



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

**QUARTERLY GROUNDWATER MONITORING REPORT**  
**POWERTON GENERATING STATION**

July 22, 2013

Ms. Andrea Rhodes  
Illinois Environmental Protection Agency  
Division of Public Water Supplies  
MC#19  
1021 North Grand Avenue East  
Springfield, IL 62794-9276

VIA FEDERAL EXPRESS

KPRG Project No. 12313.1

Re: Quarterly Groundwater Monitoring Results – Second Quarter 2013  
Powerton Generating Station – Ash Impoundments  
Compliance Commitment Agreement VN W-2012-00057; ID# 6282

Dear Ms. Rhodes:

The second quarterly groundwater sampling for 2013 has been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Powerton Generating Station in accordance with the signed Compliance Commitment Agreement (CCA) with Illinois Environmental Protection Agency (IEPA) dated October 24, 2012. This quarterly monitoring report is being submitted by KPRG and Associates, Inc. (KPRG), on behalf of Midwest Generation, summarizing the results of the monitoring event.

Well Inspection and Sampling Procedures

The groundwater monitoring network around the ash ponds at this facility consists of sixteen wells (MW-1 through MW-16) as shown on Figure 1. As part of sampling procedures, the integrity of all monitoring wells was inspected and water levels obtained using an electronic water level meter (see summary of water level discussion below). All wells were found in good condition with locked protector casings and the concrete surface seals were intact.

Prior to initiating sampling, KPRG installed dedicated QED bladder pump sampling systems into all sixteen monitoring wells. Groundwater samples at well locations MW-1 through MW-16 were collected using the low-flow sampling technique. In addition, a

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Comp. Ex. 2560 MWG13-15\_4170

surface water grab sample was collected from the discharge of the East Yard Run-off Basin.

One duplicate sample was collected for quality assurance purposes. In addition, a deionized water trip blank was placed with the sample bottle shipment by the laboratory and accompanied the groundwater samples bottles from and back to the laboratory. The groundwater monitoring samples, the East Yard Run-off Basin sample and the duplicate sample were analyzed for the inorganic compounds listed in Illinois Administrative Code (IAC) 620.410(a), 620.410(d) and 620.410(e), excluding radium 226/228. The trip blank was analyzed for the volatile organic compounds (VOCs) listed in IAC 620.410(d).

### Groundwater Flow Evaluation

Water level data from the most recent round of sampling along with historical water levels obtained from each well are summarized in Table 1. It is noted that the water levels at most locations were higher than in previous rounds due to the heavy rains and flooding that occurred in the area just prior to sampling. As noted in previous submittals, monitoring wells MW-6, MW-8, MW-12, MW-14 and MW-15 are screened within a shallower, localized, saturated clay/silt unit which is underlain by a more extensive sand unit. The remaining eleven monitoring wells are screened deeper, within the more extensive sand unit. The water levels from wells screened in the clay/silt unit and the water levels from monitoring wells screened within the sand unit were evaluated separately and used to generate a groundwater flow maps for each unit. These maps are provided on Figures 2 and 3. The water elevation data within the clay/silt unit indicates localized groundwater flow in a northwesterly direction (Figure 2). Groundwater flow within the more extensive sand unit is generally in a northerly direction (Figure 3). The flow conditions observed during this sampling are consistent with historical conditions reported for the site.

### Summary of Analytical Data

A copy of the analytical data package is provided in Attachment 1. The field parameter and groundwater analytical data from the most recent sampling, along with the previous eight quarters of data, are summarized in Table 2. The duplicate sample was collected from well MW-14. The data are generally consistent with previous data generated for the site. All wells for which the sampling data reports a value above one or more groundwater standards are located within the area of the proposed Groundwater Management Zone (GMZ). Midwest Generation's proposed GMZ application was submitted to IEPA on January 18, 2013 and is awaiting the Agency's approval.

The data from the East Yard Run-off Basin sampling along with the previous sampling results are summarized in Table 3. It is consistent with the data from the previous sampling.

If there are any questions, please contact either Maria Race of Midwest Generation at 630-771-7862 or Richard Gnat of KPRG at 262-781-0475.

Sincerely,  
KPRG and Associates, Inc.



Richard R. Gnat, P.G.  
Principal

*Attachments*

cc: William Buscher, IEPA  
Maria Race, Midwest Generation  
Susan Franzetti, Nijman Franzetti, LLP

## **FIGURES**



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**K P R G**

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**SITE MAP**

**POWERTON STATION  
PEKIN, ILLINOIS**

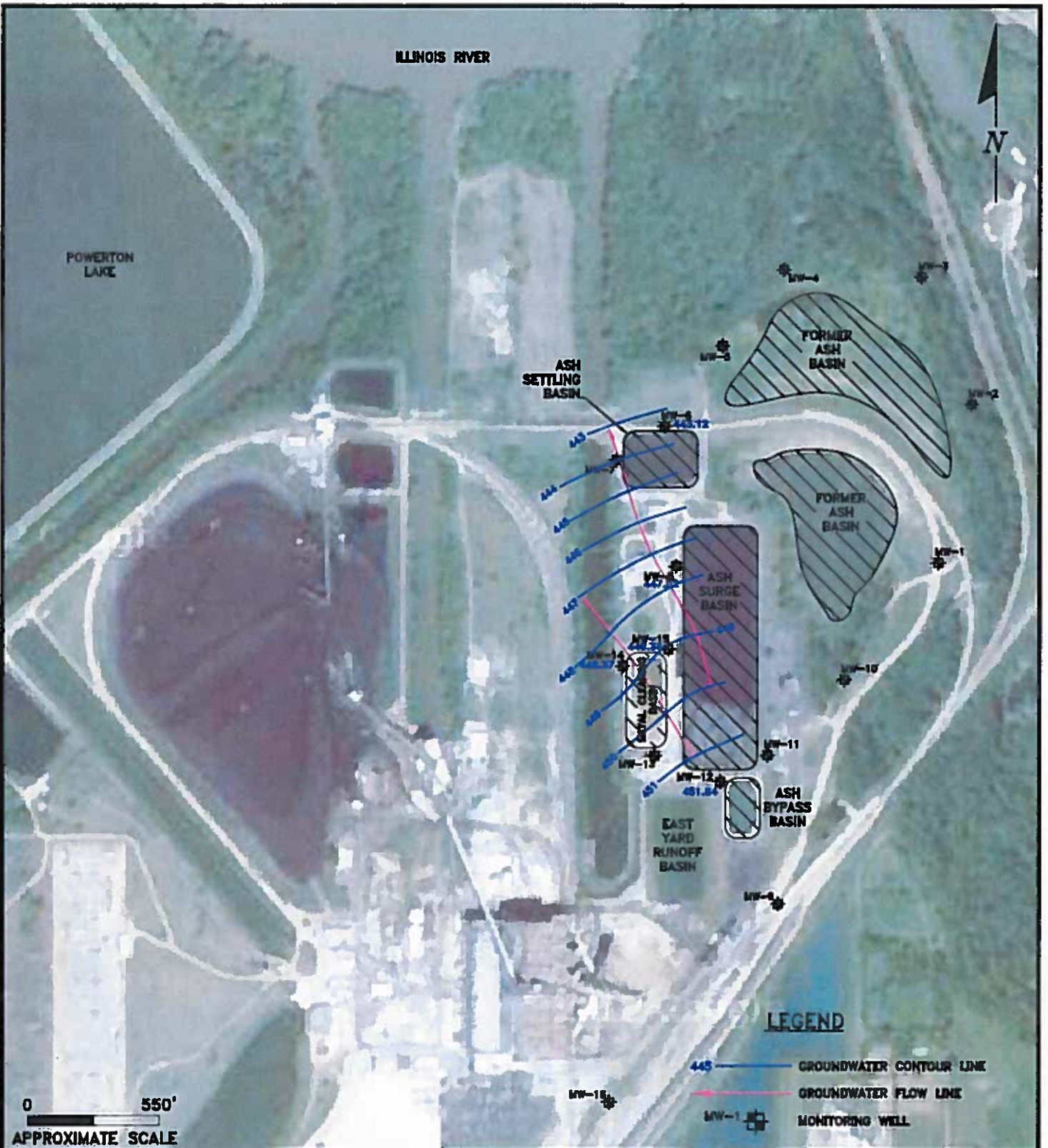
Scale: 1" = 550'

Date: July 17, 2013

KPRG Project No. 12313.1

FIGURE 1

MWG13-15 4174



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**GROUNDWATER CONTOUR MAP FOR  
SILT/CLAY UNIT 6/2013**

**POWERTON STATION  
PEKIN, ILLINOIS**

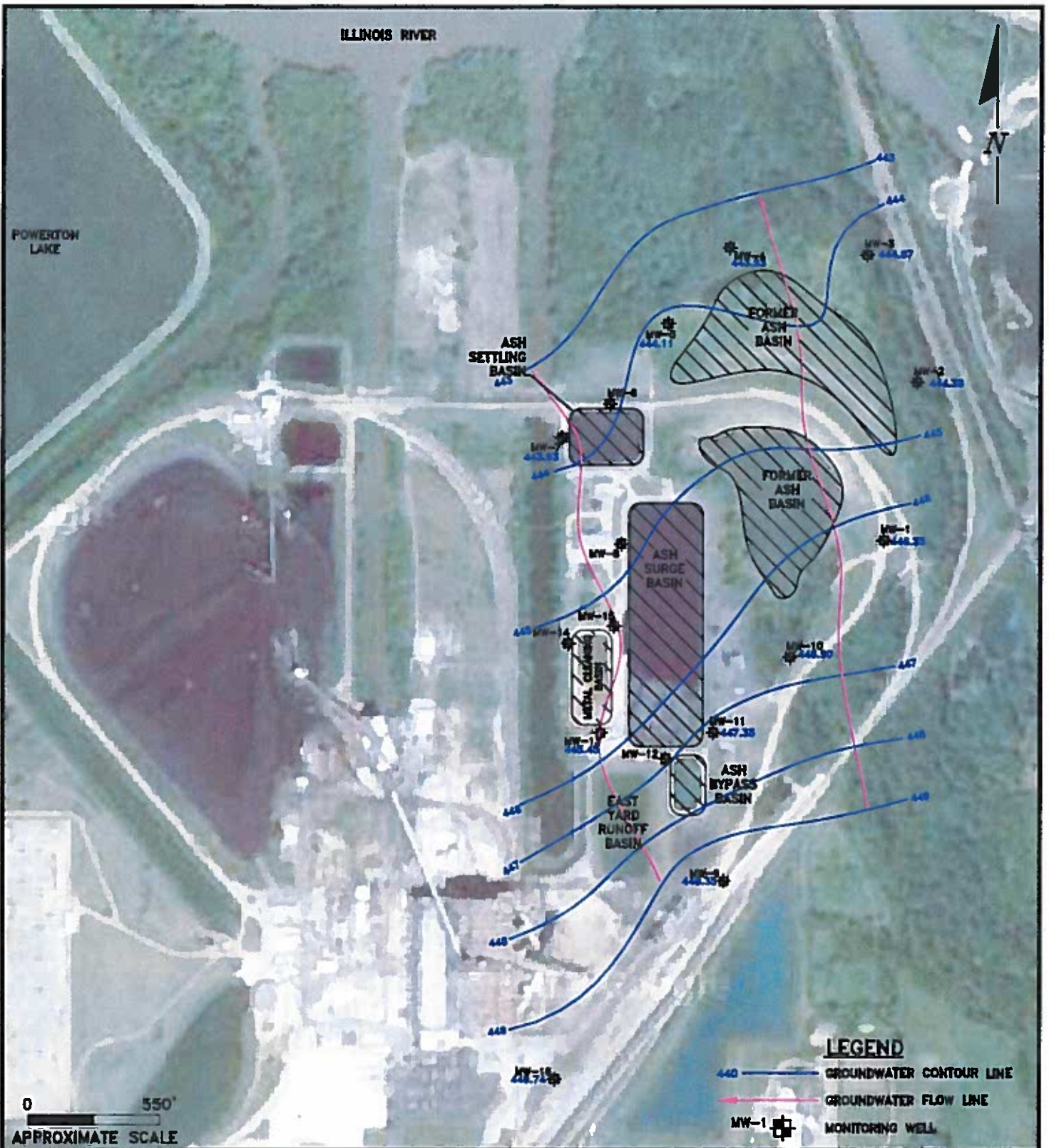
**Scale: 1" = 550'**

**Date: July 11, 2013**

**KPRG Project No. 12313.1**

**FIGURE 2  
MW013-15 4175**

KPRG and Associates, Inc. 12/12/12



ENVIRONMENTAL CONSULTATION & REMEDIATION <b>K P R G</b>	<b>GROUNDWATER CONTOUR MAP FOR GRAVELLY SAND UNIT 6/2013</b>	
KPRG and Associates, Inc. 414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593	<b>POWERTON STATION PEKIN, ILLINOIS</b>	
14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478	<b>Scale: 1" = 550'</b>	<b>Date: July 17, 2013</b>
	<b>KPRG Project No. 12313.1</b>	<b>FIGURE 3</b> <small>MWG13-15 4176</small>

## **TABLES**

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Table 1. Groundwater Elevations - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing (TOC) Elevation (ft above MSL)	Ground Elevation (ft above MSL)	Groundwater Elevation (ft above MSL)	Sampling Groundwater Elevation (ft above MSL)	Bottom of Well Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Sampling Depth to Groundwater (ft below TOC)	Depth to Bottom of Well (ft below TOC)
MW-1	9/19/2011	465 06	461 67	439 95	439 93	430 97	25 11	25 13	34 09
	12/12/2011	465 06	461 67	439 78	439 78	430 97	25 28	25 28	34 09
	3/19/2012	465 06	461 67	442 40	442 40	430 97	22 66	22 66	34 09
	4/4/2012	465 06	461 67	441 39	NM	430 97	23 67	NM	34 09
	6/25/2012	465 06	461 67	437 84	437 84	430 97	27 22	27 22	34 09
	9/18/2012	465 06	461 67	435 37	435 34	430 97	29 69	29 72	34 09
	12/12/2012	465 06	461 67	435 06	435 06	430 97	30 00	30 00	34 09
	2/27/2013	465 06	461 67	439 56	438 62	430 97	25 50	26 44	34 09
	5/29/2013	465 06	461 67	446 35	446 50	430 96	18 71	18 56	34 10
MW-2	9/19/2011	462 42	459 25	433 27	433 27	425 31	29 15	29 15	37 11
	12/12/2011	462 42	459 25	434 78	434 78	425 31	27 64	27 64	37 11
	3/19/2012	462 42	459 25	437 48	437 48	425 31	24 94	24 94	37 11
	4/4/2012	462 42	459 25	436 92	NM	425 31	25 50	NM	37 11
	6/25/2012	462 42	459 25	433 69	433 68	425 31	28 73	28 74	37 11
	9/18/2012	462 42	459 25	431 30	431 31	425 31	31 12	31 11	37 11
	12/12/2012	462 42	459 25	431 12	431 12	425 31	31 30	31 30	37 11
	2/27/2013	462 42	459 25	436 02	434 63	425 31	26 40	27 79	37 11
	5/29/2013	462 42	459 25	444 38	444 81	425 31	18 04	17 61	37 11
MW-3	9/19/2011	462 34	459 10	432 73	432 72	425 05	29 61	29 62	37 29
	12/12/2011	462 34	459 10	433 88	433 88	425 05	28 46	28 46	37 29
	3/19/2012	462 34	459 10	436 94	436 94	425 05	25 40	25 40	37 29
	4/4/2012	462 34	459 10	435 67	NM	425 05	26 67	NM	37 29
	6/25/2012	462 34	459 10	432 86	432 86	425 05	29 48	29 48	37 29
	9/18/2012	462 34	459 10	430 71	430 71	425 05	31 63	31 63	37 29
	12/12/2012	462 34	459 10	429 94	429 94	425 05	32 40	32 40	37 29
	2/27/2013	462 34	459 10	436 39	435 87	425 05	25 95	26 47	37 29
	5/29/2013	462 34	459 10	444 87	445 14	425 04	17 47	17 20	37 30
MW-4	9/19/2011	460 48	457 29	431 63	431 63	423 39	28 85	28 85	37 09
	12/12/2011	460 48	457 29	433 28	433 28	423 39	27 20	27 20	37 09
	3/19/2012	460 48	457 29	434 93	434 93	423 39	25 55	25 55	37 09
	4/4/2012	460 48	457 29	434 15	NM	423 39	26 33	NM	37 09
	6/25/2012	460 48	457 29	432 38	432 38	423 39	28 10	28 10	37 09
	9/18/2012	460 48	457 29	430 34	430 34	423 39	30 14	30 14	37 09
	12/12/2012	460 48	457 29	430 28	430 28	423 39	30 20	30 20	37 09
	2/27/2013	460 48	457 29	434 36	433 21	423 39	26 12	27 27	37 09
	5/29/2013	460 48	457 29	443 93	444 59	423 33	16 55	15 89	37 15
MW-5	9/19/2011	458 58	455 80	432 77	432 77	423 79	25 81	25 81	34 79
	12/12/2011	458 58	455 80	434 13	434 13	423 79	24 45	24 45	34 79
	3/19/2012	458 58	455 80	435 71	435 72	423 79	22 87	22 86	34 79
	4/4/2012	458 58	455 80	434 93	NM	423 79	23 65	NM	34 79
	6/25/2012	458 58	455 80	433 23	433 21	423 79	25 35	25 37	34 79
	9/18/2012	458 58	455 80	430 99	430 98	423 79	27 59	27 60	34 79
	12/12/2012	458 58	455 80	430 98	430 98	423 79	27 60	27 60	34 79
	2/27/2013	458 58	455 80	434 93	434 01	423 79	23 65	24 57	34 79
	5/29/2013	458 58	455 80	444 11	444 85	423 79	14 47	13 73	34 79
MW-6	9/19/2011	464 47	461 22	445 71	445 66	431 87	18 76	18 81	32 60
	12/12/2011	464 47	461 22	446 30	446 30	431 87	18 17	18 17	32 60
	3/19/2012	464 47	461 22	446 17	446 17	431 87	18 30	18 30	32 60
	4/4/2012	464 47	461 22	445 81	NM	431 87	18 66	NM	32 60
	6/25/2012	464 47	461 22	445 99	445 94	431 87	18 48	18 53	32 60
	9/18/2012	464 47	461 22	445 63	445 63	431 87	18 84	18 84	32 60
	12/12/2012	464 47	461 22	447 37	447 37	431 87	17 10	17 10	32 60
	2/27/2013	464 47	461 22	448 45	448 48	431 87	16 02	15 99	32 60
	5/31/2013	464 47	461 22	443 12	443 12	431 87	21 35	21 35	32 60

Table 1. Groundwater Elevations - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing (TOC) Elevation (ft above MSL)	Ground Elevation (ft above MSL)	Groundwater Elevation (ft above MSL)	Sampling Groundwater Elevation (ft above MSL)	Bottom of Well Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Sampling Depth to Groundwater (ft below TOC)	Depth to Bottom of Well (ft below TOC)
MW-7	9/19/2011	463.23	459.65	433.40	433.40	423.12	29.83	29.83	40.11
	12/12/2011	463.23	459.65	434.64	433.73	423.12	28.59	29.50	40.11
	3/19/2012	463.23	459.65	436.04	435.18	423.12	27.19	28.05	40.11
	4/4/2012	463.23	459.65	435.10	NM	423.12	28.13	NM	40.11
	6/25/2012	463.23	459.65	433.77	433.66	423.12	29.46	29.57	40.11
	9/18/2012	463.23	459.65	431.39	425.61	423.12	31.84	37.62	40.11
	12/12/2012	463.23	459.65	431.38	431.38	423.12	31.85	31.85	40.11
	2/27/2013	463.23	459.65	435.30	433.79	423.12	27.93	29.44	40.11
5/31/2013	463.23	459.65	443.93	445.24	414.93	19.30	17.99	48.30	
MW-8	9/19/2011	471.73	468.70	446.76	446.77	438.18	24.97	24.96	33.55
	12/12/2011	471.73	468.70	446.85	446.85	438.18	24.88	24.88	33.55
	3/19/2012	471.73	468.70	447.66	447.66	438.18	24.07	24.07	33.55
	4/4/2012	471.73	468.70	447.27	NM	438.18	24.46	NM	33.55
	6/25/2012	471.73	468.70	447.06	447.06	438.18	24.67	24.67	33.55
	9/18/2012	471.73	468.70	446.70	446.70	438.18	25.03	25.03	33.55
	12/12/2012	471.73	468.70	447.23	447.23	438.18	24.50	24.50	33.55
	2/27/2013	471.73	468.70	448.53	449.98	438.18	23.20	21.75	33.55
5/30/2013	471.73	468.70	447.82	447.80	438.21	23.91	23.93	33.52	
MW-9	9/19/2011	469.19	466.21	443.64	443.64	434.06	25.55	25.55	35.13
	12/12/2011	469.19	466.21	443.08	443.08	434.06	26.11	26.11	35.13
	3/19/2012	469.19	466.21	443.78	443.78	434.06	25.41	25.41	35.13
	4/4/2012	469.19	466.21	443.49	NM	434.06	25.70	NM	35.13
	6/25/2012	469.19	466.21	442.55	442.52	434.06	26.64	26.67	35.13
	9/18/2012	469.19	466.21	440.29	440.29	434.06	28.90	28.90	35.13
	12/12/2012	469.19	466.21	439.77	439.77	434.06	29.42	29.42	35.13
	2/27/2013	469.19	466.21	441.69	442.40	434.06	27.50	26.79	35.13
5/30/2013	469.19	466.21	449.35	449.50	434.05	19.84	19.69	35.14	
MW-10	9/19/2011	457.39	454.09	439.99	439.98	424.89	17.40	17.41	32.50
	12/12/2011	457.39	454.09	440.01	440.01	424.89	17.38	17.38	32.50
	3/19/2012	457.39	454.09	442.03	442.03	424.89	15.36	15.36	32.50
	4/4/2012	457.39	454.09	441.06	NM	424.89	16.33	NM	32.50
	6/25/2012	457.39	454.09	438.39	438.39	424.89	19.00	19.00	32.50
	9/18/2012	457.39	454.09	436.06	436.06	424.89	21.33	21.33	32.50
	12/12/2012	457.39	454.09	435.79	435.79	424.89	21.60	21.60	32.50
	2/27/2013	457.39	454.09	439.50	439.85	424.89	17.89	17.54	32.50
5/29/2013	457.39	454.09	446.90	447.06	424.89	10.49	10.33	32.50	
MW-11	9/19/2011	471.59	468.07	440.49	440.49	427.94	31.10	31.10	43.65
	12/12/2011	471.59	468.07	440.51	440.50	427.94	31.08	31.09	43.65
	3/19/2012	471.59	468.07	441.63	441.60	427.94	29.96	29.99	43.65
	4/4/2012	471.59	468.07	441.03	NM	427.94	30.56	NM	43.65
	6/25/2012	471.59	468.07	439.54	439.52	427.94	32.05	32.07	43.65
	9/18/2012	471.59	468.07	437.31	437.31	427.94	34.28	34.28	43.65
	12/12/2012	471.59	468.07	437.09	437.09	427.94	34.50	34.50	43.65
	2/27/2013	471.59	468.07	439.79	440.57	427.94	31.80	31.02	43.65
5/30/2013	471.59	468.07	447.35	447.79	427.89	24.24	23.80	43.70	
MW-12	9/19/2011	473.38	470.00	449.88	449.88	440.81	23.50	23.50	32.57
	12/12/2011	473.38	470.00	450.03	450.03	440.81	23.35	23.35	32.57
	3/19/2012	473.38	467.00	451.18	451.18	440.81	22.20	22.20	32.57
	4/4/2012	473.38	470.00	450.83	NM	440.81	22.55	NM	32.57
	6/25/2012	473.38	467.00	450.38	450.35	440.81	23.00	23.03	32.57
	9/18/2012	473.38	467.00	449.95	449.93	440.81	23.43	23.45	32.57
	12/12/2012	473.38	467.00	449.18	449.18	440.81	24.20	24.20	32.57
	2/27/2013	473.38	467.00	451.07	451.43	440.81	22.31	21.95	32.57
5/30/2013	473.38	467.00	451.84	451.84	440.79	21.54	21.54	32.59	
MW-13	4/25/2011	470.94	467.65	446.06	446.12	427.82	24.88	24.82	43.12
	6/16/2011	470.94	467.65	447.39	447.39	427.82	23.55	23.55	43.12
	8/9/2011	470.94	467.65	437.72	438.55	427.82	33.22	32.39	43.12
	10/13/2011	470.94	467.65	436.84	436.84	427.82	34.1	34.10	43.12
	12/12/2011	470.94	467.65	437.79	437.64	427.82	33.15	33.30	43.12
	4/10/2012	470.94	467.65	437.73	437.29	427.82	33.21	33.65	43.12
	12/14/2012	470.94	467.65	437.40	437.40	427.82	33.54	33.54	43.12
	2/27/2013	470.94	467.65	437.99	438.04	427.82	32.95	32.90	43.12
5/30/2013	470.94	467.65	445.45	446.45	427.85	25.49	24.49	43.09	

Table 1. Groundwater Elevations - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing (TOC) Elevation (ft above MSL)	Ground Elevation (ft above MSL)	Groundwater Elevation (ft above MSL)	Sampling Groundwater Elevation (ft above MSL)	Bottom of Well Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Sampling Depth to Groundwater (ft below TOC)	Depth to Bottom of Well (ft below TOC)
MW-14	4/25/2011	470.79	467.67	448.13	447.95	437.21	22.66	22.84	33.58
	6/16/2011	470.79	467.67	448.28	448.27	437.21	22.51	22.52	33.58
	8/9/2011	470.79	467.67	448.11	446.76	437.21	22.68	24.03	33.58
	10/13/2011	470.79	467.67	445.28	441.14	437.21	25.51	29.65	33.58
	12/12/2011	470.79	467.67	443.71	440.10	437.21	27.08	30.69	33.58
	4/10/2012	470.79	467.67	446.80	446.74	437.21	23.99	24.05	33.58
	12/14/2012	470.79	467.67	444.89	444.89	437.21	25.9	25.90	33.58
	2/27/2013	470.79	467.67	447.29	447.89	437.21	23.5	22.90	33.58
	5/30/2013	470.79	467.67	448.37	448.33	437.21	22.42	22.46	33.58
MW-15	4/25/2011	471.38	468.26	448.29	448.29	439.04	23.09	23.09	32.34
	6/16/2011	471.38	468.26	449.16	448.56	439.04	22.22	22.82	32.34
	8/9/2011	471.38	468.26	447.82	447.82	439.04	23.56	23.56	32.34
	10/13/2011	471.38	468.26	446.73	446.73	439.04	24.65	24.65	32.34
	12/12/2011	471.38	468.26	446.78	446.76	439.04	24.6	24.62	32.34
	4/10/2012	471.38	468.26	447.49	447.56	439.04	23.89	23.82	32.34
	12/14/2012	471.38	468.26	446.71	446.71	439.04	24.67	24.67	32.34
	2/27/2013	471.38	468.26	448.48	449.05	439.04	22.9	22.33	32.34
	5/30/2013	471.38	468.26	449.36	449.29	439.91	22.02	22.09	31.47
MW-16	12/12/2012	471.56	468.26	441.16	441.16	434.36	30.4	30.40	37.2
	2/27/2013	471.56	468.26	442.56	441.13	434.36	29	30.43	37.2
	5/29/2013	471.56	468.26	449.74	449.74	434.27	21.82	21.82	37.29

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Sampler	MW-01	Date	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/29/2013	
			DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony		0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	0.048
Arsenic		0.010	0.001	ND	0.001	ND	0.044	0.038	0.001	0.038	0.001	0.06	0.001	0.074	0.001	0.08	0.001	0.08	0.0025	0.078
Barium	2.0	0.004	0.001	ND	0.001	ND	0.001	0.001	0.001	0.001	ND	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ND
Beryllium		2.0	0.01	0.33	0.01	1.0	0.01	0.48	0.01	0.29	0.01	0.46	0.01	1.8	2.0	ND	0.01	1.7	0.050	0.47
Boron		0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND
Cadmium		200.0	10	40	10	41	10	26	10	53	10	42	10	43	10	41	10	38	10	160
Chloride		0.1	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.0030	0.014	0.004	0.0076	0.0050	ND
Chromium	1.0	0.002	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.0030	ND	0.002	ND	0.0010	ND
Cobalt		0.65	0.003	ND	0.003	0.0057	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.010	ND	0.003	ND	0.0020	ND
Copper		0.2	0.0050	ND	0.0050	ND	0.0050	0.0077	0.0050	0.0077	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
Cyanide		4.0	0.25	0.38	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.10	0.12
Fluoride		5.0	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.17	0.01	ND	0.10	0.43
Iron		0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0050	ND	0.001	ND	0.0050	0.00080
Lead		0.15	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	0.0027	0.0020	0.018	0.001	ND	0.0025	0.027
Manganese		0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND
Mercury		0.1	0.005	ND	0.005	0.0095	0.005	0.0095	0.005	0.005	0.005	0.0066	0.005	0.01	0.10	ND	0.005	0.0062	0.0020	ND
Nickel		10.0	0.20	5.7	0.20	11	0.20	4.1	0.20	7.3	0.20	6.5	0.20	5.4	0.20	7.2	0.2	7.4	0.10	0.23
Nitrogen/Nitrate		NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	0.23
Nitrogen/Nitrate, Nitrite		NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
Nitrogen/Nitrite		0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0040	ND
Perchlorate		6.5 - 9.0	NA	7.58	NA	7.37	NA	6.39	NA	7.59	NA	7.45	NA	7.06	NA	6.98	NA	9.53	NA	7.00
pH		0.05	0.001	0.0016	0.001	0.0036	0.001	0.0027	0.001	0.0025	0.001	0.0042	0.001	0.005	0.0050	ND	0.001	0.0045	0.0025	ND
Selenium		0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.0050	ND
Silver		400.0	10	39	10	83	10	31	10	61	10	68	25	72	10	91	10	77	100	330
Sulfate		0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Thallium		1.200	17	410	17	510	17	440	17	470	17	580	17	710	26	640	26	640	10	840
Total Dissolved Solids		0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.005	ND	0.005	ND	0.0050	ND
Vanadium		5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND
Zinc		0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.005	ND	0.005	ND	0.0050	ND
Benzene		11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.03	ND	0.03	ND	0.0025	ND
BETX		NA	NA	9.71	NA	18.42	NA	10.85	NA	7.33	NA	17.97	NA	15.74	NA	13.58	NA	11.00	NA	10.71
Temperature		NA	NA	0.69	NA	0.74	NA	0.56	NA	0.53	NA	0.79	NA	0.92	NA	0.85	NA	0.88	NA	0.94
Conductivity		NA	NA	4.61	NA	4.57	NA	5.21	NA	8.46	NA	0.66	NA	3.34	NA	3.04	NA	3.03	NA	3.10
Dissolved Oxygen		NA	NA	209.8	NA	-98	NA	13	NA	242	NA	43	NA	165	NA	130	NA	94	NA	30.4
ORP		NA	NA	209.8	NA	-98	NA	13	NA	242	NA	43	NA	165	NA	130	NA	94	NA	30.4

Notes: Standards obtained from IAC Title 35, Chapter 1, Part 620, Subpart D, Section 620.310 - Groundwater Quality Standards for Class I Potable Resource Groundwater. All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured

NR - Not Required  
 NS - Not Sampled  
 \* Denotes instrument related QC exceeds the control limits

Temperature  
 Conductivity  
 Dissolved Oxygen  
 Oxygen Reduction Potential (ORP)

°C  
 mg/L  
 milligrams per liter  
 millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Parameter	Standards	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/29/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND
Arsenic	0.010	0.001	0.0017	0.001	ND	0.001	ND	0.001	ND	0.001	0.0012	0.001	0.0011	0.001	0.0011	0.001	0.0011	0.0010	0.0010
Barium	2.0	0.001	0.053	0.001	0.059	0.001	0.066	0.001	0.049	0.001	0.064	0.001	0.06	0.040	0.075	0.001	0.035	0.0025	0.053
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0010	ND <sup>a</sup>
Boron	2.0	0.01	0.35	0.01	0.83	0.01	0.69	0.01	0.27	0.01	0.74	0.01	0.65	0.40	0.8	0.01	0.29	0.050	0.21
Cadmium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0010	ND
Chloride	200.0	10	44	10	46	10	40	10	53	10	51	10	45	10	48	10	52	2.0	53
Chromium	0.1	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.0030	0.0096	0.004	0.0042	0.0050	ND
Cobalt	1.0	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.0030	ND	0.002	ND	0.0010	ND
Copper	0.65	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.010	ND	0.003	ND	0.0020	0.0021
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
Fluoride	4.0	0.25	0.35	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	0.28	0.25	ND	0.10	0.32
Iron	5.0	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.046	0.01	0.026	0.10	ND
Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0050	ND	0.001	ND	0.00050	ND
Manganese	0.15	0.001	0.0022	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0020	0.0063	0.001	ND	0.0025	ND
Mercury	0.002	0.002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND
Nickel	0.1	0.005	0.0053	0.005	0.01	0.005	0.0073	0.005	ND	0.005	0.0065	0.005	0.0066	0.010	ND	0.005	ND	0.0020	ND
Nitrogen/Nitrate	10.0	0.20	4.7	0.20	4.3	0.20	6.9	0.20	5.1	0.20	4.4	0.20	2.9	0.20	2.4	0.2	5.7	0.10	0.44
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.48
Nitrogen/Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.041
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0040	ND
pH	6.5 - 9.0	NA	7.20	NA	7.52	NA	6.41	NA	7.92	NA	7.35	NA	7.32	NA	7.38	NA	7.53	NA	7.39
Selenium	0.05	0.001	0.0014	0.001	0.0032	0.001	0.0037	0.001	ND	0.001	0.0039	0.001	0.0016	0.0050	ND	0.001	0.0032	0.0025	ND
Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.00050	ND
Sulfate	400.0	10	53	10	70	10	69	10	55	10	73	10	69	10	95	10	53	20	96
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	1,200	17	470	17	460	17	490	17	440	17	500	17	510	26	520	26	440	10	340
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0080	ND	0.005	ND	0.0050	ND
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	0.013	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.005	ND	0.005	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.03	ND	0.03	ND	0.0025	ND
Temperature	NA	NA	13.14	NA	14.75	NA	9.58	NA	9.56	NA	14.90	NA	17.12	NA	12.33	NA	13.30	NA	20.87
Conductivity	NA	NA	0.75	NA	0.64	NA	0.59	NA	0.56	NA	0.66	NA	0.68	NA	0.68	NA	0.54	NA	0.56
Dissolved Oxygen	NA	NA	0.58	NA	0.28	NA	3.34	NA	3.91	NA	0.78	NA	0.53	NA	2.03	NA	10.89	NA	0.65
ORP	NA	NA	226.3	NA	-196	NA	63	NA	272	NA	168	NA	157	NA	200	NA	185.2	NA	-34.5

Notes: Standards obtained from IAL, Title 15, Chapter 1, Part 620, Subpart D, Section 610.110 - Groundwater Quality Standards for Class I Public Resource Groundwater  
 All values are in mg/L (ppm) unless otherwise noted.  
 DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NR - Not Measured  
 NR - Not Required  
 NS - Not Sampled  
 \* Denotes instrument related QC exceeds the control limits  
 °C - degrees Celsius  
 ms/cm<sup>2</sup> - millisiemens centimeters  
 mg/L - milligrams per liter  
 mV - millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerion Station, Pekin, IL

Parameter	Standards	Date		6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/29/2013		
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	
Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	0.0057	
Arsenic	0.010	0.001	0.001	0.0012	0.001	0.0012	0.001	0.0012	0.001	0.0012	0.001	0.0012	0.001	0.0012	0.001	0.0012	0.001	0.0012	0.001	0.0012	0.0012	
Barium	2.0	0.001	0.063	0.001	0.081	0.001	0.076	0.001	0.052	0.001	0.052	0.001	0.059	0.001	0.1	0.040	0.11	0.001	0.056	0.0025	0.061	
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	
Boron	2.0	0.01	0.24	0.01	0.64	0.01	0.7	0.01	0.56	0.01	0.63	0.01	0.63	0.01	0.64	0.40	0.63	0.01	0.65	0.050	0.21	
Calcium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	
Chloride	200.0	10	59	10	62	10	39	10	54	10	54	10	57	10	54	10	58	10	53	2.0	55	
Chromium	0.1	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.0030	0.0086	0.004	0.005	0.0050	ND	
Cobalt	1.0	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.0030	ND	0.002	ND	0.0010	ND	
Copper	0.65	0.003	ND	0.003	0.012	0.003	0.042	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.10	ND	0.003	ND	0.0020	ND	
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND	
Fluoride	4.0	0.25	0.41	0.25	0.35	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	0.29	0.25	0.35	0.25	0.25	0.10	0.31	
Iron	5.0	0.010	ND	0.010	0.042	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.036	0.01	0.019	0.10	ND	
Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0050	ND	0.001	ND	0.0050	ND	
Manganese	0.15	0.001	ND	0.001	0.0037	0.001	0.014	0.001	ND	0.001	ND	0.001	0.0033	0.001	0.002	0.0020	0.034	0.001	0.011	0.0025	ND	
Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND	
Nickel	0.1	0.005	ND	0.005	0.008	0.005	0.0078	0.005	ND	0.005	ND	0.005	0.005	0.005	0.0067	0.010	ND	0.005	ND	0.0020	ND	
Nitrogen/Nitrate	10.0	0.20	5.4	0.02	0.20	0.02	0.20	0.20	2.1	0.02	0.37	0.02	0.37	0.02	0.08	0.02	0.13	0.2	2.00	0.10	0.15	
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	0.15
Nitrogen/Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0040	ND	
pH	6.5 - 9.0	NA	7.33	NA	7.30	NA	6.58	NA	7.38	NA	7.36	NA	7.36	NA	7.46	NA	7.41	NA	7.46	NA	7.31	
Selenium	0.05	0.001	0.0015	0.001	0.0036	0.001	0.0021	0.001	0.0067	0.001	0.0018	0.001	0.0018	0.001	0.0033	0.0050	ND	0.001	0.0048	0.0025	ND	
Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.0050	ND	
Sulfate	400.0	10	47	10	66	10	45	10	72	10	84	10	84	10	74	10	74	10	64	20	82	
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND	
Total Dissolved Solids	1,200	17	440	17	460	17	480	17	450	17	520	17	520	17	520	26	460	26	500	10	310	
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0080	ND	0.005	ND	0.0050	ND	
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	0.012	0.006	ND	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND	
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND	
BTEX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	ND	
Temperature	NA	NA	15.72	NA	21.59	NA	18.58	NA	15.50	NA	15.26	NA	15.10	NA	14.28	NA	14.28	NA	13.60	NA	21.93	
Conductivity	NA	NA	0.73	NA	0.76	NA	0.72	NA	0.65	NA	0.67	NA	0.68	NA	0.66	NA	0.66	NA	0.73	NA	0.56	
Dissolved Oxygen	NA	NA	0.40	NA	0.32	NA	0.99	NA	4.95	NA	3.02	NA	5.22	NA	2.50	NA	2.50	NA	6.10	NA	0.40	
ORP	NA	NA	220.5	NA	-218	NA	29	NA	157	NA	125	NA	180	NA	90	NA	90	NA	140.31	NA	-101.8	

