	Dissolved	Water	Soluble Metals	
500-121081-3	ELUC MW-15	Dissolved	Water	Soluble Metals	
500-121081-4	ELUC MW-11	Dissolved	Water	Soluble Metals	
500-121081-5	ELUC MW-14	Dissolved	Water	Soluble Metals	

TestAmerica Chicago

QC Association Summary

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

TestAmerica Job ID: 500-121081-1

Metals (Continued)

Prep Batch: 364743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-364743/1-A	Method Blank	Soluble	Water	Soluble Metals	
LCS 500-364743/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	

Analysis Batch: 365026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	6020A	364743
500-121081-2	ELUC MW-12	Dissolved	Water	6020A	364743
500-121081-3	ELUC MW-15	Dissolved	Water	6020A	364743
500-121081-4	ELUC MW-11	Dissolved	Water	6020A	364743
500-121081-5	ELUC MW-14	Dissolved	Water	6020A	364743
MB 500-364743/1-A	Method Blank	Soluble	Water	6020A	364743
LCS 500-364743/2-A	Lab Control Sample	Soluble	Water	6020A	364743

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Analysis Batch: 365255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	6020A	364743
500-121081-2	ELUC MW-12	Dissolved	Water	6020A	364743
500-121081-3	ELUC MW-15	Dissolved	Water	6020A	364743
500-121081-4	ELUC MW-11	Dissolved	Water	6020A	364743
500-121081-5	ELUC MW-14	Dissolved	Water	6020A	364743
MB 500-364743/1-A	Method Blank	Soluble	Water	6020A	364743
LCS 500-364743/2-A	Lab Control Sample	Soluble	Water	6020A	364743

Analysis Batch: 365351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	6020A	364743
500-121081-2	ELUC MW-12	Dissolved	Water	6020A	364743
500-121081-3	ELUC MW-15	Dissolved	Water	6020A	364743
500-121081-4	ELUC MW-11	Dissolved	Water	6020A	364743
500-121081-5	ELUC MW-14	Dissolved	Water	6020A	364743
MB 500-364743/1-A	Method Blank	Soluble	Water	6020A	364743
LCS 500-364743/2-A	Lab Control Sample	Soluble	Water	6020A	364743

General Chemistry

Analysis Batch: 364274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	9251	
500-121081-2	ELUC MW-12	Dissolved	Water	9251	
500-121081-3	ELUC MW-15	Dissolved	Water	9251	
500-121081-4	ELUC MW-11	Dissolved	Water	9251	
500-121081-5	ELUC MW-14	Dissolved	Water	9251	
MB 500-364274/4	Method Blank	Total/NA	Water	9251	
LCS 500-364274/5	Lab Control Sample	Total/NA	Water	9251	
500-121081-2 MS	ELUC MW-12	Dissolved	Water	9251	
500-121081-2 MSD	ELUC MW-12	Dissolved	Water	9251	

Analysis Batch: 364294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	SM 2540C	

TestAmerica Chicago

QC Association Summary

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

TestAmerica Job ID: 500-121081-1

General Chemistry (Continued)

Analysis Batch: 364294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-2	ELUC MW-12	Dissolved	Water	SM 2540C	
500-121081-3	ELUC MW-15	Dissolved	Water	SM 2540C	
500-121081-4	ELUC MW-11	Dissolved	Water	SM 2540C	
500-121081-5	ELUC MW-14	Dissolved	Water	SM 2540C	
MB 500-364294/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-364294/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-121081-1 DU	ELUC MW-10	Dissolved	Water	SM 2540C	

Analysis Batch: 364535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	SM 4500 NO2 B	
500-121081-2	ELUC MW-12	Dissolved	Water	SM 4500 NO2 B	
500-121081-3	ELUC MW-15	Dissolved	Water	SM 4500 NO2 B	
MB 500-364535/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-364535/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
500-121081-2 MS	ELUC MW-12	Dissolved	Water	SM 4500 NO2 B	
500-121081-2 MSD	ELUC MW-12	Dissolved	Water	SM 4500 NO2 B	

