

Midwest Generation, LLC
1800 Channahon Road
Joliet, IL 60436
Telephone: (815) 207-5968

QUARTERLY GROUNDWATER MONITORING REPORT
JOLIET #29 GENERATING STATION

July 22 2015

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

Re: Quarterly Groundwater Monitoring Results – Second Quarter 2015
Joliet #29 Generating Station – Ash Impoundments
Compliance Commitment Agreement VN W-2012-00059; ID# 6284

Dear Ms. Rhodes:

The second quarterly groundwater sampling for 2015 has been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Joliet #29 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 summarizing the results of the monitoring event.

Well Inspection and Sampling Procedures

The groundwater monitoring network around the ash ponds at the Joliet facility consists of eleven wells (MW-1 through MW-11) 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). Overall the wells were in good condition with locked protector casings and the concrete surface seals were intact.

Groundwater samples at well locations MW-3 through MW-11 were collected using the low-flow sampling technique. Based on historical water levels at monitoring well locations MW-1 and MW-2, Midwest Generation determined that there was not enough water column within these wells (generally less than two feet of water column within each well) to allow for the placement of dedicated pumping systems. Instead, at these two well locations, dedicated PVC bailers are used to collect groundwater samples. During this round of sampling, MW-1 was not sampled due to a limited amount of water within that well (near dry conditions).

One duplicate sample was collected from well MW-8. In addition, a deionized water trip blank accompanied the groundwater samples bottles from and back to the laboratory. The groundwater monitoring samples and the duplicate sample were analyzed for the 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 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. The water levels were used to generate a groundwater flow map which is provided on Figure 2. Groundwater flow is generally consistent with historical conditions with flow in a southerly direction.

Analytical Data

A copy of the analytical data package is provided in Attachment 1. The field parameter and analytical data from the most recent sampling, along with the previous eight quarters of data, are summarized in Table 2. The data are generally consistent with previous data generated for the site. The off-trend detections noted last quarter for wells MW-8 and MW-11 have re-established to typical historical levels with the exception of chloride at well MW-11. Chloride was also noted to increase at wells MW-2 and MW-4 along with Total Dissolved Solids at well MW-4.

All wells for which the sampling data reports a value above one or more groundwater standards are located within the area of the approved Groundwater Management Zone.

If there are any questions, please contact either Sharene Shealey of Midwest Generation at 815-372-4625 or Richard Gnat of KPRG at 262-781-0475.

Sincerely,


William Naglosky
Station Manager

cc: William Buscher, IEPA
Sharene Shealey, Midwest Generation, LLC
Peter O'Day, Midwest Generation, LLC
Richard Gnat, KPRG and Associates, Inc.

FIGURES



WVG13-15_49778

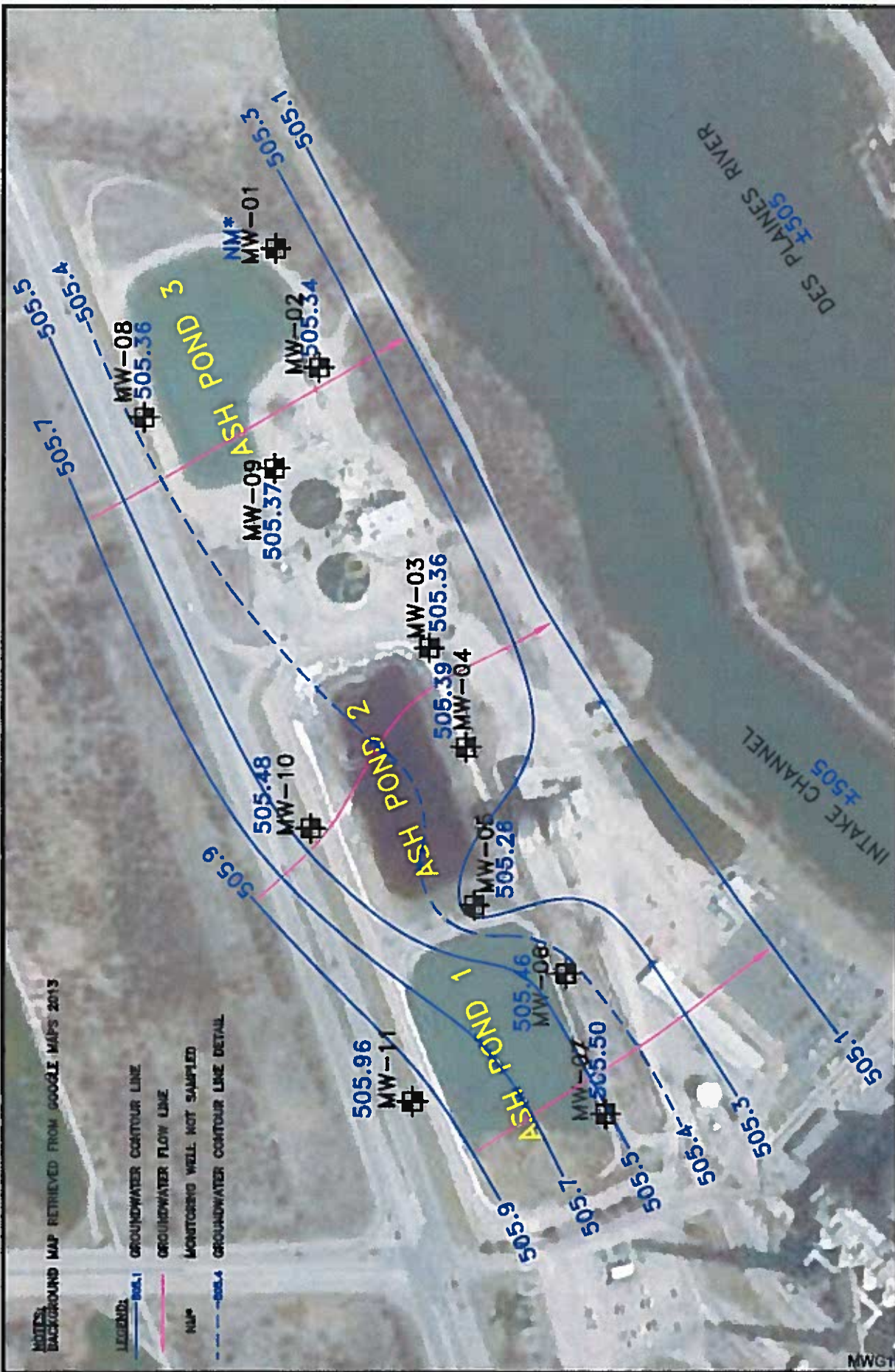
SITE MAP	
JOLIET #29 GENERATING STATION JOLIET, ILLINOIS	
Scale: 1" = 250'	Date: January 23, 2015
KPRG Project No. 12313.0 FIGURE 1	

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G
KPRG and Associates, Inc.

14685 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478
414 Plaza Drive, Suite 100 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593


 0 250'
 APPROXIMATE SCALE



NOTES:
BACKGROUND MAP RETRIEVED FROM GOOGLE MAPS 2013

- LEGENDS:
- 505.1 GROUNDWATER CONTOUR LINE
 - 505.1 GROUNDWATER FLOW LINE
 - NM* MONITORING WELL NOT SAMPLED
 - 505.1 GROUNDWATER CONTOUR LINE DETAIL

NWG18-15_49779

ENVIRONMENTAL CONSULTATION & REMEDIATION		GROUNDWATER CONTOUR MAP—MAY 2015	
 KPRC and Associates, Inc. 14665 West Elston Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478 414 Plaza Drive, Suite 100 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593		JOLIET #29 GENERATING STATION JOLIET, ILLINOIS	
		Scale: 1" = 250'	Date: June 26, 2015
		KPRG Project No. 12313.0 FIGURE 2	

TABLES

Table 1. Groundwater Elevations - Midwest Generation, LLC, Joliet Station #29, Joliet, 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-01	06/14/11	534.76	531.46	507.69	507.39	504.91	27.07	27.37	29.85
	09/14/11	534.76	531.46	505.21	NM	504.91	29.55	NM	29.85
	12/07/11	534.76	531.46	505.39	NM	504.91	29.37	NM	29.85
	03/15/12	534.76	531.46	505.47	NM	504.91	29.29	NM	29.85
	06/19/12	534.76	531.46	505.23	NM	504.91	29.53	NM	29.85
	09/19/12	534.76	531.46	510.52	510.52	504.91	24.24	24.24	29.85
	12/20/12	534.76	531.46	505.42	NM	504.91	29.34	NM	29.85
	03/05/13	534.76	531.46	505.30	NM	504.91	29.46	NM	29.85
	05/23/13	534.76	531.46	505.81	505.25	504.91	28.95	29.51	29.85
	07/22/13	534.76	531.46	504.94	504.94	504.91	29.82	29.82	29.90
	10/15/13	534.76	531.46	504.93	NM	504.88	29.83	NM	29.88
	02/21/14	534.76	531.46	---	NM	---	NM	NM	---
	05/01/14	534.76	531.46	505.73	NM	504.87	29.03	NM	29.89
	08/18/14	534.76	531.46	506.75	NM	504.87	28.01	28.89	29.89
	10/23/14	534.76	531.46	505.80	NM	504.87	28.96	29.23	29.89
02/10/15	534.76	531.46	---	NM	---	NM	NM	29.88	
05/27/15	534.76	531.46	---	NM	---	NM	NM	29.88	
MW-02	06/14/11	534.28	531.19	507.62	507.62	504.06	26.66	26.66	30.22
	09/14/11	534.28	531.19	505.13	505.17	504.06	29.15	29.11	30.22
	12/07/11	534.28	531.19	505.36	505.34	504.06	28.92	28.94	30.22
	03/15/12	534.28	531.19	505.43	505.43	504.06	28.85	28.85	30.22
	06/19/12	534.28	531.19	505.18	NM	504.06	29.10	NM	30.22
	09/19/12	534.28	531.19	512.33	505.31	504.06	21.95	28.97	30.22
	12/20/12	534.28	531.19	505.33	505.33	504.06	28.95	28.95	30.22
	03/05/13	534.28	531.19	505.31	505.31	504.06	28.97	28.97	30.22
	05/23/13	534.28	531.19	505.82	504.28	504.06	28.46	30.00	30.22
	07/22/13	534.28	531.19	505.10	505.18	504.04	29.18	29.10	30.24
	10/15/13	534.28	531.19	505.05	NM	504.05	29.23	NM	30.23
	02/21/14	534.28	531.19	505.99	506.00	504.05	28.29	28.28	30.23
	05/02/14	534.28	531.19	505.73	505.77	504.05	28.55	28.51	30.23
	08/18/14	534.28	531.19	506.05	506.05	504.05	28.23	28.23	30.23
	10/23/14	534.28	531.19	505.79	505.79	504.05	28.49	28.49	30.23
02/10/15	534.28	531.19	505.17	505.17	504.05	29.11	29.11	30.23	
05/27/15	534.28	531.19	505.34	505.32	504.05	28.94	28.96	30.23	
MW-03	06/14/11	538.78	535.54	507.97	506.89	494.68	30.81	31.89	44.10
	09/14/11	538.78	535.54	505.17	505.15	494.68	33.61	33.63	44.10
	12/07/11	538.78	535.54	505.38	505.35	494.68	33.40	33.43	44.10
	03/15/12	538.78	535.54	505.45	505.45	494.68	33.33	33.33	44.10
	06/19/12	538.78	535.54	505.23	505.23	494.68	33.55	33.55	44.10
	09/19/12	538.78	535.54	505.12	505.12	494.68	33.66	33.66	44.10
	12/20/12	538.78	535.54	505.25	505.25	494.68	33.53	33.53	44.10
	03/05/13	538.78	535.54	505.38	505.38	494.68	33.40	33.40	44.10
	05/22/13	538.78	535.54	505.87	506.03	494.68	32.91	32.75	44.10
	07/22/13	538.78	535.54	505.16	505.20	494.68	33.62	33.58	44.10
	10/15/13	538.78	535.54	505.04	505.05	494.68	33.74	33.73	44.10
	02/17/14	538.78	565.54	505.29	505.29	494.68	33.49	33.49	44.10
	05/02/14	538.78	565.54	505.70	505.71	494.68	33.08	33.07	44.10
	08/18/14	538.78	565.54	506.26	506.26	494.68	32.52	32.52	44.10
	10/23/14	538.78	565.54	505.82	505.82	494.68	32.96	32.96	44.10
02/10/15	538.78	565.54	505.19	505.20	494.68	33.59	33.58	44.10	
05/27/15	538.78	565.54	505.36	505.35	494.68	33.42	33.43	44.10	
MW-04	06/14/11	539.03	535.80	507.93	507.93	496.13	31.10	31.10	42.90
	09/14/11	539.03	535.80	505.15	505.15	496.13	33.88	33.88	42.90
	12/07/11	539.03	535.80	505.34	505.34	496.13	33.69	33.69	42.90
	03/15/12	539.03	535.80	505.43	505.43	496.13	33.60	33.60	42.90
	06/19/12	539.03	535.80	505.21	505.21	496.13	33.82	33.82	42.90
	09/19/12	539.03	535.80	505.11	505.11	496.13	33.92	33.92	42.90
	12/20/12	539.03	535.80	505.25	505.25	496.13	33.78	33.78	42.90
	03/05/13	539.03	535.80	505.39	505.39	496.13	33.64	33.64	42.90
	05/22/13	539.03	535.80	503.94	505.93	496.13	35.09	33.10	42.90
	07/22/13	539.03	535.80	505.13	505.21	496.13	33.90	33.82	42.90
	10/16/13	539.03	535.80	505.07	505.09	496.13	33.96	33.94	42.90
	02/21/14	539.03	535.80	505.99	506.00	496.13	33.04	33.03	42.90
	05/01/14	539.03	535.80	505.71	507.70	496.13	33.32	31.33	42.90
	08/18/14	539.03	535.80	506.28	506.27	496.13	32.75	32.76	42.90
	10/23/14	539.03	535.80	505.86	505.82	496.13	33.17	33.21	42.90
02/10/15	539.03	535.80	505.19	505.18	496.13	33.84	33.85	42.90	
05/27/15	539.03	535.80	505.39	505.37	496.13	33.64	33.66	42.90	