Notes: Standards obtained from IAC, Title 35, Chapter 4, Part 620, Subpart D, Section 620.110 - Groundwater Quality Standards for Class 1 Potable Resource (groundwater). All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured

NR - Not Required  
 NS - Not Sampled  
 - : Does not meet related QC exceeds the control limits

Temperature °C  
 Conductivity ms/cm  
 Dissolved Oxygen mg/L  
 Oxygen Reduction Potential (ORP) millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Sample: MW-04	Parameter	Standards	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/29/2013	
			DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
	Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND
	Arsenic	0.010	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND
	Barium	2.0	0.001	0.058	0.001	0.048	0.001	0.048	0.001	0.043	0.001	0.04	0.001	0.07	0.040	0.09	0.001	0.054	0.0025	0.030
	Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND
	Boron	2.0	0.01	0.33	0.01	0.84	0.01	0.79	0.01	0.78	0.01	0.83	0.01	0.76	0.40	0.74	0.01	0.97	0.050	0.23
	Cadmium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND
	Chloride	200.0	10	43	25	86	1.0	8.1	10	58	10	75	25	110	25	130	10	90	2.0	54
	Chromium	0.1	0.004	ND	0.004	0.0044	0.004	ND	0.004	ND	0.004	ND	0.004	0.0045	0.0030	0.01	0.004	0.0052	0.0050	ND
	Cobalt	1.0	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.0030	ND	0.002	ND	0.0010	ND
	Copper	0.65	0.003	ND	0.003	0.0033	0.003	0.01	0.003	ND	0.003	ND	0.003	ND	0.010	ND	0.003	ND	0.0020	ND
	Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
	Fluoride	4.0	0.25	0.43	0.25	0.31	0.25	ND	0.25	ND	0.25	ND	0.25	0.26	0.25	0.29	0.25	ND	0.10	0.39
	Iron	5.0	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.14	0.01	0.059	0.10	ND
	Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0050	ND	0.001	ND	0.0050	ND
	Manganese	0.15	0.001	0.41	0.001	0.69	0.001	0.35	0.001	0.089	0.001	0.26	0.001	0.5	0.0020	0.027	0.001	0.007	0.0025	ND
	Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND
	Nickel	0.1	0.005	0.0067	0.005	0.011	0.005	0.01	0.005	0.0055	0.005	0.0074	0.005	0.0095	0.010	ND	0.005	ND	0.0020	ND
	Nitrogen/Nitrate	10.0	0.20	2.7	0.02	0.06	0.02	0.07	0.02	0.65	0.02	1.1	0.02	0.46	0.02	1.0	0.02	1.8	0.10	ND
	Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	ND
	Nitrogen/Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
	Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0040	ND
	pH	6.5 - 9.0	NA	7.26	NA	7.22	NA	6.37	NA	7.24	NA	7.04	NA	7.13	NA	7.14	NA	7.37	NA	7.30
	Selenium	0.05	0.001	0.0022	0.001	0.0039	0.001	0.002	0.001	0.0085	0.001	0.0035	0.001	0.0032	0.0050	ND	0.001	0.013	0.0025	ND
	Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.00050	ND
	Sulfate	400.0	10	48	25	61	1.0	6.7	50	160	10	94	25	170	25	150	50	130	20	92
	Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
	Total Dissolved Solids	1,200	17	470	17	580	17	520	17	660	17	600	17	800	26	720	26	640	10	350
	Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0080	ND	0.005	ND	0.0050	ND
	Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND
	Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.005	ND	0.005	ND	0.00050	ND
	BIETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.03	ND	0.03	ND	0.0025	ND
	Temperature	NA	NA	17.54	NA	19.07	NA	16.35	NA	12.99	NA	18.12	NA	16.51	NA	14.11	NA	13.20	NA	21.84
	Conductivity	NA	NA	0.75	NA	0.91	NA	0.76	NA	0.76	NA	0.83	NA	1.05	NA	0.98	NA	0.92	NA	0.58
	Dissolved Oxygen	NA	NA	0.26	NA	0.18	NA	0.20	NA	1.43	NA	0.33	NA	0.46	NA	4.01	NA	5.93	NA	0.47
	ORP	NA	NA	202.6	NA	-228	NA	51	NA	212	NA	124	NA	119	NA	130	NA	170.3	NA	-90.1

Notes: Standards obtained from IAC, Title 35, Chapter 1, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class 1 Potable Resource Groundwater. All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NR - Not Measured

Temperature  
 °C  
 Conductivity  
 µmho/cm  
 Dissolved Oxygen  
 mg/L  
 Oxygen Reduction Potential (ORP)  
 mV

degrees Celsius  
 milligrams per liter  
 millivolts

NR - Not Required  
 NS - Not Sampled  
 \* - Depends on instrument related QC results the control limits

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Parameter	Standard	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/29/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.0030	ND
Arsenic	0.010	0.001	ND	0.001	0.065	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND
Barium	2.0	0.001	0.046	0.001	0.071	0.001	0.054	0.001	0.054	0.001	0.058	0.001	0.066	0.001	0.077	0.001	0.061	0.0025	0.089
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND
Boron	2.0	0.01	0.79	0.01	0.79	0.01	0.77	0.01	0.82	0.01	0.74	0.01	0.65	0.01	0.66	0.01	0.66	0.050	0.70
Cadmium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.00050	ND
Chloride	200.0	10	89	25	160	25	140	10	82	50	100	50	150	25	170	50	110	10	92
Chromium	0.1	0.004	ND	0.004	0.0066	0.004	ND	0.004	ND	0.004	ND	0.004	0.0058	0.0030	0.0049	0.004	0.0053	0.0050	ND
Cobalt	1.0	0.002	ND	0.002	0.0027	0.002	0.0022	0.002	ND	0.002	ND	0.002	0.002	0.0030	ND	0.002	ND	0.0010	0.0022
Copper	0.65	0.003	ND	0.003	0.0036	0.003	0.0061	0.003	ND	0.003	0.0031	0.003	ND	0.010	ND	0.003	ND	0.0020	ND
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
Fluoride	4.0	0.25	0.43	0.25	0.25	0.25	ND	0.25	ND	0.25	ND	0.25	0.32	0.25	0.32	0.25	ND	0.10	0.23
Iron	5.0	0.010	0.046	0.010	0.082	0.010	0.036	0.010	ND	0.010	ND	0.010	ND	0.010	0.43	0.01	0.052	0.10	0.20
Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0050	ND	0.001	ND	0.0050	ND
Manganese	0.15	0.003	0.48	0.001	0.64	0.001	0.5	0.001	0.26	0.001	0.41	0.001	1	0.40	0.59	0.001	0.21	0.0025	0.67
Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND
Nickel	0.1	0.005	0.0077	0.005	0.014	0.005	0.014	0.005	0.008	0.005	0.0095	0.005	0.013	0.010	ND	0.005	0.009	0.0020	0.0055
Nitrogen/Nitrate	10.0	0.02	0.08	0.02	ND	0.02	ND	0.02	1.6	0.02	0.04	0.02	0.04	0.02	0.04	0.02	0.19	0.10	ND
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
Nitrogen/Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0040	ND
pH	6.5 - 9.0	NA	7.29	NA	7.05	NA	6.34	NA	7.14	NA	7.00	NA	6.94	NA	6.94	NA	8.01	NA	6.87
Selenium	0.05	0.001	ND	0.001	0.0045	0.001	0.0023	0.001	0.0028	0.001	0.0033	0.001	0.0031	0.0050	ND	0.001	0.0029	0.0025	ND
Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.00050	ND
Sulfate	400.0	25	110	25	250	25	170	25	120	50	130	50	200	25	200	50	180	100	310
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	1,200	17	640	17	890	17	820	17	590	17	700	17	890	26	840	26	790	10	990
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND
BTEX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND
Temperature	NA	NA	15.83	NA	15.80	NA	15.64	NA	17.03	NA	16.99	NA	16.03	NA	14.38	NA	14.50	NA	16.36
Conductivity	NA	NA	1.00	NA	1.21	NA	1.10	NA	0.85	NA	0.94	NA	1.19	NA	1.17	NA	1.17	NA	1.14
Dissolved Oxygen	NA	NA	0.07	NA	0.06	NA	0.06	NA	0.05	NA	0.07	NA	0.01	NA	0.46	NA	0.40	NA	0.28
ORP	NA	NA	70.5	NA	-27.4	NA	-26	NA	237	NA	128	NA	152	NA	30	NA	99.2	NA	-50.9

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 630, Subpart D, Section 630.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater. All values are in mg/L (ppm) unless otherwise noted.

DL - Detection Limit  
 NA - Not Applicable  
 ND - Not Detected  
 NR - Not Measured

NR - Not Required  
 NS - Not Sampled  
 \* - Denotes instrument related QC exceeds the control limit

Temperature: °C  
 Conductivity: µm/cm  
 Dissolved Oxygen: mg/L  
 Oxygen Reduction Potential (ORP): mV



Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Parameter	Standards	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/29/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.0050	ND	0.003	ND	0.0030	ND
Arsenic	0.010	0.001	0.0029	0.001	0.0031	0.001	0.0036	0.001	0.002	0.001	0.0021	0.001	0.0022	0.0050	ND	0.001	0.0017	0.0010	0.0027
Baryllium	2.0	0.001	0.1	0.001	0.1	0.001	0.12	0.001	0.097	0.001	0.12	0.001	0.11	0.040	0.12	0.001	0.088	0.0025	0.12
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0010	ND <sup>A</sup>
Boron	2.0	0.01	0.43	0.01	0.61	0.01	0.63	0.01	0.39	0.01	0.46	0.01	0.57	0.40	0.45	0.01	0.39	0.050	1.0
Calcium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.00050	ND
Chloride	200.0	50	160	50	210	50	150	50	150	50	200	50	190	50	240	50	200	10	99
Chromium	0.1	0.004	0.0045	0.004	0.0085	0.004	0.0056	0.004	ND	0.004	0.0054	0.004	0.0072	0.0030	0.0077	0.004	ND	0.0050	ND
Cobalt	1.0	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.0030	ND	0.002	ND	0.0010	ND
Copper	0.65	0.003	0.0032	0.003	0.0042	0.003	ND	0.003	0.16	0.003	ND	0.003	ND	0.010	ND	0.003	ND	0.0020	ND
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
Fluoride	4.0	0.25	0.63	0.25	0.64	0.25	0.50	0.25	0.47	0.25	0.37	0.25	0.48	0.25	0.42	0.25	0.25	0.10	0.36
Iron	5.0	0.010	1.7	0.010	1.8	0.010	1.9	0.010	1.7	0.010	1.9	0.010	1.9	0.010	1.6	0.01	1.1	0.10	1.8
Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0050	ND	0.001	ND	0.00050	ND
Manganese	0.15	0.001	0.63	0.001	0.66	0.001	0.63	0.001	0.61	0.001	0.71	0.001	0.64	0.040	0.61	0.001	0.5	0.0025	1.3
Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND	0.0002	ND	0.00020	ND
Nickel	0.1	0.005	0.0078	0.005	0.0099	0.005	0.0089	0.005	ND	0.005	0.0095	0.005	0.011	0.010	ND	0.005	0.0062	0.0020	ND
Nitrogen/Nitrate	10.0	0.02	ND	0.02	0.04	0.02	0.06	0.02	ND	0.02	ND	0.02	0.04	0.02	0.06	0.02	0.02	0.10	ND
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	ND
Nitrogen/Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	ND
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
pH	6.5 - 9.0	NA	7.62	NA	7.61	NA	7.35	NA	7.68	NA	7.59	NA	7.73	NA	7.68	NA	9.30	NA	7.23
Selenium	0.05	0.001	ND	0.001	0.0025	0.001	0.0033	0.001	ND	0.001	0.0013	0.001	0.0023	0.0050	ND	0.001	0.0025	0.0030	0.0030
Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.00050	ND
Sulfate	400.0	50	280	50	260	50	170	50	250	50	450	50	340	50	440	50	320	130	560
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	1,200	17	1,100	17	970	17	1,000	17	1,100	17	1,300	17	1,200	26	1,200	26	1,100	10	1,400
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0080	ND	0.005	ND	0.0050	ND
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	0.049	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	ND
Temperature	NA	NA	18.99	NA	22.40	NA	22.76	NA	20.99	NA	19.83	NA	20.30	NA	20.07	NA	14.40	NA	16.14
Conductivity	NA	NA	1.68	NA	1.56	NA	1.61	NA	1.54	NA	1.65	NA	1.69	NA	1.75	NA	1.49	NA	1.47
Dissolved Oxygen	NA	NA	0.08	NA	0.10	NA	0.08	NA	0.03	NA	0.23	NA	0.02	NA	0.41	NA	0.18	NA	0.45
ORP	NA	NA	-161.9	NA	-236	NA	-196	NA	-176	NA	-169	NA	-183	NA	-160	NA	-85.8	NA	-97.1

Notes: Standards obtained from IAL, Title 15, Chapter I, Part 620, Subpart D, Section 630.310 - Groundwater Quality Standards for Class I Potable Resource Groundwater. All values are in mg/L (ppm) unless otherwise noted.

DL - Detection Limit  
 NA - Not Applicable  
 ND - Not Detected  
 NR - Not Measured

NR - Not Required  
 NS - Not Sampled  
 \* - Denotes instrument related QC exceeds the control limits

Temperature  
 Conductivity  
 Dissolved Oxygen  
 Oxygen Reduction Potential (ORP)

degrees Celsius  
 mg/cm<sup>3</sup>  
 milligrams/liter  
 millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerion Station, Pekin, IL

Parameter	Standards	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/31/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.0030	ND
Arsenic	0.010	0.001	0.12	0.001	0.18	0.001	0.23	0.001	0.23	0.001	0.23	0.001	0.15	0.001	0.18	0.001	0.17	0.0010	0.12
Barium	2.0	0.001	0.57	0.001	0.57	0.001	0.59	0.001	0.57	0.001	0.57	0.001	0.44	0.001	0.46	0.001	0.44	0.0025	0.42
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND
Boron	2.0	0.012	0.43	0.01	0.38	0.01	0.34	0.01	0.35	0.01	0.35	0.01	0.41	0.01	0.36	0.40	0.41	0.050	0.52
Cadmium	0.005	0.001	0.0015	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.00050	ND
Chloride	200.0	25	140	25	130	10	81	25	99	25	130	25	130	25	150	50	160	10	180
Chromium	0.1	0.004	0.0061	0.004	0.011	0.004	ND	0.004	ND	0.004	0.004	0.004	0.0043	0.004	0.0030	0.004	0.017	0.0050	ND
Cobalt	1.0	0.002	0.007	0.002	0.0055	0.002	0.006	0.002	0.0067	0.002	0.011	0.002	0.011	0.002	0.0030	0.002	0.0075	0.0010	0.0059
Copper	0.65	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.0020	ND
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	0.0055	0.0050	ND	0.0050	ND	0.010	ND
Fluoride	4.0	0.25	0.58	0.25	0.94	0.25	0.47	0.25	0.54	0.25	0.38	0.25	0.38	0.25	0.35	0.25	0.25	0.10	0.47
Iron	5.0	0.010	10	0.010	22	0.010	26	0.010	31	0.010	10	0.010	10	0.010	18	0.01	27	0.10	15
Lead	0.0075	0.001	0.0014	0.001	ND	0.001	ND	0.001	ND	0.001	0.0013	0.001	0.0013	0.001	0.0050	0.001	ND	0.00050	ND
Manganese	0.15	0.001	6.4	0.001	12	0.001	12	0.001	11	0.001	9.3	0.001	8	0.040	6.7	0.001	9.5	0.025	5.7
Mercury	0.002	0.0002	0.00025	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND	0.0002	ND	0.00020	ND
Nickel	0.1	0.005	0.022	0.005	0.026	0.005	0.022	0.005	0.018	0.005	0.026	0.005	0.028	0.010	ND	0.005	0.014	0.0020	0.0063
Nitrogen-Nitrate	10.0	0.02	ND	0.02	0.31	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.06	0.10	ND
Nitrogen-Nitrite, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	ND
Nitrogen-Nitrite	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
Perchlorate	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0040	ND
pH	6.5 - 9.0	NA	6.78	NA	6.83	NA	6.45	NA	6.79	NA	6.91	NA	6.93	NA	6.97	NA	6.87	NA	6.69
Selenium	0.05	0.001	0.0025	0.001	0.0073	0.001	0.0054	0.001	0.0013	0.001	0.006	0.001	0.0047	0.0050	ND	0.001	0.0031	0.0025	0.0028
Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.00050	ND
Sulfate	400.0	10	25	1.0	9.1	1.0	3.3	1.0	3.0	1.0	18	1.0	25	10	43	10	36	25	120
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	1,200	17	1300	17	1300	17	1300	17	1400	17	1300	17	1300	26	1100	26	1200	10	1000
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0080	0.012	0.005	0.0051	0.0050	ND
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	0.011	0.006	ND	0.020	ND	0.006	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.005	ND	0.005	ND	0.00050	ND
BIETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.03	ND	0.03	ND	0.0025	ND
Temperature	NA	NA	18.51	NA	19.33	NA	16.43	NA	21.06	NA	19.19	NA	17.25	NA	16.64	NA	16.30	NA	17.12
Conductivity	NA	NA	2.02	NA	2.02	NA	1.90	NA	2.04	NA	1.84	NA	1.78	NA	1.63	NA	1.87	NA	1.42
Dissolved Oxygen	NA	NA	0.12	NA	0.34	NA	0.17	NA	0.13	NA	-0.02	NA	5.53	NA	2.86	NA	2.31	NA	0.50
ORP	NA	NA	-95.7	NA	-171	NA	-148	NA	-141	NA	-119	NA	-100	NA	-100	NA	-116.9	NA	-145.5

Notes: Standards obtained from IAC, Title 35, Chapter 1, Part 630.  
 Subject ID: S0016-020-110 - Groundwater Quality Standards  
 for Class 1 Potable Resource Groundwater  
 All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured

NR - Not Required  
 NS - Not Sampled  
 \* - Denotes instrument related QC exceeds the control limits.

Temperature °C  
 Conductivity µS/cm  
 Dissolved Oxygen mg/L  
 Oxygen Reduction Potential (ORP) mV

degrees Celsius  
 milligrams per liter  
 millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powertown Station, Pekin, IL

Parameter	Standards	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/30/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Arsimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND
Arsenic	0.010	0.001	0.0044	0.001	0.0036	0.001	0.0032	0.001	0.0038	0.001	0.0038	0.001	0.0041	0.001	0.0050	0.001	0.0052	0.001	0.0036
Barium	2.0	0.001	0.11	0.001	0.13	0.001	0.14	0.001	0.14	0.001	0.14	0.001	0.14	0.001	0.040	0.001	0.14	0.0025	0.14
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND
Boron	2.0	0.012	0.64	0.01	0.82	0.01	0.82	0.01	0.57	0.01	0.57	0.01	1	0.40	0.93	0.01	1.1	0.050	0.91
Cadmium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND
Chloride	200.0	50	140	50	210	50	190	50	170	50	200	50	210	50	230	50	200	10	230
Chromium	0.1	0.004	0.0059	0.004	0.0084	0.004	0.0053	0.004	ND	0.004	0.0056	0.004	0.0066	0.0030	0.012	0.004	0.0046	0.0050	ND
Cobalt	1.0	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.0030	ND	0.002	ND	0.0010	ND
Copper	0.65	0.003	0.0036	0.003	0.0037	0.003	0.01	0.003	ND	0.003	ND	0.003	0.0032	0.010	ND	0.003	ND	0.0020	ND
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
Fluoride	4.0	0.25	0.81	0.25	0.84	0.25	0.75	0.25	0.70	0.25	0.63	0.25	0.53	0.25	0.63	0.25	0.28	0.10	0.74
Iron	5.0	0.010	1.7	0.010	0.97	0.010	0.94	0.010	2.3	0.010	1.2	0.010	1.3	0.010	2.1	0.01	6.5	0.10	2.3
Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0050	ND	0.001	ND	0.0050	ND
Manganese	0.15	0.001	0.29	0.001	0.18	0.001	0.2	0.001	0.27	0.001	0.2	0.001	0.2	0.0020	0.23	0.001	0.43	0.0025	0.25
Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND	0.0002	ND	0.00020	ND
Nickel	0.1	0.005	0.0076	0.005	0.007	0.005	0.009	0.005	0.0054	0.005	0.0075	0.005	0.009	0.010	ND	0.005	0.0057	0.0020	ND
Nitrogen Nitrate	10.0	0.02	0.10	1.0	1.6	0.02	ND	0.02	ND	0.02	ND	0.02	ND	0.02	ND	0.02	ND	0.10	ND
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	NR
Nitrogen/Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	NR
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0040	NR
pH	6.5 - 9.0	NA	7.66	NA	8.24	NA	7.87	NA	7.97	NA	8.20	NA	8.23	NA	8.09	NA	7.72	NA	7.81
Selenium	0.05	0.001	ND	0.001	0.0031	0.001	0.0036	0.001	0.0018	0.001	0.0018	0.001	ND	0.0050	ND	0.001	0.002	0.0025	0.0029
Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.00050	ND
Sulfate	400.0	50	140	50	200	50	200	50	300	50	440	50	330	50	360	50	330	100	460
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	1,200	17	970	17	940	17	990	17	1200	17	1200	17	1200	26	1200	26	1100	10	1300
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	NR
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.00050	NR
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	NR
Temperature	NA	NA	18.82	NA	17.95	NA	19.20	NA	19.73	NA	18.28	NA	19.15	NA	18.34	NA	17.10	NA	18.11
Conductivity	NA	NA	1.61	NA	1.40	NA	1.47	NA	1.57	NA	1.65	NA	1.79	NA	1.82	NA	1.78	NA	1.55
Dissolved Oxygen	NA	NA	0.08	NA	0.05	NA	0.03	NA	0.03	NA	0.06	NA	0.09	NA	0.64	NA	0.33	NA	0.32
ORP	NA	NA	-181.5	NA	-271	NA	-238	NA	-222	NA	-228	NA	-231	NA	-210	NA	-183.8	NA	-225.9

Notes: Standards obtained from IAC Title 35, Chapter I, Part 630, Subpart D, Section 630.410 - Groundwater Quality Standards for Class I Potable Resources (groundwater). All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured

NR - Not Required  
 NS - Not Sampled  
 \* - Denotes instrument related QC exceeds the control limits

Temperature  
 Conductivity  
 Dissolved Oxygen  
 Oxygen Reduction Potential (ORP)

°C  
 mg/cm<sup>3</sup>  
 mg/L  
 millivolts

degrees Celsius  
 milligrams per liter  
 millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Parameter	Standards	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/22/2012		2/27/2013		5/30/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.0050	0.003	0.003	ND	0.0030	ND
Arsenic	0.010	0.001	0.0017	0.001	ND	0.0012	0.001	ND	0.001	0.0017	0.001	ND	0.0013	0.0050	0.001	0.0013	0.0010	0.0030	ND
Barium	2.0	0.001	0.038	0.001	0.03	0.001	0.038	0.001	0.038	0.001	0.038	0.001	0.038	0.040	0.001	0.049	0.0025	0.0025	0.042
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	0.001	0.001	0.0010	0.0010	ND
Boron	2.0	0.012	1.9	0.01	2.5	0.01	2.7	0.01	2.6	0.01	2.6	0.01	2.9	1.0	0.01	4.3	0.050	3.2	3.2
Calcium	200.0	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	0.001	0.001	0.0050	0.0050	ND
Chloride		10	28	10	30	25	30	10	30	10	27	10	28	10	31	10	27	2.0	29
Chromium	0.1	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.0030	0.004	0.0046	0.0050	0.0050	ND
Cobalt	1.0	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.0030	0.002	0.002	0.0010	0.0010	ND
Copper	0.65	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.010	0.003	0.003	0.0020	0.0020	ND
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	0.005	0.005	0.010	0.010	ND
Fluoride	4.0	0.25	0.34	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.10	0.21	0.21
Iron	5.0	0.010	ND	0.010	ND	0.010	ND	0.010	0.014	0.010	ND	0.010	ND	0.010	0.01	0.024	0.10	0.10	ND
Lead	0.0075	0.004	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0050	0.001	0.001	0.0050	0.0050	ND
Manganese	0.15	0.001	0.48	0.001	0.14	0.001	0.28	0.001	0.22	0.001	0.34	0.001	0.11	0.0020	0.001	0.019	0.0025	0.0025	0.053
Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	0.0002	0.0002	0.00020	0.00020	ND
Nickel	0.1	0.005	0.0063	0.005	0.0065	0.005	0.0088	0.005	0.005	0.005	0.005	0.005	0.0067	0.010	0.005	0.005	0.0020	0.0020	ND
Nitrogen/Nitrate	10.0	0.20	5.6	0.20	3.7	0.50	2.6	0.20	3.0	0.20	2.8	0.20	6.3	0.20	10	0.2	12	0.10	11
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1.0	1.1
Nitrogen/Nitrite	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	0.020	ND
Perchlorate	6.5 - 9.0	NA	7.10	NA	7.32	NA	6.31	NA	7.28	NA	7.30	NA	7.18	NA	7.10	NA	8.00	NA	7.21
pH	0.05	0.001	0.0017	0.001	0.0043	0.001	0.0041	0.001	0.0072	0.001	0.0047	0.001	0.0044	0.0050	0.001	0.015	0.0025	0.016	0.016
Selenium	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	0.005	0.005	0.00050	0.00050	ND
Sulfate	400.0	25	110	25	130	25	110	25	120	50	130	25	120	25	50	140	50	140	140
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	0.001	0.001	0.0020	0.0020	ND
Total Dissolved Solids	1,200	17	540	17	500	17	520	17	530	17	520	17	580	26	560	26	520	10	600
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0080	0.005	0.005	0.0050	0.0050	ND
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.020	0.006	0.006	0.020	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.005	0.005	0.005	0.00050	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.03	0.03	0.03	0.0025	0.0025	ND
Temperature	NA	NA	14.51	NA	14.08	NA	14.56	NA	18.11	NA	15.72	NA	16.55	NA	13.91	NA	16.40	NA	17.38
Conductivity	NA	NA	0.84	NA	0.66	NA	0.66	NA	0.73	NA	0.67	NA	0.72	NA	0.77	NA	0.82	NA	0.72
Dissolved Oxygen	NA	NA	0.49	NA	0.16	NA	0.08	NA	0.07	NA	0.11	NA	0.56	NA	1.10	NA	0.87	NA	0.64
ORP	NA	NA	148.2	NA	-268	NA	20	NA	68	NA	-47	NA	168	NA	210	NA	77.2	NA	-68.3

Notes: Standards obtained from IAC Title 35, Chapter 1, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class 1 Potable Resource Groundwater. All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured

NR - Not Required  
 NS - Not Sampled  
 - Denotes instrument related QC exceed the control limits

Temperature  
 Conductivity  
 Dissolved Oxygen  
 (Oxygen Reduction Potential (ORP))

degrees Celsius  
 micromhos centimeters  
 milligrams per liter  
 millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powertron Station, Pekin, IL

Parameter	Standards	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/29/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND
Arsenic	0.010	0.001	0.0015	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0015	0.0014	0.0050	ND	0.001	0.001	0.0010	0.0012
Barium	2.0	0.001	0.36	0.001	0.26	0.001	0.26	0.001	0.26	0.001	0.26	0.001	0.23	0.040	0.24	0.001	0.22	0.0025	0.30
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0010	ND*
Boron	2.0	0.012	0.52	0.01	0.42	0.01	0.57	0.01	0.54	0.01	0.54	0.01	0.42	0.40	0.46	0.01	0.64	0.050	0.98
Cadmium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0050	ND
Chloride	200.0	10	43	10	49	10	42	10	45	10	46	10	45	10	45	10	37	2.0	41
Chromium	0.1	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.0030	0.0048	0.004	0.0064	0.0050	0.0061
Cobalt	1.0	0.002	0.0039	0.002	0.0025	0.002	0.0026	0.002	0.0024	0.002	0.0029	0.002	0.0029	0.0030	ND	0.002	0.0021	0.0010	0.012
Copper	0.65	0.003	ND	0.003	ND	0.003	0.0041	0.003	ND	0.003	ND	0.003	ND	0.010	ND	0.003	ND	0.0020	0.028
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
Fluoride	4.0	0.25	0.36	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	0.28	0.25	ND	0.10	0.18
Iron	5.0	0.010	0.044	0.010	ND	0.010	ND	0.010	ND	0.010	0.015	0.010	0.012	0.010	0.016	0.01	ND	0.10	2.7
Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0050	ND	0.001	ND	0.0050	0.012
Manganese	0.15	0.001	3.8	0.001	2.3	0.001	2.3	0.001	2.3	0.001	2.6	0.001	2.5	0.040	2.2	0.001	1.9	0.0025	3.2
Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND	0.0002	ND	0.00020	ND
Nickel	0.1	0.005	0.015	0.005	0.01	0.005	0.013	0.005	0.0091	0.005	0.0093	0.005	0.014	0.010	ND	0.005	0.0079	0.0020	0.023
Nitrogen/Nitrate	10.0	0.20	2.1	0.20	4.5	0.20	4.9	0.20	6.0	0.20	2.9	0.20	5.2	0.20	4.8	0.2	3.3	0.10	1.9
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.20	1.9
Nitrogen/Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0040	ND
pH	6.5-9.0	NA	6.88	NA	7.04	NA	6.03	NA	7.03	NA	6.95	NA	6.96	NA	7.03	NA	8.39	NA	6.87
Selenium	0.05	0.001	0.0043	0.001	0.0057	0.001	0.0065	0.001	0.0056	0.001	0.0056	0.001	0.0058	0.0050	0.0074	0.001	0.0083	0.0025	0.0043
Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.0050	ND
Sulfate	400.0	10	67	10	64	10	72	10	76	10	63	10	58	10	59	10	69	25	92
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	1,200	17	650	17	470	17	540	17	530	17	550	17	580	26	420	26	440	10	580
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0080	ND	0.005	ND	0.0050	0.012
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.005	ND	0.005	ND	0.0050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.03	ND	0.03	ND	0.0025	ND
Temperature	NA	NA	14.25	NA	11.76	NA	11.05	NA	14.51	NA	13.49	NA	12.84	NA	11.87	NA	11.60	NA	14.99
Conductivity	NA	NA	1.04	NA	0.62	NA	0.65	NA	0.71	NA	0.67	NA	0.67	NA	0.60	NA	0.70	NA	0.69
Dissolved Oxygen	NA	NA	0.08	NA	0.02	NA	0.04	NA	0.02	NA	0.04	NA	0.10	NA	2.07	NA	0.49	NA	0.39
ORP	NA	NA	132.3	NA	-297	NA	23	NA	118	NA	67	NA	107	NA	60	NA	33.2	NA	63.9

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource (groundwater). All values are in mg/L (ppm) unless otherwise noted.

DL - Detection Limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured

NR - Not Required  
 NS - Not Sampled  
 \* - Denotes instrument related QC exceeds the control limits

Temperature Conductivity  
 °C micromhos/cm  
 Dissolved Oxygen  
 mg/L  
 Oxygen Reduction Potential (ORP)  
 millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powertron Station, Pekin, IL

Parameter	Standards	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/30/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Arsimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND
Arsenic	0.010	0.001	0.0019	0.001	0.0016	0.001	0.0019	0.001	0.0021	0.001	0.0032	0.001	0.0038	0.001	0.0050	0.001	0.045	0.001	0.028
Barium	2.0	0.001	0.18	0.001	0.11	0.001	0.11	0.001	0.13	0.001	0.17	0.001	0.22	0.001	0.20	0.001	0.2	0.001	0.15
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	0.0010	0.001	ND	0.0010	ND
Boron	2.0	0.012	1.6	0.01	1.5	0.01	1.8	0.01	2.3	0.01	1.9	0.01	2.6	0.01	2.0	0.01	1.4	0.01	1.3
Calcium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	0.0010	0.001	ND	0.0010	ND
Chloride	200.0	50	120	50	53	50	87	50	54	25	150	10	52	50	83	10	84	10	79
Chromium	0.1	0.004	ND	0.004	ND	0.004	ND	0.004	ND	0.004	0.0051	0.004	ND	0.0030	0.0030	0.004	0.0099	0.004	ND
Cobalt	1.0	0.002	0.0024	0.002	ND	0.002	ND	0.002	0.0024	0.002	0.0039	0.002	0.0049	0.0030	0.0041	0.002	0.0028	0.002	0.0020
Copper	0.65	0.003	0.0043	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	0.0049	0.010	ND	0.003	ND	0.003	ND
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.005	ND
Fluoride	4.0	0.25	0.67	0.25	0.58	0.25	0.44	0.25	0.42	0.25	0.32	0.25	0.56	0.25	0.64	0.25	0.43	0.10	0.79
Iron	5.0	0.010	0.029	0.010	0.018	0.010	ND	0.010	ND	0.010	0.056	0.010	2.0	0.010	0.7	0.01	2.4	0.10	3.1
Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	0.0023	0.0050	ND	0.001	ND	0.0010	ND
Manganese	0.15	0.001	2.9	0.001	2.2	0.001	2.5	0.001	2.9	0.001	3.7	0.001	4.7	0.20	12	0.001	11	0.025	7.5
Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND	0.0002	ND	0.00020	ND
Nickel	0.1	0.005	0.013	0.005	0.011	0.005	0.013	0.005	0.011	0.005	0.013	0.005	0.017	0.010	ND	0.005	0.0088	0.005	0.0026
Nitrogen Nitrate	10.0	0.02	0.04	0.02	0.74	0.02	1.5	0.02	0.39	0.02	ND	0.20	4.6	0.02	0.39	0.02	0.33	0.10	1.1
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nitrogen/Nitrite	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Perchlorate	6.5 - 9.0	NA	7.02	NA	7.31	NA	6.48	NA	7.32	NA	7.15	NA	7.30	NA	7.38	NA	8.27	NA	6.99
pH	0.05	0.001	0.0018	0.001	0.004	0.001	0.0031	0.001	0.0039	0.001	0.0039	0.001	0.004	0.0050	ND	0.001	0.0014	0.0025	ND
Selenium	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.0050	ND
Sulfate	400.0	50	210	25	140	50	160	50	130	100	320	25	170	50	200	50	150	50	240
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	1,200	17	930	17	620	17	730	17	740	17	1000	17	760	26	970	26	840	10	850
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	0.0073	0.020	ND	0.006	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Temperature	NA	NA	17.58	NA	14.67	NA	13.85	NA	16.31	NA	15.74	NA	17.90	NA	13.95	NA	14.20	NA	17.00
Conductivity	NA	NA	1.44	NA	0.85	NA	0.89	NA	0.98	NA	1.26	NA	0.96	NA	1.22	NA	1.30	NA	1.19
Dissolved Oxygen	NA	NA	NM	NA	NM	NA	NM	NA	NM	NA	3.73	NA	5.16	NA	2.54	NA	3.55	NA	0.28
ORP	NA	NA	NM	NA	NM	NA	NM	NA	NM	NA	0.47	NA	43	NA	-60	NA	-113.2	NA	-147.5

Notes: Standards obtained from IAC, Title 35, Chapter 1, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater  
 All values are in mg/L (ppm) unless otherwise noted.  
 DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured  
 NR - Not Required  
 NS - Not Sampled  
 \* - Denotes instrument related QC exceeds the control limits  
 °C - degrees Celsius  
 ms/cm<sup>2</sup> - millisiemens/centimeters  
 mg/L - milligrams/liter  
 mV - millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Parameter	Standards	6/16/2011		9/19/2011		12/12/2011		3/19/2012		6/25/2012		9/18/2012		12/12/2012		2/27/2013		5/30/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Ammonium	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND
Arsenic	0.010	0.001	0.0064	0.001	0.0087	0.001	0.0089	0.001	0.0042	0.001	0.014	0.001	0.011	0.0050	0.022	0.001	0.0066	0.0010	0.0031
Barium	2.0	0.001	0.091	0.001	0.085	0.001	0.09	0.001	0.071	0.001	0.12	0.001	0.11	0.040	0.1	0.001	0.1	0.0025	0.091
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0010	ND <sup>A</sup>
Boron	2.0	0.012	1.3	0.01	1.2	0.01	1.3	0.01	0.92	0.01	1.2	0.01	1.1	0.40	0.85	0.01	1.1	0.050	3.7
Cadmium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.00050	ND
Chloride	200.0	50	180	50	190	50	210	50	170	50	190	50	170	50	210	50	190	10	200
Chromium	0.1	0.004	0.0044	0.004	0.0071	0.004	0.0047	0.004	0.004	0.004	0.0043	0.004	0.0045	0.0030	0.0079	0.004	0.0032	0.0050	ND
Cobalt	1.0	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.0030	ND	0.002	ND	0.0010	ND
Copper	0.65	0.003	0.0032	0.003	0.0036	0.003	0.0031	0.003	0.003	0.003	ND	0.003	ND	0.010	ND	0.003	ND	0.0020	ND
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
Fluoride	4.0	0.25	0.64	0.25	0.74	0.25	0.61	0.25	0.46	0.25	0.36	0.25	0.42	0.25	0.43	0.25	0.25	0.10	0.62
Iron	5.0	0.010	5.6	0.010	4.0	0.010	3.1	0.010	4.8	0.010	8.2	0.010	8.9	0.010	6.4	0.01	5.8	0.10	8.9
Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0050	ND	0.001	ND	0.00050	ND
Manganese	0.15	0.001	0.26	0.001	0.37	0.001	0.25	0.001	0.13	0.001	0.71	0.001	0.64	0.040	1.7	0.001	0.38	0.0025	0.24
Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND	0.0002	ND	0.00020	ND
Nickel	0.1	0.005	0.0072	0.005	0.0075	0.005	0.0091	0.005	0.0075	0.005	0.0082	0.005	0.012	0.010	ND	0.005	0.0065	0.0020	ND
Nitrogen/Nitrate	10.0	0.02	0.14	0.02	ND	0.02	ND	0.02	0.04	0.20	ND	0.02	0.03	0.02	ND	0.02	ND	0.10	ND
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	ND
Nitrogen/Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	ND
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
pH	6.5 - 9.0	NA	6.98	NA	7.66	NA	7.38	NA	7.22	NA	7.40	NA	7.50	NA	7.37	NA	8.36	NA	7.17
Selenium	0.05	0.001	ND	0.001	0.0023	0.001	0.0034	0.001	0.0043	0.001	0.0038	0.001	0.0016	0.0050	ND	0.001	0.002	0.0025	ND
Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.00050	ND
Sulfate	400.0	50	350	50	360	50	300	50	310	50	430	50	370	50	300	50	350	100	410
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	1,200	17	1100	17	970	17	970	17	1000	17	1200	17	1200	26	1100	26	1000	10	1200
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0080	ND	0.005	ND	0.0050	ND
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.005	ND	0.005	ND	0.00050	ND
HEX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.03	ND	0.03	ND	0.0025	ND
Temperature	NA	NA	18.77	NA	17.75	NA	17.78	NA	19.62	NA	19.07	NA	18.88	NA	17.51	NA	16.30	NA	21.42
Conductivity	NA	NA	1.63	NA	1.34	NA	1.38	NA	1.54	NA	1.63	NA	1.61	NA	1.48	NA	1.60	NA	1.63
Dissolved Oxygen	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.06	NA	0.11	NA	1.70	NA	0.35	NA	1.04
ORP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-1.68	NA	-1.57	NA	-1.30	NA	-1.41.2	NA	-1.46.5