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Analysis Batch: 364536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-4	ELUC MW-11	Dissolved	Water	SM 4500 NO2 B	
500-121081-5	ELUC MW-14	Dissolved	Water	SM 4500 NO2 B	
MB 500-364536/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-364536/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 364818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	SM 4500 F C	
500-121081-2	ELUC MW-12	Dissolved	Water	SM 4500 F C	
500-121081-3	ELUC MW-15	Dissolved	Water	SM 4500 F C	
500-121081-4	ELUC MW-11	Dissolved	Water	SM 4500 F C	
500-121081-5	ELUC MW-14	Dissolved	Water	SM 4500 F C	
MB 500-364818/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-364818/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Prep Batch: 364849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	9010B	
500-121081-2	ELUC MW-12	Dissolved	Water	9010B	
500-121081-3	ELUC MW-15	Dissolved	Water	9010B	
500-121081-4	ELUC MW-11	Dissolved	Water	9010B	
500-121081-5	ELUC MW-14	Dissolved	Water	9010B	
MB 500-364849/1-A	Method Blank	Total/NA	Water	9010B	
LCS 500-364849/2-A	Lab Control Sample	Total/NA	Water	9010B	

Analysis Batch: 365072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	9014	364849
500-121081-2	ELUC MW-12	Dissolved	Water	9014	364849
500-121081-3	ELUC MW-15	Dissolved	Water	9014	364849
500-121081-4	ELUC MW-11	Dissolved	Water	9014	364849

TestAmerica Chicago

QC Association Summary

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

TestAmerica Job ID: 500-121081-1

General Chemistry (Continued)

Analysis Batch: 365072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-5	ELUC MW-14	Dissolved	Water	9014	364849
MB 500-364849/1-A	Method Blank	Total/NA	Water	9014	364849
LCS 500-364849/2-A	Lab Control Sample	Total/NA	Water	9014	364849

Analysis Batch: 365209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	9038	
500-121081-2	ELUC MW-12	Dissolved	Water	9038	
500-121081-3	ELUC MW-15	Dissolved	Water	9038	
500-121081-4	ELUC MW-11	Dissolved	Water	9038	
MB 500-365209/3	Method Blank	Total/NA	Water	9038	
LCS 500-365209/4	Lab Control Sample	Total/NA	Water	9038	
500-121081-3 MS	ELUC MW-15	Dissolved	Water	9038	
500-121081-3 MSD	ELUC MW-15	Dissolved	Water	9038	

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Analysis Batch: 365346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	SM 4500 NO3 F	
500-121081-2	ELUC MW-12	Dissolved	Water	SM 4500 NO3 F	
500-121081-3	ELUC MW-15	Dissolved	Water	SM 4500 NO3 F	
500-121081-4	ELUC MW-11	Dissolved	Water	SM 4500 NO3 F	
500-121081-5	ELUC MW-14	Dissolved	Water	SM 4500 NO3 F	
MB 500-365346/12	Method Blank	Total/NA	Water	SM 4500 NO3 F	
LCS 500-365346/13	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	

Analysis Batch: 365379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-1	ELUC MW-10	Dissolved	Water	Nitrate by calc	
500-121081-2	ELUC MW-12	Dissolved	Water	Nitrate by calc	
500-121081-3	ELUC MW-15	Dissolved	Water	Nitrate by calc	
500-121081-4	ELUC MW-11	Dissolved	Water	Nitrate by calc	
500-121081-5	ELUC MW-14	Dissolved	Water	Nitrate by calc	

Analysis Batch: 365401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121081-5	ELUC MW-14	Dissolved	Water	9038	
MB 500-365401/3	Method Blank	Total/NA	Water	9038	
LCS 500-365401/4	Lab Control Sample	Total/NA	Water	9038	
500-121081-5 MS	ELUC MW-14	Dissolved	Water	9038	
500-121081-5 MSD	ELUC MW-14	Dissolved	Water	9038	

TestAmerica Chicago

Surrogate Summary

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

TestAmerica Job ID: 500-121081-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (71-127)	TOL (75-120)	BFB (71-120)	DBFM (70-120)
500-121081-1	ELUC MW-10	93	91	88	92
500-121081-2	ELUC MW-12	92	91	89	93
500-121081-3	ELUC MW-15	92	93	89	91
500-121081-4	ELUC MW-11	93	92	88	93
500-121081-5	ELUC MW-14	95	91	88	93
LCS 500-364795/4	Lab Control Sample	90	92	88	97
MB 500-364795/6	Method Blank	91	94	89	93