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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-05	06/14/11	539.69	536.43	507.87	507.86	494.64	31.82	31.83	45.05
	09/14/11	539.69	536.43	505.05	505.06	494.64	34.64	34.63	45.05
	12/07/11	539.69	536.43	505.23	505.23	494.64	34.46	34.46	45.05
	03/15/12	539.69	536.43	505.32	505.32	494.64	34.37	34.37	45.05
	06/19/12	539.69	536.43	505.11	505.11	494.64	34.58	34.58	45.05
	09/19/12	539.69	536.43	505.06	505.05	494.64	34.63	34.64	45.05
	12/20/12	539.69	536.43	505.22	505.22	494.64	34.47	34.47	45.05
	03/05/13	539.69	536.43	505.24	505.24	494.64	34.45	34.45	45.05
	06/05/13	539.69	536.43	506.03	506.06	494.64	33.66	33.63	45.05
	07/23/13	539.69	536.43	505.09	505.13	494.64	34.60	34.56	45.05
	10/15/13	539.69	536.43	504.99	504.99	494.64	34.70	34.70	45.05
	02/21/14	539.69	536.43	505.97	505.97	494.64	33.72	33.72	45.05
	05/01/14	539.69	536.43	505.56	505.58	494.64	34.13	34.11	45.05
	08/19/14	539.69	536.43	506.10	506.09	494.64	33.59	33.60	45.05
	10/23/14	539.69	536.43	505.65	505.65	494.64	34.04	34.04	45.05
02/11/15	539.69	536.43	505.12	505.12	494.64	34.57	34.57	45.05	
05/27/15	539.69	536.43	505.26	505.25	494.64	34.43	34.44	45.05	
MW-06	06/14/11	539.06	535.86	507.83	507.83	496.86	31.23	31.23	42.20
	09/14/11	539.06	535.86	505.19	505.24	496.86	33.87	33.82	42.20
	12/07/11	539.06	535.86	505.36	505.33	496.86	33.70	33.73	42.20
	03/15/12	539.06	535.86	505.45	505.46	496.86	33.61	33.60	42.20
	06/19/12	539.06	535.86	505.26	505.26	496.86	33.80	33.80	42.20
	09/19/12	539.06	535.86	505.26	505.24	496.86	33.80	33.82	42.20
	12/20/12	539.06	535.86	505.25	505.25	496.86	33.81	33.81	42.20
	03/05/13	539.06	535.86	505.37	505.37	496.86	33.69	33.69	42.20
	05/22/13	539.06	535.86	506.06	506.06	496.86	33.00	33.00	42.20
	07/23/13	539.06	535.86	505.28	505.26	496.86	33.78	33.80	42.20
	10/16/13	539.06	535.86	505.12	505.13	496.86	33.94	33.93	42.20
	02/21/14	539.06	535.86	506.10	506.11	496.86	32.96	32.95	42.20
	05/02/14	539.06	535.86	505.71	505.70	496.86	33.35	33.36	42.20
	08/19/14	539.06	535.86	506.22	506.22	496.86	32.84	32.84	42.20
	10/23/14	539.06	535.86	505.75	505.77	496.86	33.31	33.29	42.20
02/10/15	539.06	535.86	505.23	505.23	496.86	33.83	33.83	42.20	
05/28/15	539.06	535.86	505.46	505.45	496.86	33.60	33.61	42.20	
MW-07	06/14/11	539.35	535.86	507.83	507.83	496.11	31.52	31.52	43.24
	09/14/11	539.35	535.86	505.21	505.21	496.11	34.14	34.14	43.24
	12/07/11	539.35	535.86	505.37	505.37	496.11	33.98	33.98	43.24
	03/15/12	539.35	535.86	505.46	505.46	496.11	33.89	33.89	43.24
	06/19/12	539.35	535.86	505.28	500.70	496.11	34.07	38.65	43.24
	09/19/12	539.35	535.86	505.26	505.26	496.11	34.09	34.09	43.24
	12/20/12	539.35	535.86	505.24	505.24	496.11	34.11	34.11	43.24
	03/05/13	539.35	535.86	505.40	505.40	496.11	33.95	33.95	43.24
	05/22/13	539.35	535.86	506.17	506.17	496.11	33.18	33.18	43.24
	07/23/13	539.35	535.86	505.27	505.27	496.11	34.08	34.08	43.24
	10/16/13	539.35	535.86	505.13	505.14	496.12	34.22	34.21	43.23
	02/21/14	539.35	535.86	506.16	506.16	496.12	33.19	33.19	43.23
	05/02/14	539.35	535.86	505.71	505.70	496.12	33.64	33.65	43.23
	08/19/14	539.35	535.86	506.27	506.25	496.12	33.08	33.10	43.23
	10/23/14	539.35	535.86	505.79	505.78	496.12	33.56	33.57	43.23
02/10/15	539.35	535.86	505.24	505.24	496.12	34.11	34.11	43.23	
05/28/15	539.35	535.86	505.50	505.50	496.12	33.85	33.85	43.23	
MW-08	06/14/11	536.87	533.72	507.91	507.89	498.81	28.96	28.98	38.06
	09/14/11	536.87	533.72	505.25	505.25	498.81	31.62	31.62	38.06
	12/07/11	536.87	533.72	505.49	505.49	498.81	31.38	31.38	38.06
	03/15/12	536.87	533.72	505.57	505.57	498.81	31.30	31.30	38.06
	06/19/12	536.87	533.72	505.32	505.32	498.81	31.55	31.55	38.06
	09/19/12	536.87	533.72	505.22	505.22	498.81	31.65	31.65	38.06
	12/20/12	536.87	533.72	505.40	505.40	498.81	31.47	31.47	38.06
	03/05/13	536.87	533.72	505.45	505.45	498.81	31.42	31.42	38.06
	05/23/13	536.87	533.72	505.91	505.91	498.81	30.96	30.96	38.06
	07/22/13	536.87	533.72	505.17	505.19	498.81	31.70	31.68	38.06
	10/15/13	536.87	533.72	505.13	505.13	498.81	31.74	31.74	38.06
	02/21/14	536.87	533.72	505.94	505.95	498.81	30.93	30.92	38.06
	05/01/14	536.87	533.72	505.84	505.86	498.81	31.03	31.01	38.06
	08/18/14	536.87	533.72	506.19	506.18	498.81	30.68	30.69	38.06
	10/23/14	536.87	533.72	505.78	505.77	498.81	31.09	31.10	38.06
02/10/15	536.87	533.72	505.18	505.19	498.81	31.69	31.68	38.06	
05/27/15	536.87	533.72	505.36	505.38	498.81	31.51	31.49	38.06	

Table 1. Groundwater Elevations - Midwest Generation, LLC, Joliet Station #29, Joliet, 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-09	06/14/11	534.44	531.13	507.88	505.84	496.29	36.56	28.60	38.15
	09/14/11	534.44	531.13	505.22	504.81	496.29	29.22	29.63	38.15
	12/07/11	534.44	531.13	505.46	505.03	496.29	28.98	29.41	38.15
	03/15/12	534.44	531.13	505.53	500.37	496.29	28.91	34.07	38.15
	06/19/12	534.44	531.13	505.29	501.20	496.29	29.15	33.24	38.15
	09/19/12	534.44	531.13	505.66	504.91	496.29	28.78	29.53	38.15
	12/20/12	534.44	531.13	505.36	505.36	496.29	29.08	29.08	38.15
	03/05/13	534.44	531.13	505.50	505.50	496.29	28.94	28.94	38.15
	05/23/13	534.44	531.13	505.91	505.63	496.29	28.53	28.81	38.15
	07/22/13	534.44	531.13	505.22	505.11	496.29	29.22	29.33	38.15
	10/15/13	534.44	531.13	505.10	504.96	496.29	29.34	29.48	38.15
	02/17/14	534.44	531.13	505.30	504.98	496.29	29.14	29.46	38.15
	05/01/14	534.44	531.13	505.82	505.72	496.29	28.62	28.72	38.15
	08/18/14	534.44	531.13	506.18	505.83	496.29	28.26	28.61	38.15
	10/23/14	534.44	531.13	505.82	505.46	496.29	28.62	28.98	38.15
02/10/15	534.44	531.13	505.22	504.70	496.29	29.22	29.74	38.15	
05/27/15	534.44	531.13	505.37	504.98	496.29	29.07	29.46	38.15	
MW-10	06/14/11	540.03	536.95	508.19	508.17	496.10	31.84	31.86	43.93
	09/14/11	540.03	536.95	505.23	505.23	496.10	34.80	34.80	43.93
	12/07/11	540.03	536.95	505.43	505.43	496.10	34.60	34.60	43.93
	03/15/12	540.03	536.95	505.51	505.51	496.10	34.52	34.52	43.93
	06/19/12	540.03	536.95	505.28	505.28	496.10	34.75	34.75	43.93
	09/19/12	540.03	536.95	505.16	505.19	496.10	34.87	34.84	43.93
	12/20/12	540.03	536.95	505.30	505.30	496.10	34.73	34.73	43.93
	03/05/13	540.03	536.95	505.41	505.41	496.10	34.62	34.62	43.93
	05/22/13	540.03	536.95	505.99	505.99	496.10	34.04	34.04	43.93
	07/23/13	540.03	536.95	505.28	505.29	496.10	34.75	34.74	43.93
	10/15/13	540.03	536.95	505.10	505.10	496.10	34.93	34.93	43.93
	02/17/14	540.03	536.95	505.35	505.35	496.10	34.68	34.68	43.93
	05/01/14	540.03	536.95	505.80	505.80	496.10	34.23	34.23	43.93
	08/18/14	540.03	536.95	506.41	506.40	496.10	33.62	33.63	43.93
	10/23/14	540.03	536.95	505.89	505.88	496.10	34.14	34.15	43.93
02/11/15	540.03	536.95	505.27	505.27	496.10	34.76	34.76	43.93	
05/28/15	540.03	536.95	505.48	505.48	496.10	34.55	34.55	43.93	
MW-11	06/14/11	539.47	536.52	509.29	509.30	497.14	30.18	30.17	42.33
	09/14/11	539.47	536.52	505.49	505.49	497.14	33.98	33.98	42.33
	12/07/11	539.47	536.52	505.77	505.77	497.14	33.70	33.70	42.33
	03/15/12	539.47	536.52	505.80	505.80	497.14	33.67	33.67	42.33
	06/19/12	539.47	536.52	505.51	505.51	497.14	33.96	33.96	42.33
	09/19/12	539.47	536.52	505.35	505.35	497.14	34.12	34.12	42.33
	12/20/12	539.47	536.52	505.44	505.44	497.14	34.03	34.03	42.33
	03/05/13	539.47	536.52	505.66	505.66	497.14	33.81	33.81	42.33
	05/23/13	539.47	536.52	506.46	506.37	497.14	33.01	33.10	42.33
	07/23/13	539.47	536.52	505.44	505.50	497.14	34.03	33.97	42.33
	10/15/13	539.47	536.52	505.32	505.32	497.14	34.15	34.15	42.33
	02/21/14	539.47	536.52	506.19	506.19	497.14	33.28	33.28	42.33
	05/01/14	539.47	536.52	506.20	506.20	497.14	33.27	33.27	42.33
	08/19/14	539.47	536.52	507.14	507.13	497.14	32.33	32.34	42.33
	10/23/14	539.47	536.52	506.28	506.28	497.14	33.19	33.19	42.33
02/11/15	539.47	536.52	505.49	505.49	497.14	33.98	33.98	42.33	
05/28/15	539.47	536.52	505.96	505.97	497.14	33.51	33.50	42.33	