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for CUSE (1) Potable Resource Groundwater  
 All values are in mg/L (ppm) unless otherwise noted.  
 DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured  
 NR - Not Required  
 NS - Not Sampled  
 - Denotes instrument related QC exceeds the control limits  
 °C - degrees Celsius  
 ms/cm² - millisiemens-centimeters  
 mg/L - milligrams-liter  
 mV - millivolts  
 Temperature Conductivity  
 Dissolved Oxygen  
 Oxygen Reduction Potential (ORP)

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Sample: MW-13 Parameter	Standards	4/25/2011		6/16/2011		8/9/2011		10/13/2011		12/12/2011		4/10/2012		12/14/2012		2/28/2013		5/30/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND
Arsenic	0.010	0.001	0.0063	0.001	0.0057	0.001	0.0048	0.001	0.0066	0.001	0.023	0.001	0.027	0.003	0.041	0.001	0.029	0.001	0.031
Barium	2.0	0.001	0.073	0.001	0.059	0.001	0.046	0.001	0.083	0.001	0.21	0.001	0.14	0.002	0.3	0.001	0.19	0.001	0.23
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND
Boron	2.0	0.01	2.6	0.012	3	0.01	2.7	0.01	3	0.01	4.1	0.01	4	1.0	3.6	0.01	4.2	0.050	1.6
Cadmium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.00050	ND
Chloride	200.0	25	100	25	86	25	110	25	110	100	180	50	170	50	210	50	170	10	190
Chromium	0.1	0.004	0.0045	0.004	ND	0.004	ND	0.004	ND	0.004	0.0055	0.004	0.0055	0.0030	0.011	0.004	0.0057	0.0050	ND
Cobalt	1.0	0.002	0.0023	0.002	0.0022	0.002	0.0031	0.002	0.003	0.002	ND	0.002	ND	0.0030	0.011	0.002	0.0037	0.0010	ND
Copper	0.65	0.003	0.0041	0.003	0.004	0.003	0.004	0.003	0.0055	0.003	0.0066	0.003	0.0068	0.010	ND	0.003	0.0037	0.0020	ND
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
Fluoride	4.0	0.25	0.31	0.25	0.44	0.25	0.38	0.25	0.30	0.25	ND	0.25	0.32	0.25	ND	0.25	ND	0.10	0.39
Iron	5.0	0.010	0.077	0.010	ND	0.010	0.043	0.010	ND	0.010	0.11	0.010	0.20	0.010	0.066	0.01	0.28	0.10	1.3
Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.00050	ND
Manganese	0.15	0.001	2.7	0.001	2.9	0.001	2.6	0.001	3.6	0.001	3.5	0.001	3.5	0.0020	3.7	0.001	3.5	0.0025	3.8
Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND	0.0002	ND	0.00020	ND
Nickel	0.1	0.005	0.021	0.005	0.018	0.005	0.016	0.005	0.015	0.005	0.022	0.005	0.02	0.010	ND	0.005	0.011	0.0020	ND
Nitrogen Nitrate	10.0	0.02	1.8	0.20	2.2	0.50	3.6	0.02	1.6	0.02	0.07	0.02	0.06	0.02	ND	0.02	ND	0.10	ND
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nitrogen/Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Perechlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH	6.5-9.0	NA	7.26	NA	6.75	NA	7.13	NA	7.31	NA	7.19	NA	8.49	NA	7.92	NA	8.26	NA	7.65
Selenium	0.05	0.001	0.0045	0.001	0.0029	0.001	0.0056	0.001	0.004	0.001	0.0036	0.001	0.0037	0.0050	ND	0.001	0.0025	0.0025	0.010
Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.00050	ND
Sulfate	400.0	250	580	100	540	100	440	250	660	250	1100	500	1100	500	1100	250	730	250	880
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	1,200	17	1,400	17	1,300	17	1,100	17	1,500	17	2,100	17	2,300	26	1,900	26	1,600	10	2,000
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	0.06	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Temperature	NA	NA	14.40	NA	16.84	NA	15.92	NA	14.87	NA	13.78	NA	14.90	NA	14.88	NA	14.00	NA	18.10
Conductivity	NA	NA	1.92	NA	1.79	NA	1.63	NA	1.59	NA	2.33	NA	2.89	NA	2.15	NA	2.05	NA	2.12
Dissolved Oxygen	NA	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	3.54	NA	1.69	NA	1.16
ORP	NA	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	-30	NA	134	NA	-177.9

Notes: Standards obtained from IAL, Title 35, Chapter 1, Part 620, Subpart D, Section 620.10 - Groundwater Quality Standards for Class I Possible Resource Groundwater. All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured

NR - Not Required  
 NS - Not Sampled  
 \* - Denotes instrument related QC exceeds the control limits

Temperature  
 °C  
 Conductivity  
 µS/cm  
 Dissolved Oxygen  
 mg/L  
 Oxygen Reduction Potential (ORP)  
 mV

Degrees Celsius  
 milliequivalents-centimeters  
 milligrams/liter  
 millivolts



Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Sample: MW-14	Parameter	Standards	4/25/2011		6/16/2011		8/9/2011		10/13/2011		12/12/2011		4/10/2012		12/14/2012		2/27/2013		5/30/2013	
			DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
	Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND
	Arsenic	0.010	0.001	0.0084	0.001	0.0062	0.001	0.0062	0.001	0.015	0.001	0.0033	0.001	0.0039	0.0050	0.0053	0.001	0.0066	0.0010	0.0023
	Barium	2.0	0.001	0.036	0.001	0.041	0.001	0.041	0.001	0.04	0.001	0.045	0.001	0.045	0.0020	0.038	0.001	0.032	0.0025	0.053
	Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0010	ND*
	Boron	2.0	0.01	1.9	0.01	1.8	0.01	1.8	0.01	1.9	0.01	1.9	0.01	1.8	2.0	ND	0.01	1.9	0.050	1.7
	Cadmium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.00030	0.00060
	Chloride	200.0	25	160	50	160	25	240	100	200	100	200	50	190	50	190	25	92	10	160
	Chromium	0.1	0.004	0.0078	0.004	0.0049	0.004	0.0076	0.004	0.0096	0.004	0.0065	0.004	0.0057	0.0030	0.018	0.004	0.0095	0.0050	ND
	Cobalt	1.0	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.0030	ND	0.002	ND	0.0010	ND
	Copper	0.65	0.003	0.0074	0.003	0.0071	0.003	0.0064	0.003	0.0055	0.003	0.025	0.003	0.0067	0.010	ND	0.003	0.003	0.0020	ND
	Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
	Fluoride	4.0	0.25	1.1	0.25	1.3	0.25	1.4	0.25	0.88	0.25	1.1	0.25	1.0	0.25	1.2	0.25	0.29	0.10	1.1
	Iron	5.0	0.010	0.36	0.010	0.30	0.010	0.71	0.010	2.0	0.010	0.12	0.010	0.77	0.010	0.012	0.01	0.02	0.10	ND
	Lead	0.0075	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	0.001	0.0035	0.0030	0.001	ND	0.00050	ND
	Manganese	0.15	0.001	0.29	0.001	0.36	0.001	0.57	0.001	0.84	0.001	0.067	0.001	0.63	0.0020	0.11	0.001	0.12	0.0025	0.72
	Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND	0.0002	ND	0.00020	ND
	Nickel	0.1	0.005	0.02	0.005	0.016	0.005	0.016	0.005	0.011	0.005	0.015	0.005	0.018	0.010	ND	0.005	0.0094	0.0020	0.0027
	Nitrogen Nitrate	10.0	0.02	1.0	0.02	0.27	0.02	0.05	0.02	ND	0.02	0.33	0.02	0.31	0.02	0.32	0.2	3.5	0.10	ND
	Nitrogen Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.10	ND
	Nitrogen Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.030	ND
	Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0040	ND
	pH	6.5 - 9.0	NA	7.27	NA	7.15	NA	7.08	NA	7.40	NA	6.05	NA	8.35	NA	7.13	NA	8.21	NA	7.03
	Selenium	0.05	0.001	0.065	0.001	0.0035	0.001	0.003	0.001	0.0017	0.001	0.0037	0.001	0.022	0.0050	0.0055	0.001	0.15	0.0025	ND
	Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.00050	ND
	Sulfate	400.0	250	770	250	810	250	940	100	850	100	880	250	990	500	810	100	390	250	800
	Thallium	0.002	0.001	0.0035	0.001	0.0039	0.001	0.0027	0.001	0.0016	0.001	0.0016	0.001	0.0034	0.0010	0.0025	0.001	0.0043	0.0020	0.0025
	Total Dissolved Solids	1,200	17	1800	17	1900	17	2000	17	1800	17	1800	17	2200	26	1700	26	1300	10	2000
	Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0080	0.010	0.005	0.007	0.0050	ND
	Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	0.0084	0.020	ND	0.006	ND	0.020	ND
	Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.005	ND	0.005	ND	0.00050	ND
	BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.03	ND	0.03	ND	0.0025	ND
	Temperature	NA	NA	16.04	NA	17.94	NA	18.65	NA	16.54	NA	14.74	NA	15.10	NA	15.06	NA	14.50	NA	17.22
	Conductivity	NA	NA	2.44	NA	2.60	NA	2.74	NA	2.07	NA	2.00	NA	2.92	NA	2.06	NA	1.72	NA	1.98
	Dissolved Oxygen	NA	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	2.00	NA	3.88	NA	0.72
	ORP	NA	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	80	NA	127	NA	5.9

Notes: Standards obtained from IALC Title 35, Chapter 1, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater  
 All values are in mg/L (ppm) unless otherwise noted.  
 DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured  
 NR - Not Required  
 NS - Not Sampled  
 -- Denotes instrument related QC exceeds the control limits  
 °C - degrees Celsius  
 ms/cm - millisiemens/centimeters  
 mg/L - milligrams/liter  
 mV - millivolts  
 Conductivity  
 Dissolved Oxygen  
 Oxygen Reduction Potential (ORP)

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Parameter	Standards	4/25/2011		6/16/2011		8/9/2011		10/13/2011		12/12/2011		4/10/2012		12/14/2012		2/28/2013		5/30/2013	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.003	ND	0.0030	ND
Arsenic	0.010	0.001	0.0064	0.001	0.0052	0.001	0.0053	0.001	0.011	0.001	0.0097	0.001	0.0061	0.0050	0.011	0.001	0.0078	0.0010	0.0037
Barium	2.0	0.001	0.061	0.001	0.11	0.001	0.057	0.001	0.06	0.001	0.063	0.001	0.075	0.0020	0.11	0.001	0.096	0.0025	0.11
Beryllium	0.004	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0010	ND
Boron	2.0	0.01	1.5	0.01	1.6	0.01	1.3	0.02	1.2	0.01	1.2	0.01	1.4	2.0	ND	0.01	1.7	0.050	1.5
Cadmium	0.005	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.00030	ND
Chloride	200.0	25	190	50	170	25	210	100	180	100	200	50	200	50	230	50	200	10	210
Chromium	0.1	0.004	0.0092	0.004	0.0054	0.004	0.0091	0.004	0.0062	0.004	0.0062	0.004	0.0071	0.0030	0.012	0.004	0.0062	0.0050	ND
Cobalt	1.0	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.0030	ND	0.002	ND	0.0010	ND
Copper	0.65	0.003	0.0039	0.003	0.005	0.003	0.0041	0.003	0.0037	0.003	0.0031	0.003	0.0039	0.010	ND	0.003	0.0036	0.0020	ND
Cyanide	0.2	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.005	ND	0.010	ND
Fluoride	4.0	0.25	0.60	0.25	0.73	0.25	0.76	0.25	0.77	0.25	0.75	0.25	0.79	0.25	0.95	0.25	0.29	0.10	0.65
Iron	5.0	0.010	2.1	0.010	0.70	0.010	2.1	0.040	2.6	0.010	2.1	0.010	1.1	0.010	1.9	0.01	1.5	0.10	0.83
Lead	0.0075	0.001	0.0012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0050	ND	0.001	0.0050	0.00050	ND
Manganese	0.15	0.001	0.36	0.001	0.6	0.001	0.37	0.001	0.48	0.001	0.39	0.001	0.25	0.0020	0.51	0.001	0.35	0.0025	0.27
Mercury	0.002	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.00020	ND	0.0002	ND	0.00020	ND
Nickel	0.1	0.005	0.012	0.005	0.015	0.005	0.01	0.005	0.011	0.005	0.011	0.005	0.01	0.010	ND	0.005	0.0079	0.0020	0.0072
Nitrogen/Nitrate	10.0	0.02	0.04	0.02	0.07	0.02	0.05	0.02	0.07	0.02	0.07	0.02	0.12	0.02	0.12	0.02	0.02	0.10	ND
Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
Nitrogen/Nitrite	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.020	ND
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.040	ND
pH	6.5 - 9.0	NA	7.06	NA	6.79	NA	6.89	NA	7.37	NA	6.84	NA	8.23	NA	7.30	NA	8.09	NA	6.71
Selenium	0.05	0.001	0.017	0.001	0.004	0.001	0.002	0.001	0.004	0.001	0.0047	0.001	0.025	0.0050	ND	0.001	0.0024	0.0025	0.0065
Silver	0.05	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	0.010	ND	0.005	ND	0.00050	ND
Sulfate	400.0	100	270	100	650	50	250	100	180	100	140	50	200	50	320	50	280	250	570
Thallium	0.002	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	1,200	17	1100	17	1600	17	1000	17	890	17	840	17	1000	26	1100	26	1100	10	1700
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND
Zinc	5.0	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.006	ND	0.020	ND	0.006	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.00050	ND
BTEX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	ND
Temperature	NA	NA	16.50	NA	17.95	NA	18.41	NA	13.38	NA	16.50	NA	15.20	NA	16.25	NA	13.30	NA	18.64
Conductivity	NA	NA	170	NA	2.23	NA	1.66	NA	1.25	NA	1.20	NA	1.51	NA	1.58	NA	1.00	NA	1.97
Dissolved Oxygen	NA	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	0.09	NA	0.37	NA	0.40
ORP	NA	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	NM	NA	-90	NA	-87	NA	-9.3

Notes: Standards obtained from IAL, Title 35, Chapter 1, Part 620.  
 Subject D, Section 620.410 - Groundwater Quality Standards  
 for Class I Potable Recharge Groundwater  
 All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured

NR - Not Required  
 NS - Not Sampled  
 \* - Denotes instrument related QC exceeds the control limits

Temperature  
 °C  
 Conductivity  
 ms/cm  
 Dissolved Oxygen  
 mg/L  
 (Oxygen Reduction Potential (ORP)  
 mV

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Sample: MW-16	Parameter	Standards	Date		12/12/2012		2/27/2013		5/29/2013	
			DL	Result	DL	Result	DL	Result	DL	Result
	Antimony	0.006	0.0050	ND	0.003	ND	0.0030	ND	0.0030	ND
	Arsenic	0.010	0.0050	ND	0.001	ND	0.0010	ND	0.0010	ND
	Barium	2.0	0.020	0.039	0.001	0.042	0.0025	0.038	0.0025	0.038
	Beryllium	0.004	0.0010	ND	0.001	ND	0.0010	ND	0.0010	ND
	Boron	2.0	0.20	ND	0.01	0.13	0.050	0.20	0.050	0.20
	Cadmium	0.005	0.0010	ND	0.001	ND	0.00050	ND	0.00050	ND
	Chloride	200.0	10	26	10	18	2.0	19	2.0	19
	Chromium	0.1	0.0030	0.0047	0.004	0.0052	0.0050	ND	0.0050	ND
	Cobalt	1.0	0.0030	ND	0.002	ND	0.0010	ND	0.0010	ND
	Copper	0.65	0.010	ND	0.003	ND	0.0020	ND	0.0020	ND
	Cyanide	0.2	0.0050	ND	0.005	ND	0.010	ND	0.010	ND
	Fluoride	4.0	0.25	ND	0.25	ND	0.10	ND	0.10	ND
	Iron	5.0	0.010	0.012	0.01	0.019	0.10	ND	0.10	ND
	Lead	0.0075	0.0050	ND	0.001	ND	0.00050	ND	0.00050	ND
	Manganese	0.15	0.0020	0.022	0.001	0.0053	0.0025	ND	0.0025	ND
	Mercury	0.002	0.00020	ND	0.0002	ND	0.00020	ND	0.00020	ND
	Nickel	0.1	0.010	ND	0.005	ND	0.0020	ND	0.0020	ND
	Nitrogen/Nitrate	10.0	0.50	18	0.5	23	0.10	20	0.10	20
	Nitrogen/Nitrate, Nitrite	NA	NR	NR	NR	NR	2.5	20	2.5	20
	Nitrogen/Nitrite	NA	NR	NR	NR	NR	0.020	ND	0.020	ND
	Perchlorate	0.0049	NR	NR	NR	NR	0.0040	ND	0.0040	ND
	pH	6.5 - 9.0	NA	7.38	NA	8.31	NA	7.10	NA	7.10
	Selenium	0.05	0.0050	ND	0.001	0.0015	0.0025	ND	0.0025	ND
	Silver	0.05	0.010	ND	0.005	ND	0.00050	ND	0.00050	ND
	Sulfate	400.0	10	37	10	31	20	50	20	50
	Thallium	0.002	0.0010	ND	0.001	ND	0.0020	ND	0.0020	ND
	Total Dissolved Solids	1,200	26	520	26	420	10	460	10	460
	Vanadium	0.049	0.0080	ND	0.005	ND	0.0050	ND	0.0050	ND
	Zinc	5.0	0.020	ND	0.006	ND	0.020	ND	0.020	ND
	Benzene	0.005	0.005	ND	0.005	ND	0.00050	ND	0.00050	ND
	BTEX	11.705	0.03	ND	0.03	ND	0.0025	ND	0.0025	ND
	Temperature	NA	NA	12.84	NA	13.10	NA	15.29	NA	15.29
	Conductivity	NA	NA	0.61	NA	1.17	NA	0.60	NA	0.60
	Dissolved Oxygen	NA	NA	9.54	NA	8.53	NA	6.78	NA	6.78
	ORP	NA	NA	110	NA	-38	NA	70.2	NA	70.2

Notes: Standards obtained from IAL, Title 35, Chapter 1, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I, Possible Resource Groundwater  
 All values are in mg/L (ppm) unless otherwise noted

DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured

NR - Not Required  
 NS - Not Sampled  
 \* - Denotes instrument related QC exceeds the control limits

Temperature °C  
 Conductivity micromhos/cm-centimeters  
 Dissolved Oxygen mg/L  
 Oxygen Reduction Potential (ORP) mV

Table 3. East Yard Run-off Basin Analytical Results - Midwest Generation LLC, Powerton Station, Pekin, IL

Date	12/14/2012		2/28/2013		5/13/2013	
	DL	Result	DL	Result	DL	Result
Antimony	0.0050	ND	0.003	ND	0.0030	ND
Arsenic	0.0050	0.0062	0.001	0.0043	0.0010	0.0030
Barium	0.0020	0.19	0.001	0.15	0.0025	0.16
Beryllium	0.0010	ND	0.001	ND	0.0010	ND
Boron	0.40	0.41	0.01	0.35	0.050	0.35 ^
Cadmium	0.0010	ND	0.001	ND	0.00050	ND
Chloride	50	220	50	200	10	130
Chromium	0.0030	0.0094	0.004	0.0041	0.0050	ND
Cobalt	0.0030	ND	0.002	ND	0.0010	ND
Copper	0.010	ND	0.003	0.0032	0.0020	0.0057
Cyanide	0.0050	ND	0.005	ND	0.010	ND
Fluoride	0.25	0.68	0.25	0.29	0.10	0.42
Iron	0.010	ND	0.01	0.025	0.10	0.62
Lead	0.0050	ND	0.001	ND	0.00050	0.0044
Manganese	0.0020	0.0026	0.001	0.0037	0.0025	0.060
Mercury	0.00020	ND	0.0002	ND	0.00020	ND
Nickel	0.010	ND	0.005	0.0066	0.0020	0.0029
Nitrogen/Nitrate	0.02	0.49	0.02	0.48	0.10	ND
Nitrogen/Nitrate, Nitrite	NS	NS	NS	NS	0.10	ND ^
Nitrogen/Nitrite	0.15	ND	NS	NS	0.020	ND
Perchlorate	NS	NS	NS	NS	0.0040	ND
Selenium	0.0050	ND	0.001	0.0037	0.0025	ND
Silver	0.010	ND	0.005	ND	0.00050	ND
Sulfate	50	280	50	220	50	160
Thallium	0.0010	ND	0.001	ND	0.0020	ND
Total Dissolved Solids	26	940	26	820	10	590
Vanadium	0.0080	0.015	0.005	0.011	0.0050	0.0071
Zinc	0.020	ND	0.006	ND	0.020	0.042
Benzene	0.005	ND	0.005	ND	0.00050	ND
BETX	0.03	ND	0.03	ND	0.00250	ND

Notes: All values are in mg/L (ppm) unless otherwise noted.  
 ^ - Denotes instrument related QC exceeds the control limits  
 DL - Detection limit  
 NA - Not Applicable  
 ND - Not Detected  
 NM - Not Measured  
 NR - Not Required  
 NS - Not Sampled

**ATTACHMENT 1**  
**Analytical Data Package(s)**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
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University Park, IL 60484  
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TestAmerica Job ID: 500-57505-1  
Client Project/Site: Powerton Station Ash Ponds

For:  
KPRG and Associates, Inc.  
14665 West Lisbon Road,  
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*Bonnie Stadelmann*

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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

TestAmerica Job ID: 500-57505-1

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

**Job ID: 500-57505-1**

**Laboratory: TestAmerica Chicago**

### Narrative

Job Narrative  
500-57505-1

### Comments

No additional comments.

### Receipt

The samples were received on 5/30/2013 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 1.7° C, 3.4° C, 3.4° C, 3.8° C, 4.1° C and 4.6° C.

### Except:

The COC has methods 226/228 for MW-13, MW-14 and MW-15. Lab did not receive bottles for 226/228 for these samples. We did receive 226/228 bottles for samples MW-9, MW-11 and MW-12, logged per the bottles.

6/4/13 - per client, bottles are correct

### GC/MS VOA

Method(s) 8260B: The following samples submitted for volatiles analysis was received at pH =7: MW-6 (500-57505-16).

No other analytical or quality issues were noted.

### Metals

Method(s) 6020, 6020A: The internal standard Y was used in reporting Ag and Cu.

Method(s) 6020, 6020A: The ICV was missed in AD batch 189458 for B- and Be. All other bracketing QC were within control limits. All Be were below the RL. The samples were reported.

Method(s) 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 500-57505-1 were outside control limits for Se. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

### Field Service / Mobile Lab

No analytical or quality issues were noted.

### General Chemistry

No analytical or quality issues were noted.



## Detection Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Client Sample ID: MW-1

Lab Sample ID: 500-57505-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0048		0.0030		mg/L	1		6020A	Dissolved
Barium	0.078		0.0025		mg/L	1		6020A	Dissolved
Boron	0.47	^	0.050		mg/L	1		6020A	Dissolved
Iron	0.43		0.10		mg/L	1		6020A	Dissolved
Lead	0.00080		0.00050		mg/L	1		6020A	Dissolved
Manganese	0.027		0.0025		mg/L	1		6020A	Dissolved
Sulfate	330		100		mg/L	20		9038	Dissolved
Chloride	160		10		mg/L	5		9251	Dissolved
Nitrogen, Nitrate	0.23		0.10		mg/L	1		Nitrate by calc	Dissolved
Total Dissolved Solids	840		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.12		0.10		mg/L	1		SM 4500 F C	Dissolved
Nitrogen, Nitrate Nitrite	0.23		0.10		mg/L	1		SM 4500 NO3 F	Dissolved

### Client Sample ID: MW-2

Lab Sample ID: 500-57505-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.015		0.0030		mg/L	1		6020A	Dissolved
Arsenic	0.0010		0.0010		mg/L	1		6020A	Dissolved
Barium	0.053		0.0025		mg/L	1		6020A	Dissolved
Boron	0.21	^	0.050		mg/L	1		6020A	Dissolved
Copper	0.0021		0.0020		mg/L	1		6020A	Dissolved
Sulfate	96		20		mg/L	4		9038	Dissolved
Chloride	53		2.0		mg/L	1		9251	Dissolved
Nitrogen, Nitrate	0.44		0.10		mg/L	1		Nitrate by calc	Dissolved
Total Dissolved Solids	340		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.32		0.10		mg/L	1		SM 4500 F C	Dissolved
Nitrogen, Nitrite	0.041		0.020		mg/L	1		SM 4500 NO2 B	Dissolved
Nitrogen, Nitrate Nitrite	0.48		0.10		mg/L	1		SM 4500 NO3 F	Dissolved

### Client Sample ID: MW-3

Lab Sample ID: 500-57505-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0057		0.0030		mg/L	1		6020A	Dissolved
Arsenic	0.0012		0.0010		mg/L	1		6020A	Dissolved
Barium	0.061		0.0025		mg/L	1		6020A	Dissolved
Boron	0.21	^	0.050		mg/L	1		6020A	Dissolved
Sulfate	82		20		mg/L	4		9038	Dissolved
Chloride	55		2.0		mg/L	1		9251	Dissolved
Nitrogen, Nitrate	0.15		0.10		mg/L	1		Nitrate by calc	Dissolved
Total Dissolved Solids	310		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.31		0.10		mg/L	1		SM 4500 F C	Dissolved
Nitrogen, Nitrate Nitrite	0.15		0.10		mg/L	1		SM 4500 NO3 F	Dissolved

### Client Sample ID: MW-4

Lab Sample ID: 500-57505-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.030		0.0025		mg/L	1		6020A	Dissolved
Boron	0.23	^	0.050		mg/L	1		6020A	Dissolved
Sulfate	92		20		mg/L	4		9038	Dissolved
Chloride	54		2.0		mg/L	1		9251	Dissolved

This Detection Summary does not include radiochemical test results

TestAmerica Chicago

## Detection Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Client Sample ID: MW-4 (Continued)

Lab Sample ID: 500-57505-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	350		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.39		0.10		mg/L	1		SM 4500 F C	Dissolved

### Client Sample ID: MW-5

Lab Sample ID: 500-57505-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.089		0.0025		mg/L	1		6020A	Dissolved
Boron	0.70	^	0.050		mg/L	1		6020A	Dissolved
Cobalt	0.0022		0.0010		mg/L	1		6020A	Dissolved
Iron	0.20		0.10		mg/L	1		6020A	Dissolved
Manganese	0.67		0.0025		mg/L	1		6020A	Dissolved
Nickel	0.0055		0.0020		mg/L	1		6020A	Dissolved
Sulfate	310		100		mg/L	20		9038	Dissolved
Chloride	92		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	990		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.23		0.10		mg/L	1		SM 4500 F C	Dissolved

### Client Sample ID: MW-10

Lab Sample ID: 500-57505-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0012		0.0010		mg/L	1		6020A	Dissolved
Barium	0.30		0.0025		mg/L	1		6020A	Dissolved
Boron	0.98	^	0.050		mg/L	1		6020A	Dissolved
Chromium	0.0061		0.0050		mg/L	1		6020A	Dissolved
Cobalt	0.012		0.0010		mg/L	1		6020A	Dissolved
Copper	0.028		0.0020		mg/L	1		6020A	Dissolved
Iron	2.7		0.10		mg/L	1		6020A	Dissolved
Lead	0.012		0.00050		mg/L	1		6020A	Dissolved
Manganese	3.2		0.0025		mg/L	1		6020A	Dissolved
Nickel	0.023		0.0020		mg/L	1		6020A	Dissolved
Selenium	0.0043		0.0025		mg/L	1		6020A	Dissolved
Vanadium	0.012		0.0050		mg/L	1		6020A	Dissolved
Sulfate	92		25		mg/L	5		9038	Dissolved
Chloride	41		2.0		mg/L	1		9251	Dissolved
Nitrogen, Nitrate	1.9		0.10		mg/L	1		Nitrate by calc	Dissolved
Total Dissolved Solids	580		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.18		0.10		mg/L	1		SM 4500 F C	Dissolved
Nitrogen, Nitrate Nitrite	1.9		0.20		mg/L	2		SM 4500 NO3 F	Dissolved

### Client Sample ID: MW-16

Lab Sample ID: 500-57505-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.038		0.0025		mg/L	1		6020A	Dissolved
Boron	0.20	^	0.050		mg/L	1		6020A	Dissolved
Sulfate	50		20		mg/L	4		9038	Dissolved
Chloride	19		2.0		mg/L	1		9251	Dissolved
Nitrogen, Nitrate	20		0.10		mg/L	1		Nitrate by calc	Dissolved
Total Dissolved Solids	460		10		mg/L	1		SM 2540C	Dissolved
Nitrogen, Nitrate Nitrite	20		2.5		mg/L	25		SM 4500 NO3 F	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

## Detection Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Client Sample ID: MW-8

Lab Sample ID: 500-57505-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0036		0.0010		mg/L	1		6020A	Dissolved
Barium	0.14		0.0025		mg/L	1		6020A	Dissolved
Boron	0.91	^	0.050		mg/L	1		6020A	Dissolved
Iron	2.3		0.10		mg/L	1		6020A	Dissolved
Manganese	0.25		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.0029		0.0025		mg/L	1		6020A	Dissolved
Sulfate	460		100		mg/L	20		9038	Dissolved
Chloride	230		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1300		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.74		0.10		mg/L	1		SM 4500 F C	Dissolved

### Client Sample ID: MW-9

Lab Sample ID: 500-57505-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.042		0.0025		mg/L	1		6020A	Dissolved
Boron	3.2	^	0.050		mg/L	1		6020A	Dissolved
Manganese	0.053		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.016		0.0025		mg/L	1		6020A	Dissolved
Sulfate	140		50		mg/L	10		9038	Dissolved
Chloride	29		2.0		mg/L	1		9251	Dissolved
Nitrogen, Nitrate	11		0.10		mg/L	1		Nitrate by calc	Dissolved
Total Dissolved Solids	600		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.21		0.10		mg/L	1		SM 4500 F C	Dissolved
Nitrogen, Nitrate Nitrite	11		1.0		mg/L	10		SM 4500 NO3 F	Dissolved

### Client Sample ID: MW-11

Lab Sample ID: 500-57505-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.028		0.0010		mg/L	1		6020A	Dissolved
Barium	0.15		0.0025		mg/L	1		6020A	Dissolved
Boron	1.3	^	0.050		mg/L	1		6020A	Dissolved
Cobalt	0.0020		0.0010		mg/L	1		6020A	Dissolved
Iron	3.1		0.10		mg/L	1		6020A	Dissolved
Manganese	7.5		0.025		mg/L	10		6020A	Dissolved
Nickel	0.0026		0.0020		mg/L	1		6020A	Dissolved
Sulfate	240		50		mg/L	10		9038	Dissolved
Chloride	79		10		mg/L	5		9251	Dissolved
Nitrogen, Nitrate	1.1		0.10		mg/L	1		Nitrate by calc	Dissolved
Total Dissolved Solids	850		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.79		0.10		mg/L	1		SM 4500 F C	Dissolved
Nitrogen, Nitrate Nitrite	1.1		0.10		mg/L	1		SM 4500 NO3 F	Dissolved

### Client Sample ID: MW-12

Lab Sample ID: 500-57505-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0031		0.0010		mg/L	1		6020A	Dissolved
Barium	0.091		0.0025		mg/L	1		6020A	Dissolved
Boron	3.7	^	0.050		mg/L	1		6020A	Dissolved
Iron	8.9		0.10		mg/L	1		6020A	Dissolved
Manganese	0.24		0.0025		mg/L	1		6020A	Dissolved

This Detection Summary does not include radiochemical test results

TestAmerica Chicago

## Detection Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Client Sample ID: MW-12 (Continued)

Lab Sample ID: 500-57505-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	410		100		mg/L	20		9038	Dissolved
Chloride	200		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1200		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.62		0.10		mg/L	1		SM 4500 F C	Dissolved

### Client Sample ID: MW-13

Lab Sample ID: 500-57505-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.031		0.0010		mg/L	1		6020A	Dissolved
Barium	0.23		0.0025		mg/L	1		6020A	Dissolved
Boron	1.6	^	0.050		mg/L	1		6020A	Dissolved
Iron	1.3		0.10		mg/L	1		6020A	Dissolved
Manganese	3.8		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.010		0.0025		mg/L	1		6020A	Dissolved
Sulfate	880		250		mg/L	50		9038	Dissolved
Chloride	190		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	2000		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.39		0.10		mg/L	1		SM 4500 F C	Dissolved

### Client Sample ID: MW-14

Lab Sample ID: 500-57505-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0023		0.0010		mg/L	1		6020A	Dissolved
Barium	0.053		0.0025		mg/L	1		6020A	Dissolved
Boron	1.7	^	0.050		mg/L	1		6020A	Dissolved
Cadmium	0.00060		0.00050		mg/L	1		6020A	Dissolved
Manganese	0.72		0.0025		mg/L	1		6020A	Dissolved
Nickel	0.0027		0.0020		mg/L	1		6020A	Dissolved
Thallium	0.0025		0.0020		mg/L	1		6020A	Dissolved
Sulfate	800		250		mg/L	50		9038	Dissolved
Chloride	160		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	2000		10		mg/L	1		SM 2540C	Dissolved
Fluoride	1.1		0.10		mg/L	1		SM 4500 F C	Dissolved

### Client Sample ID: MW-15

Lab Sample ID: 500-57505-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0037		0.0010		mg/L	1		6020A	Dissolved
Barium	0.11		0.0025		mg/L	1		6020A	Dissolved
Boron	1.5	^	0.050		mg/L	1		6020A	Dissolved
Iron	0.83		0.10		mg/L	1		6020A	Dissolved
Manganese	0.27		0.0025		mg/L	1		6020A	Dissolved
Nickel	0.0072		0.0020		mg/L	1		6020A	Dissolved
Selenium	0.0065		0.0025		mg/L	1		6020A	Dissolved
Sulfate	570		250		mg/L	50		9038	Dissolved
Chloride	210		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1700		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.65		0.10		mg/L	1		SM 4500 F C	Dissolved

### Client Sample ID: DUPLICATE

Lab Sample ID: 500-57505-15

This Detection Summary does not include radiochemical test results

TestAmerica Chicago

## Detection Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Client Sample ID: DUPLICATE (Continued)

Lab Sample ID: 500-57505-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0019		0.0010		mg/L	1		6020A	Dissolved
Barium	0.053		0.0025		mg/L	1		6020A	Dissolved
Boron	0.057	^	0.050		mg/L	1		6020A	Dissolved
Cadmium	0.00059		0.00050		mg/L	1		6020A	Dissolved
Manganese	0.57		0.0025		mg/L	1		6020A	Dissolved
Nickel	0.0032		0.0020		mg/L	1		6020A	Dissolved
Thallium	0.0027		0.0020		mg/L	1		6020A	Dissolved
Sulfate	780		250		mg/L	50		9038	Dissolved
Chloride	160		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1900		10		mg/L	1		SM 2540C	Dissolved
Fluoride	1.1		0.10		mg/L	1		SM 4500 F C	Dissolved

### Client Sample ID: MW-6

Lab Sample ID: 500-57505-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0027		0.0010		mg/L	1		6020A	Dissolved
Barium	0.12		0.0025		mg/L	1		6020A	Dissolved
Boron	1.0	^	0.050		mg/L	1		6020A	Dissolved
Iron	1.8		0.10		mg/L	1		6020A	Dissolved
Manganese	1.3		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.0030		0.0025		mg/L	1		6020A	Dissolved
Sulfate	560		130		mg/L	25		9038	Dissolved
Chloride	99		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1400		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.36		0.10		mg/L	1		SM 4500 F C	Dissolved

### Client Sample ID: MW-7

Lab Sample ID: 500-57505-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.12		0.0010		mg/L	1		6020A	Dissolved
Barium	0.42		0.0025		mg/L	1		6020A	Dissolved
Boron	0.52	^	0.050		mg/L	1		6020A	Dissolved
Cobalt	0.0059		0.0010		mg/L	1		6020A	Dissolved
Iron	15		0.10		mg/L	1		6020A	Dissolved
Manganese	5.7		0.025		mg/L	10		6020A	Dissolved
Nickel	0.0063		0.0020		mg/L	1		6020A	Dissolved
Selenium	0.0028		0.0025		mg/L	1		6020A	Dissolved
Sulfate	120		25		mg/L	5		9038	Dissolved
Chloride	180		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1000		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.47		0.10		mg/L	1		SM 4500 F C	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

## Method Summary

TestAmerica Job ID: 500-57505-1

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

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

TestAmerica Chicago

# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-57505-1	MW-1	Water	05/29/13 08:25	05/30/13 10:30
500-57505-2	MW-2	Water	05/29/13 09:12	05/30/13 10:30
500-57505-3	MW-3	Water	05/29/13 09:53	05/30/13 10:30
500-57505-4	MW-4	Water	05/29/13 10:45	05/30/13 10:30
500-57505-5	MW-5	Water	05/29/13 11:37	05/30/13 10:30
500-57505-6	MW-10	Water	05/29/13 13:05	05/30/13 10:30
500-57505-7	MW-16	Water	05/29/13 13:58	05/30/13 10:30
500-57505-8	MW-8	Water	05/30/13 14:11	05/31/13 10:20
500-57505-9	MW-9	Water	05/30/13 08:04	05/31/13 10:20
500-57505-10	MW-11	Water	05/30/13 09:19	05/31/13 10:20
500-57505-11	MW-12	Water	05/30/13 10:10	05/31/13 10:20
500-57505-12	MW-13	Water	05/30/13 10:59	05/31/13 10:20
500-57505-13	MW-14	Water	05/30/13 11:44	05/31/13 10:20
500-57505-14	MW-15	Water	05/30/13 12:49	05/31/13 10:20
500-57505-15	DUPLICATE	Water	05/30/13 00:00	05/31/13 10:20
500-57505-16	MW-6	Water	05/31/13 09:03	05/31/13 16:30
500-57505-17	MW-7	Water	05/31/13 08:15	05/31/13 16:30