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-121081-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-364795/6
Matrix: Water
Analysis Batch: 364795

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00050		0.00050		mg/L			12/13/16 11:01	1
Toluene	<0.00050		0.00050		mg/L			12/13/16 11:01	1
Ethylbenzene	<0.00050		0.00050		mg/L			12/13/16 11:01	1
Xylenes, Total	<0.0010		0.0010		mg/L			12/13/16 11:01	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	91		71 - 127		12/13/16 11:01	1
Toluene-d8 (Surr)	94		75 - 120		12/13/16 11:01	1
4-Bromofluorobenzene (Surr)	89		71 - 120		12/13/16 11:01	1
Dibromofluoromethane	93		70 - 120		12/13/16 11:01	1

Lab Sample ID: LCS 500-364795/4
Matrix: Water
Analysis Batch: 364795

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.0469		mg/L		94	70 - 125
Toluene	0.0500	0.0464		mg/L		93	70 - 125
Ethylbenzene	0.0500	0.0457		mg/L		91	70 - 125
Xylenes, Total	0.100	0.0892		mg/L		89	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		71 - 127
Toluene-d8 (Surr)	92		75 - 120
4-Bromofluorobenzene (Surr)	88		71 - 120
Dibromofluoromethane	97		70 - 120

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-143193/5
Matrix: Water
Analysis Batch: 143193

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perchlorate	<0.0040		0.0040		mg/L			12/19/16 16:33	1

Lab Sample ID: LCS 320-143193/6
Matrix: Water
Analysis Batch: 143193

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Perchlorate	0.0500	0.0534		mg/L		107	85 - 115

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-121081-1

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 320-143193/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 143193							
Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	<4.0		ug/L		86	75 - 125

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-364743/1-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Soluble					
Analysis Batch: 365026				Prep Batch: 364743					
Analyte	Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/12/16 17:19	12/13/16 16:25	1
Arsenic	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 16:25	1
Barium	<0.0025		0.0025		mg/L		12/12/16 17:19	12/13/16 16:25	1
Beryllium	<0.0010	^	0.0010		mg/L		12/12/16 17:19	12/13/16 16:25	1
Cadmium	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:25	1
Chromium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 16:25	1
Cobalt	<0.0010		0.0010		mg/L		12/12/16 17:19	12/13/16 16:25	1
Copper	<0.0020	^	0.0020		mg/L		12/12/16 17:19	12/13/16 16:25	1
Iron	<0.10		0.10		mg/L		12/12/16 17:19	12/13/16 16:25	1
Lead	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:25	1
Manganese	<0.0025		0.0025		mg/L		12/12/16 17:19	12/13/16 16:25	1
Nickel	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:25	1
Silver	<0.00050		0.00050		mg/L		12/12/16 17:19	12/13/16 16:25	1
Thallium	<0.0020		0.0020		mg/L		12/12/16 17:19	12/13/16 16:25	1
Vanadium	<0.0050		0.0050		mg/L		12/12/16 17:19	12/13/16 16:25	1
Zinc	<0.020		0.020		mg/L		12/12/16 17:19	12/13/16 16:25	1

Lab Sample ID: MB 500-364743/1-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Soluble					
Analysis Batch: 365255				Prep Batch: 364743					
Analyte	Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		12/12/16 17:19	12/14/16 12:17	1

Lab Sample ID: MB 500-364743/1-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Soluble					
Analysis Batch: 365351				Prep Batch: 364743					
Analyte	Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0025		0.0025		mg/L		12/12/16 17:19	12/15/16 12:23	1

Lab Sample ID: LCS 500-364743/2-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Soluble			
Analysis Batch: 365026				Prep Batch: 364743			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.520		mg/L		104	80 - 120
Arsenic	0.100	0.106		mg/L		106	80 - 120
Barium	0.500	0.534		mg/L		107	80 - 120
Beryllium	0.0500	0.0509	^	mg/L		102	80 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-121081-1