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Joliet Station #29, Joliet, IL

Sample: MW-01	Date	5/23/2013		7/22/2013		10/15/2013		2/21/2014		5/11/2014		8/18/2014		10/23/2014		2/10/2015		5/27/2015	
		Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL
Antimony	0.006	0.0030	0.0052	NS	NS	NS	NS	NS	NS	NS	NS	0.0030	ND	0.0030	ND	NS	NS	NS	NS
Arsenic	0.010	0.0010	0.0011	NS	NS	NS	NS	NS	NS	NS	NS	0.0010	ND	0.0010	ND	NS	NS	NS	NS
Barium	2.0	0.0025	0.15	NS	NS	NS	NS	NS	NS	NS	NS	0.0025	0.15	0.0025	0.17	NS	NS	NS	NS
Beryllium	0.004	0.0010	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0010	ND	0.0010	ND	NS	NS	NS	NS
Boron	2.0	0.050	0.13	NS	NS	NS	NS	NS	NS	NS	NS	0.050	0.22	0.050	0.21	NS	NS	NS	NS
Cadmium	0.005	0.00050	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.00050	ND	0.00050	ND	NS	NS	NS	NS
Chloride	200.0	10	310	NS	NS	NS	NS	NS	NS	NS	NS	10	120	10	79	NS	NS	NS	NS
Chromium	0.1	0.0050	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0050	ND	0.0050	ND	NS	NS	NS	NS
Cobalt	1.0	0.0010	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0010	ND	0.0010	ND	NS	NS	NS	NS
Copper	0.65	0.0020	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0020	ND	0.0020	ND	NS	NS	NS	NS
Cyanide	0.2	0.010	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.010	ND	0.010	ND	NS	NS	NS	NS
Fluoride	4.0	0.10	0.42	NS	NS	NS	NS	NS	NS	NS	NS	0.10	0.47	0.10	0.39	NS	NS	NS	NS
Iron	5.0	0.10	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.10	ND	0.10	ND	NS	NS	NS	NS
Lead	0.0075	0.00050	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.00050	ND	0.00050	ND	NS	NS	NS	NS
Manganese	0.15	0.0025	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0025	0.012	0.0025	0.015	NS	NS	NS	NS
Mercury	0.002	0.00020	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.00020	ND	0.00020	ND	NS	NS	NS	NS
Nickel	0.1	0.0020	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0020	0.0024	0.0020	0.0020	NS	NS	NS	NS
Nitrogen/Nitrate	10.0	0.10	3.7	NS	NS	NS	NS	NS	NS	NS	NS	0.10	0.44	0.10	0.71	NS	NS	NS	NS
Nitrogen/Nitrate, Nitrite	NA	0.50	3.7	NS	NS	NS	NS	NS	NS	NS	NS	0.10	0.44	0.10	0.71	NS	NS	NS	NS
Nitrogen/Nitrite	NA	0.020	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.020	ND	0.020	ND	NS	NS	NS	NS
Perchlorate	0.0049	0.0040	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0040	ND	0.0040	ND	NS	NS	NS	NS
Selenium	0.05	0.0025	0.0040	NS	NS	NS	NS	NS	NS	NS	NS	0.0025	ND	0.0025	ND	NS	NS	NS	NS
Silver	0.05	0.00050	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.00050	ND	0.00050	ND	NS	NS	NS	NS
Sulfate	400.0	25	140	NS	NS	NS	NS	NS	NS	NS	NS	20	59	20	65	NS	NS	NS	NS
Thallium	0.002	0.0020	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0020	ND	0.0020	ND	NS	NS	NS	NS
Total Dissolved Solids	1,200	10	700	NS	NS	NS	NS	NS	NS	NS	NS	10	550	10	570	NS	NS	NS	NS
Vanadium	0.049	0.0050	0.0081	NS	NS	NS	NS	NS	NS	NS	NS	0.0050	0.0066	0.0050	0.0068	NS	NS	NS	NS
Zinc	5.0	0.020	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.020	ND	0.020	ND	NS	NS	NS	NS
Benzene	0.005	0.00050	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0005	ND	0.0005	ND	NS	NS	NS	NS
BTEX	11.705	0.0025	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.002	ND	0.002	0.00056	NS	NS	NS	NS
pH	6.5 - 9.0	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NA	6.54	NA	7.08	NS	NS	NS	NS
Temperature	NA	NA	NM	NS	NS	NS	NS	NS	NS	NS	NS	NA	14.06	NA	12.25	NS	NS	NS	NS
Conductivity	NA	NA	NM	NS	NS	NS	NS	NS	NS	NS	NS	NA	0.86	NA	0.90	NS	NS	NS	NS
Dissolved Oxygen	NA	NA	NM	NS	NS	NS	NS	NS	NS	NS	NS	NA	3.38	NA	1.36	NS	NS	NS	NS
ORP	NA	NA	NM	NS	NS	NS	NS	NS	NS	NS	NS	NA	150.8	NA	66.2	NS	NS	NS	NS

Notes: Standards obtained from IAC, Title 35, Chapter I, 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 - Detectable Limit
 NA - Not Applicable
 ND - Not Detected
 NM - Not Measured

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

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

Degrees Celsius
 millisiemens/cmiliters
 milligrams/liter
 millivolt

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Joliet Station #29, Joliet, IL

Parameter	Standards	Date		5/23/2013		7/22/2013		10/15/2013		2/21/2014		5/2/2014		8/18/2014		10/23/2014		2/10/2015		5/27/2015	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Barium	2.0	0.0025	0.11	0.0025	0.093	0.12	0.0025	0.093	0.13	0.0025	0.13	0.0025	0.11	0.0025	0.087	0.0025	0.089	0.0025	0.088	0.0025	0.092
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.35	0.050	0.29	0.050	0.29	0.41	0.34	0.050	0.34	0.050	0.25	0.050	0.22	0.050	0.22	0.050	0.23	0.050	0.35
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	0.00057	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	0.00069
Chloride	200.0	10	250	10	310	10	310	180	240	10	240	50	350	10	280	10	240	10	190	50	410
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0017	0.0010	0.010
Copper	0.65	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.0059
Cyanide	0.2	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND
Fluoride	4.0	0.10	0.54	0.10	0.51	0.10	0.51	0.56	0.46	0.10	0.46	0.10	0.40	0.10	0.49	0.10	0.45	0.10	0.40	0.10	0.40
Iron	5.0	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Lead	0.0075	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.0025	ND	0.0025	0.0036	0.0025	0.0036	ND	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0031
Mercury	0.002	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0022	0.0020	0.0061	0.0020	0.0061	0.0039	0.0020	0.0020	0.0020	0.0020	0.0023	0.0020	0.0049	0.0020	0.0069	0.0020	0.0053	0.0020	0.013
Nitrogen/Nitrate	10.0	0.10	3.7	0.10	1.8	0.10	1.8	1.6	0.10	0.10	0.10	0.10	2.9	0.10	1.1	0.10	1.3	0.10	1.3	0.10	0.43
Nitrogen/Nitrate, Nitrite	NA	0.50	3.7	0.10	1.8	0.10	1.8	1.6	0.50	0.50	0.50	0.50	2.9	0.10	1.1	0.10	1.3	0.10	1.3	0.10	0.43
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Perchlorate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.05	0.0025	0.0027	0.0025	ND	0.0025	ND	0.0025	0.0077	0.0025	0.0077	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	25	150	50	140	50	140	130	61	25	61	25	68	25	85	25	92	20	67	25	100
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	860	10	980	10	980	660	830	10	830	10	1100	10	850	10	810	10	730	10	1200
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
BETX	11.705	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
pH	6.5-9.0	NA	7.44	NA	7.08	NA	7.08	7.20	9.24	NA	9.24	NA	7.22	NA	7.07	NA	7.31	NA	7.46	NA	6.83
Temperature	NA	NA	12.82	NA	16.25	NA	16.25	15.37	NA	11.97	NA	11.55	NA	16.92	NA	14.30	NA	14.30	NA	9.28	NA
Conductivity	NA	NA	1.008	NA	1.785	NA	1.785	1.02	NA	1.00	NA	1.35	NA	1.30	NA	1.30	NA	1.30	NA	0.94	NA
Dissolved Oxygen	NA	NA	7.65	NA	14.83	NA	14.83	5.81	6.17	NA	6.17	NA	8.48	NA	5.14	NA	4.07	NA	5.58	NA	1.96
ORP	NA	NA	178.0	NA	138.5	NA	138.5	-40.3	-66.1	NA	-66.1	NA	152.4	NA	115.8	NA	57.1	NA	73.2	NA	33.9

Notes: Standards obtained from IAC, 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
 N/A - Not Measured

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

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

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Joliet Station #29, Joliet, IL