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-1**

**Lab Sample ID: 500-57505-1**

Date Collected: 05/29/13 08:25

Matrix: Water

Date Received: 05/30/13 10:30

### 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			06/06/13 08:17	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 08:17	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 08:17	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 08:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		75 - 125		06/06/13 08:17	1
Toluene-d8 (Surr)	100		75 - 120		06/06/13 08:17	1
4-Bromofluorobenzene (Surr)	83		75 - 120		06/06/13 08:17	1
Dibromofluoromethane	90		75 - 120		06/06/13 08:17	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.0048</b>		0.0030		mg/L		06/04/13 10:17	06/11/13 16:02	1
Arsenic	<0.0010		0.0010		mg/L		06/04/13 10:17	06/04/13 20:08	1
<b>Barium</b>	<b>0.078</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:08	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:36	1
<b>Boron</b>	<b>0.47</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:36	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:08	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:21	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 13:21	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:08	1
<b>Iron</b>	<b>0.43</b>		0.10		mg/L		06/04/13 10:17	06/10/13 13:21	1
<b>Lead</b>	<b>0.00080</b>		0.00050		mg/L		06/04/13 10:17	06/04/13 20:08	1
<b>Manganese</b>	<b>0.027</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 13:21	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 13:21	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 20:08	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:08	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:08	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:21	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:08	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 12:48	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:51	1
<b>Sulfate</b>	<b>330</b>		100		mg/L			06/10/13 23:09	20
<b>Chloride</b>	<b>180</b>		10		mg/L			06/05/13 18:55	5
<b>Nitrogen, Nitrate</b>	<b>0.23</b>		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>840</b>		10		mg/L			06/01/13 13:09	1
<b>Fluoride</b>	<b>0.12</b>		0.10		mg/L			06/04/13 10:54	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/30/13 15:01	1
<b>Nitrogen, Nitrate Nitrite</b>	<b>0.23</b>		0.10		mg/L			06/10/13 14:34	1

TestAmerica Chicago



# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-2**

**Lab Sample ID: 500-57505-2**

Date Collected: 05/29/13 09:12

Matrix: Water

Date Received: 05/30/13 10:30

### 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			06/06/13 08:43	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 08:43	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 08:43	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 08:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	99		75 - 125					06/06/13 08:43	1
Toluene-d8 (Surr)	93		75 - 120					06/06/13 08:43	1
4-Bromofluorobenzene (Surr)	93		75 - 120					06/06/13 08:43	1
Dibromofluoromethane	101		75 - 120					06/06/13 08:43	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.015</b>		0.0030		mg/L		06/04/13 10:17	06/11/13 16:16	1
<b>Arsenic</b>	<b>0.0010</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 20:26	1
<b>Barium</b>	<b>0.053</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:26	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:40	1
<b>Boron</b>	<b>0.21</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:40	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:26	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:40	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 13:40	1
<b>Copper</b>	<b>0.0021</b>		0.0020		mg/L		06/04/13 10:17	06/04/13 20:26	1
Iron	<0.10		0.10		mg/L		06/04/13 10:17	06/10/13 13:40	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:26	1
Manganese	<0.0025		0.0025		mg/L		06/04/13 10:17	06/10/13 13:40	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 13:40	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 20:26	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:26	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:26	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:40	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:26	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 12:54	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:52	1
<b>Sulfate</b>	<b>96</b>		20		mg/L			06/10/13 23:10	4
<b>Chloride</b>	<b>53</b>		2.0		mg/L			06/05/13 18:19	1
<b>Nitrogen, Nitrate</b>	<b>0.44</b>		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>340</b>		10		mg/L			06/01/13 13:11	1
<b>Fluoride</b>	<b>0.32</b>		0.10		mg/L			06/08/13 12:31	1
<b>Nitrogen, Nitrite</b>	<b>0.041</b>		0.020		mg/L			05/30/13 15:02	1
<b>Nitrogen, Nitrate Nitrite</b>	<b>0.48</b>		0.10		mg/L			06/10/13 14:36	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-3**

**Lab Sample ID: 500-57505-3**

Date Collected: 05/29/13 09:53

Matrix: Water

Date Received: 05/30/13 10:30

### 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			06/06/13 14:44	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 14:44	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 14:44	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 14:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	105		75 - 125					06/06/13 14:44	1
Toluene-d8 (Surr)	100		75 - 120					06/06/13 14:44	1
4-Bromofluorobenzene (Surr)	107		75 - 120					06/06/13 14:44	1
Dibromofluoromethane	97		75 - 120					06/06/13 14:44	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.0057</b>		0.0030		mg/L		06/04/13 10:17	06/11/13 16:17	1
<b>Arsenic</b>	<b>0.0012</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 20:29	1
<b>Barium</b>	<b>0.061</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:29	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:41	1
<b>Boron</b>	<b>0.21</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:41	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:29	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:43	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 13:43	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:29	1
Iron	<0.10		0.10		mg/L		06/04/13 10:17	06/10/13 13:43	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:29	1
Manganese	<0.0025		0.0025		mg/L		06/04/13 10:17	06/10/13 13:43	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 13:43	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 20:29	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:29	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:29	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:43	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:29	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 12:55	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:52	1
<b>Sulfate</b>	<b>82</b>		20		mg/L			06/10/13 23:11	4
<b>Chloride</b>	<b>55</b>		2.0		mg/L			06/05/13 18:20	1
<b>Nitrogen, Nitrate</b>	<b>0.15</b>		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>310</b>		10		mg/L			06/01/13 13:14	1
<b>Fluoride</b>	<b>0.31</b>		0.10		mg/L			06/08/13 12:34	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/30/13 15:02	1
<b>Nitrogen, Nitrate Nitrite</b>	<b>0.15</b>		0.10		mg/L			06/10/13 14:38	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-4**

**Lab Sample ID: 500-57505-4**

Date Collected: 05/29/13 10:45

Matrix: Water

Date Received: 05/30/13 10:30

### 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			06/06/13 15:08	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 15:08	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 15:08	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125					06/06/13 15:08	1
Toluene-d8 (Surr)	101		75 - 120					06/06/13 15:08	1
4-Bromofluorobenzene (Surr)	102		75 - 120					06/06/13 15:08	1
Dibromofluoromethane	100		75 - 120					06/06/13 15:08	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 15:54	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		06/04/13 10:17	06/11/13 16:19	1
Arsenic	<0.0010		0.0010		mg/L		06/04/13 10:17	06/04/13 20:31	1
<b>Barium</b>	<b>0.030</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:31	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:42	1
<b>Boron</b>	<b>0.23</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:42	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:31	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:45	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 13:45	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:31	1
Iron	<0.10		0.10		mg/L		06/04/13 10:17	06/10/13 13:45	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:31	1
Manganese	<0.0025		0.0025		mg/L		06/04/13 10:17	06/10/13 13:45	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 13:45	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 20:31	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:31	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:31	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:45	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:31	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 12:57	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:52	1
<b>Sulfate</b>	<b>92</b>		20		mg/L			06/10/13 23:12	4
<b>Chloride</b>	<b>54</b>		2.0		mg/L			06/05/13 18:21	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>350</b>		10		mg/L			06/01/13 13:16	1
<b>Fluoride</b>	<b>0.39</b>		0.10		mg/L			06/08/13 12:37	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/30/13 15:02	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 14:40	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-5**

**Lab Sample ID: 500-57505-5**

Date Collected: 05/29/13 11:37

Matrix: Water

Date Received: 05/30/13 10:30

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			06/06/13 15:32	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 15:32	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 15:32	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125					06/06/13 15:32	1
Toluene-d8 (Surr)	100		75 - 120					06/06/13 15:32	1
4-Bromofluorobenzene (Surr)	103		75 - 120					06/06/13 15:32	1
Dibromofluoromethane	99		75 - 120					06/06/13 15:32	1

Method: 314.0 - Perchlorate (IC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 16:10	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		06/04/13 10:17	06/11/13 16:21	1
Arsenic	<0.0010		0.0010		mg/L		06/04/13 10:17	06/04/13 20:34	1
<b>Barium</b>	<b>0.089</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:34	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:45	1
<b>Boron</b>	<b>0.70</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:45	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:34	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:48	1
<b>Cobalt</b>	<b>0.0022</b>		0.0010		mg/L		06/04/13 10:17	06/10/13 13:48	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:34	1
<b>Iron</b>	<b>0.20</b>		0.10		mg/L		06/04/13 10:17	06/10/13 13:48	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:34	1
<b>Manganese</b>	<b>0.87</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 13:48	1
<b>Nickel</b>	<b>0.0055</b>		0.0020		mg/L		06/04/13 10:17	06/10/13 13:48	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 20:34	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:34	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:34	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:48	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:34	1

Method: 7470A - Mercury (CVAA) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 12:59	1

General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:53	1
<b>Sulfate</b>	<b>310</b>		100		mg/L			06/10/13 23:13	20
<b>Chloride</b>	<b>92</b>		10		mg/L			06/05/13 18:57	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>990</b>		10		mg/L			06/01/13 13:19	1
<b>Fluoride</b>	<b>0.23</b>		0.10		mg/L			06/04/13 10:57	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/30/13 15:02	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 14:42	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-57505-6**

Date Collected: 05/29/13 13:05

Matrix: Water

Date Received: 05/30/13 10:30

### 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			06/06/13 15:56	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 15:56	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 15:56	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 15:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	108		75 - 125					06/06/13 15:56	1
Toluene-d8 (Surr)	99		75 - 120					06/06/13 15:56	1
4-Bromofluorobenzene (Surr)	103		75 - 120					06/06/13 15:56	1
Dibromofluoromethane	100		75 - 120					06/06/13 15:56	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 16:25	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		06/04/13 10:17	06/11/13 16:23	1
<b>Arsenic</b>	<b>0.0012</b>		0.0010		mg/L		06/04/13 10:17	06/10/13 13:50	1
<b>Barium</b>	<b>0.30</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:36	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:46	1
<b>Boron</b>	<b>0.98</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:46	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:36	1
<b>Chromium</b>	<b>0.0061</b>		0.0050		mg/L		06/04/13 10:17	06/10/13 13:50	1
<b>Cobalt</b>	<b>0.012</b>		0.0010		mg/L		06/04/13 10:17	06/10/13 13:50	1
<b>Copper</b>	<b>0.028</b>		0.0020		mg/L		06/04/13 10:17	06/10/13 13:50	1
<b>Iron</b>	<b>2.7</b>		0.10		mg/L		06/04/13 10:17	06/10/13 13:50	1
<b>Lead</b>	<b>0.012</b>		0.00050		mg/L		06/04/13 10:17	06/04/13 20:36	1
<b>Manganese</b>	<b>3.2</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 13:50	1
<b>Nickel</b>	<b>0.023</b>		0.0020		mg/L		06/04/13 10:17	06/10/13 13:50	1
<b>Selenium</b>	<b>0.0043</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 13:50	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/10/13 13:50	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:36	1
<b>Vanadium</b>	<b>0.012</b>		0.0050		mg/L		06/04/13 10:17	06/10/13 13:50	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/10/13 13:50	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 13:01	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:53	1
<b>Sulfate</b>	<b>92</b>		25		mg/L			06/10/13 23:14	5
<b>Chloride</b>	<b>41</b>		2.0		mg/L			06/05/13 18:25	1
<b>Nitrogen, Nitrate</b>	<b>1.9</b>		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>580</b>		10		mg/L			06/01/13 13:21	1
<b>Fluoride</b>	<b>0.18</b>		0.10		mg/L			06/04/13 11:00	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/30/13 15:03	1
<b>Nitrogen, Nitrate Nitrite</b>	<b>1.9</b>		0.20		mg/L			06/10/13 15:39	2

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-16**

**Lab Sample ID: 500-57505-7**

Date Collected: 05/29/13 13:58

Matrix: Water

Date Received: 05/30/13 10:30

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			06/06/13 16:20	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 16:20	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 16:20	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125					06/06/13 16:20	1
Toluene-d8 (Surr)	99		75 - 120					06/06/13 16:20	1
4-Bromofluorobenzene (Surr)	102		75 - 120					06/06/13 16:20	1
Dibromofluoromethane	101		75 - 120					06/06/13 16:20	1

Method: 314.0 - Perchlorate (IC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 17:11	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		06/04/13 10:17	06/11/13 16:24	1
Arsenic	<0.0010		0.0010		mg/L		06/04/13 10:17	06/04/13 20:39	1
<b>Barium</b>	<b>0.038</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:39	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:47	1
<b>Boron</b>	<b>0.20</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:47	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:39	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:52	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 13:52	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:39	1
Iron	<0.10		0.10		mg/L		06/04/13 10:17	06/10/13 13:52	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:39	1
Manganese	<0.0025		0.0025		mg/L		06/04/13 10:17	06/10/13 13:52	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 13:52	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 20:39	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:39	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:39	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:52	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:39	1

Method: 7470A - Mercury (CVAA) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 13:03	1

General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:54	1
<b>Sulfate</b>	<b>50</b>		20		mg/L			06/10/13 23:15	4
<b>Chloride</b>	<b>19</b>		2.0		mg/L			06/05/13 18:26	1
<b>Nitrogen, Nitrate</b>	<b>20</b>		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>460</b>		10		mg/L			06/01/13 13:24	1
Fluoride	<0.10		0.10		mg/L			06/08/13 12:40	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/30/13 15:04	1
<b>Nitrogen, Nitrate Nitrite</b>	<b>20</b>		2.5		mg/L			06/10/13 16:01	25

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-8**

**Lab Sample ID: 500-57505-8**

Date Collected: 05/30/13 14:11

Matrix: Water

Date Received: 05/31/13 10:20

**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			06/06/13 16:44	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 16:44	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 16:44	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 16:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	108		75 - 125					06/06/13 16:44	1
Toluene-d8 (Surr)	99		75 - 120					06/06/13 16:44	1
4-Bromofluorobenzene (Surr)	102		75 - 120					06/06/13 16:44	1
Dibromofluoromethane	103		75 - 120					06/06/13 16:44	1

**Method: 314.0 - Perchlorate (IC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 17:27	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		06/04/13 10:17	06/11/13 16:26	1
<b>Arsenic</b>	<b>0.0036</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 20:41	1
<b>Barium</b>	<b>0.14</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:41	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:48	1
<b>Boron</b>	<b>0.91</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:48	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:41	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:55	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 13:55	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:41	1
<b>Iron</b>	<b>2.3</b>		0.10		mg/L		06/04/13 10:17	06/10/13 13:55	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:41	1
<b>Manganese</b>	<b>0.25</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 13:55	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 13:55	1
<b>Selenium</b>	<b>0.0029</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:41	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:41	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:41	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:55	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 13:05	1

**General Chemistry - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:54	1
<b>Sulfate</b>	<b>460</b>		100		mg/L			06/10/13 23:16	20
<b>Chloride</b>	<b>230</b>		10		mg/L			06/05/13 18:57	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>1300</b>		10		mg/L			06/01/13 13:26	1
<b>Fluoride</b>	<b>0.74</b>		0.10		mg/L			06/04/13 11:03	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/31/13 17:16	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 14:48	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-9**

**Lab Sample ID: 500-57505-9**

Date Collected: 05/30/13 08:04

Matrix: Water

Date Received: 05/31/13 10:20

**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			06/06/13 17:07	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 17:07	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 17:07	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 17:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	114		75 - 125					06/06/13 17:07	1
Toluene-d8 (Surr)	100		75 - 120					06/06/13 17:07	1
4-Bromofluorobenzene (Surr)	102		75 - 120					06/06/13 17:07	1
Dibromofluoromethane	104		75 - 120					06/06/13 17:07	1

**Method: 314.0 - Perchlorate (IC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 17:42	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		06/04/13 10:17	06/11/13 16:28	1
Arsenic	<0.0010		0.0010		mg/L		06/04/13 10:17	06/04/13 20:44	1
<b>Barium</b>	<b>0.042</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:44	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:48	1
<b>Boron</b>	<b>3.2</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:48	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:44	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:57	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 13:57	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:44	1
Iron	<0.10		0.10		mg/L		06/04/13 10:17	06/10/13 13:57	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:44	1
<b>Manganese</b>	<b>0.053</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 13:57	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 13:57	1
<b>Selenium</b>	<b>0.018</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:44	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:44	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:44	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:57	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 13:07	1

**General Chemistry - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:55	1
<b>Sulfate</b>	<b>140</b>		50		mg/L			06/10/13 23:19	10
<b>Chloride</b>	<b>29</b>		2.0		mg/L			06/05/13 18:27	1
<b>Nitrogen, Nitrate</b>	<b>11</b>		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>600</b>		10		mg/L			06/01/13 13:29	1
<b>Fluoride</b>	<b>0.21</b>		0.10		mg/L			06/08/13 12:43	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/31/13 17:16	1
<b>Nitrogen, Nitrate Nitrite</b>	<b>11</b>		1.0		mg/L			06/10/13 15:41	10

TestAmerica Chicago



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-57505-10**

**Date Collected: 05/30/13 09:19**

**Matrix: Water**

**Date Received: 05/31/13 10:20**

**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			06/06/13 17:31	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 17:31	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 17:31	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 17:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	113		75 - 125					06/06/13 17:31	1
Toluene-d8 (Surr)	101		75 - 120					06/06/13 17:31	1
4-Bromofluorobenzene (Surr)	101		75 - 120					06/06/13 17:31	1
Dibromofluoromethane	103		75 - 120					06/06/13 17:31	1

**Method: 314.0 - Perchlorate (IC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 17:58	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		06/04/13 10:17	06/11/13 16:33	1
<b>Arsenic</b>	<b>0.028</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 20:46	1
<b>Barium</b>	<b>0.15</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:46	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:49	1
<b>Boron</b>	<b>1.3</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:49	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:46	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:00	1
<b>Cobalt</b>	<b>0.0020</b>		0.0010		mg/L		06/04/13 10:17	06/10/13 14:00	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:46	1
<b>Iron</b>	<b>3.1</b>		0.10		mg/L		06/04/13 10:17	06/10/13 14:00	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:46	1
<b>Manganese</b>	<b>7.5</b>		0.025		mg/L		06/04/13 10:17	06/10/13 14:38	10
<b>Nickel</b>	<b>0.0026</b>		0.0020		mg/L		06/04/13 10:17	06/10/13 14:00	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 20:46	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:46	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:46	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:00	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 13:09	1

**General Chemistry - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:55	1
<b>Sulfate</b>	<b>240</b>		50		mg/L			06/10/13 23:20	10
<b>Chloride</b>	<b>79</b>		10		mg/L			06/05/13 18:58	5
<b>Nitrogen, Nitrate</b>	<b>1.1</b>		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>850</b>		10		mg/L			06/01/13 13:31	1
<b>Fluoride</b>	<b>0.79</b>		0.10		mg/L			06/04/13 11:05	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/31/13 17:16	1
<b>Nitrogen, Nitrate Nitrite</b>	<b>1.1</b>		0.10		mg/L			06/10/13 14:52	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-12**

**Lab Sample ID: 500-57505-11**

Date Collected: 05/30/13 10:10

Matrix: Water

Date Received: 05/31/13 10:20

### 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			06/06/13 17:54	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 17:54	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 17:54	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 125					06/06/13 17:54	1
Toluene-d8 (Surr)	99		75 - 120					06/06/13 17:54	1
4-Bromofluorobenzene (Surr)	104		75 - 120					06/06/13 17:54	1
Dibromofluoromethane	102		75 - 120					06/06/13 17:54	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 18:13	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		06/04/13 10:17	06/11/13 15:33	1
<b>Arsenic</b>	<b>0.0031</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 20:49	1
<b>Barium</b>	<b>0.091</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:49	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:50	1
<b>Boron</b>	<b>3.7</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:50	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:49	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:02	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 14:02	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:49	1
<b>Iron</b>	<b>8.9</b>		0.10		mg/L		06/04/13 10:17	06/10/13 14:02	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:49	1
<b>Manganese</b>	<b>0.24</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 14:02	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 14:02	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 20:49	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:49	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:49	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:02	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:49	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 13:11	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:55	1
<b>Sulfate</b>	<b>410</b>		100		mg/L			06/10/13 23:21	20
<b>Chloride</b>	<b>200</b>		10		mg/L			06/05/13 18:59	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>1200</b>		10		mg/L			06/01/13 13:34	1
<b>Fluoride</b>	<b>0.82</b>		0.10		mg/L			06/04/13 11:08	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/31/13 17:16	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 14:53	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-13**

**Lab Sample ID: 500-57505-12**

Date Collected: 05/30/13 10:59

Matrix: Water

Date Received: 05/31/13 10:20

### 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			06/06/13 18:18	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 18:18	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 18:18	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125		06/06/13 18:18	1
Toluene-d8 (Surr)	100		75 - 120		06/06/13 18:18	1
4-Bromofluorobenzene (Surr)	103		75 - 120		06/06/13 18:18	1
Dibromofluoromethane	103		75 - 120		06/06/13 18:18	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 18:28	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		06/04/13 10:17	06/11/13 15:34	1
<b>Arsenic</b>	<b>0.031</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 20:59	1
<b>Barium</b>	<b>0.23</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:59	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:51	1
<b>Boron</b>	<b>1.8</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:51	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:59	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:09	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 14:09	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:59	1
<b>Iron</b>	<b>1.3</b>		0.10		mg/L		06/04/13 10:17	06/10/13 14:09	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:59	1
<b>Manganese</b>	<b>3.8</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 14:09	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 14:09	1
<b>Selenium</b>	<b>0.010</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 20:59	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:59	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:59	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:09	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:59	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 13:17	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:55	1
<b>Sulfate</b>	<b>880</b>		250		mg/L			06/10/13 23:22	50
<b>Chloride</b>	<b>190</b>		10		mg/L			06/05/13 18:59	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>2000</b>		10		mg/L			06/01/13 13:36	1
<b>Fluoride</b>	<b>0.39</b>		0.10		mg/L			06/04/13 11:11	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/31/13 17:17	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 17:53	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-57505-13**

Date Collected: 05/30/13 11:44

Matrix: Water

Date Received: 05/31/13 10:20

### 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			06/06/13 18:42	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 18:42	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 18:42	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125		06/06/13 18:42	1
Toluene-d8 (Surr)	99		75 - 120		06/06/13 18:42	1
4-Bromofluorobenzene (Surr)	103		75 - 120		06/06/13 18:42	1
Dibromofluoromethane	103		75 - 120		06/06/13 18:42	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/10/13 22:05	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		06/04/13 10:17	06/11/13 15:36	1
<b>Arsenic</b>	<b>0.0023</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 21:01	1
<b>Barium</b>	<b>0.053</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 21:01	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:52	1
<b>Boron</b>	<b>1.7</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:52	1
<b>Cadmium</b>	<b>0.00080</b>		0.00050		mg/L		06/04/13 10:17	06/04/13 21:01	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:12	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 14:12	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 21:01	1
Iron	<0.10		0.10		mg/L		06/04/13 10:17	06/10/13 14:12	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:01	1
<b>Manganese</b>	<b>0.72</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 14:12	1
<b>Nickel</b>	<b>0.0027</b>		0.0020		mg/L		06/04/13 10:17	06/10/13 14:12	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 21:01	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:01	1
<b>Thallium</b>	<b>0.0025</b>		0.0020		mg/L		06/04/13 10:17	06/04/13 21:01	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:12	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 21:01	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/04/13 12:00	06/05/13 09:31	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:56	1
<b>Sulfate</b>	<b>800</b>		250		mg/L			06/10/13 23:23	50
<b>Chloride</b>	<b>180</b>		10		mg/L			06/05/13 19:00	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>2000</b>		10		mg/L			06/01/13 13:39	1
<b>Fluoride</b>	<b>1.1</b>		0.10		mg/L			06/08/13 12:46	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/31/13 17:17	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 17:55	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-57505-14**

Date Collected: 05/30/13 12:49

Matrix: Water

Date Received: 05/31/13 10:20

### 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			06/06/13 19:06	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 19:06	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 19:06	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 19:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	119		75 - 125					06/06/13 19:06	1
Toluene-d8 (Surr)	100		75 - 120					06/06/13 19:06	1
4-Bromofluorobenzene (Surr)	105		75 - 120					06/06/13 19:06	1
Dibromofluoromethane	102		75 - 120					06/06/13 19:06	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/10/13 22:20	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		06/04/13 10:17	06/11/13 15:38	1
<b>Arsenic</b>	<b>0.0037</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 21:04	1
<b>Barium</b>	<b>0.11</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 21:04	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:53	1
<b>Boron</b>	<b>1.5</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:53	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:04	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:14	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 14:14	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 21:04	1
<b>Iron</b>	<b>0.83</b>		0.10		mg/L		06/04/13 10:17	06/10/13 14:14	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:04	1
<b>Manganese</b>	<b>0.27</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 14:14	1
<b>Nickel</b>	<b>0.0072</b>		0.0020		mg/L		06/04/13 10:17	06/10/13 14:14	1
<b>Selenium</b>	<b>0.0065</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 21:04	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:04	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 21:04	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:14	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 21:04	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/04/13 12:00	06/05/13 09:33	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:56	1
<b>Sulfate</b>	<b>570</b>		250		mg/L			06/10/13 23:24	50
<b>Chloride</b>	<b>210</b>		10		mg/L			06/05/13 19:02	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>1700</b>		10		mg/L			06/01/13 13:41	1
<b>Fluoride</b>	<b>0.65</b>		0.10		mg/L			06/04/13 11:13	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/31/13 17:17	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 17:57	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: DUPLICATE**

**Lab Sample ID: 500-57505-15**

Date Collected: 05/30/13 00:00

Matrix: Water

Date Received: 05/31/13 10:20

### 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			06/06/13 19:30	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 19:30	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 19:30	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		75 - 125		06/06/13 19:30	1
Toluene-d8 (Surr)	99		75 - 120		06/06/13 19:30	1
4-Bromofluorobenzene (Surr)	102		75 - 120		06/06/13 19:30	1
Dibromofluoromethane	101		75 - 120		06/06/13 19:30	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/10/13 23:06	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		06/04/13 10:17	06/11/13 15:39	1
<b>Arsenic</b>	<b>0.0019</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 21:07	1
<b>Barium</b>	<b>0.053</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 21:07	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:57	1
<b>Boron</b>	<b>0.057</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:57	1
<b>Cadmium</b>	<b>0.00059</b>		0.00050		mg/L		06/04/13 10:17	06/04/13 21:07	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:16	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 14:16	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 21:07	1
Iron	<0.10		0.10		mg/L		06/04/13 10:17	06/10/13 14:16	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:07	1
<b>Manganese</b>	<b>0.57</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 14:16	1
<b>Nickel</b>	<b>0.0032</b>		0.0020		mg/L		06/04/13 10:17	06/10/13 14:16	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 21:07	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:07	1
<b>Thallium</b>	<b>0.0027</b>		0.0020		mg/L		06/04/13 10:17	06/04/13 21:07	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:16	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 21:07	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/04/13 12:00	06/05/13 09:36	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:56	1
<b>Sulfate</b>	<b>780</b>		250		mg/L			06/10/13 23:25	50
<b>Chloride</b>	<b>180</b>		10		mg/L			06/05/13 19:02	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>1900</b>		10		mg/L			06/01/13 13:49	1
<b>Fluoride</b>	<b>1.1</b>		0.10		mg/L			06/08/13 12:48	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/31/13 17:18	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 17:59	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-57505-16**

Date Collected: 05/31/13 09:03

Matrix: Water

Date Received: 05/31/13 16:30

### 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			06/06/13 14:45	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 14:45	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 14:45	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		75 - 125		06/06/13 14:45	1
Toluene-d8 (Surr)	97		75 - 120		06/06/13 14:45	1
4-Bromofluorobenzene (Surr)	102		75 - 120		06/06/13 14:45	1
Dibromofluoromethane	87		75 - 120		06/06/13 14:45	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/10/13 23:22	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		06/04/13 10:17	06/11/13 15:41	1
<b>Arsenic</b>	<b>0.0027</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 21:09	1
<b>Barium</b>	<b>0.12</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 21:09	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:57	1
<b>Boron</b>	<b>1.0</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:57	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:09	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:19	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 14:19	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 21:09	1
<b>Iron</b>	<b>1.8</b>		0.10		mg/L		06/04/13 10:17	06/10/13 14:19	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:09	1
<b>Manganese</b>	<b>1.3</b>		0.0025		mg/L		06/04/13 10:17	06/10/13 14:19	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 14:19	1
<b>Selenium</b>	<b>0.0030</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 21:09	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:09	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 21:09	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:19	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 21:09	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/04/13 12:00	06/05/13 09:38	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:57	1
<b>Sulfate</b>	<b>580</b>		130		mg/L			06/11/13 03:28	25
<b>Chloride</b>	<b>99</b>		10		mg/L			06/05/13 19:03	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>1400</b>		10		mg/L			06/01/13 13:56	1
<b>Fluoride</b>	<b>0.38</b>		0.10		mg/L			06/04/13 11:26	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			06/01/13 11:34	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 18:01	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-7**

**Lab Sample ID: 500-57505-17**

Date Collected: 05/31/13 08:15

Matrix: Water

Date Received: 05/31/13 16:30

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			06/06/13 15:09	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 15:09	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 15:09	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		75 - 125					06/06/13 15:09	1
Toluene-d8 (Surr)	100		75 - 120					06/06/13 15:09	1
4-Bromofluorobenzene (Surr)	105		75 - 120					06/06/13 15:09	1
Dibromofluoromethane	87		75 - 120					06/06/13 15:09	1

Method: 314.0 - Perchlorate (IC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/10/13 23:37	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		06/04/13 10:17	06/11/13 15:43	1
<b>Arsenic</b>	<b>0.12</b>		0.0010		mg/L		06/04/13 10:17	06/04/13 21:12	1
<b>Barium</b>	<b>0.42</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 21:12	1
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:58	1
<b>Boron</b>	<b>0.52</b>	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:58	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:12	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:21	1
<b>Cobalt</b>	<b>0.0059</b>		0.0010		mg/L		06/04/13 10:17	06/10/13 14:21	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 21:12	1
<b>Iron</b>	<b>15</b>		0.10		mg/L		06/04/13 10:17	06/10/13 14:21	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:12	1
<b>Manganese</b>	<b>5.7</b>		0.025		mg/L		06/04/13 10:17	06/10/13 14:41	10
<b>Nickel</b>	<b>0.0063</b>		0.0020		mg/L		06/04/13 10:17	06/10/13 14:21	1
<b>Selenium</b>	<b>0.0028</b>		0.0025		mg/L		06/04/13 10:17	06/04/13 21:12	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 21:12	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 21:12	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 14:21	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 21:12	1

Method: 7470A - Mercury (CVAA) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/04/13 12:00	06/05/13 09:40	1

General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:58	1
<b>Sulfate</b>	<b>120</b>		25		mg/L			06/11/13 03:29	5
<b>Chloride</b>	<b>180</b>		10		mg/L			06/05/13 19:03	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/11/13 15:17	1
<b>Total Dissolved Solids</b>	<b>1000</b>		10		mg/L			06/01/13 13:59	1
<b>Fluoride</b>	<b>0.47</b>		0.10		mg/L			06/04/13 11:28	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			06/01/13 11:37	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 18:03	1

TestAmerica Chicago



## Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Qualifiers

#### Metals

Qualifier	Qualifier Description
A	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard Instrument related QC exceeds the control limits
F	MS or MSD exceeds the control limits

#### General Chemistry

Qualifier	Qualifier Description
4	MS, MSD The analyte present in the original sample is 4 times greater than 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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
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)

TestAmerica Chicago

## QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### GC/MS VOA

#### Analysis Batch: 188665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Total/NA	Water	8260B	
500-57505-2	MW-2	Total/NA	Water	8260B	
500-57505-2 MS	MW-2	Total/NA	Water	8260B	
500-57505-2 MSD	MW-2	Total/NA	Water	8260B	
LCS 500-188665/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-188665/6	Method Blank	Total/NA	Water	8260B	

#### Analysis Batch: 188754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-16	MW-6	Total/NA	Water	8260B	
500-57505-17	MW-7	Total/NA	Water	8260B	
LCS 500-188754/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-188754/6	Method Blank	Total/NA	Water	8260B	

#### Analysis Batch: 188756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-3	MW-3	Total/NA	Water	8260B	
500-57505-4	MW-4	Total/NA	Water	8260B	
500-57505-5	MW-5	Total/NA	Water	8260B	
500-57505-6	MW-10	Total/NA	Water	8260B	
500-57505-7	MW-16	Total/NA	Water	8260B	
500-57505-8	MW-8	Total/NA	Water	8260B	
500-57505-9	MW-9	Total/NA	Water	8260B	
500-57505-10	MW-11	Total/NA	Water	8260B	
500-57505-11	MW-12	Total/NA	Water	8260B	
500-57505-12	MW-13	Total/NA	Water	8260B	
500-57505-13	MW-14	Total/NA	Water	8260B	
500-57505-14	MW-15	Total/NA	Water	8260B	
500-57505-15	DUPLICATE	Total/NA	Water	8260B	
LCS 500-188756/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-188756/6	Method Blank	Total/NA	Water	8260B	

### HPLC/IC

#### Analysis Batch: 17979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Total/NA	Water	314 0	
500-57505-1 MS	MW-1	Total/NA	Water	314 0	
500-57505-1 MSD	MW-1	Total/NA	Water	314 0	
500-57505-2	MW-2	Total/NA	Water	314 0	
500-57505-3	MW-3	Total/NA	Water	314 0	
500-57505-4	MW-4	Total/NA	Water	314 0	
500-57505-5	MW-5	Total/NA	Water	314 0	
500-57505-6	MW-10	Total/NA	Water	314 0	
500-57505-7	MW-16	Total/NA	Water	314 0	
500-57505-8	MW-8	Total/NA	Water	314 0	
500-57505-9	MW-9	Total/NA	Water	314 0	
500-57505-10	MW-11	Total/NA	Water	314 0	
500-57505-11	MW-12	Total/NA	Water	314 0	
500-57505-12	MW-13	Total/NA	Water	314 0	

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## QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### HPLC/IC (Continued)

#### Analysis Batch: 17979 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-17979/8	Lab Control Sample	Total/NA	Water	314.0	
MB 320-17979/7	Method Blank	Total/NA	Water	314.0	
MRL 320-17979/6 MRL	Lab Control Sample	Total/NA	Water	314.0	

#### Analysis Batch: 18052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-13	MW-14	Total/NA	Water	314.0	
500-57505-14	MW-15	Total/NA	Water	314.0	
500-57505-15	DUPLICATE	Total/NA	Water	314.0	
500-57505-16	MW-6	Total/NA	Water	314.0	
500-57505-17	MW-7	Total/NA	Water	314.0	
LCS 320-18052/10	Lab Control Sample	Total/NA	Water	314.0	
MB 320-18052/9	Method Blank	Total/NA	Water	314.0	
MRL 320-18052/6 MRL	Lab Control Sample	Total/NA	Water	314.0	

### Metals

#### Prep Batch: 188334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	7470A	
500-57505-2	MW-2	Dissolved	Water	7470A	
500-57505-3	MW-3	Dissolved	Water	7470A	
500-57505-4	MW-4	Dissolved	Water	7470A	
500-57505-5	MW-5	Dissolved	Water	7470A	
500-57505-6	MW-10	Dissolved	Water	7470A	
500-57505-7	MW-16	Dissolved	Water	7470A	
500-57505-8	MW-8	Dissolved	Water	7470A	
500-57505-9	MW-9	Dissolved	Water	7470A	
500-57505-10	MW-11	Dissolved	Water	7470A	
500-57505-11	MW-12	Dissolved	Water	7470A	
500-57505-12	MW-13	Dissolved	Water	7470A	
LCS 500-188334/8-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-188334/7-A	Method Blank	Total/NA	Water	7470A	

#### Prep Batch: 188464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	Soluble Metals	
500-57505-1 DU	MW-1	Dissolved	Water	Soluble Metals	
500-57505-1 MS	MW-1	Dissolved	Water	Soluble Metals	
500-57505-1 MSD	MW-1	Dissolved	Water	Soluble Metals	
500-57505-2	MW-2	Dissolved	Water	Soluble Metals	
500-57505-3	MW-3	Dissolved	Water	Soluble Metals	
500-57505-4	MW-4	Dissolved	Water	Soluble Metals	
500-57505-5	MW-5	Dissolved	Water	Soluble Metals	
500-57505-6	MW-10	Dissolved	Water	Soluble Metals	
500-57505-7	MW-16	Dissolved	Water	Soluble Metals	
500-57505-8	MW-8	Dissolved	Water	Soluble Metals	
500-57505-9	MW-9	Dissolved	Water	Soluble Metals	
500-57505-10	MW-11	Dissolved	Water	Soluble Metals	
500-57505-11	MW-12	Dissolved	Water	Soluble Metals	

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## QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1



### Metals (Continued)

#### Prep Batch: 188464 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-12	MW-13	Dissolved	Water	Soluble Metals	
500-57505-13	MW-14	Dissolved	Water	Soluble Metals	
500-57505-14	MW-15	Dissolved	Water	Soluble Metals	
500-57505-15	DUPLICATE	Dissolved	Water	Soluble Metals	
500-57505-16	MW-6	Dissolved	Water	Soluble Metals	
500-57505-17	MW-7	Dissolved	Water	Soluble Metals	
LCS 500-188464/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	
MB 500-188464/1-A	Method Blank	Soluble	Water	Soluble Metals	

#### Prep Batch: 188480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-13	MW-14	Dissolved	Water	7470A	
500-57505-14	MW-15	Dissolved	Water	7470A	
500-57505-15	DUPLICATE	Dissolved	Water	7470A	
500-57505-16	MW-6	Dissolved	Water	7470A	
500-57505-17	MW-7	Dissolved	Water	7470A	
LCS 500-188480/8-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-188480/7-A	Method Blank	Total/NA	Water	7470A	

#### Analysis Batch: 188499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	7470A	188334
500-57505-2	MW-2	Dissolved	Water	7470A	188334
500-57505-3	MW-3	Dissolved	Water	7470A	188334
500-57505-4	MW-4	Dissolved	Water	7470A	188334
500-57505-5	MW-5	Dissolved	Water	7470A	188334
500-57505-6	MW-10	Dissolved	Water	7470A	188334
500-57505-7	MW-16	Dissolved	Water	7470A	188334
500-57505-8	MW-8	Dissolved	Water	7470A	188334
500-57505-9	MW-9	Dissolved	Water	7470A	188334
500-57505-10	MW-11	Dissolved	Water	7470A	188334
500-57505-11	MW-12	Dissolved	Water	7470A	188334
500-57505-12	MW-13	Dissolved	Water	7470A	188334
LCS 500-188334/8-A	Lab Control Sample	Total/NA	Water	7470A	188334
MB 500-188334/7-A	Method Blank	Total/NA	Water	7470A	188334

#### Analysis Batch: 188637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-13	MW-14	Dissolved	Water	7470A	188480
500-57505-14	MW-15	Dissolved	Water	7470A	188480
500-57505-15	DUPLICATE	Dissolved	Water	7470A	188480
500-57505-16	MW-6	Dissolved	Water	7470A	188480
500-57505-17	MW-7	Dissolved	Water	7470A	188480
LCS 500-188480/8-A	Lab Control Sample	Total/NA	Water	7470A	188480
MB 500-188480/7-A	Method Blank	Total/NA	Water	7470A	188480

#### Analysis Batch: 188650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	6020A	188464
500-57505-1 DU	MW-1	Dissolved	Water	6020A	188464
500-57505-1 MS	MW-1	Dissolved	Water	6020A	188464

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## QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Metals (Continued)