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

Lab Sample ID: LCS 500-364743/2-A

Matrix: Water

Analysis Batch: 365026

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Batch: 364743

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.511		mg/L		102	80 - 120
Copper	0.250	0.264	^	mg/L		106	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Manganese	0.500	0.518		mg/L		104	80 - 120
Nickel	0.500	0.512		mg/L		102	80 - 120
Silver	0.0500	0.0523		mg/L		105	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120
Vanadium	0.500	0.508		mg/L		102	80 - 120
Zinc	0.500	0.538		mg/L		108	80 - 120

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Lab Sample ID: LCS 500-364743/2-A

Matrix: Water

Analysis Batch: 365255

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Batch: 364743

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.00	0.989		mg/L		99	80 - 120

Lab Sample ID: LCS 500-364743/2-A

Matrix: Water

Analysis Batch: 365351

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Batch: 364743

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Selenium	0.100	0.0976		mg/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-364391/12-A

Matrix: Water

Analysis Batch: 364705

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/16 11:45	12/12/16 09:43	1

Lab Sample ID: LCS 500-364391/13-A

Matrix: Water

Analysis Batch: 364705

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364391

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00203		mg/L		102	80 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-121081-1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-364849/1-A Matrix: Water Analysis Batch: 365072	Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 364849
--	--

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010	Qualifier	0.010		mg/L		12/13/16 10:10	12/13/16 16:35	1

Lab Sample ID: LCS 500-364849/2-A Matrix: Water Analysis Batch: 365072	Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 364849 %Rec.
---	--

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
Cyanide, Total	Added	Result	Qualifier	mg/L		92	80 - 120
	0.100	0.0920					

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-365209/3 Matrix: Water Analysis Batch: 365209	Client Sample ID: Method Blank Prep Type: Total/NA
--	---

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0	Qualifier	5.0		mg/L			12/15/16 07:04	1

Lab Sample ID: LCS 500-365209/4 Matrix: Water Analysis Batch: 365209	Client Sample ID: Lab Control Sample Prep Type: Total/NA %Rec.
---	---

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
Sulfate	Added	Result	Qualifier	mg/L		102	80 - 120
	20.0	20.3					

Lab Sample ID: MB 500-365401/3 Matrix: Water Analysis Batch: 365401	Client Sample ID: Method Blank Prep Type: Total/NA
--	---

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0	Qualifier	5.0		mg/L			12/16/16 08:07	1

Lab Sample ID: LCS 500-365401/4 Matrix: Water Analysis Batch: 365401	Client Sample ID: Lab Control Sample Prep Type: Total/NA %Rec.
---	---

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
Sulfate	Added	Result	Qualifier	mg/L		94	80 - 120
	20.0	18.9					

Lab Sample ID: 500-121081-3 MS Matrix: Water Analysis Batch: 365209	Client Sample ID: ELUC MW-15 Prep Type: Dissolved %Rec.
--	--

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
Sulfate	Result	Qualifier	Added	Result	Qualifier	mg/L		105	75 - 125
	200		400	622					

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-121081-1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: 500-121081-3 MSD Matrix: Water Analysis Batch: 365209							Client Sample ID: ELUC MW-15 Prep Type: Dissolved				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	200		400	671		mg/L		117	75 - 125	8	20

Lab Sample ID: 500-121081-5 MS Matrix: Water Analysis Batch: 365401							Client Sample ID: ELUC MW-14 Prep Type: Dissolved				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100		400	508		mg/L		101	75 - 125		

Lab Sample ID: 500-121081-5 MSD Matrix: Water Analysis Batch: 365401							Client Sample ID: ELUC MW-14 Prep Type: Dissolved				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100		400	532		mg/L		107	75 - 125	5	20

Method: 9251 - Chloride

Lab Sample ID: MB 500-364274/4 Matrix: Water Analysis Batch: 364274							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			12/08/16 22:12	1		

Lab Sample ID: LCS 500-364274/5 Matrix: Water Analysis Batch: 364274							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	47.4		mg/L		95	80 - 120				

Lab Sample ID: 500-121081-2 MS Matrix: Water Analysis Batch: 364274							Client Sample ID: ELUC MW-12 Prep Type: Dissolved				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	220		50.0	257	4	mg/L		83	75 - 125		