Sample: MW-03	Date	5/2/2013		7/2/2013		10/15/2013		2/17/2014		5/2/2014		8/18/2014		10/23/2014		2/10/2015		5/27/2015	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0013	0.0010	0.0010	0.0012	0.0010	0.0014	0.0010	0.0015	0.0010	0.0015	0.0010	0.0010	0.0010	0.0010	0.0010	0.0015	0.0010	0.0015
Barium	2.0	0.0025	0.13	0.0025	0.10	0.0025	0.099	0.0025	0.098	0.0025	0.10	0.0025	0.075	0.0025	0.089	0.0025	0.093	0.0025	0.094
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.74 V	0.050	0.67	0.050	0.27	0.050	0.45	0.050	0.27	0.050	0.37	0.050	0.45	0.050	0.52	0.050	0.54
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	50	380	10	210	10	250	10	200	10	300	10	220	10	180	10	160	10	220
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Copper	0.65	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Cyanide	0.2	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND
Fluoride	4.0	0.10	0.44	0.10	0.45	0.10	0.47	0.10	0.51	0.10	0.40	0.10	0.52	0.10	0.49	0.10	0.46	0.10	0.43
Iron	5.0	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Lead	0.0075	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Mercury	0.002	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0042	0.0020	0.0043	0.0020	0.0046	0.0020	0.0033	0.0020	0.0040	0.0020	0.0021	0.0020	0.0023	0.0020	0.0020	0.0020	0.0026
Nitrogen/Nitrate, Nitrite	10.0	0.10	3.6	0.10	3.1	0.10	1.9	0.10	1.5	0.10	2.3	0.10	1.9	0.10	1.8	0.10	2.5	0.10	2.1
Nitrogen/Nitrite	NA	0.50	3.6	0.50	3.1	0.50	1.9	0.50	1.5	0.50	2.3	0.50	1.9	0.50	1.8	0.50	2.5	0.50	2.1
Perrhodate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.05	0.0025	0.022	0.0025	0.012	0.0025	ND	0.0025	0.0051	0.0025	ND	0.0025	0.0029	0.0025	0.0036	0.0025	0.0054	0.0025	0.0063
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	50	250	50	260	50	210	25	89	25	110	40	84	50	130	25	38	25	84
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	1,300	10	1,000	10	910	10	890	10	1,100	10	810	10	760	10	700	10	830
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
BETX	11.705	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
pH	6.5-9.0	NA	7.00	NA	7.26	NA	7.22	NA	8.57	NA	7.09	NA	6.70	NA	7.16	NA	7.55	NA	7.37
Temperature	NA	NA	13.45	NA	17.29	NA	13.91	NA	9.27	NA	11.38	NA	18.40	NA	13.97	NA	9.02	NA	16.14
Conductivity	NA	NA	1.55	NA	1.33	NA	0.99	NA	0.75	NA	1.31	NA	1.22	NA	1.22	NA	0.90	NA	1.23
Dissolved Oxygen	NA	NA	5.31	NA	3.47	NA	2.78	NA	3.32	NA	5.23	NA	6.68	NA	5.41	NA	4.84	NA	5.49
ORP	NA	NA	-20.4	NA	32.2	NA	-79.8	NA	-7.3	NA	141.8	NA	94.8	NA	69.5	NA	71.9	NA	64.1

Notes: Standards obtained from IAC, Table 3.5, Chapter 1, Part 620, Subpart D, Section 6.20.410 - 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
 NSM - Not Measured

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

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

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Joliet Station #29, Joliet, IL

Parameter	Standards	Date		5/22/2013		7/22/2013		10/16/2013		2/21/2014		5/1/2014		8/18/2014		10/23/2014		2/10/2015		5/27/2015	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.0030	0.012	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0010	0.0014	0.0010	0.0013	0.0012	0.0010	0.0013	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0013
Barium	2.0	0.0025	0.084	0.0025	0.078	0.089	0.0025	0.088	0.0025	0.072	0.088	0.0025	0.072	0.0025	0.071	0.0025	0.078	0.0025	0.079	0.0025	0.090
Beryllium	0.004	0.0010	ND	0.0010	ND	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0010	ND
Boron	2.0	0.050	0.40	0.050	0.40	0.45	0.050	0.35	0.050	0.32	0.35	0.050	0.32	0.050	0.35	0.050	0.41	0.050	0.44	0.050	0.36
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	10	270	10	200	10	200	10	210	10	220	10	270	10	210	10	160	10	180	10	290
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	0.0012	0.0010	0.014	0.0010	0.014	0.0010	0.048	0.0022	0.0010	0.0010	0.0010	0.0010	0.0060	0.0010	0.011	0.0010	0.0076	0.0010	0.0062
Copper	0.65	0.0020	ND	0.0020	0.0041	0.0020	0.0041	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Cyanide	0.2	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND
Fluoride	4.0	0.10	0.49	0.10	0.50	0.10	0.53	0.10	0.53	0.10	0.45	0.10	0.44	0.10	0.51	0.10	0.49	0.10	0.44	0.10	0.43
Iron	5.0	0.10	0.17	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	0.18	0.10	0.10	0.10	ND	0.10	0.14	0.10	0.10
Lead	0.0075	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.0025	0.0081	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0044	0.0025	ND
Mercury	0.002	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0034	0.0020	0.0037	0.0020	0.0037	0.0020	0.0033	0.0020	0.0022	0.0020	0.0022	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0023
Nitrogen/Nitrate	10.0	0.10	2.9	0.10	2.4	0.10	2.5	0.10	2.5	0.10	2.0	0.10	2.0	0.10	1.9	0.10	1.6	0.10	2.2	0.10	2.5
Nitrogen/Nitrate, Nitrite	NA	0.20	2.9	0.20	2.4	0.20	2.5	0.20	2.5	0.20	2.0	0.20	2.0	0.20	1.9	0.20	1.6	0.20	2.2	0.20	2.5
Nitrogen/Nitrite	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Perchlorate	0.05	0.0025	0.0025	0.0025	ND	0.0025	0.0037	0.0025	0.0037	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Selenium	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Silver	400.0	25	120	50	170	50	230	25	110	20	110	20	140	25	89	50	160	25	63	20	88
Sulfate	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Thallium	1.200	10	900	10	840	10	860	10	870	10	870	10	860	10	760	10	720	10	730	10	980
Total Dissolved Solids	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
BIETH	11.705	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
pH	6.5-9.0	NA	7.18	NA	7.25	NA	7.24	NA	7.24	NA	9.11	NA	7.15	NA	6.89	NA	7.11	NA	7.53	NA	7.31
Temperature	NA	NA	14.25	NA	14.76	NA	13.91	NA	9.25	NA	10.92	NA	10.92	NA	18.13	NA	14.52	NA	8.49	NA	15.49
Conductivity	NA	NA	1.11	NA	1.07	NA	1.19	NA	0.93	NA	1.13	NA	1.13	NA	1.18	NA	1.18	NA	0.90	NA	1.34
Dissolved Oxygen	NA	NA	6.47	NA	4.40	NA	3.13	NA	5.94	NA	4.23	NA	4.23	NA	5.82	NA	5.54	NA	4.57	NA	6.54
ORP	NA	NA	-6.4	NA	27.6	NA	-80.9	NA	-34.2	NA	10.1	NA	10.1	NA	77.4	NA	57.6	NA	41.7	NA	36.7

Notes: Standards obtained from IAC, Title 215, Chapter I, 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
 * - Derivatives instrument related QC exceeds the control limits

Temperature in °C
 Conductivity in $\mu\text{mhos/cm}^2$
 Dissolved Oxygen in mg/L
 ORP in mV

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Joliet Station #29, Joliet, IL

Parameter	Standards	Date		6/5/2013		7/23/2013		10/15/2013		2/21/2014		5/11/2014		8/19/2014		10/23/2014		2/11/2015		5/27/2015	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0010	ND	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Barium	2.0	0.0025	0.060	0.0025	0.050	0.0025	0.050	0.0025	0.056	0.0025	0.091	0.0025	0.078	0.0025	0.054	0.0025	0.057	0.0025	0.078	0.0025	0.053
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.69	0.050	0.81	0.050	0.55	0.050	0.55	0.050	0.34	0.050	0.36	0.050	0.95	0.050	0.57	0.050	0.69	0.050	1.0
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	0.00060	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	10	180	10	110	10	140	10	140	10	240	10	370	10	120	10	120	10	220	10	250
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	0.1	0.0010	ND	0.0010	ND	0.0010	0.0014	0.0010	0.0014	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0035	0.0010	ND
Copper	0.65	0.0020	ND	0.0020	0.0020	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.0057	0.0020	ND	0.0020	ND	0.0020	0.013	0.0020	0.0026
Cyanide	0.2	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND
Fluoride	4.0	0.10	0.39	0.10	0.38	0.10	0.41	0.10	0.41	0.10	0.34	0.10	0.32	0.10	0.42	0.10	0.44	0.10	0.42	0.10	0.54
Iron	5.0	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Lead	0.0075	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.035	0.0025	0.0062	0.0025	ND	0.0025	0.0076	0.0025	ND
Mercury	0.002	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0029	0.0020	0.0058	0.0020	0.0030	0.0020	0.0030	0.0020	ND	0.0020	0.0033	0.0020	0.0078	0.0020	0.0035	0.0020	0.0092	0.0020	0.0055
Nitrogen/Nitrate	10.0	0.10	1.7	0.10	1.0	0.10	1.0	0.10	1.0	0.10	1.2	0.10	1.6	0.10	0.53	0.10	1.2	0.10	1.7	0.10	1.5
Nitrogen/Nitrate, Nitrite	NA	0.10	1.7	0.10	1.0	0.10	1.0	0.10	1.0	0.10	1.2	0.10	1.7	0.10	0.53	0.10	1.2	0.10	1.7	0.10	1.5
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	0.056	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Perchlorate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.05	0.0025	0.025	0.0025	0.016	0.0025	0.0026	0.0025	0.0026	0.0025	0.0030	0.0025	ND	0.0025	0.017	0.0025	0.0097	0.0025	0.014	0.0025	0.025
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	50	200	50	290	50	180	25	180	25	130	25	160	100	360	50	240	50	230	50	290
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	1,100	10	910	10	680	10	680	10	840	10	1,100	10	1,000	10	730	10	1,000	10	1,000
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
BTEX	11.705	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
pH	6.5 - 9.0	NA	6.92	NA	6.71	NA	7.21	NA	7.21	NA	9.09	NA	7.06	NA	6.40	NA	6.94	NA	7.49	NA	7.25
Temperature	NA	NA	14.95	NA	14.65	NA	14.16	NA	14.16	NA	11.17	NA	11.87	NA	16.11	NA	16.69	NA	8.18	NA	18.15
Conductivity	NA	NA	1.067	NA	1.01	NA	0.93	NA	0.93	NA	0.96	NA	1.46	NA	1.18	NA	1.17	NA	1.15	NA	1.49
Dissolved Oxygen	NA	NA	4.01	NA	3.50	NA	1.17	NA	1.17	NA	4.61	NA	1.10	NA	1.65	NA	4.70	NA	4.99	NA	6.73
ORP	NA	NA	-1.7	NA	82.5	NA	-98.4	NA	-98.4	NA	-54.7	NA	91.1	NA	88.6	NA	62.0	NA	85.8	NA	92.2

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 - Temperature in
 mg/cm³ - Conductivity in
 mg/L - Dissolved Oxygen in
 mV - Oxygen Reduction Potential (ORP) in

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Joliet Station #29, Joliet, IL