#### Analysis Batch: 188650 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1 MSD	MW-1	Dissolved	Water	6020A	188464
500-57505-2	MW-2	Dissolved	Water	6020A	188464
500-57505-3	MW-3	Dissolved	Water	6020A	188464
500-57505-4	MW-4	Dissolved	Water	6020A	188464
500-57505-5	MW-5	Dissolved	Water	6020A	188464
500-57505-6	MW-10	Dissolved	Water	6020A	188464
500-57505-7	MW-16	Dissolved	Water	6020A	188464
500-57505-8	MW-8	Dissolved	Water	6020A	188464
500-57505-9	MW-9	Dissolved	Water	6020A	188464
500-57505-10	MW-11	Dissolved	Water	6020A	188464
500-57505-11	MW-12	Dissolved	Water	6020A	188464
500-57505-12	MW-13	Dissolved	Water	6020A	188464
500-57505-13	MW-14	Dissolved	Water	6020A	188464
500-57505-14	MW-15	Dissolved	Water	6020A	188464
500-57505-15	DUPLICATE	Dissolved	Water	6020A	188464
500-57505-16	MW-6	Dissolved	Water	6020A	188464
500-57505-17	MW-7	Dissolved	Water	6020A	188464
LCS 500-188464/2-A	Lab Control Sample	Soluble	Water	6020A	188464
MB 500-188464/1-A	Method Blank	Soluble	Water	6020A	188464

#### Analysis Batch: 189245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	6020A	188464
500-57505-1 DU	MW-1	Dissolved	Water	6020A	188464
500-57505-1 MS	MW-1	Dissolved	Water	6020A	188464
500-57505-1 MSD	MW-1	Dissolved	Water	6020A	188464
500-57505-2	MW-2	Dissolved	Water	6020A	188464
500-57505-3	MW-3	Dissolved	Water	6020A	188464
500-57505-4	MW-4	Dissolved	Water	6020A	188464
500-57505-5	MW-5	Dissolved	Water	6020A	188464
500-57505-6	MW-10	Dissolved	Water	6020A	188464
500-57505-7	MW-16	Dissolved	Water	6020A	188464
500-57505-8	MW-8	Dissolved	Water	6020A	188464
500-57505-9	MW-9	Dissolved	Water	6020A	188464
500-57505-10	MW-11	Dissolved	Water	6020A	188464
500-57505-10	MW-11	Dissolved	Water	6020A	188464
500-57505-11	MW-12	Dissolved	Water	6020A	188464
500-57505-12	MW-13	Dissolved	Water	6020A	188464
500-57505-13	MW-14	Dissolved	Water	6020A	188464
500-57505-14	MW-15	Dissolved	Water	6020A	188464
500-57505-15	DUPLICATE	Dissolved	Water	6020A	188464
500-57505-16	MW-6	Dissolved	Water	6020A	188464
500-57505-17	MW-7	Dissolved	Water	6020A	188464
500-57505-17	MW-7	Dissolved	Water	6020A	188464
LCS 500-188464/2-A	Lab Control Sample	Soluble	Water	6020A	188464
MB 500-188464/1-A	Method Blank	Soluble	Water	6020A	188464

#### Analysis Batch: 189458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	6020A	188464
500-57505-1 DU	MW-1	Dissolved	Water	6020A	188464

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## QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Metals (Continued)

#### Analysis Batch: 189458 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1 MS	MW-1	Dissolved	Water	6020A	188464
500-57505-1 MSD	MW-1	Dissolved	Water	6020A	188464
500-57505-2	MW-2	Dissolved	Water	6020A	188464
500-57505-3	MW-3	Dissolved	Water	6020A	188464
500-57505-4	MW-4	Dissolved	Water	6020A	188464
500-57505-5	MW-5	Dissolved	Water	6020A	188464
500-57505-6	MW-10	Dissolved	Water	6020A	188464
500-57505-7	MW-16	Dissolved	Water	6020A	188464
500-57505-8	MW-8	Dissolved	Water	6020A	188464
500-57505-9	MW-9	Dissolved	Water	6020A	188464
500-57505-10	MW-11	Dissolved	Water	6020A	188464
500-57505-11	MW-12	Dissolved	Water	6020A	188464
500-57505-12	MW-13	Dissolved	Water	6020A	188464
500-57505-13	MW-14	Dissolved	Water	6020A	188464
500-57505-14	MW-15	Dissolved	Water	6020A	188464
500-57505-15	DUPLICATE	Dissolved	Water	6020A	188464
500-57505-16	MW-6	Dissolved	Water	6020A	188464
500-57505-17	MW-7	Dissolved	Water	6020A	188464
LCS 500-188464/2-A	Lab Control Sample	Soluble	Water	6020A	188464
MB 500-188464/1-A	Method Blank	Soluble	Water	6020A	188464

#### Analysis Batch: 189461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	6020A	188464
500-57505-1 DU	MW-1	Dissolved	Water	6020A	188464
500-57505-1 MS	MW-1	Dissolved	Water	6020A	188464
500-57505-1 MSD	MW-1	Dissolved	Water	6020A	188464
500-57505-2	MW-2	Dissolved	Water	6020A	188464
500-57505-3	MW-3	Dissolved	Water	6020A	188464
500-57505-4	MW-4	Dissolved	Water	6020A	188464
500-57505-5	MW-5	Dissolved	Water	6020A	188464
500-57505-6	MW-10	Dissolved	Water	6020A	188464
500-57505-7	MW-16	Dissolved	Water	6020A	188464
500-57505-8	MW-8	Dissolved	Water	6020A	188464
500-57505-9	MW-9	Dissolved	Water	6020A	188464
500-57505-10	MW-11	Dissolved	Water	6020A	188464
500-57505-11	MW-12	Dissolved	Water	6020A	188464
500-57505-12	MW-13	Dissolved	Water	6020A	188464
500-57505-13	MW-14	Dissolved	Water	6020A	188464
500-57505-14	MW-15	Dissolved	Water	6020A	188464
500-57505-15	DUPLICATE	Dissolved	Water	6020A	188464
500-57505-16	MW-6	Dissolved	Water	6020A	188464
500-57505-17	MW-7	Dissolved	Water	6020A	188464
LCS 500-188464/2-A	Lab Control Sample	Soluble	Water	6020A	188464
MB 500-188464/1-A	Method Blank	Soluble	Water	6020A	188464

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## QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1



### General Chemistry

#### Analysis Batch: 188207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-8	MW-8	Dissolved	Water	SM 4500 NO2 B	
500-57505-9	MW-9	Dissolved	Water	SM 4500 NO2 B	
500-57505-10	MW-11	Dissolved	Water	SM 4500 NO2 B	
500-57505-11	MW-12	Dissolved	Water	SM 4500 NO2 B	
500-57505-12	MW-13	Dissolved	Water	SM 4500 NO2 B	
500-57505-13	MW-14	Dissolved	Water	SM 4500 NO2 B	
500-57505-14	MW-15	Dissolved	Water	SM 4500 NO2 B	
500-57505-15	DUPLICATE	Dissolved	Water	SM 4500 NO2 B	
500-57505-15 MS	DUPLICATE	Dissolved	Water	SM 4500 NO2 B	
500-57505-15 MSD	DUPLICATE	Dissolved	Water	SM 4500 NO2 B	
LCS 500-188207/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-188207/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

#### Analysis Batch: 188246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	SM 2540C	
500-57505-2	MW-2	Dissolved	Water	SM 2540C	
500-57505-3	MW-3	Dissolved	Water	SM 2540C	
500-57505-4	MW-4	Dissolved	Water	SM 2540C	
500-57505-5	MW-5	Dissolved	Water	SM 2540C	
500-57505-6	MW-10	Dissolved	Water	SM 2540C	
500-57505-7	MW-16	Dissolved	Water	SM 2540C	
500-57505-8	MW-8	Dissolved	Water	SM 2540C	
500-57505-9	MW-9	Dissolved	Water	SM 2540C	
500-57505-10	MW-11	Dissolved	Water	SM 2540C	
500-57505-11	MW-12	Dissolved	Water	SM 2540C	
500-57505-12	MW-13	Dissolved	Water	SM 2540C	
500-57505-13	MW-14	Dissolved	Water	SM 2540C	
500-57505-14	MW-15	Dissolved	Water	SM 2540C	
LCS 500-188246/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-188246/1	Method Blank	Total/NA	Water	SM 2540C	

#### Analysis Batch: 188247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-15	DUPLICATE	Dissolved	Water	SM 2540C	
500-57505-15 DU	DUPLICATE	Dissolved	Water	SM 2540C	
500-57505-15 MS	DUPLICATE	Dissolved	Water	SM 2540C	
500-57505-16	MW-6	Dissolved	Water	SM 2540C	
500-57505-17	MW-7	Dissolved	Water	SM 2540C	
LCS 500-188247/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-188247/1	Method Blank	Total/NA	Water	SM 2540C	

#### Analysis Batch: 188432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-16	MW-6	Dissolved	Water	SM 4500 NO2 B	
500-57505-16 MS	MW-6	Dissolved	Water	SM 4500 NO2 B	
500-57505-16 MSD	MW-6	Dissolved	Water	SM 4500 NO2 B	
500-57505-17	MW-7	Dissolved	Water	SM 4500 NO2 B	
LCS 500-188432/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-188432/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

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## QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1



### General Chemistry (Continued)

#### Prep Batch: 188440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	9010B	
500-57505-1 MS	MW-1	Dissolved	Water	9010B	
500-57505-1 MSD	MW-1	Dissolved	Water	9010B	
500-57505-2	MW-2	Dissolved	Water	9010B	
500-57505-3	MW-3	Dissolved	Water	9010B	
500-57505-4	MW-4	Dissolved	Water	9010B	
500-57505-5	MW-5	Dissolved	Water	9010B	
500-57505-6	MW-10	Dissolved	Water	9010B	
500-57505-7	MW-16	Dissolved	Water	9010B	
500-57505-8	MW-8	Dissolved	Water	9010B	
500-57505-9	MW-9	Dissolved	Water	9010B	
500-57505-10	MW-11	Dissolved	Water	9010B	
500-57505-11	MW-12	Dissolved	Water	9010B	
500-57505-12	MW-13	Dissolved	Water	9010B	
500-57505-13	MW-14	Dissolved	Water	9010B	
500-57505-14	MW-15	Dissolved	Water	9010B	
500-57505-15	DUPLICATE	Dissolved	Water	9010B	
500-57505-16	MW-6	Dissolved	Water	9010B	
500-57505-17	MW-7	Dissolved	Water	9010B	
LCS 500-188440/2-A	Lab Control Sample	Total/NA	Water	9010B	
MB 500-188440/1-A	Method Blank	Total/NA	Water	9010B	

#### Analysis Batch: 188469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	SM 4500 NO2 B	
500-57505-1 MS	MW-1	Dissolved	Water	SM 4500 NO2 B	
500-57505-1 MSD	MW-1	Dissolved	Water	SM 4500 NO2 B	
500-57505-2	MW-2	Dissolved	Water	SM 4500 NO2 B	
500-57505-3	MW-3	Dissolved	Water	SM 4500 NO2 B	
500-57505-4	MW-4	Dissolved	Water	SM 4500 NO2 B	
500-57505-5	MW-5	Dissolved	Water	SM 4500 NO2 B	
500-57505-6	MW-10	Dissolved	Water	SM 4500 NO2 B	
500-57505-7	MW-16	Dissolved	Water	SM 4500 NO2 B	
LCS 500-188469/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-188469/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

#### Analysis Batch: 188504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	SM 4500 F C	
500-57505-5	MW-5	Dissolved	Water	SM 4500 F C	
500-57505-6	MW-10	Dissolved	Water	SM 4500 F C	
500-57505-8	MW-8	Dissolved	Water	SM 4500 F C	
500-57505-10	MW-11	Dissolved	Water	SM 4500 F C	
500-57505-11	MW-12	Dissolved	Water	SM 4500 F C	
500-57505-12	MW-13	Dissolved	Water	SM 4500 F C	
500-57505-14	MW-15	Dissolved	Water	SM 4500 F C	
500-57505-16	MW-6	Dissolved	Water	SM 4500 F C	
500-57505-17	MW-7	Dissolved	Water	SM 4500 F C	
LCS 500-188504/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-188504/3	Method Blank	Total/NA	Water	SM 4500 F C	

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## QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1



### General Chemistry (Continued)

#### Analysis Batch: 188735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	9251	
500-57505-1 MS	MW-1	Dissolved	Water	9251	
500-57505-1 MSD	MW-1	Dissolved	Water	9251	
500-57505-2	MW-2	Dissolved	Water	9251	
500-57505-3	MW-3	Dissolved	Water	9251	
500-57505-4	MW-4	Dissolved	Water	9251	
500-57505-5	MW-5	Dissolved	Water	9251	
500-57505-6	MW-10	Dissolved	Water	9251	
500-57505-7	MW-16	Dissolved	Water	9251	
500-57505-8	MW-8	Dissolved	Water	9251	
500-57505-9	MW-9	Dissolved	Water	9251	
500-57505-10	MW-11	Dissolved	Water	9251	
500-57505-11	MW-12	Dissolved	Water	9251	
500-57505-12	MW-13	Dissolved	Water	9251	
500-57505-13	MW-14	Dissolved	Water	9251	
500-57505-14	MW-15	Dissolved	Water	9251	
500-57505-15	DUPLICATE	Dissolved	Water	9251	
500-57505-16	MW-6	Dissolved	Water	9251	
500-57505-17	MW-7	Dissolved	Water	9251	
LCS 500-188735/17	Lab Control Sample	Total/NA	Water	9251	
MB 500-188735/16	Method Blank	Total/NA	Water	9251	

#### Analysis Batch: 188768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	9014	188440
500-57505-1 MS	MW-1	Dissolved	Water	9014	188440
500-57505-1 MSD	MW-1	Dissolved	Water	9014	188440
500-57505-2	MW-2	Dissolved	Water	9014	188440
500-57505-3	MW-3	Dissolved	Water	9014	188440
500-57505-4	MW-4	Dissolved	Water	9014	188440
500-57505-5	MW-5	Dissolved	Water	9014	188440
500-57505-6	MW-10	Dissolved	Water	9014	188440
500-57505-7	MW-16	Dissolved	Water	9014	188440
500-57505-8	MW-8	Dissolved	Water	9014	188440
500-57505-9	MW-9	Dissolved	Water	9014	188440
500-57505-10	MW-11	Dissolved	Water	9014	188440
500-57505-11	MW-12	Dissolved	Water	9014	188440
500-57505-12	MW-13	Dissolved	Water	9014	188440
500-57505-13	MW-14	Dissolved	Water	9014	188440
500-57505-14	MW-15	Dissolved	Water	9014	188440
500-57505-15	DUPLICATE	Dissolved	Water	9014	188440
500-57505-16	MW-6	Dissolved	Water	9014	188440
500-57505-17	MW-7	Dissolved	Water	9014	188440
LCS 500-188440/2-A	Lab Control Sample	Total/NA	Water	9014	188440
MB 500-188440/1-A	Method Blank	Total/NA	Water	9014	188440

#### Analysis Batch: 189185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-2	MW-2	Dissolved	Water	SM 4500 F C	
500-57505-3	MW-3	Dissolved	Water	SM 4500 F C	
500-57505-4	MW-4	Dissolved	Water	SM 4500 F C	

TestAmerica Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

## General Chemistry (Continued)

### Analysis Batch: 189185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-7	MW-16	Dissolved	Water	SM 4500 F C	
500-57505-9	MW-9	Dissolved	Water	SM 4500 F C	
500-57505-13	MW-14	Dissolved	Water	SM 4500 F C	
500-57505-15	DUPLICATE	Dissolved	Water	SM 4500 F C	
LCS 500-189185/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-189185/3	Method Blank	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 189260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	SM 4500 NO3 F	
500-57505-2	MW-2	Dissolved	Water	SM 4500 NO3 F	
500-57505-3	MW-3	Dissolved	Water	SM 4500 NO3 F	
500-57505-4	MW-4	Dissolved	Water	SM 4500 NO3 F	
500-57505-5	MW-5	Dissolved	Water	SM 4500 NO3 F	
500-57505-6	MW-10	Dissolved	Water	SM 4500 NO3 F	
500-57505-7	MW-16	Dissolved	Water	SM 4500 NO3 F	
500-57505-8	MW-8	Dissolved	Water	SM 4500 NO3 F	
500-57505-9	MW-9	Dissolved	Water	SM 4500 NO3 F	
500-57505-10	MW-11	Dissolved	Water	SM 4500 NO3 F	
500-57505-11	MW-12	Dissolved	Water	SM 4500 NO3 F	
500-57505-11 MS	MW-12	Dissolved	Water	SM 4500 NO3 F	
500-57505-11 MSD	MW-12	Dissolved	Water	SM 4500 NO3 F	
LCS 500-189260/13	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-189260/12	Method Blank	Total/NA	Water	SM 4500 NO3 F	

### Analysis Batch: 189280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-12	MW-13	Dissolved	Water	SM 4500 NO3 F	
500-57505-13	MW-14	Dissolved	Water	SM 4500 NO3 F	
500-57505-14	MW-15	Dissolved	Water	SM 4500 NO3 F	
500-57505-15	DUPLICATE	Dissolved	Water	SM 4500 NO3 F	
500-57505-16	MW-6	Dissolved	Water	SM 4500 NO3 F	
500-57505-17	MW-7	Dissolved	Water	SM 4500 NO3 F	
LCS 500-189280/4	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-189280/3	Method Blank	Total/NA	Water	SM 4500 NO3 F	

### Analysis Batch: 189287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	9038	
500-57505-2	MW-2	Dissolved	Water	9038	
500-57505-3	MW-3	Dissolved	Water	9038	
500-57505-4	MW-4	Dissolved	Water	9038	
500-57505-5	MW-5	Dissolved	Water	9038	
500-57505-6	MW-10	Dissolved	Water	9038	
500-57505-7	MW-16	Dissolved	Water	9038	
500-57505-8	MW-8	Dissolved	Water	9038	
500-57505-9	MW-9	Dissolved	Water	9038	
500-57505-10	MW-11	Dissolved	Water	9038	
500-57505-11	MW-12	Dissolved	Water	9038	
500-57505-12	MW-13	Dissolved	Water	9038	
500-57505-13	MW-14	Dissolved	Water	9038	

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## QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1



### General Chemistry (Continued)

#### Analysis Batch: 189287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-14	MW-15	Dissolved	Water	9038	
500-57505-15	DUPLICATE	Dissolved	Water	9038	
LCS 500-189287/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-189287/3	Method Blank	Total/NA	Water	9038	

#### Analysis Batch: 189288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-16	MW-6	Dissolved	Water	9038	
500-57505-17	MW-7	Dissolved	Water	9038	
LCS 500-189288/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-189288/3	Method Blank	Total/NA	Water	9038	

#### Analysis Batch: 189393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57505-1	MW-1	Dissolved	Water	Nitrate by calc	
500-57505-2	MW-2	Dissolved	Water	Nitrate by calc	
500-57505-3	MW-3	Dissolved	Water	Nitrate by calc	
500-57505-4	MW-4	Dissolved	Water	Nitrate by calc	
500-57505-5	MW-5	Dissolved	Water	Nitrate by calc	
500-57505-6	MW-10	Dissolved	Water	Nitrate by calc	
500-57505-7	MW-16	Dissolved	Water	Nitrate by calc	
500-57505-8	MW-8	Dissolved	Water	Nitrate by calc	
500-57505-9	MW-9	Dissolved	Water	Nitrate by calc	
500-57505-10	MW-11	Dissolved	Water	Nitrate by calc	
500-57505-11	MW-12	Dissolved	Water	Nitrate by calc	
500-57505-12	MW-13	Dissolved	Water	Nitrate by calc	
500-57505-13	MW-14	Dissolved	Water	Nitrate by calc	
500-57505-14	MW-15	Dissolved	Water	Nitrate by calc	
500-57505-15	DUPLICATE	Dissolved	Water	Nitrate by calc	
500-57505-16	MW-6	Dissolved	Water	Nitrate by calc	
500-57505-17	MW-7	Dissolved	Water	Nitrate by calc	

## Surrogate Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### 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 (75-125)	TOL (75-120)	BFB (75-120)	DBFM (75-120)
500-57505-1	MW-1	83	100	83	90
500-57505-2	MW-2	99	93	93	101
500-57505-2 MS	MW-2	95	98	99	101
500-57505-2 MSD	MW-2	97	92	94	102
500-57505-3	MW-3	105	100	107	97
500-57505-4	MW-4	107	101	102	100
500-57505-5	MW-5	107	100	103	99
500-57505-6	MW-10	108	99	103	100
500-57505-7	MW-16	107	99	102	101
500-57505-8	MW-8	108	99	102	103
500-57505-9	MW-9	114	100	102	104
500-57505-10	MW-11	113	101	101	103
500-57505-11	MW-12	115	99	104	102
500-57505-12	MW-13	112	100	103	103
500-57505-13	MW-14	113	99	103	103
500-57505-14	MW-15	119	100	105	102
500-57505-15	DUPLICATE	119	99	102	101
500-57505-16	MW-6	84	97	102	87
500-57505-17	MW-7	83	100	105	87
LCS 500-188665/4	Lab Control Sample	96	98	91	101
LCS 500-188754/4	Lab Control Sample	80	101	99	92
LCS 500-188756/4	Lab Control Sample	102	100	108	96
MB 500-188665/6	Method Blank	95	98	93	102
MB 500-188754/6	Method Blank	85	96	101	89
MB 500-188756/6	Method Blank	100	98	103	97

#### Surrogate Legend

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

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

**Lab Sample ID: MB 500-188665/6**  
**Matrix: Water**  
**Analysis Batch: 188665**

**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			06/06/13 00:21	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 00:21	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 00:21	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 00:21	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	95		75 - 125		06/06/13 00:21	1
Toluene-d8 (Surr)	98		75 - 120		06/06/13 00:21	1
4-Bromofluorobenzene (Surr)	93		75 - 120		06/06/13 00:21	1
Dibromofluoromethane	102		75 - 120		06/06/13 00:21	1

**Lab Sample ID: LCS 500-188665/4**  
**Matrix: Water**  
**Analysis Batch: 188665**

**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	0.0481		mg/L		96	70 - 120
Toluene	0.0500	0.0501		mg/L		100	70 - 120
Ethylbenzene	0.0500	0.0524		mg/L		105	75 - 120
Xylenes, Total	0.100	0.104		mg/L		104	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		75 - 125
Toluene-d8 (Surr)	98		75 - 120
4-Bromofluorobenzene (Surr)	91		75 - 120
Dibromofluoromethane	101		75 - 120

**Lab Sample ID: 500-57505-2 MS**  
**Matrix: Water**  
**Analysis Batch: 188665**

**Client Sample ID: MW-2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Benzene	<0.00050		0.0500	0.0492		mg/L		98	70 - 120
Toluene	<0.00050		0.0500	0.0506		mg/L		101	70 - 120
Ethylbenzene	<0.00050		0.0500	0.0488		mg/L		98	75 - 120
Xylenes, Total	<0.0010		0.100	0.107		mg/L		107	70 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		75 - 125
Toluene-d8 (Surr)	98		75 - 120
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane	101		75 - 120

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## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

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

**Lab Sample ID: 500-57505-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 188665**

**Client Sample ID: MW-2**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	<0.00050		0.0500	0.0494		mg/L		99	70 - 120	0	20
Toluene	<0.00050		0.0500	0.0457		mg/L		91	70 - 120	10	20
Ethylbenzene	<0.00050		0.0500	0.0501		mg/L		100	75 - 120	3	20
Xylenes, Total	<0.0010		0.100	0.0993		mg/L		99	70 - 120	8	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		75 - 125
Toluene-d8 (Surr)	92		75 - 120
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane	102		75 - 120

**Lab Sample ID: MB 500-188754/6**  
**Matrix: Water**  
**Analysis Batch: 188754**

**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			06/06/13 10:14	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 10:14	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 10:14	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 10:14	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	85		75 - 125		06/06/13 10:14	1
Toluene-d8 (Surr)	96		75 - 120		06/06/13 10:14	1
4-Bromofluorobenzene (Surr)	101		75 - 120		06/06/13 10:14	1
Dibromofluoromethane	89		75 - 120		06/06/13 10:14	1

**Lab Sample ID: LCS 500-188754/4**  
**Matrix: Water**  
**Analysis Batch: 188754**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Benzene	0.0500	0.0436		mg/L		87	70 - 120
Toluene	0.0500	0.0483		mg/L		97	70 - 120
Ethylbenzene	0.0500	0.0465		mg/L		93	75 - 120
Xylenes, Total	0.100	0.0905		mg/L		90	70 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	80		75 - 125
Toluene-d8 (Surr)	101		75 - 120
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane	92		75 - 120

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# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

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

Lab Sample ID: MB 500-188756/6

Matrix: Water

Analysis Batch: 188756

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			06/06/13 09:56	1
Toluene	<0.00050		0.00050		mg/L			06/06/13 09:56	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/06/13 09:56	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/06/13 09:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		06/06/13 09:56	1
Toluene-d8 (Surr)	98		75 - 120		06/06/13 09:56	1
4-Bromofluorobenzene (Surr)	103		75 - 120		06/06/13 09:56	1
Dibromofluoromethane	97		75 - 120		06/06/13 09:56	1

Lab Sample ID: LCS 500-188756/4

Matrix: Water

Analysis Batch: 188756

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0449		mg/L		90	70 - 120
Toluene	0.0500	0.0485		mg/L		97	70 - 120
Ethylbenzene	0.0500	0.0487		mg/L		97	75 - 120
Xylenes, Total	0.100	0.109		mg/L		109	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		75 - 125
Toluene-d8 (Surr)	100		75 - 120
4-Bromofluorobenzene (Surr)	108		75 - 120
Dibromofluoromethane	96		75 - 120

## Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-17979/7

Matrix: Water

Analysis Batch: 17979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/07/13 14:07	1

Lab Sample ID: LCS 320-17979/8

Matrix: Water

Analysis Batch: 17979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.0507		mg/L		101	85 - 115

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# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

## Method: 314.0 - Perchlorate (IC) (Continued)

**Lab Sample ID: MRL 320-17979/6 MRL**  
**Matrix: Water**  
**Analysis Batch: 17979**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.06		ug/L		101	75 - 125

**Lab Sample ID: 500-57505-1 MS**  
**Matrix: Water**  
**Analysis Batch: 17979**

**Client Sample ID: MW-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	<0.0040		0.0500	0.0447		mg/L		89	80 - 120

**Lab Sample ID: 500-57505-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 17979**

**Client Sample ID: MW-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	<0.0040		0.0500	0.0421		mg/L		84	80 - 120	6	20

**Lab Sample ID: MB 320-18052/9**  
**Matrix: Water**  
**Analysis Batch: 18052**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Perchlorate	<0.0040		0.0040		mg/L			06/10/13 16:57	1

**Lab Sample ID: LCS 320-18052/10**  
**Matrix: Water**  
**Analysis Batch: 18052**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.0529		mg/L		106	85 - 115

**Lab Sample ID: MRL 320-18052/6 MRL**  
**Matrix: Water**  
**Analysis Batch: 18052**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.05		ug/L		101	75 - 125

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

**Lab Sample ID: 500-57505-1 MS**  
**Matrix: Water**  
**Analysis Batch: 188650**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**  
**Prep Batch: 188464**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.0010		0.100	0.117		mg/L		116	75 - 125
Barium	0.078		0.500	0.590		mg/L		102	75 - 125
Cadmium	<0.00050		0.0500	0.0521		mg/L		104	75 - 125
Copper	<0.0020		0.250	0.261		mg/L		104	75 - 125
Lead	0.00080		0.100	0.104		mg/L		104	75 - 125

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## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

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

**Lab Sample ID: 500-57505-1 MS**  
**Matrix: Water**  
**Analysis Batch: 188650**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**  
**Prep Batch: 188464**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				Limit	Limit
Selenium	<0.0025		0.100	0.126	F	mg/L		126	75 - 125	
Silver	<0.00050		0.0500	0.0415		mg/L		83	75 - 125	
Thallium	<0.0020		0.100	0.105		mg/L		105	75 - 125	
Zinc	<0.020		0.500	0.534		mg/L		107	75 - 125	

**Lab Sample ID: 500-57505-1 MS**  
**Matrix: Water**  
**Analysis Batch: 189245**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**  
**Prep Batch: 188464**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				Limit	Limit
Chromium	<0.0050		0.200	0.201		mg/L		100	75 - 125	
Cobalt	<0.0010		0.500	0.493		mg/L		98	75 - 125	
Iron	0.43		1.00	1.54		mg/L		110	75 - 125	
Manganese	0.027		0.500	0.527		mg/L		100	75 - 125	
Nickel	<0.0020		0.500	0.498		mg/L		99	75 - 125	
Vanadium	<0.0050		0.500	0.513		mg/L		102	75 - 125	

**Lab Sample ID: 500-57505-1 MS**  
**Matrix: Water**  
**Analysis Batch: 189461**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**  
**Prep Batch: 188464**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				Limit	Limit
Antimony	0.0048		0.500	0.415		mg/L		82	75 - 125	

**Lab Sample ID: 500-57505-1 MS**  
**Matrix: Water**  
**Analysis Batch: 189458**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**  
**Prep Batch: 188464**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				Limit	Limit
Beryllium	<0.0010	^	0.0500	0.0481	^	mg/L		96	75 - 125	
Boron	0.47	^	1.00	1.52	^	mg/L		105	75 - 125	

**Lab Sample ID: 500-57505-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 188650**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**  
**Prep Batch: 188464**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits		RPD Limit	
				Result	Qualifier				Limit	Limit	RPD	Limit
Arsenic	<0.0010		0.100	0.120		mg/L		119	75 - 125	3	20	
Barium	0.078		0.500	0.604		mg/L		105	75 - 125	2	20	
Cadmium	<0.00050		0.0500	0.0533		mg/L		107	75 - 125	2	20	
Copper	<0.0020		0.250	0.269		mg/L		107	75 - 125	3	20	
Lead	0.00080		0.100	0.109		mg/L		108	75 - 125	4	20	
Selenium	<0.0025		0.100	0.128	F	mg/L		128	75 - 125	2	20	
Silver	<0.00050		0.0500	0.0423		mg/L		85	75 - 125	2	20	
Thallium	<0.0020		0.100	0.109		mg/L		109	75 - 125	3	20	
Zinc	<0.020		0.500	0.554		mg/L		111	75 - 125	4	20	

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

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

Lab Sample ID: 500-57505-1 MSD										Client Sample ID: MW-1		
Matrix: Water										Prep Type: Dissolved		
Analysis Batch: 189245										Prep Batch: 188464		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chromium	<0.0050		0.200	0.198		mg/L		98	75 - 125	2	20	
Cobalt	<0.0010		0.500	0.484		mg/L		97	75 - 125	2	20	
Iron	0.43		1.00	1.47		mg/L		104	75 - 125	4	20	
Manganese	0.027		0.500	0.519		mg/L		98	75 - 125	2	20	
Nickel	<0.0020		0.500	0.488		mg/L		97	75 - 125	2	20	
Vanadium	<0.0050		0.500	0.504		mg/L		101	75 - 125	2	20	

Lab Sample ID: 500-57505-1 MSD										Client Sample ID: MW-1		
Matrix: Water										Prep Type: Dissolved		
Analysis Batch: 189461										Prep Batch: 188464		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Antimony	0.0048		0.500	0.436		mg/L		86	75 - 125	5	20	

Lab Sample ID: 500-57505-1 MSD										Client Sample ID: MW-1		
Matrix: Water										Prep Type: Dissolved		
Analysis Batch: 189458										Prep Batch: 188464		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Beryllium	<0.0010	^	0.0500	0.0485	^	mg/L		97	75 - 125	1	20	
Boron	0.47	^	1.00	1.55	^	mg/L		108	75 - 125	2	20	

Lab Sample ID: 500-57505-1 DU										Client Sample ID: MW-1		
Matrix: Water										Prep Type: Dissolved		
Analysis Batch: 188650										Prep Batch: 188464		
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit		
Arsenic	<0.0010		<0.0010		mg/L				NC	20		
Barium	0.078		0.0768		mg/L				2	20		
Cadmium	<0.00050		<0.00050		mg/L				NC	20		
Copper	<0.0020		<0.0020		mg/L				NC	20		
Lead	0.00080		0.000747		mg/L				7	20		
Selenium	<0.0025		<0.0025		mg/L				NC	20		
Silver	<0.00050		<0.00050		mg/L				NC	20		
Thallium	<0.0020		<0.0020		mg/L				NC	20		
Zinc	<0.020		<0.020		mg/L				NC	20		

Lab Sample ID: 500-57505-1 DU										Client Sample ID: MW-1		
Matrix: Water										Prep Type: Dissolved		
Analysis Batch: 189245										Prep Batch: 188464		
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit		
Chromium	<0.0050		<0.0050		mg/L				NC	20		
Cobalt	<0.0010		<0.0010		mg/L				NC	20		
Iron	0.43		0.463		mg/L				7	20		
Manganese	0.027		0.0282		mg/L				4	20		
Nickel	<0.0020		<0.0020		mg/L				NC	20		
Vanadium	<0.0050		<0.0050		mg/L				NC	20		

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

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

**Lab Sample ID: 500-57505-1 DU**  
**Matrix: Water**  
**Analysis Batch: 189461**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**  
**Prep Batch: 188464**

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Antimony	0.0048		<0.0030		mg/L		NC	20

**Lab Sample ID: 500-57505-1 DU**  
**Matrix: Water**  
**Analysis Batch: 189458**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**  
**Prep Batch: 188464**

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Beryllium	<0.0010	^	<0.0010	^	mg/L		NC	20
Boron	0.47	^	0.470	^	mg/L		0.3	20

**Lab Sample ID: MB 500-188464/1-A**  
**Matrix: Water**  
**Analysis Batch: 188650**

**Client Sample ID: Method Blank**  
**Prep Type: Soluble**  
**Prep Batch: 188464**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010		mg/L		06/04/13 10:17	06/04/13 20:03	1
Barium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 20:03	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:03	1
Copper	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:03	1
Lead	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:03	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 10:17	06/04/13 20:03	1
Silver	<0.00050		0.00050		mg/L		06/04/13 10:17	06/04/13 20:03	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 10:17	06/04/13 20:03	1
Zinc	<0.020		0.020		mg/L		06/04/13 10:17	06/04/13 20:03	1

**Lab Sample ID: MB 500-188464/1-A**  
**Matrix: Water**  
**Analysis Batch: 189245**

**Client Sample ID: Method Blank**  
**Prep Type: Soluble**  
**Prep Batch: 188464**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:16	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 10:17	06/10/13 13:16	1
Iron	<0.10		0.10		mg/L		06/04/13 10:17	06/10/13 13:16	1
Manganese	<0.0025		0.0025		mg/L		06/04/13 10:17	06/10/13 13:16	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 10:17	06/10/13 13:16	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 10:17	06/10/13 13:16	1

**Lab Sample ID: MB 500-188464/1-A**  
**Matrix: Water**  
**Analysis Batch: 189461**

**Client Sample ID: Method Blank**  
**Prep Type: Soluble**  
**Prep Batch: 188464**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/04/13 10:17	06/11/13 15:58	1

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

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

Lab Sample ID: MB 500-188464/1-A			Client Sample ID: Method Blank						
Matrix: Water			Prep Type: Soluble						
Analysis Batch: 189458			Prep Batch: 188464						
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010	^	0.0010		mg/L		06/04/13 10:17	06/11/13 17:34	1
Boron	<0.050	^	0.050		mg/L		06/04/13 10:17	06/11/13 17:34	1

Lab Sample ID: LCS 500-188464/2-A			Client Sample ID: Lab Control Sample						
Matrix: Water			Prep Type: Soluble						
Analysis Batch: 188650			Prep Batch: 188464						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	0.100	0.101		mg/L		101	80 - 120		
Barium	0.500	0.508		mg/L		102	80 - 120		
Cadmium	0.0500	0.0514		mg/L		103	80 - 120		
Copper	0.250	0.257		mg/L		103	80 - 120		
Lead	0.100	0.102		mg/L		102	80 - 120		
Selenium	0.100	0.101		mg/L		101	80 - 120		
Silver	0.0500	0.0425		mg/L		85	80 - 120		
Thallium	0.100	0.103		mg/L		103	80 - 120		
Zinc	0.500	0.519		mg/L		104	80 - 120		

Lab Sample ID: LCS 500-188464/2-A			Client Sample ID: Lab Control Sample						
Matrix: Water			Prep Type: Soluble						
Analysis Batch: 189245			Prep Batch: 188464						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium	0.200	0.205		mg/L		103	80 - 120		
Cobalt	0.500	0.515		mg/L		103	80 - 120		
Iron	1.00	1.02		mg/L		102	80 - 120		
Manganese	0.500	0.506		mg/L		101	80 - 120		
Nickel	0.500	0.529		mg/L		106	80 - 120		
Vanadium	0.500	0.509		mg/L		102	80 - 120		

Lab Sample ID: LCS 500-188464/2-A			Client Sample ID: Lab Control Sample						
Matrix: Water			Prep Type: Soluble						
Analysis Batch: 189461			Prep Batch: 188464						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony	0.500	0.453		mg/L		91	80 - 120		

Lab Sample ID: LCS 500-188464/2-A			Client Sample ID: Lab Control Sample						
Matrix: Water			Prep Type: Soluble						
Analysis Batch: 189458			Prep Batch: 188464						
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Beryllium	0.0500	0.0468	^	mg/L		94	80 - 120		
Boron	1.00	1.01	^	mg/L		101	80 - 120		

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1



## Method: 7470A - Mercury (CVAA)

**Lab Sample ID:** MB 500-188334/7-A  
**Matrix:** Water  
**Analysis Batch:** 188499

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 188334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/13 15:30	06/04/13 12:18	1

**Lab Sample ID:** LCS 500-188334/8-A  
**Matrix:** Water  
**Analysis Batch:** 188499

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 188334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00208		mg/L		104	80 - 120

**Lab Sample ID:** MB 500-188480/7-A  
**Matrix:** Water  
**Analysis Batch:** 188637

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 188480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/04/13 12:00	06/05/13 09:23	1

**Lab Sample ID:** LCS 500-188480/8-A  
**Matrix:** Water  
**Analysis Batch:** 188637

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 188480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00204		mg/L		102	80 - 120

## Method: 9014 - Cyanide

**Lab Sample ID:** MB 500-188440/1-A  
**Matrix:** Water  
**Analysis Batch:** 188768

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 188440

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:50	1

**Lab Sample ID:** LCS 500-188440/2-A  
**Matrix:** Water  
**Analysis Batch:** 188768

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 188440

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.110		mg/L		110	80 - 120

**Lab Sample ID:** 500-57505-1 MS  
**Matrix:** Water  
**Analysis Batch:** 188768

**Client Sample ID:** MW-1  
**Prep Type:** Dissolved  
**Prep Batch:** 188440

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	<0.010		0.0400	0.0429		mg/L		107	75 - 125

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

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## Method: 9014 - Cyanide (Continued)

<b>Lab Sample ID: 500-57505-1 MSD</b> Matrix: Water Analysis Batch: 188768							<b>Client Sample ID: MW-1</b> Prep Type: Dissolved Prep Batch: 188440					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Cyanide, Total	<0.010		0.0400	0.0433		mg/L		108	75 - 125	1	20	