Lab Sample ID: 500-121081-2 MSD Matrix: Water Analysis Batch: 364274							Client Sample ID: ELUC MW-12 Prep Type: Dissolved				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	220		50.0	250	4	mg/L		70	75 - 125	3	20

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-121081-1

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

Lab Sample ID: MB 500-364294/1 Matrix: Water Analysis Batch: 364294						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			12/09/16 03:08	1

Lab Sample ID: LCS 500-364294/2 Matrix: Water Analysis Batch: 364294						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	286		mg/L		114	80 - 120		

Lab Sample ID: 500-121081-1 DU Matrix: Water Analysis Batch: 364294						Client Sample ID: ELUC MW-10 Prep Type: Dissolved			
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit	
Total Dissolved Solids	890		880		mg/L		0.9	5	

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-364818/3 Matrix: Water Analysis Batch: 364818						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			12/10/16 12:14	1

Lab Sample ID: LCS 500-364818/4 Matrix: Water Analysis Batch: 364818						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	10.1		mg/L		101	80 - 120		

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-364535/3 Matrix: Water Analysis Batch: 364535						Client Sample ID: Method Blank Prep Type: Total/NA			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			12/07/16 16:50	1

Lab Sample ID: LCS 500-364535/4 Matrix: Water Analysis Batch: 364535						Client Sample ID: Lab Control Sample Prep Type: Total/NA			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrogen, Nitrite	0.100	0.103		mg/L		103	80 - 120		

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-121081-1

Method: SM 4500 NO2 B - Nitrogen, Nitrite (Continued)

Lab Sample ID: MB 500-364536/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 364536									
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020	Qualifier	0.020		mg/L			12/09/16 09:30	1

Lab Sample ID: LCS 500-364536/4						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 364536									
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
Nitrogen, Nitrite	Added	Result	Qualifier	mg/L		100	Limits		
	0.100	0.100					80 - 120		

Lab Sample ID: 500-121081-2 MS						Client Sample ID: ELUC MW-12			
Matrix: Water						Prep Type: Dissolved			
Analysis Batch: 364535									
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
Nitrogen, Nitrite	Result	Qualifier	Added	Result	Qualifier	mg/L		98	Limits
	<0.020		0.100	0.110					75 - 125

Lab Sample ID: 500-121081-2 MSD						Client Sample ID: ELUC MW-12				
Matrix: Water						Prep Type: Dissolved				
Analysis Batch: 364535										
Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
Nitrogen, Nitrite	Result	Qualifier	Added	Result	Qualifier	mg/L		100	Limits	Limit
	<0.020		0.100	0.112					75 - 125	2 20

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-365346/12						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 365346									
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.10	Qualifier	0.10		mg/L			12/13/16 19:31	1

Lab Sample ID: LCS 500-365346/13						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 365346									
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
Nitrogen, Nitrate Nitrite	Added	Result	Qualifier	mg/L		99	Limits		
	1.00	0.986					80 - 120		

TestAmerica Chicago

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Chicago
 2417 Bond St.
 University Park, IL 604
 708-634-6200
 Fax: 708-534-6211 500-121081 COC



Report To: Contact: Rich Gnat Company: KPRG & Associates Inc. Address: 14685 W. Llabon Rd. Suite 2B Brookfield, WI, 53005 Phone: 262-781-0475 Fax: Email:	Bill To: Contact: Company: Address: Phone: Fax: PO #:	Lab Lot # 500-121081
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Sampler Name: Ian John Howleson	Client Project # 12313.2	Refrg #	Within Hold Time Yes No	Preserv. Indicated Yes No N/A
Project Name: Waukegan Station Ash Ponds	TestAmerica Project Number: 50004763	# / Cont.	pH Check OK Yes No	Res GL, Check OK Yes No N/A
Project Location: Waukegan, IL	Date Required Hard Copy: / /	Volume	Sample Labels and COC Agree Yes No COC not present	
Lab PM: Eric Lang	Fax: / /	Preserv. 7	Additional Analyses / Remarks	

Laboratory ID	Client Sample ID	Sampling Date	Time	Matrix	# of Containers	NO2
1	ELUC MW-10	12-6-16	14:11	W	1	X
	ELUC MW-11			W		
2	ELUC MW-12	12-6-16	13:05	W	1	X
	ELUC MW-14			W		
NB N 3	ELUC MW-16	12-6-16	04:55	W	1	X