Parameter	Standards	5/22/2013		7/23/2013		10/16/2013		2/21/2014		5/2/2014		8/19/2014		10/23/2014		2/10/2015		5/28/2015	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.0030	0.0045	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0010	0.0018	0.0010	0.0017	0.0010	0.0016	0.0010	0.0015	0.0010	0.0019	0.0010	0.0013	0.0010	0.0010	0.0010	0.0016	0.0010	0.0017
Barium	2.0	0.0025	0.0097	0.0025	0.0096	0.0025	0.11	0.0025	0.17	0.0025	0.15	0.0025	0.098	0.0025	0.12	0.0025	0.14	0.0025	0.14
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.23	0.050	0.23	0.050	0.22	0.050	0.26	0.050	0.17	0.050	0.26	0.050	0.19	0.050	0.22	0.050	0.19
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	10	170	10	120	10	120	10	370	50	340	10	120	10	100	10	150	10	270
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0017	0.0010	ND	0.0010	0.0010	0.0010	0.0015
Copper	0.65	0.0020	ND	0.0020	ND	0.0020	0.0025	0.0020	ND	0.0020	ND	0.0020	0.0056	0.0020	0.0021	0.0020	0.0020	0.0020	0.0020
Cyanide	0.2	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.054
Fluoride	4.0	0.10	0.43	0.10	0.37	0.10	0.35	0.10	0.34	0.10	0.33	0.10	0.38	0.10	0.34	0.10	0.36	0.10	0.35
Iron	5.0	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Lead	0.0075	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Mercury	0.002	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	ND	0.0020	0.0021	0.0020	0.0020	0.0020	ND	0.0020	ND	0.0020	0.0021	0.0020	0.0022	0.0020	0.0027	0.0020	0.0034
Nitrogen/Nitrate	10.0	0.10	17	0.10	0.46	0.10	0.49	0.10	17	0.10	1.3	0.10	0.51	0.10	0.64	0.10	1.3	0.10	1.2
Nitrogen/Nitrite	NA	0.10	17	0.10	0.46	0.10	0.49	0.10	17	0.10	1.3	0.10	0.51	0.10	0.64	0.10	1.3	0.10	1.2
Nitrogen/Nitrite	0.049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Perchlorate	0.05	0.0025	0.0032	0.0025	0.0027	0.0025	0.0035	0.0025	0.0034	0.0025	0.0034	0.0025	0.0031	0.0025	0.0039	0.0025	0.0045	0.0025	0.0036
Selenium	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Silver	400.0	25	96	25	110	25	150	25	100	20	120	25	91	25	140	50	140	25	94
Sulfate	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Thallium	1.200	10	690	10	350	10	570	10	930	10	990	10	600	10	530	10	710	10	870
Total Dissolved Solids	0.049	0.0050	0.0056	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	0.0059	0.0050	ND	0.0050	0.0057	0.0050	0.0063	0.0050	0.0060
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
BETX	11.705	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
pH	6.5-9.0	NA	7.35	NA	7.42	NA	7.31	NA	9.52	NA	7.42	NA	7.29	NA	7.29	NA	7.78	NA	7.60
Temperature	NA	NA	14.48	NA	15.22	NA	13.50	NA	7.33	NA	11.12	NA	18.67	NA	13.92	NA	9.51	NA	16.30
Conductivity	NA	NA	0.855	NA	0.76	NA	0.80	NA	0.96	NA	1.37	NA	0.94	NA	0.88	NA	0.86	NA	1.19
Dissolved Oxygen	NA	NA	4.77	NA	2.44	NA	3.73	NA	4.78	NA	6.82	NA	3.99	NA	4.44	NA	7.08	NA	6.80
ORP	NA	NA	18.1	NA	22.7	NA	-86.3	NA	-81.0	NA	137.8	NA	60.1	NA	60.8	NA	88.5	NA	120.7

Notes: Standards obtained from IAC, Title 23, 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
 * - Densest instrument related QC exceeds the control limits

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

degrees Celsius
 millimhos/centimeter
 milligrams/liter
 millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Joliet Station #29, Joliet, IL

Parameter	Standards	Date		5/22/2013		7/23/2013		10/16/2013		2/21/2014		5/2/2014		8/19/2014		10/23/2014		2/10/2015		5/28/2015	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0010	0.0015	0.0011	0.0013	0.0010	0.0013	0.0010	0.0010	0.0010	ND	0.0010	0.0014	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0013
Barium	2.0	0.0025	0.11	0.0025	0.082	0.0025	0.13	0.0025	0.13	0.0025	0.15	0.0025	0.12	0.0025	0.091	0.0025	0.11	0.0025	0.18	0.0025	0.12
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.21	0.050	0.21	0.050	0.24	0.050	0.24	0.050	0.30	0.050	0.15	0.050	0.22	0.050	0.17	0.050	0.21	0.050	0.16
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	0.0041	0.00050	ND
Chloride	200.0	10	170	10	95	10	130	10	130	50	470	10	350	10	110	10	98	10	210	10	260
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0090	0.0010	ND
Copper	0.65	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.0047	0.0020	0.0020	0.0020	0.0096	0.0020	ND
Cyanide	0.2	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND
Fluoride	4.0	0.10	0.38	0.10	0.37	0.10	0.32	0.10	0.31	0.10	0.31	0.10	0.32	0.10	0.35	0.10	0.36	0.10	0.30	0.10	0.32
Iron	5.0	0.10	0.41	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	0.13	0.10	ND	0.10	ND
Lead	0.075	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	0.0072	0.00050	ND
Manganese	0.15	0.0025	0.012	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0033	0.0025	0.0091	0.0025	0.0048	0.0025	0.0026
Mercury	0.002	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0020	0.0020	ND	0.0020	0.0021	0.0020	0.0021	0.0020	ND	0.0020	ND	0.0020	0.0022	0.0020	0.0037	0.0020	0.016	0.0020	0.0034
Nitrogen/Nitrate	10.0	0.10	1.7	0.10	0.34	0.10	0.65	0.10	0.65	0.10	ND	0.10	1.3	0.10	0.46	0.10	0.56	0.10	0.19	0.10	1.1
Nitrogen/Nitrate, Nitrite	NA	0.10	1.7	0.10	0.34	0.10	0.65	0.10	0.65	0.50	ND	0.10	1.3	0.10	0.46	0.10	0.56	0.10	0.33	0.10	1.1
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	0.14	0.020	ND
Perchlorate	0.049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.05	0.0025	0.0026	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0026	0.0026	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	50	150	25	74	50	190	25	170	25	170	20	110	25	82	25	120	50	260	25	80
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	740	10	540	10	650	10	1,200	10	1,200	10	860	10	570	10	520	10	1,000	10	860
Vanadium	0.049	0.0050	0.0053	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	0.0051	0.0050	ND	0.0050	ND	0.0050	0.0052	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	0.036	0.020	ND
Benzene	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
BETX	11.705	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
pH	6.5-9.0	NA	7.34	NA	7.42	NA	7.33	NA	9.34	NA	9.34	NA	7.35	NA	6.99	NA	7.28	NA	7.52	NA	7.52
Temperature	NA	NA	14.15	NA	15.44	NA	13.06	NA	8.38	NA	8.38	NA	11.45	NA	17.46	NA	16.49	NA	10.95	NA	17.16
Conductivity	NA	NA	0.818	NA	0.72	NA	0.89	NA	1.21	NA	1.21	NA	1.30	NA	0.90	NA	0.91	NA	1.18	NA	1.30
Dissolved Oxygen	NA	NA	4.29	NA	3.52	NA	2.52	NA	6.39	NA	6.39	NA	5.51	NA	3.47	NA	3.32	NA	1.15	NA	4.82
ORP	NA	NA	17.0	NA	23.7	NA	-81.7	NA	-99.0	NA	-99.0	NA	141.5	NA	55.0	NA	61.8	NA	78.4	NA	128.5

Notes: Standards obtained from IAC, 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
 NS - Not Sampled
 NR - Not Required
 QC - Denotes instrument related QC exceeds the control limits

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

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Joliet Station #29, Joliet, IL

Parameter	Standards	Date		5/23/2013		7/22/2013		10/15/2013		2/21/2014		5/1/2014		8/18/2014		10/23/2014		2/10/2015		5/27/2015	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0089	0.0010	ND
Barium	2.0	0.0025	0.057	0.0025	0.045	0.0025	0.046	0.0025	0.045	0.0025	0.066	0.0025	0.12	0.0025	0.044	0.0025	0.051	0.0025	0.22	0.0025	0.057
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.16	0.050	0.19	0.050	0.18	0.050	0.19	0.050	0.16	0.050	0.15	0.050	0.19	0.050	0.16	0.050	0.64	0.050	0.11
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	0.0019	0.00050	ND	0.00050	ND	0.00050	0.00053	0.00050	ND
Chloride	200.0	10	300	10	110	10	210	10	110	10	270	50	780	10	170	10	140	50	470	10	270
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.13	0.0010	0.0018
Copper	0.65	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.012	0.0020	ND	0.0020	ND	0.0020	0.0060	0.0020	0.0039
Cyanide	0.2	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	0.012	0.010	ND
Fluoride	4.0	0.10	0.34	0.10	0.36	0.10	0.34	0.10	0.36	0.10	0.29	0.10	0.34	0.10	0.36	0.10	0.36	0.10	0.51	0.10	0.44
Iron	5.0	0.10	0.23	0.10	ND	0.10	ND	0.10	ND	0.10	0.11	0.10	ND	0.10	ND	0.10	ND	0.10	0.10	0.10	ND
Lead	0.0075	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	0.0036	0.00050	ND	0.00050	ND	0.00050	0.0034	0.00050	ND
Manganese	0.15	0.0025	0.0065	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0039	0.0025	ND	0.0025	0.017	0.0025	0.0069	0.0025	1.1	0.0025	0.0044
Mercury	0.002	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0034	0.0020	0.0040	0.0020	0.0040	0.0020	0.0040	0.0020	ND	0.0020	0.0020	0.0020	0.0020	0.0020	0.0036	0.0020	0.19	0.0020	0.0033
Nitrogen/Nitrate	10.0	0.10	2.8	0.10	1.2	0.10	1.2	0.10	1.2	0.10	1.6	0.10	5.9	0.10	0.54	0.10	1.3	0.10	ND	0.10	1.7
Nitrogen/Nitrate, Nitrite	NA	0.20	2.8	0.20	1.2	0.20	1.2	0.20	1.2	0.20	1.6	0.20	6.2	0.20	0.54	0.20	1.3	0.20	ND	0.20	1.7
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.033	0.020	ND	0.020	ND	0.020	ND	0.020	0.020	ND
Perchlorate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.020	ND	0.0040	ND	0.0040	ND	0.040	ND	0.0040	ND
Selenium	0.05	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0034	0.0025	ND
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	25	99	25	72	25	72	25	74	25	54	100	460	10	59	20	73	100	600	5.0	25
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	860	10	740	10	740	10	560	10	740	13	2,100	10	610	10	560	10	2,000	10	760
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.080	0.020	0.020	ND	0.020	ND	0.020	0.026	0.020	ND
Benzene	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	0.002	0.00050	ND
BTEX	11.705	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.002	0.0025	ND
pH	6.5 - 9.0	NA	7.17	NA	7.22	NA	7.28	NA	7.22	NA	9.17	NA	7.17	NA	7.28	NA	7.19	NA	7.58	NA	7.26
Temperature	NA	NA	11.95	NA	13.86	NA	13.86	NA	13.43	NA	10.89	NA	11.71	NA	20.49	NA	15.79	NA	9.48	NA	17.90
Conductivity	NA	NA	1.031	NA	0.97	NA	0.97	NA	0.83	NA	0.91	NA	2.71	NA	1.08	NA	1.01	NA	2.80	NA	1.57
Dissolved Oxygen	NA	NA	5.33	NA	4.75	NA	4.75	NA	3.69	NA	4.94	NA	4.72	NA	5.91	NA	3.52	NA	1.00	NA	3.82
ORP	NA	NA	6.2	NA	30.5	NA	30.5	NA	-49.3	NA	-64.9	NA	85.2	NA	76.5	NA	28.8	NA	-11.1	NA	-9.9

Notes
Standards obtained from IAC, Table 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
NSM - Not Measured

NR - Not Required
NS - Not Sampled
% - Percent
mg/L - milligrams per liter
mg/m³ - milligrams per cubic meter
mg/L in mV - milligrams per liter in millivolts

Temperature in °C
Conductivity in mg/cm³
Dissolved Oxygen in mg/L
Oxygen Reduction Potential (ORP) in mV