## Method: 9038 - Sulfate, Turbidimetric

<b>Lab Sample ID: MB 500-189287/3</b> Matrix: Water Analysis Batch: 189287							<b>Client Sample ID: Method Blank</b> Prep Type: Total/NA				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Sulfate	<5.0		5.0		mg/L			06/10/13 23:07	1		

<b>Lab Sample ID: LCS 500-189287/4</b> Matrix: Water Analysis Batch: 189287							<b>Client Sample ID: Lab Control Sample</b> Prep Type: Total/NA				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits				
Sulfate	20.0	20.2		mg/L		101	80 - 120				

<b>Lab Sample ID: MB 500-189288/3</b> Matrix: Water Analysis Batch: 189288							<b>Client Sample ID: Method Blank</b> Prep Type: Total/NA				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Sulfate	<5.0		5.0		mg/L			06/11/13 03:26	1		

<b>Lab Sample ID: LCS 500-189288/4</b> Matrix: Water Analysis Batch: 189288							<b>Client Sample ID: Lab Control Sample</b> 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				

## Method: 9251 - Chloride

<b>Lab Sample ID: MB 500-188735/16</b> Matrix: Water Analysis Batch: 188735							<b>Client Sample ID: Method Blank</b> Prep Type: Total/NA				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<2.0		2.0		mg/L			06/05/13 18:14	1		

<b>Lab Sample ID: LCS 500-188735/17</b> Matrix: Water Analysis Batch: 188735							<b>Client Sample ID: Lab Control Sample</b> Prep Type: Total/NA				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits				
Chloride	50.0	52.8		mg/L		106	80 - 120				

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

## Method: 9251 - Chloride (Continued)

**Lab Sample ID: 500-57505-1 MS**  
**Matrix: Water**  
**Analysis Batch: 188735**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	160		50.0	212		mg/L		109	75 - 125

**Lab Sample ID: 500-57505-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 188735**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	160		50.0	208		mg/L		102	75 - 125	2	20

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

**Lab Sample ID: MB 500-188246/1**  
**Matrix: Water**  
**Analysis Batch: 188246**

**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			06/01/13 12:44	1

**Lab Sample ID: LCS 500-188246/2**  
**Matrix: Water**  
**Analysis Batch: 188246**

**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	246		mg/L		98	80 - 120

**Lab Sample ID: MB 500-188247/1**  
**Matrix: Water**  
**Analysis Batch: 188247**

**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			06/01/13 13:44	1

**Lab Sample ID: LCS 500-188247/2**  
**Matrix: Water**  
**Analysis Batch: 188247**

**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	218		mg/L		87	80 - 120

**Lab Sample ID: 500-57505-15 MS**  
**Matrix: Water**  
**Analysis Batch: 188247**

**Client Sample ID: DUPLICATE**  
**Prep Type: Dissolved**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1900		250	2150	4	mg/L		117	75 - 125

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

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- 14
- 15

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

Lab Sample ID: 500-57505-15 DU  
 Matrix: Water  
 Analysis Batch: 188247

Client Sample ID: DUPLICATE  
 Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Total Dissolved Solids	1900		1900		mg/L			2	20

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-188504/3  
 Matrix: Water  
 Analysis Batch: 188504

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoride	<0.10		0.10		mg/L			06/04/13 10:49	1

Lab Sample ID: LCS 500-188504/4  
 Matrix: Water  
 Analysis Batch: 188504

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: MB 500-189185/3  
 Matrix: Water  
 Analysis Batch: 189185

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoride	<0.10		0.10		mg/L			06/08/13 11:44	1

Lab Sample ID: LCS 500-189185/4  
 Matrix: Water  
 Analysis Batch: 189185

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

## Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-188207/3  
 Matrix: Water  
 Analysis Batch: 188207

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/31/13 17:15	1

Lab Sample ID: LCS 500-188207/4  
 Matrix: Water  
 Analysis Batch: 188207

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Chicago



# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

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

<b>Lab Sample ID: MB 500-188432/3</b>						<b>Client Sample ID: Method Blank</b>			
<b>Matrix: Water</b>						<b>Prep Type: Total/NA</b>			
<b>Analysis Batch: 188432</b>									
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	Result	Qualifier	0.020		mg/L			06/01/13 11:31	1

<b>Lab Sample ID: LCS 500-188432/4</b>						<b>Client Sample ID: Lab Control Sample</b>			
<b>Matrix: Water</b>						<b>Prep Type: Total/NA</b>			
<b>Analysis Batch: 188432</b>									
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
Nitrogen, Nitrite	Added	Result	Qualifier	mg/L		104	Limits	80 - 120	

<b>Lab Sample ID: MB 500-188469/3</b>						<b>Client Sample ID: Method Blank</b>			
<b>Matrix: Water</b>						<b>Prep Type: Total/NA</b>			
<b>Analysis Batch: 188469</b>									
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	Result	Qualifier	0.020		mg/L			05/30/13 15:00	1

<b>Lab Sample ID: LCS 500-188469/4</b>						<b>Client Sample ID: Lab Control Sample</b>			
<b>Matrix: Water</b>						<b>Prep Type: Total/NA</b>			
<b>Analysis Batch: 188469</b>									
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
Nitrogen, Nitrite	Added	Result	Qualifier	mg/L		99	Limits	80 - 120	

<b>Lab Sample ID: 500-57505-15 MS</b>						<b>Client Sample ID: DUPLICATE</b>			
<b>Matrix: Water</b>						<b>Prep Type: Dissolved</b>			
<b>Analysis Batch: 188207</b>									
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
Nitrogen, Nitrite	Result	Qualifier	Added	Result	Qualifier	mg/L		98	Limits

<b>Lab Sample ID: 500-57505-15 MSD</b>						<b>Client Sample ID: DUPLICATE</b>				
<b>Matrix: Water</b>						<b>Prep Type: Dissolved</b>				
<b>Analysis Batch: 188207</b>										
Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
Nitrogen, Nitrite	Result	Qualifier	Added	Result	Qualifier	mg/L		100	Limits	RPD

<b>Lab Sample ID: 500-57505-16 MS</b>						<b>Client Sample ID: MW-6</b>			
<b>Matrix: Water</b>						<b>Prep Type: Dissolved</b>			
<b>Analysis Batch: 188432</b>									
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
Nitrogen, Nitrite	Result	Qualifier	Added	Result	Qualifier	mg/L		101	Limits

<b>Lab Sample ID: 500-57505-16 MSD</b>						<b>Client Sample ID: MW-6</b>				
<b>Matrix: Water</b>						<b>Prep Type: Dissolved</b>				
<b>Analysis Batch: 188432</b>										
Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
Nitrogen, Nitrite	Result	Qualifier	Added	Result	Qualifier	mg/L		107	Limits	RPD

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Lab Sample ID: 500-57505-1 MS**  
**Matrix: Water**  
**Analysis Batch: 188469**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	<0.020		0.100	0.0930		mg/L		93	75 - 125

**Lab Sample ID: 500-57505-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 188469**

**Client Sample ID: MW-1**  
**Prep Type: Dissolved**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrite	<0.020		0.100	0.0963		mg/L		96	75 - 125	3	20

## Method: SM 4500 NO3 F - Nitrogen, Nitrate

**Lab Sample ID: MB 500-189260/12**  
**Matrix: Water**  
**Analysis Batch: 189260**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 14:06	1

**Lab Sample ID: LCS 500-189260/13**  
**Matrix: Water**  
**Analysis Batch: 189260**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	1.01		mg/L		101	80 - 120

**Lab Sample ID: MB 500-189280/3**  
**Matrix: Water**  
**Analysis Batch: 189280**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/10/13 17:48	1

**Lab Sample ID: LCS 500-189280/4**  
**Matrix: Water**  
**Analysis Batch: 189280**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.975		mg/L		97	80 - 120

**Lab Sample ID: 500-57505-11 MS**  
**Matrix: Water**  
**Analysis Batch: 189260**

**Client Sample ID: MW-12**  
**Prep Type: Dissolved**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	<0.10		1.00	0.968		mg/L		97	75 - 125

TestAmerica Chicago

## QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Method: SM 4500 NO3 F - Nitrogen, Nitrate (Continued)

**Lab Sample ID: 500-57505-11 MSD**  
**Matrix: Water**  
**Analysis Batch: 189260**

**Client Sample ID: MW-12**  
**Prep Type: Dissolved**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate Nitrite	<0.10		1.00	1.02		mg/L		102	75 - 125	5	20

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TestAmerica Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-1**

**Lab Sample ID: 500-57505-1**

**Date Collected: 05/29/13 08:25**

**Matrix: Water**

**Date Received: 05/30/13 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188665	06/06/13 08:17	BBS	TAL CHI
Total/NA	Analysis	314 0		1	17979	06/07/13 14:37	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15:30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 12:48	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20:08	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 13:21	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:36	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 16:02	PFK	TAL CHI
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13:09	CLB	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188469		EAT	TAL CHI
					(Start)	05/30/13 15:01		
					(End)	05/30/13 15:01		
Dissolved	Analysis	SM 4500 F C		1	188504	06/04/13 10:54	EAT	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 18:55	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11:51		
					(End)	06/05/13 11:51		
Dissolved	Analysis	SM 4500 NO3 F		1	189260	06/10/13 14:34	CLM	TAL CHI
Dissolved	Analysis	9038		20	189287		CLB	TAL CHI
					(Start)	06/10/13 23:09		
					(End)	06/10/13 23:10		
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15:17	CLM	TAL CHI

**Client Sample ID: MW-2**

**Lab Sample ID: 500-57505-2**

**Date Collected: 05/29/13 09:12**

**Matrix: Water**

**Date Received: 05/30/13 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188665	06/06/13 08:43	BBS	TAL CHI
Total/NA	Analysis	314 0		1	17979	06/07/13 15:24	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15:30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 12:54	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20:26	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 13:40	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:40	PFK	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-2**

**Lab Sample ID: 500-57505-2**

Date Collected: 05/29/13 09:12

Matrix: Water

Date Received: 05/30/13 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 16 16	PFK	TAL CHI
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13 11	CLB	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188469		EAT	TAL CHI
					(Start)	05/30/13 15 02		
					(End)	05/30/13 15 02		
Dissolved	Analysis	9251		1	188735	06/05/13 18 19	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09 15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11 52		
					(End)	06/05/13 11 52		
Dissolved	Analysis	SM 4500 F C		1	189185	06/08/13 12 31	EAT	TAL CHI
Dissolved	Analysis	SM 4500 NO3 F		1	189260	06/10/13 14 36	CLM	TAL CHI
Dissolved	Analysis	9038		4	189287		CLB	TAL CHI
					(Start)	06/10/13 23 10		
					(End)	06/10/13 23 11		
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15 17	CLM	TAL CHI

**Client Sample ID: MW-3**

**Lab Sample ID: 500-57505-3**

Date Collected: 05/29/13 09:53

Matrix: Water

Date Received: 05/30/13 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 14 44	BDA	TAL CHI
Total/NA	Analysis	314 0		1	17979	06/07/13 15 39	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15 30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 12 55	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20 29	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 13 43	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17 41	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 16 17	PFK	TAL CHI
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13 14	CLB	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188469		EAT	TAL CHI
					(Start)	05/30/13 15 02		
					(End)	05/30/13 15 02		
Dissolved	Analysis	9251		1	188735	06/05/13 18 20	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09 15	EAT	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-3**

**Date Collected: 05/29/13 09:53**

**Date Received: 05/30/13 10:30**

**Lab Sample ID: 500-57505-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	9014		1	188768	(Start) 06/05/13 11:52 (End) 06/05/13 11:52	EAT	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	189185	06/08/13 12:34	EAT	TAL CHI
Dissolved	Analysis	SM 4500 NO3 F		1	189260	06/10/13 14:38	CLM	TAL CHI
Dissolved	Analysis	9038		4	189287	(Start) 06/10/13 23:11 (End) 06/10/13 23:12	CLB	TAL CHI
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15:17	CLM	TAL CHI

**Client Sample ID: MW-4**

**Date Collected: 05/29/13 10:45**

**Date Received: 05/30/13 10:30**

**Lab Sample ID: 500-57505-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 15:08	BDA	TAL CHI
Total/NA	Analysis	314 0		1	17979	06/07/13 15:54	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15:30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 12:57	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20:31	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 13:45	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:42	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 16:19	PFK	TAL CHI
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13:16	CLB	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188469	(Start) 05/30/13 15:02 (End) 05/30/13 15:02	EAT	TAL CHI
Dissolved	Analysis	9251		1	188735	06/05/13 18:21	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768	(Start) 06/05/13 11:52 (End) 06/05/13 11:53	EAT	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	189185	06/08/13 12:37	EAT	TAL CHI
Dissolved	Analysis	SM 4500 NO3 F		1	189260	06/10/13 14:40	CLM	TAL CHI
Dissolved	Analysis	9038		4	189287	(Start) 06/10/13 23:12 (End) 06/10/13 23:13	CLB	TAL CHI
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15:17	CLM	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-5**  
**Date Collected: 05/29/13 11:37**  
**Date Received: 05/30/13 10:30**

**Lab Sample ID: 500-57505-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 15:32	BDA	TAL CHI
Total/NA	Analysis	314.0		1	17979	06/07/13 16:10	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15:30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 12:59	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20:34	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 13:48	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:45	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 16:21	PFK	TAL CHI
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13:19	CLB	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188469		EAT	TAL CHI
						(Start) 05/30/13 15:02		
						(End) 05/30/13 15:03		
Dissolved	Analysis	SM 4500 F C		1	188504	06/04/13 10:57	EAT	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 18:57	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768		EAT	TAL CHI
						(Start) 06/05/13 11:53		
						(End) 06/05/13 11:53		
Dissolved	Analysis	SM 4500 NO3 F		1	189260	06/10/13 14:42	CLM	TAL CHI
Dissolved	Analysis	9038		20	189287		CLB	TAL CHI
						(Start) 06/10/13 23:13		
						(End) 06/10/13 23:14		
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15:17	CLM	TAL CHI

**Client Sample ID: MW-10**  
**Date Collected: 05/29/13 13:05**  
**Date Received: 05/30/13 10:30**

**Lab Sample ID: 500-57505-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 15:56	BDA	TAL CHI
Total/NA	Analysis	314.0		1	17979	06/07/13 16:25	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15:30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 13:01	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20:36	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 13:50	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:46	PFK	TAL CHI

TestAmerica Chicago



# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-10**

**Date Collected: 05/29/13 13:05**

**Date Received: 05/30/13 10:30**

**Lab Sample ID: 500-57505-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 16:23	PFK	TAL CHI
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13:21	CLB	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188469		EAT	TAL CHI
					(Start)	05/30/13 15:03		
					(End)	05/30/13 15:03		
Dissolved	Analysis	SM 4500 F C		1	188504	06/04/13 11:00	EAT	TAL CHI
Dissolved	Analysis	9251		1	188735	06/05/13 18:25	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11:53		
					(End)	06/05/13 11:53		
Dissolved	Analysis	SM 4500 NO3 F		2	189260	06/10/13 15:39	CLM	TAL CHI
Dissolved	Analysis	9038		5	189287		CLB	TAL CHI
					(Start)	06/10/13 23:14		
					(End)	06/10/13 23:15		
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15:17	CLM	TAL CHI

**Client Sample ID: MW-16**

**Date Collected: 05/29/13 13:58**

**Date Received: 05/30/13 10:30**

**Lab Sample ID: 500-57505-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 18:20	BDA	TAL CHI
Total/NA	Analysis	314 0		1	17979	06/07/13 17:11	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15:30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 13:03	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20:39	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 13:52	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:47	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 16:24	PFK	TAL CHI
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13:24	CLB	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188469		EAT	TAL CHI
					(Start)	05/30/13 15:04		
					(End)	05/30/13 15:04		
Dissolved	Analysis	9251		1	188735	06/05/13 18:26	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI

TestAmerica Chicago





# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-16**

**Date Collected: 05/29/13 13:58**

**Date Received: 05/30/13 10:30**

**Lab Sample ID: 500-57505-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	9014		1	188768	(Start) 06/05/13 11 54 (End) 06/05/13 11 54	EAT	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	189185	06/08/13 12 40	EAT	TAL CHI
Dissolved	Analysis	SM 4500 NO3 F		25	189260	06/10/13 16 01	CLM	TAL CHI
Dissolved	Analysis	9038		4	189287	(Start) 06/10/13 23 15 (End) 06/10/13 23 16	CLB	TAL CHI
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15 17	CLM	TAL CHI

**Client Sample ID: MW-8**

**Date Collected: 05/30/13 14:11**

**Date Received: 05/31/13 10:20**

**Lab Sample ID: 500-57505-8**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 16 44	BDA	TAL CHI
Total/NA	Analysis	314.0		1	17979	06/07/13 17 27	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15 30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 13 05	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20 41	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 13 55	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17 48	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 16 26	PFK	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188207	(Start) 05/31/13 17 16 (End) 05/31/13 17 16	EAT	TAL CHI
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13 26	CLB	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	188504	06/04/13 11 03	EAT	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 18 57	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09 15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768	(Start) 06/05/13 11 54 (End) 06/05/13 11 55	EAT	TAL CHI
Dissolved	Analysis	SM 4500 NO3 F		1	189260	06/10/13 14 48	CLM	TAL CHI
Dissolved	Analysis	9038		20	189287	(Start) 06/10/13 23 16 (End) 06/10/13 23 17	CLB	TAL CHI
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15 17	CLM	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-9**

**Lab Sample ID: 500-57505-9**

Date Collected: 05/30/13 08:04

Matrix: Water

Date Received: 05/31/13 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 17:07	BDA	TAL CHI
Total/NA	Analysis	314.0		1	17979	06/07/13 17:42	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15:30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 13:07	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20:44	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 13:57	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:48	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 16:28	PFK	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188207		EAT	TAL CHI
					(Start)	05/31/13 17:16		
					(End)	05/31/13 17:16		
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13:29	CLB	TAL CHI
Dissolved	Analysis	9251		1	188735	06/05/13 18:27	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11:55		
					(End)	06/05/13 11:55		
Dissolved	Analysis	SM 4500 F C		1	189185	06/08/13 12:43	EAT	TAL CHI
Dissolved	Analysis	SM 4500 NO3 F		10	189260	06/10/13 15:41	CLM	TAL CHI
Dissolved	Analysis	9038		10	189287		CLB	TAL CHI
					(Start)	06/10/13 23:19		
					(End)	06/10/13 23:20		
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15:17	CLM	TAL CHI

**Client Sample ID: MW-11**

**Lab Sample ID: 500-57505-10**

Date Collected: 05/30/13 09:19

Matrix: Water

Date Received: 05/31/13 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 17:31	BDA	TAL CHI
Total/NA	Analysis	314.0		1	17979	06/07/13 17:58	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15:30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 13:09	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20:46	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 14:00	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		10	189245	06/10/13 14:38	PFK	TAL CHI

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# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-11**

**Date Collected: 05/30/13 09:19**

**Date Received: 05/31/13 10:20**

**Lab Sample ID: 500-57505-10**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17 49	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 16 33	PFK	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188207		EAT	TAL CHI
					(Start)	05/31/13 17 16		
					(End)	05/31/13 17 16		
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13 31	CLB	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	188504	06/04/13 11 05	EAT	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 18 58	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09 15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11 55		
					(End)	06/05/13 11 55		
Dissolved	Analysis	SM 4500 NO3 F		1	189260	06/10/13 14 52	CLM	TAL CHI
Dissolved	Analysis	9038		10	189287		CLB	TAL CHI
					(Start)	06/10/13 23 20		
					(End)	06/10/13 23 21		
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15 17	CLM	TAL CHI

**Client Sample ID: MW-12**

**Date Collected: 05/30/13 10:10**

**Date Received: 05/31/13 10:20**

**Lab Sample ID: 500-57505-11**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 17 54	BDA	TAL CHI
Total/NA	Analysis	314.0		1	17979	06/07/13 18 13	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15 30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 13 11	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20 49	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 14 02	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17 50	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 15 33	PFK	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188207		EAT	TAL CHI
					(Start)	05/31/13 17 16		
					(End)	05/31/13 17 17		
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13 34	CLB	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	188504	06/04/13 11 08	EAT	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 18 59	HMW	TAL CHI

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# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-12**

**Lab Sample ID: 500-57505-11**

**Date Collected: 05/30/13 10:10**

**Matrix: Water**

**Date Received: 05/31/13 10:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	9010B			188440	06/04/13 09 15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11 55		
					(End)	06/05/13 11 55		
Dissolved	Analysis	SM 4500 NO3 F		1	189260	06/10/13 14 53	CLM	TAL CHI
Dissolved	Analysis	9038		20	189287		CLB	TAL CHI
					(Start)	06/10/13 23 21		
					(End)	06/10/13 23 22		
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15 17	CLM	TAL CHI

**Client Sample ID: MW-13**

**Lab Sample ID: 500-57505-12**

**Date Collected: 05/30/13 10:59**

**Matrix: Water**

**Date Received: 05/31/13 10:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 18 18	BDA	TAL CHI
Total/NA	Analysis	314 0		1	17979	06/07/13 18 28	JB	TAL SAC
Dissolved	Prep	7470A			188334	06/03/13 15 30	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188499	06/04/13 13 17	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 20 59	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 14 09	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17 51	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 15 34	PFK	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188207		EAT	TAL CHI
					(Start)	05/31/13 17 17		
					(End)	05/31/13 17 17		
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13 36	CLB	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	188504	06/04/13 11 11	EAT	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 18 59	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09 15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11 55		
					(End)	06/05/13 11 56		
Dissolved	Analysis	SM 4500 NO3 F		1	189280	06/10/13 17 53	CLM	TAL CHI
Dissolved	Analysis	9038		50	189287		CLB	TAL CHI
					(Start)	06/10/13 23 22		
					(End)	06/10/13 23 23		
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15 17	CLM	TAL CHI

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# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-57505-13**

**Date Collected: 05/30/13 11:44**

**Matrix: Water**

**Date Received: 05/31/13 10:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 18:42	BDA	TAL CHI
Total/NA	Analysis	314.0		1	18052	06/10/13 22:05	JB	TAL SAC
Dissolved	Prep	7470A			188480	06/04/13 12:00	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188637	06/05/13 09:31	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 21:01	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 14:12	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:52	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 15:36	PFK	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188207		EAT	TAL CHI
					(Start)	05/31/13 17:17		
					(End)	05/31/13 17:17		
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13:39	CLB	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 19:00	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11:56		
					(End)	06/05/13 11:56		
Dissolved	Analysis	SM 4500 F C		1	189185	06/08/13 12:46	EAT	TAL CHI
Dissolved	Analysis	SM 4500 NO3 F		1	189280	06/10/13 17:55	CLM	TAL CHI
Dissolved	Analysis	9038		50	189287		CLB	TAL CHI
					(Start)	06/10/13 23:23		
					(End)	06/10/13 23:24		
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15:17	CLM	TAL CHI

**Client Sample ID: MW-15**

**Lab Sample ID: 500-57505-14**

**Date Collected: 05/30/13 12:49**

**Matrix: Water**

**Date Received: 05/31/13 10:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/05/13 19:06	BDA	TAL CHI
Total/NA	Analysis	314.0		1	18052	06/10/13 22:20	JB	TAL SAC
Dissolved	Prep	7470A			188480	06/04/13 12:00	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188637	06/05/13 09:33	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 21:04	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 14:14	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:53	PFK	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-15**

**Date Collected: 05/30/13 12:49**

**Date Received: 05/31/13 10:20**

**Lab Sample ID: 500-57505-14**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 15:38	PFK	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188207		EAT	TAL CHI
					(Start)	05/31/13 17:17		
					(End)	05/31/13 17:18		
Dissolved	Analysis	SM 2540C		1	188246	06/01/13 13:41	CLB	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	188504	06/04/13 11:13	EAT	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 19:02	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11:56		
					(End)	06/05/13 11:56		
Dissolved	Analysis	SM 4500 NO3 F		1	189280	06/10/13 17:57	CLM	TAL CHI
Dissolved	Analysis	9038		50	189287		CLB	TAL CHI
					(Start)	06/10/13 23:24		
					(End)	06/10/13 23:25		
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15:17	CLM	TAL CHI

**Client Sample ID: DUPLICATE**

**Date Collected: 05/30/13 00:00**

**Date Received: 05/31/13 10:20**

**Lab Sample ID: 500-57505-15**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188756	06/06/13 19:30	BDA	TAL CHI
Total/NA	Analysis	314 0		1	18052	06/10/13 23:06	JB	TAL SAC
Dissolved	Prep	7470A			188480	06/04/13 12:00	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188637	06/05/13 09:36	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 21:07	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 14:16	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:57	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 15:39	PFK	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188207		EAT	TAL CHI
					(Start)	05/31/13 17:18		
					(End)	05/31/13 17:18		
Dissolved	Analysis	SM 2540C		1	188247	06/01/13 13:49	CLB	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 19:02	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: DUPLICATE**

**Lab Sample ID: 500-57505-15**

**Date Collected: 05/30/13 00:00**

**Matrix: Water**

**Date Received: 05/31/13 10:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	9014		1	188768	(Start) 06/05/13 11 56 (End) 06/05/13 11 57	EAT	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	189185	06/08/13 12.48	EAT	TAL CHI
Dissolved	Analysis	SM 4500 NO3 F		1	189280	06/10/13 17 59	CLM	TAL CHI
Dissolved	Analysis	9038		50	189287	(Start) 06/10/13 23 25 (End) 06/10/13 23 26	CLB	TAL CHI
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15 17	CLM	TAL CHI

**Client Sample ID: MW-6**

**Lab Sample ID: 500-57505-16**

**Date Collected: 05/31/13 09:03**

**Matrix: Water**

**Date Received: 05/31/13 16:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188754	06/06/13 14 45	BDA	TAL CHI
Total/NA	Analysis	314 0		1	18052	06/10/13 23 22	JB	TAL SAC
Dissolved	Prep	7470A			188480	06/04/13 12.00	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188637	06/05/13 09 38	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 21 09	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 14 19	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17 57	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10 17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 15 41	PFK	TAL CHI
Dissolved	Analysis	SM 2540C		1	188247	06/01/13 13 56	CLB	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188432	(Start) 06/01/13 11 34 (End) 06/01/13 11 35	APW	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	188504	06/04/13 11 26	EAT	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 19 03	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09 15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768	(Start) 06/05/13 11 57 (End) 06/05/13 11 57	EAT	TAL CHI
Dissolved	Analysis	SM 4500 NO3 F		1	189280	06/10/13 18 01	CLM	TAL CHI
Dissolved	Analysis	9038		25	189288	(Start) 06/11/13 03 28 (End) 06/11/13 03 29	CLB	TAL CHI
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15 17	CLM	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

**Client Sample ID: MW-7**

**Lab Sample ID: 500-57505-17**

**Date Collected: 05/31/13 08:15**

**Matrix: Water**

**Date Received: 05/31/13 16:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188754	06/06/13 15:09	BDA	TAL CHI
Total/NA	Analysis	314 0		1	18052	06/10/13 23:37	JB	TAL SAC
Dissolved	Prep	7470A			188480	06/04/13 12:00	BJB	TAL CHI
Dissolved	Analysis	7470A		1	188637	06/05/13 09:40	BJB	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	188650	06/04/13 21:12	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189245	06/10/13 14:21	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		10	189245	06/10/13 14:41	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189458	06/11/13 17:58	PFK	TAL CHI
Dissolved	Prep	Soluble Metals			188464	06/04/13 10:17	PFK	TAL CHI
Dissolved	Analysis	6020A		1	189461	06/11/13 15:43	PFK	TAL CHI
Dissolved	Analysis	SM 2540C		1	188247	06/01/13 13:59	CLB	TAL CHI
Dissolved	Analysis	SM 4500 NO2 B		1	188432	(Start) 06/01/13 11:37 (End) 06/01/13 11:38	APW	TAL CHI
Dissolved	Analysis	SM 4500 F C		1	188504	06/04/13 11:28	EAT	TAL CHI
Dissolved	Analysis	9251		5	188735	06/05/13 19:03	HMW	TAL CHI
Dissolved	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI
Dissolved	Analysis	9014		1	188768	(Start) 06/05/13 11:58 (End) 06/05/13 11:58	EAT	TAL CHI
Dissolved	Analysis	SM 4500 NO3 F		1	189280	06/10/13 18:03	CLM	TAL CHI
Dissolved	Analysis	9038		5	189288	(Start) 06/11/13 03:29 (End) 06/11/13 03:30	CLB	TAL CHI
Dissolved	Analysis	Nitrate by calc		1	189393	06/11/13 15:17	CLM	TAL CHI

**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





## Certification Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	06-30-13 *
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Georgia	State Program	4	939	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	06-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	BTMS-Q	07-15-13

### Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-13
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-17-13
California	NELAP	9	1119CA	01-31-14
Colorado	State Program	8	N/A	08-31-13
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAP	4	EB7570	06-30-13
Guam	State Program	9	N/A	08-31-13
Hawaii	State Program	9	N/A	01-31-14
Illinois	NELAP	5	200060	03-17-14
Kansas	NELAP	7	E-10375	10-31-13
Louisiana	NELAP	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-14
Nebraska	State Program	7	NE-OS-22-13	01-31-14
Nevada	State Program	9	CA44	07-31-13
New Jersey	NELAP	2	CA005	06-30-13
New York	NELAP	2	11666	04-01-14
Northern Mariana Islands	State Program	9	MP0007	02-01-14
Oregon	NELAP	10	CA200005	03-28-14
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Chicago

## Certification Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-1

### Laboratory: TestAmerica Sacramento (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-13
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	01-31-14
Washington	State Program	10	C581	05-05-14
West Virginia	State Program	3	9930C	12-31-13
West Virginia DEP	State Program	3	334	07-31-13
Wyoming	State Program	8	BTMS-Q	01-31-14

TestAmerica Chicago

# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone 708.534.5200 Fax: 708.534.



500-57505 COC

Report To: **RICH GNAT**  
Contact: **KPRSA**  
Company: **14665 W. LISBON**  
Address: **BROOKFIELD, ILL. 60005**  
Address: **262-281-0435**  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Bill To: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO/Reference: \_\_\_\_\_

**Chain of Custody Record**  
Lab Job #: **500-57505**  
Chain of Custody Number: \_\_\_\_\_  
Page **1** of **1**  
Temperature °C of Cooler: **34**

Client	MS/MSD	Sample ID	Date	Time	Preservative	Parameter	Matrix Key	# Containers	Comments
KPRSA		MW-01	5/29	08:25	1	W			
POWERLON STATION APH PONDS		MW-02	5/29	09:12	1	W			
PEKIN, ILL		MW-03	5/29	09:53	1	W			
E.J. HANESON		MW-04	5/29	10:45	1	W			
B. STARBUCK		MW-05	5/29	11:37	1	W			
		MW-10	5/29	13:05	1	W			
		MW-16	5/29	13:58	1	W			

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. H2O2, Cool to 4°
5. NaOH, Cool to 4°
6. NaOH/Zn, Cool to 4°
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)  
 1 Day \_\_\_\_\_ 2 Days \_\_\_\_\_ 5 Days \_\_\_\_\_ 7 Days \_\_\_\_\_ 10 Days \_\_\_\_\_ 15 Days \_\_\_\_\_ Other \_\_\_\_\_  
 Requested Due Date \_\_\_\_\_

Received By: **KPRSA** Date: **5/29/13** Time: **15:56**  
 Company: **KPRSA**

Received By: **ALLEN BOOTSIA-CHATEL** Date: **5/30/13** Time: **10:30**  
 Company: **ALLEN BOOTSIA-CHATEL**

Lab Courier: **FedEx**  
 Shipped: **FedEx**  
 Hand Delivered: \_\_\_\_\_

Client Comments: \_\_\_\_\_

Matrix Key  
 WW - Wastewater  
 W - Water  
 S - Soil  
 SL - Sludge  
 MS - Miscellaneous  
 O - Oil  
 A - Air

SE - Sediment  
 SO - Sol  
 L - Leachate  
 WI - Wipe  
 DW - Drinking Water  
 O - Other

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60  
 Phone: 708.534.5200 Fax: 708.534.



500-57505 COC

Report To: **RICH GNAT**  
 Contact: **KPRG**  
 Company: **14665 W. LISBON**  
 Address: **BROOKFIELD, WI, 53005**  
 Address: **262-781-0475**  
 Phone:   
 Fax:   
 E-Mail:   
 POS/Reference:   
 Bill To:   
 Contact:   
 Company:   
 Address:   
 Address:   
 Phone:   
 Fax:   
 POS/Reference:   
 (optional)   
 (optional)

## Chain of Custody Record

Lab Job #: **500-57505-75/113**

Chain of Custody Number: \_\_\_\_\_

Page **1** of **1**

Temperature °C of Cooler: **1.7**

Client	Project Name	Project Location/State	Lab Project #	Sampler	Sample ID	Sampling		Preservative	Matrix	Containers	Metric	Comments
						Date	Time					
KPRG	BAUGERTON STATION ASH Ponds.	PEKIN, IL	B. STADERMAN	MW-8	05/30	14:11	1	7	W	1		
				MW-9	05/30	08:04	1		W	1		
				MW-11	05/30	09:19	1		W	1		
				MW-12	05/30	10:10	1		W	1		
				MW-13	05/30	10:59	1		W	1		
				MW-14	05/30	11:44	1		W	1		
				MW-15	05/30	12:49	1		W	1		
				DUPLICATE	05/30		1		W	1		

- Preservative Key
- HCL, Cool to 4°
  - H2SO4, Cool to 4°
  - HNO3, Cool to 4°
  - NaOH, Cool to 4°
  - NaOH/Zn, Cool to 4°
  - H2SO4
  - Cool to 4°
  - None
  - Other

Turnaround Time Required (Business Days)  
 Requested Due Date: \_\_\_\_\_ 1 Day \_\_\_\_\_ 2 Days \_\_\_\_\_ 5 Days \_\_\_\_\_ 7 Days \_\_\_\_\_ 10 Days \_\_\_\_\_ 15 Days \_\_\_\_\_ Other \_\_\_\_\_  
 (A fee may be assessed if samples are retained longer than 1 month)

Returned By: **[Signature]** Date: **5-30-13** Company: **KPRG**  
 Received By: **[Signature]** Date: **5/31/13** Company: **FEXEX**  
 Lab Cooler: \_\_\_\_\_ Shipped: **FedEx** Hard Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipes  
 MS - Miscellaneous DWI - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments: \_\_\_\_\_  
 Lab Comments: \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60  
Phone: 708.534.5290 Fax: 708.534.