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY: <i>Shirley Scott</i>	COMPANY: <i>TRC</i>	DATE: 12/7/16	TIME: 1010
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

Matrix Key WW = Wastewater SE = Sediment W = Water SO = Solid S = Soil DL = Drum Liquid SL = Sludge DS = Drum Solid MS = Miscellaneous L = Leachate OL = Oil W = Wipe A = Air O = _____	Container Key 1. Plastic 2. VOA Vial 3. Sterile Plastic 4. Amber Glass 5. Wide-mouth 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: / / Courier: Hand Delivered: <input type="checkbox"/> Bill of Lading: 1 of 3 PAGE 1 of 3
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STL-8208 (0600)

12

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Chicago
 2417 Bond St.
 University Park, IL 60
 708-534-5200
 Fax: 708-534-5211 500-121081 COC



Report To:

Bill To:

Contact: Rich Gnat	Contact:	Lab Lot # <u>500-121081</u>
Company: KPRG & Associates Inc.	Company:	Packages Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Address: 14665 W. Lisbon Rd, Suite 2B	Address:	Samples Sealed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Brookfield, WI, 53005		Received on Ice Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Phone: 262-781-0475	Phone:	Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Fax:	Fax:	Temperature °C of Cooler <u>3, 2, 2, 8, 2, 3, 2, 7</u>
Email:	PO #:	Within Hold Time Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Sampler Name: Ian John Howieson		Client Project # 12313.2		Refr #																	
Project Name: Waukegan Station Ash Ponds		TestAmerica Project Number: 50004763		# / Cont.																	
Project Location: Waukegan, IL		Date Required Hard Copy: / /		Volume																	
Lab PM: Eric Lang		Fax: / /		Preserv.																	
Laboratory ID	MS-ASD	Client Sample ID	Sampling Date	Time	Matrix	# of Containers	Metals Dissolved	Cl	TDS	SO4, F1	NO2	NO3 - NO2	Cyanide	Perchlorate	BTEX	Additional Analysis / Remarks					
1		ELUC MW-10	12-6-16	14:11	L	8	X	X	X	X	X	X	X	X	X						
4		ELUC MW-11	12-7-16	15:01	L	8	X	X	X	X	X	X	X	X	X						
2		ELUC MW-12	12-6-16	13:05	L	8	X	X	X	X	X	X	X	X	X						
5		ELUC MW-14	12-7-16	13:10	L	8	X	X	X	X	X	X	X	X	X						
NB N 3		ELUC MW-16	12-6-16	09:55	L	8	X	X	X	X	X	X	X	X	X						

RELINQUISHED BY: <u>ISH</u>	COMPANY: KPRG	DATE: 12-8-16	TIME: 15:15	RECEIVED BY: <u>Shirley Scott</u>	COMPANY: TA-CHE	DATE: 12/8/16	TIME: 1515
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

Matrix Key WW = Wastewater SE = Sediment W = Water SO = Solid S = Soil DL = Drum Liquid SL = Sludge DS = Drum Solid MS = Miscellaneous L = Leachate OL = Oil W = Wipe A = Air O = _____	Container Key 1. Plastic 2. VOA Vial 3. Sterile Plastic 4. Amber Glass 6. Widemouth Glass 8. Other	Preservative Key 1. HCl, Cool to 4° 2. H ₂ SO ₄ , Cool to 4° 3. HNO ₃ , Cool to 4° 4. NaOH, Cool to 4° 6. NaOH/Zn, Cool to 4° 6. Cool to 4° 7. None	COMMENTS: Date Received: / / Courier: Hand Delivered: <input type="checkbox"/> Bill of Lading: PAGE <u>1 of 3</u>
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STL-8208 (0600)

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-121081-1

Login Number: 121081

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	5.8,3.2,2.8,2.3,2.7
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	

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-121081-1

Login Number: 121081

List Number: 2

Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento

List Creation: 12/10/16 04:53 PM

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

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Certification Summary

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

TestAmerica Job ID: 500-121081-1

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

Laboratory: TestAmerica Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	200060	03-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
314 0		Water	Perchlorate