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Joliet Station #29, Joliet, IL

Parameter	Standards	Date		5/22/2013		7/23/2013		10/15/2013		2/17/2014		5/1/2014		8/18/2014		10/23/2014		2/11/2015		5/28/2015	
		DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.06	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.10	0.0010	0.0011	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Barium	2.0	0.0025	0.041	0.0025	0.042	0.0025	0.044	0.0025	0.047	0.0025	0.043	0.0025	0.038	0.0025	0.038	0.0025	0.044	0.0025	0.044	0.0025	0.046
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.25	0.050	0.30	0.050	0.42	0.050	0.40	0.050	0.39	0.050	0.48	0.050	0.48	0.050	0.56	0.050	0.52	0.050	0.55
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	10	2.40	10	210	10	220	10	2.40	10	300	10	200	10	200	10	170	10	210	10	320
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Copper	0.65	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Cyanide	0.2	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND
Fluoride	4.0	0.10	0.50	0.10	0.48	0.10	0.50	0.10	0.47	0.10	0.43	0.10	0.49	0.10	0.49	0.10	0.46	0.10	0.41	0.10	0.43
Iron	5.0	0.10	0.32	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Lead	0.075	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.0025	0.010	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0049	0.0025	ND
Mercury	0.002	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	0.0049	0.00020	ND
Nickel	0.1	0.0020	ND	0.0020	0.0027	0.0020	0.0024	0.0020	0.0020	0.0020	0.0023	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0037	0.0020	0.0023
Nitrogen/Nitrate	10.0	0.10	2.8	0.10	3.0	0.10	2.3	0.10	2.2	0.10	2.8	0.10	0.72	0.10	0.72	0.10	1.7	0.10	2.4	0.10	2.9
Nitrogen/Nitrate, Nitrite	NA	0.20	2.8	0.50	3.0	0.50	2.3	0.50	2.2	0.50	2.8	0.50	0.72	0.50	0.72	0.50	1.7	0.50	2.4	0.50	2.9
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Perchlorate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.05	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0025	0.0025	ND	0.0025	ND
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	25	120	50	130	50	140	25	55	20	120	20	73	20	73	50	110	25	93	20	50
Thallium	0.02	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	850	10	910	10	880	10	870	30	890	10	910	10	910	10	740	10	810	10	1100
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
BETX	11.705	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
pH	6.5-9.0	NA	7.11	NA	7.36	NA	7.11	NA	4.39	NA	7.07	NA	6.74	NA	7.12	NA	7.12	NA	7.26	NA	7.27
Temperature	NA	NA	12.70	NA	14.21	NA	13.04	NA	11.47	NA	11.23	NA	16.85	NA	13.74	NA	13.74	NA	6.83	NA	15.02
Conductivity	NA	NA	0.964	NA	1.10	NA	1.09	NA	0.84	NA	1.18	NA	1.14	NA	1.18	NA	1.18	NA	0.92	NA	1.37
Dissolved Oxygen	NA	NA	6.14	NA	4.59	NA	4.27	NA	4.82	NA	6.31	NA	6.99	NA	6.16	NA	6.16	NA	6.50	NA	7.41
ORP	NA	NA	35.6	NA	30.2	NA	-45.9	NA	201.1	NA	109.8	NA	87.8	NA	77.3	NA	77.3	NA	135.3	NA	134.8

Notes: Standards obtained from IAC, Title 35, Chapter 1, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class 1, Possible Release Concentrations. 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
 * - Detection instrument reduced QC exceeds the control limits

Oxygen Reduction Potential (ORP) in mV

Dissolved Oxygen in mg/L

Temperature in °C

Conductivity in mS/cm

degrees Celsius milliequivalents/liter

ATTACHMENT 1
Analytical Data Package(s)

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: 500-96610-1

Client Project/Site: Joliet #29 Station Ash Ponds

For:

KPRG and Associates, Inc.

14665 West Lisbon Road,

Suite 2B

Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:

6/12/2015 12:07:25 PM

Bonnie Stadelmann, Senior Project Manager

(708)534-5200

bonnie.stadelmann@testamericainc.com

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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.

MWG13-15_49796

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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Job ID: 500-96610-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-96610-1

Comments

No additional comments.

Receipt

The samples were received on 5/28/2015 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.2° C, 2.6° C and 3.7° C.

Receipt Exceptions

All Perchlorate samples were received at the Sacramento laboratory outside the required temperature criteria. FedEx was to deliver the cooler on Friday 5/29/15, but it was not delivered until Monday 6/1/15. As a result, all of the ice was melted and the temperature was 21.1 degrees C.

Per client proceed with analysis.

GC/MS VOA

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

Metals

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

Field Service / Mobile Lab

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

General Chemistry

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

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: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-96610-1	MW-02	Water	05/27/15 10:00	05/28/15 14:00
500-96610-2	MW-03	Water	05/27/15 15:10	05/28/15 14:00
500-96610-3	MW-04	Water	05/27/15 14:00	05/28/15 14:00
500-96610-4	MW-05	Water	05/27/15 16:20	05/28/15 14:00
500-96610-5	MW-06	Water	05/28/15 09:10	05/28/15 14:00
500-96610-6	MW-07	Water	05/28/15 10:15	05/28/15 14:00
500-96610-7	MW-08	Water	05/27/15 11:30	05/28/15 14:00
500-96610-8	MW-09	Water	05/27/15 12:45	05/28/15 14:00
500-96610-9	MW-10	Water	05/28/15 12:40	05/28/15 14:00
500-96610-10	MW-11	Water	05/28/15 11:20	05/28/15 14:00
500-96610-11	Duplicate	Water	05/27/15 00:00	05/28/15 14:00
500-96610-12	Trip Blank	Water	05/27/15 00:00	05/28/15 14:00



TestAmerica Chicago

MWG13-15_49800
6/12/2015

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: MW-02

Lab Sample ID: 500-96610-1

Date Collected: 05/27/15 10:00

Matrix: Water

Date Received: 05/28/15 14:00

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			05/29/15 19:41	1
Toluene	<0.00050		0.00050		mg/L			05/29/15 19:41	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/29/15 19:41	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/29/15 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125					05/29/15 19:41	1
Toluene-d8 (Surr)	94		75 - 120					05/29/15 19:41	1
4-Bromofluorobenzene (Surr)	97		75 - 120					05/29/15 19:41	1
Dibromofluoromethane	92		75 - 120					05/29/15 19:41	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 16:45	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		06/01/15 15:18	06/01/15 17:55	1
Arsenic	<0.0010		0.0010		mg/L		06/01/15 15:18	06/04/15 17:41	1
Barium	0.092		0.0025		mg/L		06/01/15 15:18	06/01/15 17:55	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 17:55	1
Boron	0.35		0.050		mg/L		06/01/15 15:18	06/01/15 17:55	1
Cadmium	0.00069		0.00050		mg/L		06/01/15 15:18	06/01/15 17:55	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 17:41	1
Cobalt	0.010		0.0010		mg/L		06/01/15 15:18	06/01/15 17:55	1
Copper	0.0059		0.0020		mg/L		06/01/15 15:18	06/01/15 17:55	1
Iron	<0.10		0.10		mg/L		06/01/15 15:18	06/01/15 17:55	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 17:55	1
Manganese	0.0031		0.0025		mg/L		06/01/15 15:18	06/01/15 17:55	1
Nickel	0.013		0.0020		mg/L		06/01/15 15:18	06/01/15 17:55	1
Selenium	<0.0025		0.0025		mg/L		06/01/15 15:18	06/04/15 17:41	1
Silver	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 17:55	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 17:55	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 17:41	1
Zinc	<0.020		0.020		mg/L		06/01/15 15:18	06/01/15 17:55	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 12:50	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/28/15 19:55	05/28/15 22:09	1
Sulfate	100		25		mg/L			05/30/15 16:08	5
Chloride	410		50		mg/L			05/28/15 21:15	25
Nitrogen, Nitrate	0.43		0.10		mg/L			06/08/15 09:30	1
Total Dissolved Solids	1200		10		mg/L			05/29/15 02:37	1
Fluoride	0.40		0.10		mg/L			06/05/15 11:27	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:15	1
Nitrogen, Nitrate Nitrite	0.43		0.10		mg/L			06/05/15 15:29	1

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: MW-03

Lab Sample ID: 500-96610-2

Date Collected: 05/27/15 15:10

Matrix: Water

Date Received: 05/28/15 14:00

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			05/29/15 20:08	1
Toluene	0.0015		0.00050		mg/L			05/29/15 20:08	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/29/15 20:08	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/29/15 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125					05/29/15 20:08	1
Toluene-d8 (Surr)	93		75 - 120					05/29/15 20:08	1
4-Bromofluorobenzene (Surr)	98		75 - 120					05/29/15 20:08	1
Dibromofluoromethane	91		75 - 120					05/29/15 20:08	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 17:31	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		06/01/15 15:18	06/01/15 18:00	1
Arsenic	0.0015		0.0010		mg/L		06/01/15 15:18	06/04/15 17:43	1
Barium	0.094		0.0025		mg/L		06/01/15 15:18	06/01/15 18:00	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 18:00	1
Boron	0.54		0.050		mg/L		06/01/15 15:18	06/01/15 18:00	1
Cadmium	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:00	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 17:43	1
Cobalt	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 18:00	1
Copper	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 18:00	1
Iron	<0.10		0.10		mg/L		06/01/15 15:18	06/01/15 18:00	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:00	1
Manganese	<0.0025		0.0025		mg/L		06/01/15 15:18	06/01/15 18:00	1
Nickel	0.0026		0.0020		mg/L		06/01/15 15:18	06/01/15 18:00	1
Selenium	0.0063		0.0025		mg/L		06/01/15 15:18	06/04/15 17:43	1
Silver	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:00	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 18:00	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 17:43	1
Zinc	<0.020		0.020		mg/L		06/01/15 15:18	06/01/15 18:00	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 12:52	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/28/15 19:55	05/28/15 22:09	1
Sulfate	84		25		mg/L			05/30/15 16:09	5
Chloride	220		10		mg/L			05/28/15 20:27	5
Nitrogen, Nitrate	2.1		0.10		mg/L			06/08/15 09:30	1
Total Dissolved Solids	830		10		mg/L			05/29/15 02:40	1
Fluoride	0.43		0.10		mg/L			06/05/15 11:29	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:18	1
Nitrogen, Nitrate Nitrite	2.1		0.20		mg/L			06/05/15 16:29	2