500-57505 COC

(optional)

Report To: **RICH GNAT**  
 Contact: **KPRG & ASSOCIATES**  
 Company: **14665 W. LISBON RD**  
 Address: **BLOOMFIELD, WI**  
 Phone: **262-781-0475**  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

(optional)

Bill To: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/References#

## Chain of Custody Record

Lab Job #: **500-57505**  
 Chain of Custody Number: \_\_\_\_\_  
 Page **1** of **2**  
 Temperature °C of Cooler: **(46/34)(38)(41)**

Lab ID	Sample ID	Client Project #	Client Project #	Sample ID	Date	Time	Matrix	Parameter	Preservative	3	1	7	7	2	7	4	3	3	3	Comments
1	MW-1	12313.1	12313.1	8 W	5-29	08:25	8 W	Metals	None	X	X	X	X	X	X	X	X	X	X	
2	MW-2	12313.1	12313.1	8 W	5-29	09:12	8 W	Metals	None	X	X	X	X	X	X	X	X	X	X	
3	MW-3	12313.1	12313.1	8 W	5-29	09:53	8 W	Metals	None	X	X	X	X	X	X	X	X	X	X	
4	MW-4	12313.1	12313.1	8 W	5-29	10:45	8 W	Metals	None	X	X	X	X	X	X	X	X	X	X	
5	MW-5	12313.1	12313.1	8 W	5-29	11:37	8 W	Metals	None	X	X	X	X	X	X	X	X	X	X	
16	MW-6	12313.1	12313.1	9 W	5/31	09:03	9 W	Metals	None	X	X	X	X	X	X	X	X	X	X	
17	MW-7	12313.1	12313.1	9 W	5/31	08:15	9 W	Metals	None	X	X	X	X	X	X	X	X	X	X	
8	MW-8	12313.1	12313.1	8 W	5-30	14:11	8 W	Metals	None	X	X	X	X	X	X	X	X	X	X	
9	MW-9	12313.1	12313.1	8 W	5-30	08:04	8 W	Metals	None	X	X	X	X	X	X	X	X	X	X	
6	MW-10	12313.1	12313.1	8 W	5-29	13:05	8 W	Metals	None	X	X	X	X	X	X	X	X	X	X	

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other \_\_\_\_\_

Requested Due Date: \_\_\_\_\_

Requisitioned By: *[Signature]* Date: **05-31-2013** Time: **16:30**

Company: **KPRG**

Received By: *[Signature]* Date: **05-21-13** Time: **16:30**

Company: **KPRG**

Requisitioned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Company: \_\_\_\_\_

Client Comments: \_\_\_\_\_

Matrix Key: WW - Wastewater, W - Water, S - Soil, SL - Sludge, MS - Miscellaneous, OL - Oil, A - Air, SE - Sediment, SO - Soft, L - Leachate, WI - Waste, DW - Drinking Water, O - Other

Lab Counter: \_\_\_\_\_ Shipped: \_\_\_\_\_ Hand Delivered: **KPRG**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To: **RIGHT GYAT**  
 Contact: **KPRG ASSOCIATES**  
 Company: **14665 W. LIBBON RD**  
 Address: **BROOKFIELD, IL**  
 Address: **262-781-0475**  
 Phone: **262-781-0475**  
 Fax:

Bill To: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Chain of Custody Record  
 Lab Job #: **500-57505**  
 Chain of Custody Number: \_\_\_\_\_  
 Page **2** of **2**  
 Temperature °C of Cooler: \_\_\_\_\_

Client	KPRG	Client Project #	12313.1		Preservative	Parameter	Matrix	Sample		Container	Metric	7	2	7	7	2	7	4	3	3	Preservative Key
			Lab Project #	Lab PM				Date	Time												
Project Name			POVERTON STATION ASH Ponds																		
Project Location/Size			PEKIN, IL																		
Sample			P. ALLENSTEIN			B. STADLEMAN															
MS/NSD																					
10	MW-11		5-30	09:19	8																1. HCL, Cool to 4°
11	MW-12		5-30	10:10	8																2. H2SO4, Cool to 4°
12	MW-13		5-30	10:59	10																3. HNO3, Cool to 4°
13	MW-14		5-30	11:44	10																4. HCl, Cool to 4°
14	MW-15		5-30	12:44	10																5. H2O2/2a, Cool to 4°
7	MW-16		5-29	15:58	8																6. H2SO4
15	DUPLICATE		5-30		8																7. Cool to 4°
																					8. None
																					9. Other
																					Comments

Turnaround Time Required (Business Days)  
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: \_\_\_\_\_ Date: 05-31-2013 Time: 16:30  
 Company: KPRG

Received By: \_\_\_\_\_ Date: 05-31-13 Time: 16:30  
 Company: T&A Associates

Lab Counter: \_\_\_\_\_  
 Shipped: \_\_\_\_\_  
 Hand Delivered: **KPRG**

Client Comments: \_\_\_\_\_  
 Lab Comments: \_\_\_\_\_

Method Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WL - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 O - Oil A - Air

TestAmerica Chicago  
 2417 Bond Street  
 University Park IL 60484  
 Phone (708) 534-5200 Fax (708) 534-5211

# Chain of Custody Record

TestAmerica  
 1000 N. Lake Street, Suite 1000  
 Chicago, IL 60610  
 Phone (773) 399-2000 Fax (773) 399-2001

**Client Information (Sub Contract Lab)**  
 Client Contact: Stadelmann, Bonnie M  
 Shipping/Receiving: bonnie.stadelmann@testamericainc.com  
 Company: TestAmerica Laboratories, Inc  
 Address: 880 Riverside Parkway, West Sacramento, CA 95605  
 Phone: 916-373-5600 (Tel), 916-372-1059 (Fax)  
 Project Name: Powerion Station Ash Ponds  
 Site: 3509

Lab # M: Stadelmann, Bonnie M  
 E Mail: bonnie.stadelmann@testamericainc.com  
 Due Date Requested: 6/12/2013  
 TAT Requested (days):

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Soil, On-Surface, On-Substrate)	Field Filtered Sample (Yes or No)	316/Perchlorate	Total Number of Containers	Special Instructions/Note:
MW-01 (500-57505-1)	5/29/13	08:25 Central	Water	Water	X	X	1	
MW-02 (500-57505-2)	5/29/13	09:12 Central	Water	Water	X	X	1	
MW-03 (500-57505-3)	5/29/13	09:53 Central	Water	Water	X	X	1	
MW-04 (500-57505-4)	5/29/13	10:45 Central	Water	Water	X	X	1	
MW-05 (500-57505-5)	5/29/13	11:37 Central	Water	Water	X	X	1	
MW-10 (500-57505-6)	5/29/13	13:05 Central	Water	Water	X	X	1	
MW-16 (500-57505-7)	5/29/13	13:58 Central	Water	Water	X	X	1	
MW-8 (500-57505-8)	5/30/13	14:11 Central	Water	Water	X	X	1	
MW-9 (500-57505-9)	5/30/13	08:04 Central	Water	Water	X	X	1	
MW-11 (500-57505-10)	5/30/13	08:19 Central	Water	Water	X	X	1	
MW-12 (500-57505-11)	5/30/13	10:10 Central	Water	Water	X	X	1	

**Possible Hazard Identification**  
 Uncontaminated  
 Deliverable Requested: I, II, III, IV, Other (specify)

Return To Client:  Disposal By Lab:  Archive For: \_\_\_\_\_ Months  
 Special Instructions/OC Requirements:  
 Date: 6/13/2013 Time: 1500  
 Received by: [Signature] Company: TA-CHI  
 Date/TIME: 6/13/13 8:58  
 Company: TA-CHI  
 Date/TIME: \_\_\_\_\_  
 Company: \_\_\_\_\_

TestAmerica Chicago  
 2417 Bond Street  
 University Park, IL 60484  
 Phone (708) 534-5200 Fax (708) 534-5211

### Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)  
 Client Contact: Stadelmann, Bonnie M  
 Shipping/Receiving: bonnie.stadelmann@testamericainc.com  
 City: West Sacramento  
 State: CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

TestAmerica Laboratories, Inc  
 880 Riverside Parkway  
 West Sacramento, CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

Project Name: Powerlon Station Ash Ponds  
 Project # 50008027  
 SOW# [Redacted]

Due Date Requested: 6/12/2013  
 TAT Requested (days): [Redacted]

City: West Sacramento  
 State: CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

Project Name: Powerlon Station Ash Ponds  
 Project # 50008027  
 SOW# [Redacted]

Due Date Requested: 6/12/2013  
 TAT Requested (days): [Redacted]

City: West Sacramento  
 State: CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

Project Name: Powerlon Station Ash Ponds  
 Project # 50008027  
 SOW# [Redacted]

Due Date Requested: 6/12/2013  
 TAT Requested (days): [Redacted]

City: West Sacramento  
 State: CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

Project Name: Powerlon Station Ash Ponds  
 Project # 50008027  
 SOW# [Redacted]

Due Date Requested: 6/12/2013  
 TAT Requested (days): [Redacted]

City: West Sacramento  
 State: CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

Project Name: Powerlon Station Ash Ponds  
 Project # 50008027  
 SOW# [Redacted]

Due Date Requested: 6/12/2013  
 TAT Requested (days): [Redacted]

City: West Sacramento  
 State: CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

Project Name: Powerlon Station Ash Ponds  
 Project # 50008027  
 SOW# [Redacted]

Due Date Requested: 6/12/2013  
 TAT Requested (days): [Redacted]

City: West Sacramento  
 State: CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

Project Name: Powerlon Station Ash Ponds  
 Project # 50008027  
 SOW# [Redacted]

Due Date Requested: 6/12/2013  
 TAT Requested (days): [Redacted]

City: West Sacramento  
 State: CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

Project Name: Powerlon Station Ash Ponds  
 Project # 50008027  
 SOW# [Redacted]

Due Date Requested: 6/12/2013  
 TAT Requested (days): [Redacted]

City: West Sacramento  
 State: CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

Project Name: Powerlon Station Ash Ponds  
 Project # 50008027  
 SOW# [Redacted]

Due Date Requested: 6/12/2013  
 TAT Requested (days): [Redacted]

City: West Sacramento  
 State: CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-mail: [Redacted]

Project Name: Powerlon Station Ash Ponds  
 Project # 50008027  
 SOW# [Redacted]

Due Date Requested: 6/12/2013  
 TAT Requested (days): [Redacted]



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57505-1

Login Number: 57505  
 List Number: 1  
 Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4, 1.7, 4.6, 3.4, 3.8, 4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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")	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57505-1

Login Number: 57505

List Source: TestAmerica Sacramento

List Number: 1

List Creation: 06/04/13 03:02 PM

Creator: Sadler, Jeremy

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	0.0,2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	

# 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: 500-57505-2

Client Project/Site: Powerton Station Ash Ponds

For:

KPRG and Associates, Inc.

14665 West Lisbon Road,

Suite 2B

Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:

7/1/2013 11:36:59 AM

Bonnie Stadelmann, Project Manager II

[bonnie.stadelmann@testamericainc.com](mailto:bonnie.stadelmann@testamericainc.com)

### LINKS

Review your project  
results through

**Total Access**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*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.*

1

2

3

4

5

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# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-2



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## Job ID: 500-57505-2

---

### Laboratory: TestAmerica Chicago

#### Narrative

---

Job Narrative  
500-57505-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/30/2013 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 1.7° C, 3.4° C, 3.4° C, 3.8° C, 4.1° C and 4.6° C.

#### Except:

The COC has methods 226/228 for MW-13, MW-14 and MW-15. Lab did not receive bottles for 226/228 for these samples. We did receive 226/228 bottles for samples MW-9, MW-11 and MW-12. logged per the bottles.  
6/4/13 - per client, bottles are correct

#### Subcontract non-Sister

No analytical or quality issues were noted.

#### Subcontract Work

Methods Radium 226 EPA 903.0 / GPC, Radium 228 EPA 904.0 / GPC: These methods were subcontracted to TestAmerica Richland. The subcontract certifications are different from those listed on the TestAmerica cover page of this final report.

# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-57505-9	MW-9	Water	05/30/13 08 04	05/31/13 10 20
500-57505-10	MW-11	Water	05/30/13 09 19	05/31/13 10 20
500-57505-11	MW-12	Water	05/30/13 10 10	05/31/13 10 20





Analytical Data Package Prepared For

# TestAmerica Chicago

500-57505-1

Radiochemical Analysis By

**TestAmerica**

*2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.*

Assigned Laboratory Code: TARL

Data Package Contains 14 Pages

Report No.: 55993

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
46834		MW-11(500-57505-10)	J3F040441-2	M016Q1AA	9M016Q10	3157072
		MW-11(500-57505-10)	J3F040441-2	M016Q2AC	9M016Q20	3177019
		MW-12(500-57505-11)	J3F040441-3	M016R1AA	9M016R10	3157072
		MW-12(500-57505-11)	J3F040441-3	M016R2AC	9M016R20	3177019
		MW-9(500-57505-9)	J3F040441-1	M016P1AA	9M016P10	3157072
		MW-9(500-57505-9)	J3F040441-1	M016P2AC	9M016P20	3177019

## Certificate of Analysis

June 28, 2013

TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60466

Attention: **Bonnie Stadelmann**

---

Date Received	:	June 4, 2013
Sample Type	:	Three (3) Water
SDG Number	:	46834
Project Name	:	Midwest Generation / Powerton Station Ash Ponds
Project Number	:	500-57505-1

---

### CASE NARRATIVE

#### **I. Introduction**

On June 4, 2013, three water samples were received at the TestAmerica Richland laboratory for radiochemical analysis. Upon receipt, the samples were assigned the TestAmerica identification numbers as described on the cover page of the Analytical Data Package report form. The samples were assigned to Lot Number J3F040441.

#### **II. Sample Receipt**

The samples were received in good condition and no anomalies were noted during check-in.

#### **III. Analytical Results/Methodology**

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical errors.

The analyses requested were:

**Gas Proportional Counting**  
Total Alpha Radium by method RL-RA-002  
Radium 228 by method RJ-RA-001





**IV. Quality Control**

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

**V. Comments**

**Gas Proportional Counting**

Total Alpha Radium (Ra226) by method RL-RA-002:

There was insufficient sample volume received to analyze a batch duplicate. Data is accepted. Except as noted, the LCS, batch blank, sample and sample duplicate results meet acceptance criteria.


Radium 228 by method RL-RA-001:

There was insufficient sample volume received to analyze a batch duplicate. Also, the achieved MDA's exceed the detection limit due to insufficient volume provided for a full one liter analysis. Reduced volumes were used, thus MDA's exceed the DL. The LCS recovery yield was elevated in the initial analysis. The batch was re-milked. Data is accepted. Except as noted the LCS, batch blank, sample and sample duplicate results meet acceptance criteria.

I certify that this Certificate of Analysis is in compliance with the SOW and/or NELAC, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Erika Jordan

 2013.06.28  
15:58:48 -07'00'

\_\_\_\_\_  
Erika Jordan  
Customer Service Manager

**Drinking Water Method Cross References**

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	TestAmerica Richland's SOP No.
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

**Results in this report relate only to the sample(s) analyzed.**

**Uncertainty Estimation**

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship,  $R = \text{constants} * f(x,y,z,...)$ . The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties ( $u_i$ ) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty ( $u_c$ ) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value ( $S/\sqrt{n}$ ), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

## Report Definitions

<b>Action Lev</b>	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
<b>Batch</b>	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
<b>Bias</b>	Defined by the equation $(\text{Result}/\text{Expected}) - 1$ as defined by ANSI N13.30.
<b>COC No</b>	Chain of Custody Number assigned by the Client or TestAmerica.
<b>Count Error (#s)</b>	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
<b>Total Uncert (#s) <i>u<sub>c</sub> - Combined Uncertainty.</i></b>	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, <i>u<sub>c</sub> the combined uncertainty.</i> The uncertainty is absolute and in the same units as the result.
<b>(#s), Coverage Factor</b>	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
<b>CRDL (RL)</b>	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
<b>Lc</b>	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgndCnt}/\text{BkgndCntMin})/\text{SCntMin})) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$ . For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
<b>Lot-Sample No</b>	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
<b>MDC/MDA</b>	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \text{Sqrt}((\text{BkgndCnt}/\text{BkgndCntMin})/\text{SCntMin}) + 2.71/\text{SCntMin}) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$ . For LSC methods the batch blank is used as a measure of the background variability.
<b>Primary Detector</b>	The instrument identifier associated with the analysis of the sample aliquot.
<b>Ratio U-234/U-238</b>	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
<b>Rst/MDC</b>	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
<b>Rst/TotUcert</b>	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
<b>Report DB No</b>	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
<b>RER</b>	The equation Replicate Error Ratio = $(S-D)/[\text{sqrt}(\text{TPUs}^2 + \text{TPUD}^2)]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPU <sub>s</sub> is the total uncertainty of the original sample and TPU <sub>d</sub> is the total uncertainty of the duplicate sample.
<b>SDG</b>	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
<b>Sum Rpt Alpha Spec Rst(s)</b>	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
<b>Work Order</b>	The LIMS software assign test specific identifier.
<b>Yield</b>	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.



**Sample Results Summary**  
**TestAmerica TARL**  
 Ordered by Method, Batch No., Client Sample ID.

Date: 28-Jun-13

Report No. : 55993

SDG No: 46834

Batch	Client Id Work Order	Parameter	Result +- Uncertainty ( 2s)	Qual	Units	Tracer Yield	MDL	CRDL	RER2
3167072 RL-RA-002									
MW-11(500-57505-10)									
	M016Q1AA	TOTAL ALPHA RA	-1.35E-01 +- 2.0E-01	ND	pCi/L	100%	6.48E-01	1.00E+00	
MW-12(500-57505-11)									
	M016R1AA	TOTAL ALPHA RA	3.63E-01 +- 3.6E-01	ND	pCi/L	85%	6.32E-01	1.00E+00	
MW-9(500-57505-9)									
	M016P1AA	TOTAL ALPHA RA	1.53E-02 +- 2.2E-01	ND	pCi/L	100%	5.84E-01	1.00E+00	
3177019 RL-RA-001									
MW-11(500-57505-10)									
	M016Q2AC	RA-228	8.02E-01 +- 5.6E-01	ND	pCi/L	74%	1.18E+00	1.00E+00	
MW-12(500-57505-11)									
	M016R2AC	RA-228	2.56E-01 +- 5.6E-01	ND	pCi/L	77%	1.24E+00	1.00E+00	
MW-9(500-57505-9)									
	M016P2AC	RA-228	5.05E-01 +- 5.4E-01	ND	pCi/L	82%	1.15E+00	1.00E+00	
No. of Results: 6									

TestAmerica RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.  
 rptSTLRchSaSummary2 V5.2.23  
 A2002  
 D Qual - Result is greater than 3 times 1s Total Uncertainty



**QC Results Summary**  
**TestAmerica TARL**  
 Ordered by Method, Batch No, QC Type,

Date: 28-Jun-13

Report No. : 55993

SDG No.: 46834

1  
2  
3  
4  
**5**  
6  
7  
8

Batch	Work Order	Parameter	Result +/- Uncertainty ( 2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
<b>RL-RA-002</b>									
3157072 BLANK QC,									
	M02Q41AA	TOTAL ALPHA RA	1.17E-01 +/- 2.5E-01	N	pCi/L	74%			5.50E-01
3157072 LCS,									
	M02Q41AC	TOTAL ALPHA RA	6.69E+00 +/- 1.8E+00		pCi/L	81%	105%	0.1	3.85E-01
<b>RL-RA-001</b>									
3177019 BLANK QC,									
	M02Q32AA	RA-228	2.88E-01 +/- 3.7E-01	N	pCi/L	74%			7.93E-01
3177019 LCS,									
	M02Q32AC	RA-228	4.87E+00 +/- 7.9E-01		pCi/L	88%	97%	0.0	5.13E-01
No. of Results: 4									

TestAmerica Bias - (Result/Expected)-1 as defined by ANSI N13.30.  
 rptSTLRchQcSummary V6.2.23 D Qual - Result is greater than 3 times 1s Total Uncertainty  
 A2002

TestAmerica Laboratories, Inc.

FORM I

Date: 28-Jun-13

SAMPLE RESULTS

Lab Name: TestAmerica  
 Lot-Sample No.: J3F040441-2  
 Client Sample ID: MW-11(500-57505-10)  
 500-57505-1

SDG: 46834  
 Report No.: 55993  
 COC No.: 500-35387.1

Collection Date: 5/30/2013 9:19:00 AM  
 Received Date: 6/4/2013 10:20:00 AM  
 Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL) RsvTotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3157072 RL-RA-002											
TOTAL ALPHA RA	-1.35E-01	ND	1.9E-01	2.0E-01	6.48E-01	pCi/L	100% -0.21	6/24/13 10:09 a	0.3574	L	GPC24A
Work Order: M016Q1AA Report DB ID: 9M016Q10											
2.86E-01 1.00E+00 (1.4)											
Batch: 3177019 RL-RA-001											
RA-228	6.02E-01	ND	5.4E-01	5.6E-01	1.18E+00	pCi/L	74% 0.51	6/28/13 02:01 p	0.65	L	GPC1B
Work Order: M016Q2AC Report DB ID: 9M016Q20											
5.45E-01 1.00E+00 (2.2)											

No. of Results: 2 Comments:

TestAmerica MDC(MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.  
 rptSTLRchSample D Qual - Result is greater than 3 times 1s Total Uncertainty  
 V5.2.23 A2002

TestAmerica Laboratories, Inc.



FORM I

Date: 28-Jun-13

SAMPLE RESULTS

Lab Name: TestAmerica  
 Lot-Sample No.: J3F040441-3  
 Client Sample ID: MW-12(500-57505-11)  
 500-57505-1

SDG: 46834  
 Report No.: 55993  
 COC No.: 500-35387.1

Collection Date: 5/30/2013 10:10:00 AM  
 Received Date: 6/4/2013 10:20:00 AM  
 Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpl Unit, Lc	Yield CRDL(RL)	Rst/MDL, Ref/TotalCert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3157072	RI-RA-002											
TOTAL ALPHA IAA	3.63E-01	ND	3.5E-01	3.6E-01	6.32E-01	pCi/L	85%	0.57	6/24/13 10:09 a	0.3/14	0.3/14	GPC24B
						2.49E-01	1.00E+00	(2.)			L	
Work Order: M016R1AA												
Report DB ID: 9M016R10												
Batch: 3177019	RL-RA-001											
RA-228	2.56E-01	ND	5.4E-01	5.6E-01	1.24E+00	pCi/L	77%	0.21	6/28/13 02:01 p	0.6502	0.6502	GPC1C
						5.76E-01	1.00E+00	0.92			L	
Work Order: M016R2AC												
Report DB ID: 9M016R20												

No. of Results: 2      Comments:

TestAmerica      MDC|MDA,Lc - Detection, Decision Level based on Instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.  
 rp|STLRchSample      D Qual - Result is greater than 3 times 1s Total Uncertainty  
 V5.2.23 A2002

TestAmerica Laboratories, Inc.



**FORM I**  
**SAMPLE RESULTS**

Date: 28-Jun-13

Lab Name: TestAmerica      SDG: 46834      Collection Date: 5/30/2013 8:04:00 AM  
 Lot-Sample No.: J3F040441-1      Report No.: 55993      Received Date: 6/4/2013 10:20:00 AM  
 Client Sample ID: MW-9(500-57505-9)      COC No.: 500-35387.1      Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL Action Lev	Rpt Unit, Lc	Yield CRDL(RL) Rel/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3157072	RL-RA-002						Report DB ID: 9M016P10				
TOTAL ALPHA RA	1.53E-02	ND	2.2E-01	2.2E-01	5.84E-01	pCi/L	100% 0.03	6/24/13 10:09 a	0.3322	L	GPC23D
							2.30E-01 1.00E+00 0.14				
Batch: 3177019	RL-RA-001						Report DB ID: 9M016P20				
RA-22B	5.05E-01	ND	5.2E-01	5.4E-01	1.15E+00	pCi/L	82% 0.44	6/28/13 02:01 p	0.0614	L	GPC1A
							5.36E-01 1.00E+00 (1.9)				

No. of Results: 2      Comments:

TestAmerica      MDC|MDALc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.  
 rpt|STL|RelSample      D Qual - Result is greater than 3 times 1s Total Uncertainty  
 V6.2.23 A2002

TestAmerica Laboratories, Inc.

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# 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: 500-57578-1  
Client Project/Site: Powerton Station Ash Ponds

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

Attn: Richard Gnat



Authorized for release by:  
6/14/2013 8:35:14 AM

Bonnie Stadelmann, Project Manager II  
[bonnie.stadelmann@testamericainc.com](mailto:bonnie.stadelmann@testamericainc.com)

### LINKS

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*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.*

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## Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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**Job ID: 500-57578-1**

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**Laboratory: TestAmerica Chicago**

### Narrative

Job Narrative  
500-57578-1

### Comments

No additional comments.

### Receipt

The sample was received on 5/31/2013 4:30 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

### GC/MS VOA

No analytical or quality issues were noted.

### Metals

Method(s) 6020A: The low-level CCV at line 40 in 6020a batch 189698 was outside the method acceptance limits of 70-130%rec for B-. The following sample was bracketed: 500-57578-1. The low level standard concentration was insignificant compared with the reported sample results and the sample results were unaffected by the bias at that level. The mid-range CCVs bracketing the data were all within the 90-110% recovery limits.

No other analytical or quality issues were noted.

### General Chemistry

Method(s) 353.2, SM 4500 NO3 F: The Initial calibration verification (ICV) for 189564 associated with batch 189564 recovered above the upper control limit. The samples associated with this ICV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.



## Detection Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

Client Sample ID: East Yard Run Off Basin

Lab Sample ID: 500-57578-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0030		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.16		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.35	^	0.050		mg/L	1		6020A	Total Recoverable
Copper	0.0057		0.0020		mg/L	1		6020A	Total Recoverable
Iron	0.62		0.10		mg/L	1		6020A	Total Recoverable
Lead	0.0044		0.00050		mg/L	1		6020A	Total Recoverable
Manganese	0.060		0.0025		mg/L	1		6020A	Total Recoverable
Nickel	0.0029		0.0020		mg/L	1		6020A	Total Recoverable
Vanadium	0.0071		0.0050		mg/L	1		6020A	Total Recoverable
Zinc	0.042		0.020		mg/L	1		6020A	Total Recoverable
Sulfate	160		50		mg/L	10		9038	Total/NA
Chloride	130		10		mg/L	5		9251	Total/NA
Total Dissolved Solids	590		10		mg/L	1		SM 2540C	Total/NA
Fluoride	0.42		0.10		mg/L	1		SM 4500 F C	Total/NA

This Detection Summary does not include radiochemical test results

TestAmerica Chicago

# Method Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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

TestAmerica Chicago

# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-57578-1	East Yard Run Off Basin	Water	05/31/13 10:05	05/31/13 16:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

**Client Sample ID: East Yard Run Off Basin**

**Lab Sample ID: 500-57578-1**

Date Collected: 05/31/13 10:05

Matrix: Water

Date Received: 05/31/13 16:30

**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			06/04/13 12:39	1
Toluene	<0.00050		0.00050		mg/L			06/04/13 12:39	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/13 12:39	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/13 12:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	82		75 - 125					06/04/13 12:39	1
Toluene-d8 (Surr)	97		75 - 120					06/04/13 12:39	1
4-Bromofluorobenzene (Surr)	102		75 - 120					06/04/13 12:39	1
Dibromofluoromethane	86		75 - 120					06/04/13 12:39	1

**Method: 314.0 - Perchlorate (IC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/13 00:08	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		06/04/13 15:00	06/09/13 20:48	1
<b>Arsenic</b>	<b>0.0030</b>		0.0010		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Barium</b>	<b>0.16</b>		0.0025		mg/L		06/04/13 15:00	06/09/13 20:48	1
Beryllium	<0.0010		0.0010		mg/L		06/04/13 15:00	06/13/13 14:18	1
<b>Boron</b>	<b>0.35</b> ^		0.050		mg/L		06/04/13 15:00	06/13/13 14:18	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 15:00	06/09/13 20:48	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 15:00	06/09/13 20:48	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Copper</b>	<b>0.0057</b>		0.0020		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Iron</b>	<b>0.62</b>		0.10		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Lead</b>	<b>0.0044</b>		0.00050		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Manganese</b>	<b>0.060</b>		0.0025		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Nickel</b>	<b>0.0029</b>		0.0020		mg/L		06/04/13 15:00	06/09/13 20:48	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 15:00	06/09/13 20:48	1
Silver	<0.00050		0.00050		mg/L		06/04/13 15:00	06/09/13 20:48	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Vanadium</b>	<b>0.0071</b>		0.0050		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Zinc</b>	<b>0.042</b>		0.020		mg/L		06/04/13 15:00	06/09/13 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/05/13 13:30	06/06/13 09:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:59	1
<b>Sulfate</b>	<b>160</b>		50		mg/L			06/12/13 08:38	10
<b>Chloride</b>	<b>130</b>		10		mg/L			06/05/13 20:02	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/13/13 08:30	1
<b>Total Dissolved Solids</b>	<b>590</b>		10		mg/L			06/06/13 01:21	1
<b>Fluoride</b>	<b>0.42</b>		0.10		mg/L			06/08/13 12:29	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			06/01/13 11:33	1
Nitrogen, Nitrate Nitrite	<0.10	^	0.10		mg/L			06/12/13 12:19	1

TestAmerica Chicago

## Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

### Qualifiers

#### Metals

Qualifier	Qualifier Description
A	ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,DLCK or MRL standard Instrument related QC exceeds the control limits

#### General Chemistry

Qualifier	Qualifier Description
A	ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,DLCK or MRL standard Instrument related QC exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
■	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
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)

TestAmerica Chicago



## QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

### GC/MS VOA

#### Analysis Batch: 188410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	8260B	
LCS 500-188410/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-188410/6	Method Blank	Total/NA	Water	8260B	

### HPLC/IC

#### Analysis Batch: 18052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	314.0	
LCS 320-18052/10	Lab Control Sample	Total/NA	Water	314.0	
MB 320-18052/9	Method Blank	Total/NA	Water	314.0	
MRL 320-18052/6 MRL	Lab Control Sample	Total/NA	Water	314.0	

### Metals

#### Prep Batch: 188513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total Recoverable	Water	3005A	
LCS 500-188513/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 500-188513/1-A	Method Blank	Total Recoverable	Water	3005A	

#### Prep Batch: 188661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	7470A	
LCS 500-188661/8-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-188661/7-A	Method Blank	Total/NA	Water	7470A	

#### Analysis Batch: 188827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	7470A	188661
LCS 500-188661/8-A	Lab Control Sample	Total/NA	Water	7470A	188661
MB 500-188661/7-A	Method Blank	Total/NA	Water	7470A	188661

#### Analysis Batch: 189201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total Recoverable	Water	6020A	188513
LCS 500-188513/2-A	Lab Control Sample	Total Recoverable	Water	6020A	188513
MB 500-188513/1-A	Method Blank	Total Recoverable	Water	6020A	188513

#### Analysis Batch: 189698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total Recoverable	Water	6020A	188513
LCS 500-188513/2-A	Lab Control Sample	Total Recoverable	Water	6020A	188513
MB 500-188513/1-A	Method Blank	Total Recoverable	Water	6020A	188513

### General Chemistry

#### Analysis Batch: 188432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	SM 4500 NO2 B	

TestAmerica Chicago

## QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

### General Chemistry (Continued)

#### Analysis Batch: 188432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-188432/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-188432/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

#### Prep Batch: 188440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	9010B	
LCS 500-188440/2-A	Lab Control Sample	Total/NA	Water	9010B	
MB 500-188440/1-A	Method Blank	Total/NA	Water	9010B	

#### Analysis Batch: 188744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	SM 2540C	
500-57578-1 DU	East Yard Run Off Basin	Total/NA	Water	SM 2540C	
500-57578-1 MS	East Yard Run Off Basin	Total/NA	Water	SM 2540C	
LCS 500-188744/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-188744/1	Method Blank	Total/NA	Water	SM 2540C	

#### Analysis Batch: 188768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	9014	188440
LCS 500-188440/2-A	Lab Control Sample	Total/NA	Water	9014	188440
MB 500-188440/1-A	Method Blank	Total/NA	Water	9014	188440

#### Analysis Batch: 189185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	SM 4500 F C	
LCS 500-189185/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-189185/3	Method Blank	Total/NA	Water	SM 4500 F C	

#### Analysis Batch: 189427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	9251	
LCS 500-189427/5	Lab Control Sample	Total/NA	Water	9251	
MB 500-189427/4	Method Blank	Total/NA	Water	9251	

#### Analysis Batch: 189564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	SM 4500 NO3 F	
LCS 500-189564/37	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-189564/36	Method Blank	Total/NA	Water	SM 4500 NO3 F	

#### Analysis Batch: 189584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	9038	
LCS 500-189584/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-189584/3	Method Blank	Total/NA	Water	9038	

#### Analysis Batch: 189608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	Nitrate by calc	

TestAmerica Chicago



# Surrogate Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

## 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 (75-125)	TOL (75-120)	BFB (75-120)	DBFM (75-120)
500-57578-1	East Yard Run Off Basin	82	97	102	86
LCS 500-188410/4	Lab Control Sample	85	105	98	91
MB 500-188410/6	Method Blank	84	97	103	87

### Surrogate Legend

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TestAmerica Chicago

## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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

**Lab Sample ID:** MB 500-188410/6  
**Matrix:** Water  
**Analysis Batch:** 188410

**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			06/04/13 11:00	1
Toluene	<0.00050		0.00050		mg/L			06/04/13 11:00	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/13 11:00	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/13 11:00	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	84		75 - 125		06/04/13 11:00	1
Toluene-d8 (Surr)	97		75 - 120		06/04/13 11:00	1
4-Bromofluorobenzene (Surr)	103		75 - 120		06/04/13 11:00	1
Dibromofluoromethane	87		75 - 120		06/04/13 11:00	1

**Lab Sample ID:** LCS 500-188410/4  
**Matrix:** Water  
**Analysis Batch:** 188410

**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	0.0478		mg/L		96	70 - 120
Toluene	0.0500	0.0549		mg/L		110	70 - 120
Ethylbenzene	0.0500	0.0518		mg/L		104	75 - 120
Xylenes, Total	0.100	0.102		mg/L		102	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		75 - 125
Toluene-d8 (Surr)	105		75 - 120
4-Bromofluorobenzene (Surr)	98		75 - 120
Dibromofluoromethane	91		75 - 120

### Method: 314.0 - Perchlorate (IC)

**Lab Sample ID:** MB 320-18052/9  
**Matrix:** Water  
**Analysis Batch:** 18052

**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			06/10/13 16:57	1

**Lab Sample ID:** LCS 320-18052/10  
**Matrix:** Water  
**Analysis Batch:** 18052

**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	0.0529		mg/L		106	85 - 115

TestAmerica Chicago

## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

### Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 320-18052/6 MRL  
Matrix: Water  
Analysis Batch: 18052

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.05		ug/L		101	75 - 125

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

Lab Sample ID: MB 500-188513/1-A  
Matrix: Water  
Analysis Batch: 189201

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 188513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/04/13 15:00	06/09/13 20:42	1
Arsenic	<0.0010		0.0010		mg/L		06/04/13 15:00	06/09/13 20:42	1
Barium	<0.0025		0.0025		mg/L		06/04/13 15:00	06/09/13 20:42	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 15:00	06/09/13 20:42	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 15:00	06/09/13 20:42	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 15:00	06/09/13 20:42	1
Copper	<0.0020		0.0020		mg/L		06/04/13 15:00	06/09/13 20:42	1
Iron	<0.10		0.10		mg/L		06/04/13 15:00	06/09/13 20:42	1
Lead	<0.00050		0.00050		mg/L		06/04/13 15:00	06/09/13 20:42	1
Manganese	<0.0025		0.0025		mg/L		06/04/13 15:00	06/09/13 20:42	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 15:00	06/09/13 20:42	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 15:00	06/09/13 20:42	1
Silver	<0.00050		0.00050		mg/L		06/04/13 15:00	06/09/13 20:42	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 15:00	06/09/13 20:42	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 15:00	06/09/13 20:42	1
Zinc	<0.020		0.020		mg/L		06/04/13 15:00	06/09/13 20:42	1

Lab Sample ID: MB 500-188513/1-A  
Matrix: Water  
Analysis Batch: 189698

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 188513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010		mg/L		06/04/13 15:00	06/13/13 14:16	1
Boron	<0.050		0.050		mg/L		06/04/13 15:00	06/13/13 14:16	1

Lab Sample ID: LCS 500-188513/2-A  
Matrix: Water  
Analysis Batch: 189201

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 188513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.521		mg/L		104	80 - 120
Arsenic	0.100	0.106		mg/L		106	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Cadmium	0.0500	0.0530		mg/L		106	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.493		mg/L		99	80 - 120
Copper	0.250	0.258		mg/L		103	80 - 120
Iron	1.00	0.981		mg/L		98	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

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

Lab Sample ID: LCS 500-188513/2-A  
Matrix: Water  
Analysis Batch: 189201

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 188513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Manganese	0.500	0.497		mg/L		99	80 - 120	
Nickel	0.500	0.500		mg/L		100	80 - 120	
Selenium	0.100	0.108		mg/L		108	80 - 120	
Silver	0.0500	0.0535		mg/L		107	80 - 120	
Thallium	0.100	0.104		mg/L		104	80 - 120	
Vanadium	0.500	0.485		mg/L		97	80 - 120	
Zinc	0.500	0.531		mg/L		106	80 - 120	

Lab Sample ID: LCS 500-188513/2-A  
Matrix: Water  
Analysis Batch: 189698

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 188513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Beryllium	0.0500	0.0493		mg/L		99	80 - 120	
Boron	1.00	1.07		mg/L		107	80 - 120	

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-188661/7-A  
Matrix: Water  
Analysis Batch: 188827

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 188661

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		06/05/13 13:30	06/06/13 08:57	1

Lab Sample ID: LCS 500-188661/8-A  
Matrix: Water  
Analysis Batch: 188827

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 188661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Mercury	0.00200	0.00212		mg/L		106	80 - 120	

## Method: 9014 - Cyanide

Lab Sample ID: MB 500-188440/1-A  
Matrix: Water  
Analysis Batch: 188768

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 188440

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:50	1

Lab Sample ID: LCS 500-188440/2-A  
Matrix: Water  
Analysis Batch: 188768

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 188440

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Cyanide, Total	0.100	0.110		mg/L		110	80 - 120	

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

## Method: 9038 - Sulfate, Turbidimetric

**Lab Sample ID: MB 500-189584/3**  
**Matrix: Water**  
**Analysis Batch: 189584**

**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			06/12/13 08:26	1

**Lab Sample ID: LCS 500-189584/4**  
**Matrix: Water**  
**Analysis Batch: 189584**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	19.5		mg/L		97	80 - 120

## Method: 9251 - Chloride

**Lab Sample ID: MB 500-189427/4**  
**Matrix: Water**  
**Analysis Batch: 189427**

**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			06/05/13 19:27	1

**Lab Sample ID: LCS 500-189427/5**  
**Matrix: Water**  
**Analysis Batch: 189427**

**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	53.4		mg/L		107	80 - 120

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

**Lab Sample ID: MB 500-188744/1**  
**Matrix: Water**  
**Analysis Batch: 188744**

**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			06/06/13 01:04	1

**Lab Sample ID: LCS 500-188744/2**  
**Matrix: Water**  
**Analysis Batch: 188744**

**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	262		mg/L		105	80 - 120

**Lab Sample ID: 500-57578-1 MS**  
**Matrix: Water**  
**Analysis Batch: 188744**

**Client Sample ID: East Yard Run Off Basin**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	590		250	810		mg/L		88	75 - 125

TestAmerica Chicago

## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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

Lab Sample ID: 500-57578-1 DU  
Matrix: Water  
Analysis Batch: 188744

Client Sample ID: East Yard Run Off Basin  
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	590		560		mg/L		5	20

### Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-189185/3  
Matrix: Water  
Analysis Batch: 189185

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoride	<0.10		0.10		mg/L			06/08/13 11:44	1

Lab Sample ID: LCS 500-189185/4  
Matrix: Water  
Analysis Batch: 189185

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

### Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-188432/3  
Matrix: Water  
Analysis Batch: 188432

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrite	<0.020		0.020		mg/L			06/01/13 11:31	1

Lab Sample ID: LCS 500-188432/4  
Matrix: Water  
Analysis Batch: 188432

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

### Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-189564/36  
Matrix: Water  
Analysis Batch: 189564

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/12/13 13:28	1

TestAmerica Chicago



# QC Sample Results

TestAmerica Job ID: 500-57578-1

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

## Method: SM 4500 NO3 F - Nitrogen, Nitrate (Continued)

Lab Sample ID: LCS 500-189564/37  
Matrix: Water  
Analysis Batch: 189564

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.965		mg/L		96	80 - 120



# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

**Client Sample ID: East Yard Run Off Basin**

**Lab Sample ID: 500-57578-1**

Date Collected: 05/31/13 10:05

Matrix: Water

Date Received: 05/31/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188410	06/04/13 12:39	BDA	TAL CHI
Total/NA	Analysis	314.0		1	18052	06/11/13 00:08	JB	TAL SAC
Total/NA	Prep	7470A			188661	06/05/13 13:30	BJB	TAL CHI
Total/NA	Analysis	7470A		1	188827	06/06/13 09:07	BJB	TAL CHI
Total Recoverable	Prep	3005A			188513	06/04/13 15:00	RL	TAL CHI
Total Recoverable	Analysis	6020A		1	189201	06/09/13 20:48	PFK	TAL CHI
Total Recoverable	Prep	3005A			188513	06/04/13 15:00	RL	TAL CHI
Total Recoverable	Analysis	6020A		1	189698	06/13/13 14:18	PFK	TAL CHI
Total/NA	Analysis	SM 4500 NO2 B		1	188432		APW	TAL CHI
					(Start)	06/01/13 11:33		
					(End)	06/01/13 11:34		
Total/NA	Analysis	SM 2540C		1	188744	06/06/13 01:21	CLB	TAL CHI
Total/NA	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI
Total/NA	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11:59		
					(End)	06/05/13 11:59		
Total/NA	Analysis	SM 4500 F C		1	189185	06/08/13 12:29	EAT	TAL CHI
Total/NA	Analysis	9251		5	189427	06/05/13 20:02	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NO3 F		1	189564	06/12/13 12:19	CLM	TAL CHI
Total/NA	Analysis	9038		10	189584		CLB	TAL CHI
					(Start)	06/12/13 08:38		
					(End)	06/12/13 08:39		
Total/NA	Analysis	Nitrate by calc		1	189608	06/13/13 08:30	DLH	TAL CHI

**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

## Certification Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

### Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	06-30-13 *
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Georgia	State Program	4	939	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	06-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	07-15-13

### Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-13
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-17-13
California	NELAP	9	1119CA	01-31-14
Colorado	State Program	8	N/A	08-31-13
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAP	4	E87570	06-30-13
Guam	State Program	9	N/A	08-31-13
Hawaii	State Program	9	N/A	01-31-14
Illinois	NELAP	5	200060	03-17-14
Kansas	NELAP	7	E-10375	10-31-13
Louisiana	NELAP	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-14
Nebraska	State Program	7	NE-OS-22-13	01-31-14
Nevada	State Program	9	CA44	07-31-13
New Jersey	NELAP	2	CA005	06-30-13
New York	NELAP	2	11666	04-01-14
Northern Mariana Islands	State Program	9	MP0007	02-01-14
Oregon	NELAP	10	CA200005	03-28-14
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-13

\* Expired certification is currently pending renewal and is considered valid

TestAmerica Chicago

# Certification Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

## Laboratory: TestAmerica Sacramento (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-13
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	01-31-14
Washington	State Program	10	C581	05-05-14
West Virginia	State Program	3	9930C	12-31-13
West Virginia DEP	State Program	3	334	07-31-13
Wyoming	State Program	8	8TMS-Q	01-31-14







## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57578-1

Login Number: 57578

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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.	N/A	
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	3.4
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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble 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 $<6\text{mm}$ ( $1/4"$ ).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57578-1

Login Number: 57578

List Source: TestAmerica Sacramento

List Number: 1

List Creation: 06/04/13 02:57 PM

Creator: Sadler, Jeremy

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	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	



FORM II

Date: 28-Jun-13

BLANK RESULTS

Lab Name: TestAmerica      SDG: 46834  
 Matrix: WATER      Report No.: 55993

Parameter	Result	Qual	Count Error (2 s)	Total Uncert (2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3157072      RL-RA-002      Work Order: M02Q41AA      Report DB ID: M02Q41AB												
TOTAL ALPHA RA	1.17E-01	ND	2.5E-01	2.5E-01	5.50E-01	pCi/L	74%	0.21	6/24/13 10:09 a	0.5007	L	GPC24C
					2.22E-01	1.00E+00		0.94				
Batch: 3177019      RL-RA-001      Work Order: M02Q32AA      Report DB ID: M02Q32AB												
RA-228	2.88E-01	ND	3.8E-01	3.7E-01	7.93E-01	pCi/L	74%	0.38	6/28/13 02:01 p	1.0006	L	GPC1D
					3.68E-01	1.00E+00		(1.6)				

No. of Results: 2      Comments:

TestAmerica      MDC|MDA|Lc - Detection, Decision Level based on Instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.  
 rpt|STLRch|Blank      D Qual - Result is greater than 3 times is Total Uncertainty  
 V5.2.23 A2002

TestAmerica Laboratories, Inc.



FORM II

Date: 28-Jun-13

LCS RESULTS

Lab Name: TestAmerica      SDG: 46834  
 Matrix: WATER              Report No.: 55993

Parameter	Result	Qual	Count Error (2 s)	Total Uncont(2 s)	MDL	Report Unit	Yield	Expected	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 315702      RL-RA-002      Work Order: M02Q41AC      Report DB ID: M02Q41CS												
TOTAL ALPHA RA	6.69E+00		9.9E-01	1.8E+00	3.85E-01	pCi/L	81%	6.36E+00	105%	6/24/13 10:09 a	0.5018	GPC24D
							Rec Limits:	75	125	0.1	L	
Batch: 3177019      RL-RA-001      Work Order: M02Q32AC      Report DB ID: M02Q32CS												
RA-228	4.87E+00		5.5E-01	7.9E-01	5.13E-01	pCi/L	88%	5.04E+00	97%	6/28/13 02:16 p	1.0008	GPC2A
							Rec Limits:	75	125	0.0	L	

No. of Results: 2      Comments:

TestAmerica      Bias      -(Result/Expected)-1 as defined by ANSI N13.30.  
 rpiSTLRchLcs  
 V5.2.23 A2002

TestAmerica Laboratories, Inc.



TestAmerica Chicago  
 2417 Inwood Street  
 University Park, IL 60484  
 Phone (708) 534-5200 Fax (708) 534-5211

Client Information (Sub Contract Lab)  
 Shipping/Receiving

Company:  
 TestAmerica Laboratories, Inc.

Address:  
 2800 George Washington Way,  
 City:  
 Richland

State, Zip:  
 WA, 98362

Phone:  
 509-375-3131(Tel) 509-375-5590(Fax)

Fax:

Project Name:  
 Powertrain Station Ash Ponds

Project #:  
 50008027

Site:

Sampler:

Lab Pkt  
 Stadelmann, Bonnie M

E-Mail  
 bonnie.stadelmann@testamericainc.com

Center Tracking No(s):

UOC No:  
 500-35387 1

Page:  
 Page 1 of 1

Job #:  
 500-57505-1

Analysis Requested

Preservation Codes:

- A - HCL
  - B - HNO3
  - C - Zn Acetate
  - D - HNO3/Ascorbic Acid
  - E - HNO3
  - F - MeOH
  - G - Ammonia
  - H - Ammonia Acid
  - I - Ion
  - J - DI Water
  - K - EDTA
  - L - CDA
  - Other
- M - None
  - N - None
  - O - Ascorbic Acid
  - P - NADMS
  - Q - NADMS
  - R - NADMS
  - S - H2SO4
  - T - TSP Ductalysate
  - U - Ascorbic Acid
  - V - NCA
  - W - pH 4.5
  - Z - other (specify)

Subcontract

Sample Identification - Client ID (Lab ID)

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Pre-oxidized, Oxidized, Unoxidized)	Special Instructions/Note
MW-9 (500-57505-9) <i>mo1e9</i>	5/30/13	06:04	Central	Water	X
MW-11 (500-57505-10) <i>mo1e9</i>	5/30/13	09:19	Central	Water	X
MW-12 (500-57505-11) <i>mo1e9</i>	5/30/13	10:10	Central	Water	X
<i>S2F 040441</i>					
<i>S2F-40434</i>					
<i>Disc 7-2-13</i>					



Possible Hazard Identification

Unconfirmed

Deliverable (Requester: I, II, III, IV, Other: (specify))

Empty Kit Relinquished by:

Requested by:  
*Shawn's Lab*

Relinquished by:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date:

1/2 sheet of Slipment

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Received by: <i>Shawn's Lab</i>	Company: Company	Received by: <i>Swire box</i>	Company: Company	Received by: <i>Swire box</i>	Company: Company
Date/Time: <i>6/13/13 1500</i>	Date/Time: <i>6/13/13 1500</i>	Date/Time: <i>6/13/13 1500</i>	Date/Time: <i>6/13/13 1500</i>	Date/Time: <i>6/13/13 1500</i>	Date/Time: <i>6/13/13 1500</i>



Date/Time Received: 6-4-13/1020

Container GM Screen Result: (Airlock) 40 cpm Initials AB  
Sample GM Screen Result (Sample Receiving) 80 cpm Initials AB

Client: STLC SDG #: 46834 SAF #: \_\_\_\_\_ NA AB

Lot Number: 33F040441

Chain of Custody # 500-35387.1

Shipping Container ID or Air Bill Number: \_\_\_\_\_ NA AB

Samples received inside shipping container/cooler/box Yes AB ] Continue with 1 through 4. Initial appropriate response.  
No [ ] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes AB ] No [ ] No Custody Seal [ ]
- 2. Custody Seals dated and signed? Yes [ ] No AB ] No Custody Seal [ ]
- 3. Cooler temperature: \_\_\_\_\_ °C NA AB ]
- 4. Vermiculite/packing materials is NA [ ] Ice AB ] Wet AB ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes AB ] No [ ]
- 6. Number of samples received (Each sample may contain multiple bottles): 3
- 7. Containers received: 1x 500 mL

- 8. Sample holding times exceeded? NA [ ] Yes [ ] No AB ]
- 9. Samples have: \_\_\_\_\_ tape \_\_\_\_\_ hazard labels \_\_\_\_\_ custody seals AB appropriate sample labels
- 10. Matrix: \_\_\_\_\_ A (FLT, Wipe, Solid, Soil) AB I (Water) \_\_\_\_\_ S (Air, Niosh 7400) \_\_\_\_\_ T (Biological, Ni-63)

11. Samples: AB are in good condition \_\_\_\_\_ are leaking \_\_\_\_\_ are broken  
\_\_\_\_\_ have air bubbles (Only for samples requiring no head space) \_\_\_\_\_ Other \_\_\_\_\_

- 12. Sample pH appropriate for analysis requested Yes AB ] No [ ] NA [ ]  
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO<sub>3</sub> added and pH after addition on table)
- 13. Were any anomalies identified in sample receipt? Yes [ ] No AB ]
- 14. Description of anomalies (include sample numbers): NA AB ] \_\_\_\_\_

15. Sample Location, Sample Collector Listed on COC? \* Yes [ ] No AB ]  
\*For documentation only. No corrective action needed.

16. Additional Information: Samples and cooler all wet with melted ice. Not sure if any samples leaked. Did smear and checked with T, E, X probes.  
[ ] Client/Courier denied temperature check. [ ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:

Signature: [Signature] Date: 6-4-13

Client Notification needed? Yes [ ] No [ ] Date: \_\_\_\_\_  
By: \_\_\_\_\_  
Person contacted: \_\_\_\_\_

No action necessary; process as is

Project Manager [Signature] Date 6-6-13

## Certification Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57505-2

### Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	06-30-13 *
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Georgia	State Program	4	939	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	06-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	07-15-13

### Laboratory: TestAmerica Richland

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA	IHLAP		187436	07-01-13
Arizona	State Program	9	AZ0709	07-02-13
California	NELAP	9	E87829	05-31-14
Colorado	State Program	8	N/A	09-30-13
Hawaii	State Program	9	N/A	01-09-14
L-A-B	DoD ELAP		L2291	06-30-14
Nevada	State Program	9	WA00023	07-31-13
New Mexico	State Program	6	WA00023	01-09-14
Oregon	NELAP	10	WA100002	01-09-14
Pennsylvania	NELAP	3	68-04849	08-31-13
Tennessee	State Program	4	4011	08-13-13
Texas	NELAP	6	T104704493-10-1	12-31-13
USDA	Federal		P330-11-00043	01-25-14
Utah	NELAP	8	QUAN8	01-09-14 *
Washington	State Program	10	WA01116	08-14-13

\* Expired certification is currently pending renewal and is considered valid

# TestAmerica

THE LEADER IN ENVIRONMENTAL  
 2417 Bond Street, University Park, IL 60  
 Phone: 708.534.5200 Fax: 708.534.5200



500-57505 COC

Report To: **RICH GNAT**  
 Contact: **KPRG & ASSOCIATES**  
 Company: **14665 W. LISBON RD**  
 Address: **BROOKFIELD, WI**  
 Address: **262-781-0475**  
 Phone: **500-57505 COC**  
 Fax: **500-57505 COC**  
 E-Mail:

Bill To: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 POI/Reference#:

Chain of Custody Record  
 Lab Job # **500-57505**  
 Chain of Custody Number: \_\_\_\_\_  
 Page **1** of **2**  
 Temperature °C of Cooler: **(46)(34)(30)(41)**

Client	KPRG	Client Project #	12313.1		Preservative	3	1	7	7	2	7	4	3	3	Comments
			Project Name	Lab Project #											
Project Name	POWERION STATION ASH PONDS														
Project Location/State	PERION, IL														
Sample #	MS/MSD	Sample ID	Date	Time	Parameter	Container #	Matrix	1	7	2	7	4	3	3	Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Na, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
1		MW-1	5-29	08:25	MS/MSD	8	M	X	X	X	X	X	X	X	
2		MW-2	5-29	09:12	MS/MSD	8	M	X	X	X	X	X	X	X	
3		MW-3	5-29	09:53	MS/MSD	8	M	X	X	X	X	X	X	X	
4		MW-4	5-29	10:45	MS/MSD	8	M	X	X	X	X	X	X	X	
5		MW-5	5-29	11:37	MS/MSD	8	M	X	X	X	X	X	X	X	
16		MW-6	5/31	09:03	MS/MSD	9	W	X	X	X	X	X	X	X	
17		MW-7	5/31	08:15	MS/MSD	9	W	X	X	X	X	X	X	X	
8		MW-8	5-30	14:11	MS/MSD	8	W	X	X	X	X	X	X	X	
9		MW-9	5-30	08:04	MS/MSD	8	W	X	X	X	X	X	X	X	
6		MW-10	5-29	13:05	MS/MSD	8	W	X	X	X	X	X	X	X	

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other \_\_\_\_\_

Requested Due Date: \_\_\_\_\_

Requested By: \_\_\_\_\_ Date: 05-31-2013 Time: 16:30

Received By: \_\_\_\_\_ Date: 05-31-2013 Time: 16:30

Company: KPRG

Lab Counter: \_\_\_\_\_

Shipped: \_\_\_\_\_

Hand Delivered: KPRG

Client Comments: \_\_\_\_\_

Lab Comments: \_\_\_\_\_

Matrix Key:  
 WW - Wastewater  
 W - Water  
 S - Soil  
 SL - Sludge  
 MS - Miscellaneous  
 OL - Oil  
 A - Air  
 SE - Sediment  
 SO - Soil  
 L - Leachate  
 WI - Wipes  
 DW - Drinking Water  
 O - Other

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60464  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To: **RIGHT GNAT**  
 Contact: **KPRG & ASSOCIATES**  
 Company: **14665 W. LIBBON RD**  
 Address: **BROOKFIELD, WI**  
 Address: **262-781-0475**  
 Phone:   
 Fax:   
 E-Mail:

Bill To:   
 Contact:   
 Company:   
 Address:   
 Address:   
 Phone:   
 Fax:   
 POI/Reference#

Chain of Custody Record  
 Lab Job #: **500-57505**  
 Chain of Custody Number:   
 Page **2** of **2**  
 Temperature °C of Cooler:

Client	KPRG	Client Project #	12313.1		Preservative	3	1	7	7	7	2	7	4	3	3	3	Preservative Key
			Project Name	Lab Project #													
Project Name	POVERTON STATION ASH Ponds																
Project Location/Size	PERIN, IL																
Sample ID	MS/MSD	Sample ID	Date	Time	Matrix	Container	Matrix	Container	Matrix	Container	Matrix	Container	Matrix	Container	Matrix	Container	Comments
10		MW-11	5-30	09:19	8												
11		MW-12	5-30	10:10	8												
12		MW-13	5-30	10:59	10												
13		MW-14	5-30	11:44	10												
14		MW-15	5-30	12:49	10												
7		MW-16	5-29	15:58	8												
15		DUPLICATE	5-30		8												

Turnaround Time Required (Business Days)  
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date: **05-31-2013 16:30**

Requested By: **[Signature]** Date: **05-31-2013 16:30**

Received By: **[Signature]** Date: **05-31-2013 16:30**

Company: **KPRG** Company: **KPRG**

Lab Coupler: **[Blank]** Shipper: **[Blank]**

Head Delivered: **KPRG**

Matrix Key: SE - Sediment, SO - Soil, L - Leachate, VI - Wpc, DW - Drinking Water, O - Other, A - All

Client Comments:   
 Lab Comments:   
 Matrix Key:   
 WW - Wastewater, W - Water, S - Soil, SL - Sludge, MS - Miscellaneous, O - Oil, A - All

TestAmerica Chicago  
 2417 Bond Street  
 University Park IL 60484  
 Phone (708) 534-5200 Fax (708) 534-5211

### Chain of Custody Record

TestAmerica

**Client Information (Sub Contract Lab)**  
 Client Contact: Stadelmann, Bonnie M. Lab # M: 500-35389-1  
 Shipping/Receiving: bonnie.stadelmann@testamericainc.com E-Mail: Page 1 of 2  
 Company: TestAmerica Laboratories, Inc. Job #: 500-57505-1

Address: 860 Riverside Parkway, City: West Sacramento, State Zip: CA, 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 Email:  
 Project Name: Powerlon Slation Ash Ponds Site:  
 Project #: 50008027  
 SSOWs

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Element, Element, Compound, Inorganic, A-J)	Field Filtered Sample Yes or No	514.9/Particulate	Total Number of Containers	Analysis Requested	
								Barcode	500-57505-1 Chair of Custody
MW-01 (500-57505-1)	5/29/13	08:25 Central	Water	Water	X	X	1		
MW-02 (500-57505-2)	5/29/13	09:12 Central	Water	Water	X	X	1		
MW-03 (500-57505-3)	5/29/13	09:53 Central	Water	Water	X	X	1		
MW-04 (500-57505-4)	5/29/13	10:45 Central	Water	Water	X	X	1		
MW-05 (500-57505-5)	5/29/13	11:37 Central	Water	Water	X	X	1		
MW-10 (500-57505-6)	5/29/13	13:05 Central	Water	Water	X	X	1		
MW-16 (500-57505-7)	5/29/13	13:58 Central	Water	Water	X	X	1		
MW-8 (500-57505-8)	5/30/13	14:11 Central	Water	Water	X	X	1		
MW-9 (500-57505-9)	5/30/13	08:04 Central	Water	Water	X	X	1		
MW-11 (500-57505-10)	5/30/13	08:19 Central	Water	Water	X	X	1		
MW-12 (500-57505-11)	5/30/13	10:10 Central	Water	Water	X	X	1		

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) 0.02 L  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/OC Requirements

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: *Bonnie Stadelmann* Date/Time: 6/3/13 15:00 Company: TA-CHI  
 Relinquished by: *[Signature]* Date/Time: 6/4/13 8:58 Company: TA  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_



TestAmerica Chicago  
 2417 Bond Street  
 University Park, IL 60484  
 Phone: (708) 534-5200 Fax: (708) 534-5211

### Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)  
 Client Contact: Shipping/Receiving  
 Company: TestAmerica Laboratories, Inc.  
 Address: 880 Riverside Parkway, West Sacramento, CA 95605  
 Phone: 916-373-5600 (Tel) 916-372-1059 (Fax)  
 E-Mail: E-Mail  
 Project # 50008027  
 SSGM#

Lab PM: Stadelmann, Bonnie M  
 E-Mail: bonnie.stadelmann@testamericainc.com  
 Shipping/Receiving No(s):  
 Page 2 of 2  
 Job # 500-57505-1

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Prevalent, Suspect, Onsite/Offsite)	Field Filtered Sample (Yes or No)	316/2 Perchlorate	Total Number of Containers	Analysis Requested		Special Instructions/Note:
								Preservation Code:	Method of Storage:	
MW-13 (500-57505-12)	5/30/13	10:59 Central	Water	Water	X	X	1			
MW-14 (500-57505-13)	5/30/13	11:44 Central	Water	Water	X	X	1			
MW-15 (500-57505-14)	5/30/13	12:40 Central	Water	Water	X	X	1			
DUPLICATE (500-57505-15)	5/30/13	Central	Water	Water	X	X	1			
MW-6 (500-57505-16)	5/31/13	09:03 Central	Water	Water	X	X	1			
MW-7 (500-57505-17)	5/31/13	08:15 Central	Water	Water	X	X	1			

Possible Hazard Identification  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/OC Requirements:

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: *[Signature]* Date/Time: 6/4/13 8:50  
 Company: [Blank] Company: [Blank]

Retrieved by: *[Signature]* Date/Time: [Blank] Company: [Blank]

Retained by: [Blank] Date/Time: [Blank] Company: [Blank]



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57505-2

Login Number: 57505

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4,1.7,4.6,3.4,3.8,4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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 $<6\text{mm}$ ( $1/4"$ ).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# 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: 500-57578-1  
Client Project/Site: Powerton Station Ash Ponds

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

Attn: Richard Gnat



Authorized for release by:  
6/14/2013 8:35:14 AM

Bonnie Stadelmann, Project Manager II  
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*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.*

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# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

**Job ID: 500-57578-1**

**Laboratory: TestAmerica Chicago**

## Narrative

Job Narrative  
500-57578-1

### Comments

No additional comments.

### Receipt

The sample was received on 5/31/2013 4:30 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

### GC/MS VOA

No analytical or quality issues were noted.

### Metals

Method(s) 6020A: The low-level CCV at line 40 in 6020a batch 189698 was outside the method acceptance limits of 70-130%rec for B-. The following sample was bracketed: 500-57578-1. The low level standard concentration was insignificant compared with the reported sample results and the sample results were unaffected by the bias at that level. The mid-range CCVs bracketing the data were all within the 90-110% recovery limits.

No other analytical or quality issues were noted.

### General Chemistry

Method(s) 353.2, SM 4500 NO3 F: The Initial calibration verification (ICV) for 189564 associated with batch 189564 recovered above the upper control limit. The samples associated with this ICV were non-detects for the affected analytes, therefore, the data have been reported.

No other analytical or quality issues were noted.



# Detection Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

**Client Sample ID: East Yard Run Off Basin**

**Lab Sample ID: 500-57578-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0030		0.0010		mg/L	1		6020A	Total
Barium	0.16		0.0025		mg/L	1		6020A	Total
Boron	0.35	^	0.050		mg/L	1		6020A	Total
Copper	0.0057		0.0020		mg/L	1		6020A	Total
Iron	0.62		0.10		mg/L	1		6020A	Total
Lead	0.0044		0.00050		mg/L	1		6020A	Total
Manganese	0.060		0.0025		mg/L	1		6020A	Total
Nickel	0.0029		0.0020		mg/L	1		6020A	Total
Vanadium	0.0071		0.0050		mg/L	1		6020A	Total
Zinc	0.042		0.020		mg/L	1		6020A	Total
Sulfate	160		50		mg/L	10		9038	Total/VNA
Chloride	130		10		mg/L	5		9251	Total/VNA
Total Dissolved Solids	590		10		mg/L	1		SM 2540C	Total/VNA
Fluoride	0.42		0.10		mg/L	1		SM 4500 F C	Total/VNA

This Detection Summary does not include radiochemical test results

TestAmerica Chicago



## Method Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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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# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-57578-1	East Yard Run Off Basin	Water	05/31/13 10:05	05/31/13 16:30

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# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

**Client Sample ID: East Yard Run Off Basin**

**Lab Sample ID: 500-57578-1**

Date Collected: 05/31/13 10:05

Matrix: Water

Date Received: 05/31/13 16:30

### 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			06/04/13 12:39	1
Toluene	<0.00050		0.00050		mg/L			06/04/13 12:39	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/13 12:39	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/13 12:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	82		75 - 125					06/04/13 12:39	1
Toluene-d8 (Surr)	97		75 - 120					06/04/13 12:39	1
4-Bromofluorobenzene (Surr)	102		75 - 120					06/04/13 12:39	1
Dibromofluoromethane	86		75 - 120					06/04/13 12:39	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/13 00:08	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		06/04/13 15:00	06/09/13 20:48	1
<b>Arsenic</b>	<b>0.0030</b>		0.0010		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Barium</b>	<b>0.16</b>		0.0025		mg/L		06/04/13 15:00	06/09/13 20:48	1
Beryllium	<0.0010		0.0010		mg/L		06/04/13 15:00	06/13/13 14:18	1
<b>Boron</b>	<b>0.35</b> ^		0.050		mg/L		06/04/13 15:00	06/13/13 14:18	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 15:00	06/09/13 20:48	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 15:00	06/09/13 20:48	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Copper</b>	<b>0.0057</b>		0.0020		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Iron</b>	<b>0.62</b>		0.10		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Lead</b>	<b>0.0044</b>		0.00050		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Manganese</b>	<b>0.060</b>		0.0025		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Nickel</b>	<b>0.0029</b>		0.0020		mg/L		06/04/13 15:00	06/09/13 20:48	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 15:00	06/09/13 20:48	1
Silver	<0.00050		0.00050		mg/L		06/04/13 15:00	06/09/13 20:48	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Vanadium</b>	<b>0.0071</b>		0.0050		mg/L		06/04/13 15:00	06/09/13 20:48	1
<b>Zinc</b>	<b>0.042</b>		0.020		mg/L		06/04/13 15:00	06/09/13 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/05/13 13:30	06/06/13 09:07	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:59	1
<b>Sulfate</b>	<b>180</b>		50		mg/L			06/12/13 08:38	10
<b>Chloride</b>	<b>130</b>		10		mg/L			06/05/13 20:02	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/13/13 08:30	1
<b>Total Dissolved Solids</b>	<b>590</b>		10		mg/L			06/06/13 01:21	1
<b>Fluoride</b>	<b>0.42</b>		0.10		mg/L			06/08/13 12:29	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			06/01/13 11:33	1
Nitrogen, Nitrate Nitrite	<0.10	^	0.10		mg/L			06/12/13 12:19	1

TestAmerica Chicago

# Definitions/Glossary

TestAmerica Job ID: 500-57578-1

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

## Qualifiers

### Metals

Qualifier	Qualifier Description
A	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard. Instrument related QC exceeds the control limits

### General Chemistry

Qualifier	Qualifier Description
A	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard. Instrument related QC exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
a	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
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)

TestAmerica Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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## GC/MS VOA

### Analysis Batch: 188410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	8260B	
LCS 500-188410/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-188410/6	Method Blank	Total/NA	Water	8260B	

## HPLC/IC

### Analysis Batch: 18052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	314.0	
LCS 320-18052/10	Lab Control Sample	Total/NA	Water	314.0	
MB 320-18052/9	Method Blank	Total/NA	Water	314.0	
MRL 320-18052/6 MRL	Lab Control Sample	Total/NA	Water	314.0	

## Metals

### Prep Batch: 188513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total Recoverable	Water	3005A	
LCS 500-188513/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 500-188513/1-A	Method Blank	Total Recoverable	Water	3005A	

### Prep Batch: 188661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	7470A	
LCS 500-188661/8-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-188661/7-A	Method Blank	Total/NA	Water	7470A	

### Analysis Batch: 188827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	7470A	188661
LCS 500-188661/8-A	Lab Control Sample	Total/NA	Water	7470A	188661
MB 500-188661/7-A	Method Blank	Total/NA	Water	7470A	188661

### Analysis Batch: 189201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total Recoverable	Water	6020A	188513
LCS 500-188513/2-A	Lab Control Sample	Total Recoverable	Water	6020A	188513
MB 500-188513/1-A	Method Blank	Total Recoverable	Water	6020A	188513

### Analysis Batch: 189698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total Recoverable	Water	6020A	188513
LCS 500-188513/2-A	Lab Control Sample	Total Recoverable	Water	6020A	188513
MB 500-188513/1-A	Method Blank	Total Recoverable	Water	6020A	188513

## General Chemistry

### Analysis Batch: 188432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	SM 4500 NO2 B	

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# QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

## General Chemistry (Continued)

### Analysis Batch: 188432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-188432/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-188432/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

### Prep Batch: 188440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	9010B	
LCS 500-188440/2-A	Lab Control Sample	Total/NA	Water	9010B	
MB 500-188440/1-A	Method Blank	Total/NA	Water	9010B	

### Analysis Batch: 188744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	SM 2540C	
500-57578-1 DU	East Yard Run Off Basin	Total/NA	Water	SM 2540C	
500-57578-1 MS	East Yard Run Off Basin	Total/NA	Water	SM 2540C	
LCS 500-188744/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-188744/1	Method Blank	Total/NA	Water	SM 2540C	

### Analysis Batch: 188768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	9014	188440
LCS 500-188440/2-A	Lab Control Sample	Total/NA	Water	9014	188440
MB 500-188440/1-A	Method Blank	Total/NA	Water	9014	188440

### Analysis Batch: 189185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	SM 4500 F C	
LCS 500-189185/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-189185/3	Method Blank	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 189427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	9251	
LCS 500-189427/5	Lab Control Sample	Total/NA	Water	9251	
MB 500-189427/4	Method Blank	Total/NA	Water	9251	

### Analysis Batch: 189564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	SM 4500 NO3 F	
LCS 500-189564/37	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-189564/36	Method Blank	Total/NA	Water	SM 4500 NO3 F	

### Analysis Batch: 189584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	9038	
LCS 500-189584/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-189584/3	Method Blank	Total/NA	Water	9038	

### Analysis Batch: 189608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57578-1	East Yard Run Off Basin	Total/NA	Water	Nitrate by calc	

TestAmerica Chicago



# Surrogate Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

## 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 (75-125)	TOL (75-120)	BFB (75-120)	DBFM (75-120)
500-57578-1	East Yard Run Off Basin	82	97	102	86
LCS 500-188410/4	Lab Control Sample	85	105	98	91
MB 500-188410/6	Method Blank	84	97	103	87

### Surrogate Legend

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane



## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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

**Lab Sample ID: MB 500-188410/6**  
**Matrix: Water**  
**Analysis Batch: 188410**

**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			06/04/13 11:00	1
Toluene	<0.00050		0.00050		mg/L			06/04/13 11:00	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/13 11:00	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/13 11:00	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	84		75 - 125		06/04/13 11:00	1
Toluene-d8 (Surr)	97		75 - 120		06/04/13 11:00	1
4-Bromofluorobenzene (Surr)	103		75 - 120		06/04/13 11:00	1
Dibromofluoromethane	87		75 - 120		06/04/13 11:00	1

**Lab Sample ID: LCS 500-188410/4**  
**Matrix: Water**  
**Analysis Batch: 188410**

**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	0.0478		mg/L		96	70 - 120
Toluene	0.0500	0.0549		mg/L		110	70 - 120
Ethylbenzene	0.0500	0.0518		mg/L		104	75 - 120
Xylenes, Total	0.100	0.102		mg/L		102	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		75 - 125
Toluene-d8 (Surr)	105		75 - 120
4-Bromofluorobenzene (Surr)	98		75 - 120
Dibromofluoromethane	91		75 - 120

### Method: 314.0 - Perchlorate (IC)

**Lab Sample ID: MB 320-18052/9**  
**Matrix: Water**  
**Analysis Batch: 18052**

**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			06/10/13 16:57	1

**Lab Sample ID: LCS 320-18052/10**  
**Matrix: Water**  
**Analysis Batch: 18052**

**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	0.0529		mg/L		106	85 - 115

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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## Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 320-18052/6 MRL  
Matrix: Water  
Analysis Batch: 18052

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.05		ug/L		101	75 - 125

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

Lab Sample ID: MB 500-188513/1-A  
Matrix: Water  
Analysis Batch: 189201

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 188513

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/04/13 15:00	06/09/13 20:42	1
Arsenic	<0.0010		0.0010		mg/L		06/04/13 15:00	06/09/13 20:42	1
Barium	<0.0025		0.0025		mg/L		06/04/13 15:00	06/09/13 20:42	1
Cadmium	<0.00050		0.00050		mg/L		06/04/13 15:00	06/09/13 20:42	1
Chromium	<0.0050		0.0050		mg/L		06/04/13 15:00	06/09/13 20:42	1
Cobalt	<0.0010		0.0010		mg/L		06/04/13 15:00	06/09/13 20:42	1
Copper	<0.0020		0.0020		mg/L		06/04/13 15:00	06/09/13 20:42	1
Iron	<0.10		0.10		mg/L		06/04/13 15:00	06/09/13 20:42	1
Lead	<0.00050		0.00050		mg/L		06/04/13 15:00	06/09/13 20:42	1
Manganese	<0.0025		0.0025		mg/L		06/04/13 15:00	06/09/13 20:42	1
Nickel	<0.0020		0.0020		mg/L		06/04/13 15:00	06/09/13 20:42	1
Selenium	<0.0025		0.0025		mg/L		06/04/13 15:00	06/09/13 20:42	1
Silver	<0.00050		0.00050		mg/L		06/04/13 15:00	06/09/13 20:42	1
Thallium	<0.0020		0.0020		mg/L		06/04/13 15:00	06/09/13 20:42	1
Vanadium	<0.0050		0.0050		mg/L		06/04/13 15:00	06/09/13 20:42	1
Zinc	<0.020		0.020		mg/L		06/04/13 15:00	06/09/13 20:42	1

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Lab Sample ID: MB 500-188513/1-A  
Matrix: Water  
Analysis Batch: 189698

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 188513

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		06/04/13 15:00	06/13/13 14:16	1
Boron	<0.050		0.050		mg/L		06/04/13 15:00	06/13/13 14:16	1

Lab Sample ID: LCS 500-188513/2-A  
Matrix: Water  
Analysis Batch: 189201

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 188513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
							%Rec. Limits
Antimony	0.500	0.521		mg/L		104	80 - 120
Arsenic	0.100	0.106		mg/L		106	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Cadmium	0.0500	0.0530		mg/L		106	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.493		mg/L		99	80 - 120
Copper	0.250	0.258		mg/L		103	80 - 120
Iron	1.00	0.981		mg/L		98	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120

TestAmerica Chicago

## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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

Lab Sample ID: LCS 500-188513/2-A  
Matrix: Water  
Analysis Batch: 189201

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 188513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Manganese	0.500	0.497		mg/L		99	80 - 120	
Nickel	0.500	0.500		mg/L		100	80 - 120	
Selenium	0.100	0.108		mg/L		108	80 - 120	
Silver	0.0500	0.0535		mg/L		107	80 - 120	
Thallium	0.100	0.104		mg/L		104	80 - 120	
Vanadium	0.500	0.485		mg/L		97	80 - 120	
Zinc	0.500	0.531		mg/L		106	80 - 120	

Lab Sample ID: LCS 500-188513/2-A  
Matrix: Water  
Analysis Batch: 189698

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 188513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Beryllium	0.0500	0.0493		mg/L		99	80 - 120	
Boron	1.00	1.07	^	mg/L		107	80 - 120	

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

Lab Sample ID: MB 500-188661/7-A  
Matrix: Water  
Analysis Batch: 188827

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 188661

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		06/05/13 13:30	06/06/13 08:57	1

Lab Sample ID: LCS 500-188661/8-A  
Matrix: Water  
Analysis Batch: 188827

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 188661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Mercury	0.00200	0.00212		mg/L		106	80 - 120	

### Method: 9014 - Cyanide

Lab Sample ID: MB 500-188440/1-A  
Matrix: Water  
Analysis Batch: 188768

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 188440

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
Cyanide, Total	<0.010		0.010		mg/L		06/04/13 09:15	06/05/13 11:50	1

Lab Sample ID: LCS 500-188440/2-A  
Matrix: Water  
Analysis Batch: 188768

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 188440

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Cyanide, Total	0.100	0.110		mg/L		110	80 - 120	

TestAmerica Chicago



# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

## Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-189584/3  
Matrix: Water  
Analysis Batch: 189584

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			06/12/13 08:26	1

Lab Sample ID: LCS 500-189584/4  
Matrix: Water  
Analysis Batch: 189584

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	19.5		mg/L		97	80 - 120

## Method: 9251 - Chloride

Lab Sample ID: MB 500-189427/4  
Matrix: Water  
Analysis Batch: 189427

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			06/05/13 19:27	1

Lab Sample ID: LCS 500-189427/5  
Matrix: Water  
Analysis Batch: 189427

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	53.4		mg/L		107	80 - 120

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

Lab Sample ID: MB 500-188744/1  
Matrix: Water  
Analysis Batch: 188744

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			06/06/13 01:04	1

Lab Sample ID: LCS 500-188744/2  
Matrix: Water  
Analysis Batch: 188744

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	262		mg/L		105	80 - 120

Lab Sample ID: 500-57578-1 MS  
Matrix: Water  
Analysis Batch: 188744

Client Sample ID: East Yard Run Off Basin  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	590		250	810		mg/L		88	75 - 125

TestAmerica Chicago

## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

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

Lab Sample ID: 500-57578-1 DU  
Matrix: Water  
Analysis Batch: 188744

Client Sample ID: East Yard Run Off Basin  
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Total Dissolved Solids	590		560		mg/L			5	20

### Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-189185/3  
Matrix: Water  
Analysis Batch: 189185

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoride	<0.10		0.10		mg/L			06/08/13 11:44	1

Lab Sample ID: LCS 500-189185/4  
Matrix: Water  
Analysis Batch: 189185

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

### Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-188432/3  
Matrix: Water  
Analysis Batch: 188432

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrite	<0.020		0.020		mg/L			06/01/13 11:31	1

Lab Sample ID: LCS 500-188432/4  
Matrix: Water  
Analysis Batch: 188432

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

### Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-189564/36  
Matrix: Water  
Analysis Batch: 189564

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/12/13 13:28	1

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

## Method: SM 4500 NO3 F - Nitrogen, Nitrate (Continued)

Lab Sample ID: LCS 500-189564/37  
Matrix: Water  
Analysis Batch: 189564

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.965		mg/L		96	80 - 120

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TestAmerica Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

**Client Sample ID: East Yard Run Off Basin**

**Lab Sample ID: 500-57578-1**

**Date Collected: 05/31/13 10:05**

**Matrix: Water**

**Date Received: 05/31/13 16:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	188410	06/04/13 12:39	BDA	TAL CHI
Total/NA	Analysis	314 0		1	18052	06/11/13 00:08	JB	TAL SAC
Total/NA	Prep	7470A			188661	06/05/13 13:30	BJB	TAL CHI
Total/NA	Analysis	7470A		1	188827	06/06/13 09:07	BJB	TAL CHI
Total Recoverable	Prep	3005A			188513	06/04/13 15:00	RL	TAL CHI
Total Recoverable	Analysis	6020A		1	189201	06/09/13 20:48	PFK	TAL CHI
Total Recoverable	Prep	3005A			188513	06/04/13 15:00	RL	TAL CHI
Total Recoverable	Analysis	6020A		1	189698	06/13/13 14:18	PFK	TAL CHI
Total/NA	Analysis	SM 4500 NO2 B		1	188432		APW	TAL CHI
					(Start)	06/01/13 11:33		
					(End)	06/01/13 11:34		
Total/NA	Analysis	SM 2540C		1	188744	06/06/13 01:21	CLB	TAL CHI
Total/NA	Prep	9010B			188440	06/04/13 09:15	EAT	TAL CHI
Total/NA	Analysis	9014		1	188768		EAT	TAL CHI
					(Start)	06/05/13 11:59		
					(End)	06/05/13 11:59		
Total/NA	Analysis	SM 4500 F C		1	189185	06/08/13 12:29	EAT	TAL CHI
Total/NA	Analysis	9251		5	189427	06/05/13 20:02	HMW	TAL CHI
Total/NA	Analysis	SM 4500 NO3 F		1	189564	06/12/13 12:19	CLM	TAL CHI
Total/NA	Analysis	9038		10	189584		CLB	TAL CHI
					(Start)	06/12/13 08:38		
					(End)	06/12/13 08:39		
Total/NA	Analysis	Nitrate by calc		1	189608	06/13/13 08:30	DLH	TAL CHI

**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

## Certification Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

### Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	06-30-13 *
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Georgia	State Program	4	939	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	06-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	07-15-13

### Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-13
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-17-13
California	NELAP	9	1119CA	01-31-14
Colorado	State Program	8	N/A	08-31-13
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAP	4	E87570	06-30-13
Guam	State Program	9	N/A	08-31-13
Hawaii	State Program	9	N/A	01-31-14
Illinois	NELAP	5	200060	03-17-14
Kansas	NELAP	7	E-10375	10-31-13
Louisiana	NELAP	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-14
Nebraska	State Program	7	NE-OS-22-13	01-31-14
Nevada	State Program	9	CA44	07-31-13
New Jersey	NELAP	2	CA005	06-30-13
New York	NELAP	2	11666	04-01-14
Northern Mariana Islands	State Program	9	MP0007	02-01-14
Oregon	NELAP	10	CA200005	03-28-14
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Chicago



# Certification Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton Station Ash Ponds

TestAmerica Job ID: 500-57578-1

## Laboratory: TestAmerica Sacramento (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-13
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	01-31-14
Washington	State Program	10	C581	05-05-14
West Virginia	State Program	3	9930C	12-31-13
West Virginia DEP	State Program	3	334	07-31-13
Wyoming	State Program	8	8TMS-Q	01-31-14









## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57578-1

Login Number: 57578

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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.	N/A	
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	3.4
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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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 $<6\text{mm}$ ( $1/4"$ ).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57578-1

Login Number: 57578

List Source: TestAmerica Sacramento

List Number: 1

List Creation: 06/04/13 02:57 PM

Creator: Sadler, Jeremy

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	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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	