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: MW-04

Lab Sample ID: 500-96610-3

Date Collected: 05/27/15 14:00

Matrix: Water

Date Received: 05/28/15 14:00

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			05/29/15 20:35	1
Toluene	<0.00050		0.00050		mg/L			05/29/15 20:35	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/29/15 20:35	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/29/15 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125					05/29/15 20:35	1
Toluene-d8 (Surr)	92		75 - 120					05/29/15 20:35	1
4-Bromofluorobenzene (Surr)	96		75 - 120					05/29/15 20:35	1
Dibromofluoromethane	95		75 - 120					05/29/15 20:35	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	F1	0.0030		mg/L		06/01/15 15:18	06/01/15 18:04	1
Arsenic	0.0013	F1	0.0010		mg/L		06/01/15 15:18	06/04/15 17:46	1
Barium	0.090	F1	0.0025		mg/L		06/01/15 15:18	06/01/15 18:04	1
Beryllium	<0.0010	F1	0.0010		mg/L		06/01/15 15:18	06/01/15 18:04	1
Boron	0.36	F1	0.050		mg/L		06/01/15 15:18	06/01/15 18:04	1
Cadmium	<0.00050	F1	0.00050		mg/L		06/01/15 15:18	06/01/15 18:04	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 17:46	1
Cobalt	0.0062	F1	0.0010		mg/L		06/01/15 15:18	06/01/15 18:04	1
Copper	<0.0020	F1	0.0020		mg/L		06/01/15 15:18	06/01/15 18:04	1
Iron	<0.10	F1	0.10		mg/L		06/01/15 15:18	06/01/15 18:04	1
Lead	<0.00050	F1	0.00050		mg/L		06/01/15 15:18	06/01/15 18:04	1
Manganese	<0.0025	F1	0.0025		mg/L		06/01/15 15:18	06/01/15 18:04	1
Nickel	0.0023	F1	0.0020		mg/L		06/01/15 15:18	06/01/15 18:04	1
Selenium	<0.0025	F1	0.0025		mg/L		06/01/15 15:18	06/04/15 17:46	1
Silver	<0.00050	F1	0.00050		mg/L		06/01/15 15:18	06/01/15 18:04	1
Thallium	<0.0020	F1	0.0020		mg/L		06/01/15 15:18	06/01/15 18:04	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 17:46	1
Zinc	<0.020	F1	0.020		mg/L		06/01/15 15:18	06/01/15 18:04	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 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		05/28/15 19:55	05/28/15 22:10	1
Sulfate	88		20		mg/L			05/30/15 16:10	4
Chloride	290		10		mg/L			05/28/15 20:27	5
Nitrogen, Nitrate	2.5		0.10		mg/L			06/08/15 09:30	1
Total Dissolved Solids	980		10		mg/L			05/29/15 02:42	1
Fluoride	0.43		0.10		mg/L			06/05/15 11:32	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:18	1
Nitrogen, Nitrate Nitrite	2.5		0.20		mg/L			06/05/15 16:30	2

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: MW-05

Lab Sample ID: 500-96610-4

Date Collected: 05/27/15 16:20

Matrix: Water

Date Received: 05/28/15 14:00

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			05/29/15 21:01	1
Toluene	<0.00050		0.00050		mg/L			05/29/15 21:01	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/29/15 21:01	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/29/15 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		75 - 125					05/29/15 21:01	1
Toluene-d8 (Surr)	91		75 - 120					05/29/15 21:01	1
4-Bromofluorobenzene (Surr)	98		75 - 120					05/29/15 21:01	1
Dibromofluoromethane	94		75 - 120					05/29/15 21:01	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 18:02	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		06/01/15 15:18	06/01/15 18:27	1
Arsenic	<0.0010		0.0010		mg/L		06/01/15 15:18	06/04/15 18:07	1
Barium	0.053		0.0025		mg/L		06/01/15 15:18	06/01/15 18:27	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 18:27	1
Boron	1.0		0.050		mg/L		06/01/15 15:18	06/01/15 18:27	1
Cadmium	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:27	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:07	1
Cobalt	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 18:27	1
Copper	0.0026		0.0020		mg/L		06/01/15 15:18	06/01/15 18:27	1
Iron	<0.10		0.10		mg/L		06/01/15 15:18	06/01/15 18:27	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:27	1
Manganese	<0.0025		0.0025		mg/L		06/01/15 15:18	06/01/15 18:27	1
Nickel	0.0055		0.0020		mg/L		06/01/15 15:18	06/01/15 18:27	1
Selenium	0.025		0.0025		mg/L		06/01/15 15:18	06/04/15 18:07	1
Silver	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:27	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 18:27	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:07	1
Zinc	<0.020		0.020		mg/L		06/01/15 15:18	06/01/15 18:27	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 12:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/28/15 19:55	05/28/15 22:11	1
Sulfate	290		50		mg/L			05/30/15 16:11	10
Chloride	250		10		mg/L			05/28/15 20:28	5
Nitrogen, Nitrate	1.5		0.10		mg/L			06/08/15 09:30	1
Total Dissolved Solids	1000		10		mg/L			05/29/15 02:45	1
Fluoride	0.54		0.10		mg/L			06/05/15 11:34	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:19	1
Nitrogen, Nitrate Nitrite	1.5		0.10		mg/L			06/05/15 15:36	1

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: MW-06

Lab Sample ID: 500-96610-5

Date Collected: 05/28/15 09:10

Matrix: Water

Date Received: 05/28/15 14:00

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			05/29/15 21:28	1
Toluene	0.00073		0.00050		mg/L			05/29/15 21:28	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/29/15 21:28	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/29/15 21:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		75 - 125					05/29/15 21:28	1
Toluene-d8 (Surr)	92		75 - 120					05/29/15 21:28	1
4-Bromofluorobenzene (Surr)	95		75 - 120					05/29/15 21:28	1
Dibromofluoromethane	95		75 - 120					05/29/15 21:28	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 18:17	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		06/01/15 15:18	06/01/15 18:32	1
Arsenic	0.0017		0.0010		mg/L		06/01/15 15:18	06/04/15 18:10	1
Barium	0.14		0.0025		mg/L		06/01/15 15:18	06/01/15 18:32	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 18:32	1
Boron	0.19		0.050		mg/L		06/01/15 15:18	06/01/15 18:32	1
Cadmium	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:32	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:10	1
Cobalt	0.0015		0.0010		mg/L		06/01/15 15:18	06/01/15 18:32	1
Copper	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 18:32	1
Iron	<0.10		0.10		mg/L		06/01/15 15:18	06/01/15 18:32	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:32	1
Manganese	<0.0025		0.0025		mg/L		06/01/15 15:18	06/01/15 18:32	1
Nickel	0.0034		0.0020		mg/L		06/01/15 15:18	06/01/15 18:32	1
Selenium	0.0036		0.0025		mg/L		06/01/15 15:18	06/04/15 18:10	1
Silver	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:32	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 18:32	1
Vanadium	0.0060		0.0050		mg/L		06/01/15 15:18	06/04/15 18:10	1
Zinc	<0.020		0.020		mg/L		06/01/15 15:18	06/01/15 18:32	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 12:58	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.054		0.010		mg/L		05/28/15 19:55	05/28/15 22:11	1
Sulfate	94		25		mg/L			06/05/15 11:42	5
Chloride	270		10		mg/L			05/28/15 20:29	5
Nitrogen, Nitrate	1.2		0.10		mg/L			06/08/15 09:30	1
Total Dissolved Solids	870		10		mg/L			05/29/15 02:47	1
Fluoride	0.35		0.10		mg/L			06/01/15 19:31	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:19	1
Nitrogen, Nitrate Nitrite	1.2		0.10		mg/L			06/05/15 15:38	1

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: MW-07

Lab Sample ID: 500-96610-6

Date Collected: 05/28/15 10:15

Matrix: Water

Date Received: 05/28/15 14:00

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			05/29/15 21:55	1
Toluene	<0.00050		0.00050		mg/L			05/29/15 21:55	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/29/15 21:55	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/29/15 21:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125					05/29/15 21:55	1
Toluene-d8 (Surr)	92		75 - 120					05/29/15 21:55	1
4-Bromofluorobenzene (Surr)	99		75 - 120					05/29/15 21:55	1
Dibromofluoromethane	94		75 - 120					05/29/15 21:55	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 18:33	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		06/01/15 15:18	06/01/15 18:37	1
Arsenic	0.0013		0.0010		mg/L		06/01/15 15:18	06/04/15 18:13	1
Barium	0.12		0.0025		mg/L		06/01/15 15:18	06/01/15 18:37	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 18:37	1
Boron	0.16		0.050		mg/L		06/01/15 15:18	06/01/15 18:37	1
Cadmium	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:37	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:13	1
Cobalt	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 18:37	1
Copper	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 18:37	1
Iron	<0.10		0.10		mg/L		06/01/15 15:18	06/01/15 18:37	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:37	1
Manganese	0.0026		0.0025		mg/L		06/01/15 15:18	06/01/15 18:37	1
Nickel	0.0034		0.0020		mg/L		06/01/15 15:18	06/01/15 18:37	1
Selenium	<0.0025		0.0025		mg/L		06/01/15 15:18	06/04/15 18:13	1
Silver	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:37	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 18:37	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:13	1
Zinc	<0.020		0.020		mg/L		06/01/15 15:18	06/01/15 18:37	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 13:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/28/15 19:55	05/28/15 22:12	1
Sulfate	80		25		mg/L			06/05/15 11:43	5
Chloride	260		10		mg/L			05/28/15 20:29	5
Nitrogen, Nitrate	1.1		0.10		mg/L			06/08/15 16:00	1
Total Dissolved Solids	860		10		mg/L			05/29/15 02:50	1
Fluoride	0.32		0.10		mg/L			06/05/15 11:37	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:20	1
Nitrogen, Nitrate Nitrite	1.1		0.10		mg/L			06/08/15 13:44	1

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: MW-08

Lab Sample ID: 500-96610-7

Date Collected: 05/27/15 11:30

Matrix: Water

Date Received: 05/28/15 14:00

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			06/04/15 14:43	1
Toluene	<0.00050		0.00050		mg/L			06/04/15 14:43	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/15 14:43	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/15 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125					06/04/15 14:43	1
Toluene-d8 (Surr)	94		75 - 120					06/04/15 14:43	1
4-Bromofluorobenzene (Surr)	93		75 - 120					06/04/15 14:43	1
Dibromofluoromethane	102		75 - 120					06/04/15 14:43	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/01/15 15:18	06/01/15 18:55	1
Arsenic	<0.0010		0.0010		mg/L		06/01/15 15:18	06/04/15 18:15	1
Barium	0.057		0.0025		mg/L		06/01/15 15:18	06/01/15 18:55	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 18:55	1
Boron	0.11		0.050		mg/L		06/01/15 15:18	06/01/15 18:55	1
Cadmium	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:55	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/05/15 10:51	1
Cobalt	0.0018		0.0010		mg/L		06/01/15 15:18	06/01/15 18:55	1
Copper	0.0039		0.0020		mg/L		06/01/15 15:18	06/01/15 18:55	1
Iron	<0.10		0.10		mg/L		06/01/15 15:18	06/01/15 18:55	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 18:55	1
Manganese	0.0044		0.0025		mg/L		06/01/15 15:18	06/01/15 18:55	1
Nickel	0.0033		0.0020		mg/L		06/01/15 15:18	06/01/15 18:55	1
Selenium	<0.0025		0.0025		mg/L		06/01/15 15:18	06/04/15 18:15	1
Silver	<0.00050	^	0.00050		mg/L		06/01/15 15:18	06/01/15 18:55	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 18:55	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/05/15 10:51	1
Zinc	<0.020		0.020		mg/L		06/01/15 15:18	06/01/15 18:55	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 13:02	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/28/15 19:55	05/28/15 22:12	1
Sulfate	25		5.0		mg/L			06/05/15 12:10	1
Chloride	270		10		mg/L			05/28/15 20:30	5
Nitrogen, Nitrate	1.7		0.10		mg/L			06/08/15 16:00	1
Total Dissolved Solids	760		10		mg/L			05/29/15 02:52	1
Fluoride	0.44		0.10		mg/L			06/01/15 19:34	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:20	1
Nitrogen, Nitrate Nitrite	1.7		0.10		mg/L			06/08/15 13:51	1

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: MW-09

Lab Sample ID: 500-96610-8

Date Collected: 05/27/15 12:45

Matrix: Water

Date Received: 05/28/15 14:00

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			06/04/15 15:10	1
Toluene	<0.00050		0.00050		mg/L			06/04/15 15:10	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/15 15:10	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/15 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 125		06/04/15 15:10	1
Toluene-d8 (Surr)	93		75 - 120		06/04/15 15:10	1
4-Bromofluorobenzene (Surr)	92		75 - 120		06/04/15 15:10	1
Dibromofluoromethane	102		75 - 120		06/04/15 15:10	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 20:37	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		06/01/15 15:18	06/01/15 19:00	1
Arsenic	<0.0010		0.0010		mg/L		06/01/15 15:18	06/04/15 18:18	1
Barium	0.018		0.0025		mg/L		06/01/15 15:18	06/01/15 19:00	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 19:00	1
Boron	0.37		0.050		mg/L		06/01/15 15:18	06/01/15 19:00	1
Cadmium	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:00	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:18	1
Cobalt	0.017		0.0010		mg/L		06/01/15 15:18	06/01/15 19:00	1
Copper	0.0023		0.0020		mg/L		06/01/15 15:18	06/01/15 19:00	1
Iron	140		0.10		mg/L		06/01/15 15:18	06/01/15 19:00	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:00	1
Manganese	0.66		0.0025		mg/L		06/01/15 15:18	06/01/15 19:00	1
Nickel	0.026		0.0020		mg/L		06/01/15 15:18	06/01/15 19:00	1
Selenium	<0.0025		0.0025		mg/L		06/01/15 15:18	06/04/15 18:18	1
Silver	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:00	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 19:00	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:18	1
Zinc	0.028		0.020		mg/L		06/01/15 15:18	06/01/15 19:00	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 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		05/28/15 19:55	05/28/15 22:13	1
Sulfate	1100		500		mg/L			06/05/15 11:46	100
Chloride	340		10		mg/L			05/28/15 20:32	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/08/15 16:00	1
Total Dissolved Solids	3100		17		mg/L			05/29/15 02:55	1
Fluoride	0.44		0.10		mg/L			06/05/15 11:39	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:21	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/08/15 14:22	1

TestAmerica Chicago

MWG13-15_49808

6/12/2015

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: MW-10

Lab Sample ID: 500-96610-9

Date Collected: 05/28/15 12:40

Matrix: Water

Date Received: 05/28/15 14:00

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			06/04/15 15:37	1
Toluene	<0.00050		0.00050		mg/L			06/04/15 15:37	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/15 15:37	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/15 15:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125					06/04/15 15:37	1
Toluene-d8 (Surr)	97		75 - 120					06/04/15 15:37	1
4-Bromofluorobenzene (Surr)	90		75 - 120					06/04/15 15:37	1
Dibromofluoromethane	97		75 - 120					06/04/15 15:37	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 19:35	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		06/01/15 15:18	06/01/15 19:05	1
Arsenic	<0.0010		0.0010		mg/L		06/01/15 15:18	06/04/15 18:21	1
Barium	0.046		0.0025		mg/L		06/01/15 15:18	06/01/15 19:05	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 19:05	1
Boron	0.35		0.050		mg/L		06/01/15 15:18	06/01/15 19:05	1
Cadmium	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:05	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:21	1
Cobalt	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 19:05	1
Copper	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 19:05	1
Iron	<0.10		0.10		mg/L		06/01/15 15:18	06/01/15 19:05	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:05	1
Manganese	<0.0025		0.0025		mg/L		06/01/15 15:18	06/01/15 19:05	1
Nickel	0.0023		0.0020		mg/L		06/01/15 15:18	06/01/15 19:05	1
Selenium	<0.0025		0.0025		mg/L		06/01/15 15:18	06/04/15 18:21	1
Silver	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:05	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 19:05	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:21	1
Zinc	<0.020		0.020		mg/L		06/01/15 15:18	06/01/15 19:05	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 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		05/28/15 19:55	05/28/15 22:13	1
Sulfate	50		20		mg/L			06/05/15 12:04	4
Chloride	320		10		mg/L			05/28/15 20:32	5
Nitrogen, Nitrate	2.9		0.10		mg/L			06/08/15 16:00	1
Total Dissolved Solids	1100		10		mg/L			05/29/15 02:57	1
Fluoride	0.43		0.10		mg/L			06/05/15 11:42	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:22	1
Nitrogen, Nitrate Nitrite	2.9		0.20		mg/L			06/08/15 14:45	2

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: MW-11

Lab Sample ID: 500-96610-10

Date Collected: 05/28/15 11:20

Matrix: Water

Date Received: 05/28/15 14:00

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			06/04/15 16:05	1
Toluene	<0.00050		0.00050		mg/L			06/04/15 16:05	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/15 16:05	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/15 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125		06/04/15 16:05	1
Toluene-d8 (Surr)	96		75 - 120		06/04/15 16:05	1
4-Bromofluorobenzene (Surr)	99		75 - 120		06/04/15 16:05	1
Dibromofluoromethane	99		75 - 120		06/04/15 16:05	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 19:50	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		06/01/15 15:18	06/01/15 19:09	1
Arsenic	0.0015		0.0010		mg/L		06/01/15 15:18	06/04/15 18:28	1
Barium	0.059		0.0025		mg/L		06/01/15 15:18	06/01/15 19:09	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 19:09	1
Boron	1.0		0.050		mg/L		06/01/15 15:18	06/01/15 19:09	1
Cadmium	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:09	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:28	1
Cobalt	0.0016		0.0010		mg/L		06/01/15 15:18	06/01/15 19:09	1
Copper	0.0073		0.0020		mg/L		06/01/15 15:18	06/01/15 19:09	1
Iron	<0.10		0.10		mg/L		06/01/15 15:18	06/01/15 19:09	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:09	1
Manganese	<0.0025		0.0025		mg/L		06/01/15 15:18	06/01/15 19:09	1
Nickel	0.0097		0.0020		mg/L		06/01/15 15:18	06/01/15 19:09	1
Selenium	0.0035		0.0025		mg/L		06/01/15 15:18	06/04/15 18:28	1
Silver	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:09	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 19:09	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:28	1
Zinc	<0.020		0.020		mg/L		06/01/15 15:18	06/01/15 19:09	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 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		05/29/15 12:45	05/29/15 14:57	1
Sulfate	84		25		mg/L			06/05/15 12:05	5
Chloride	290		10		mg/L			05/28/15 20:34	5
Nitrogen, Nitrate	1.1		0.10		mg/L			06/08/15 16:00	1
Total Dissolved Solids	860		10		mg/L			05/29/15 16:23	1
Fluoride	0.35		0.10		mg/L			06/01/15 19:46	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:23	1
Nitrogen, Nitrate Nitrite	1.1		0.10		mg/L			06/08/15 13:55	1

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: Duplicate

Lab Sample ID: 500-96610-11

Date Collected: 05/27/15 00:00

Matrix: Water

Date Received: 05/28/15 14:00

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			06/04/15 16:32	1
Toluene	<0.00050		0.00050		mg/L			06/04/15 16:32	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/15 16:32	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/15 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125					06/04/15 16:32	1
Toluene-d8 (Surr)	93		75 - 120					06/04/15 16:32	1
4-Bromofluorobenzene (Surr)	95		75 - 120					06/04/15 16:32	1
Dibromofluoromethane	98		75 - 120					06/04/15 16:32	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/11/15 20:06	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		06/01/15 15:18	06/01/15 19:14	1
Arsenic	<0.0010		0.0010		mg/L		06/01/15 15:18	06/04/15 18:31	1
Barium	0.059		0.0025		mg/L		06/01/15 15:18	06/01/15 19:14	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 19:14	1
Boron	0.12		0.050		mg/L		06/01/15 15:18	06/01/15 19:14	1
Cadmium	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:14	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:31	1
Cobalt	0.0023		0.0010		mg/L		06/01/15 15:18	06/01/15 19:14	1
Copper	0.0037		0.0020		mg/L		06/01/15 15:18	06/01/15 19:14	1
Iron	<0.10		0.10		mg/L		06/01/15 15:18	06/01/15 19:14	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 19:14	1
Manganese	0.0081		0.0025		mg/L		06/01/15 15:18	06/01/15 19:14	1
Nickel	0.0046		0.0020		mg/L		06/01/15 15:18	06/01/15 19:14	1
Selenium	<0.0025		0.0025		mg/L		06/01/15 15:18	06/04/15 18:31	1
Silver	<0.00050	^	0.00050		mg/L		06/01/15 15:18	06/01/15 19:14	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 19:14	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 18:31	1
Zinc	<0.020		0.020		mg/L		06/01/15 15:18	06/01/15 19:14	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 13:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.016		0.010		mg/L		05/29/15 12:45	05/29/15 14:58	1
Sulfate	57		20		mg/L			06/05/15 12:06	4
Chloride	250		50		mg/L			05/28/15 21:17	25
Nitrogen, Nitrate	1.5		0.10		mg/L			06/08/15 08:50	1
Total Dissolved Solids	840		10		mg/L			05/29/15 16:26	1
Fluoride	0.44		0.10		mg/L			06/01/15 19:49	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:23	1
Nitrogen, Nitrate Nitrite	1.5		0.10		mg/L			06/08/15 13:57	1

TestAmerica Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-96610-12

Date Collected: 05/27/15 00:00

Matrix: Water

Date Received: 05/28/15 14:00

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			06/04/15 12:55	1
Toluene	<0.00050		0.00050		mg/L			06/04/15 12:55	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/15 12:55	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/15 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		75 - 125		06/04/15 12:55	1
Toluene-d8 (Surr)	95		75 - 120		06/04/15 12:55	1
4-Bromofluorobenzene (Surr)	97		75 - 120		06/04/15 12:55	1
Dibromofluoromethane	96		75 - 120		06/04/15 12:55	1

TestAmerica Chicago

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1



Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

GC/MS VOA

Analysis Batch: 289955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Total/NA	Water	8260B	
500-96610-2	MW-03	Total/NA	Water	8260B	
500-96610-3	MW-04	Total/NA	Water	8260B	
500-96610-4	MW-05	Total/NA	Water	8260B	
500-96610-5	MW-06	Total/NA	Water	8260B	
500-96610-6	MW-07	Total/NA	Water	8260B	
500-96610-6 MS	MW-07	Total/NA	Water	8260B	
500-96610-6 MSD	MW-07	Total/NA	Water	8260B	
LCS 500-289955/8	Lab Control Sample	Total/NA	Water	8260B	
MB 500-289955/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 290670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-7	MW-08	Total/NA	Water	8260B	
500-96610-8	MW-09	Total/NA	Water	8260B	
500-96610-9	MW-10	Total/NA	Water	8260B	
500-96610-10	MW-11	Total/NA	Water	8260B	
500-96610-11	Duplicate	Total/NA	Water	8260B	
500-96610-12	Trip Blank	Total/NA	Water	8260B	
LCS 500-290670/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-290670/5	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 76570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Total/NA	Water	314.0	
500-96610-1 MS	MW-02	Total/NA	Water	314.0	
500-96610-1 MSD	MW-02	Total/NA	Water	314.0	
500-96610-2	MW-03	Total/NA	Water	314.0	
500-96610-3	MW-04	Total/NA	Water	314.0	
500-96610-4	MW-05	Total/NA	Water	314.0	
500-96610-5	MW-06	Total/NA	Water	314.0	
500-96610-6	MW-07	Total/NA	Water	314.0	
500-96610-7	MW-08	Total/NA	Water	314.0	
500-96610-8	MW-09	Total/NA	Water	314.0	
500-96610-9	MW-10	Total/NA	Water	314.0	
500-96610-10	MW-11	Total/NA	Water	314.0	
500-96610-11	Duplicate	Total/NA	Water	314.0	
LCS 320-76570/7	Lab Control Sample	Total/NA	Water	314.0	
MB 320-76570/6	Method Blank	Total/NA	Water	314.0	
MRL 320-76570/5	Lab Control Sample	Total/NA	Water	314.0	

Metals

Prep Batch: 289991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	7470A	
500-96610-2	MW-03	Dissolved	Water	7470A	
500-96610-3	MW-04	Dissolved	Water	7470A	

TestAmerica Chicago

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Metals (Continued)

Prep Batch: 289991 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-4	MW-05	Dissolved	Water	7470A	
500-96610-5	MW-06	Dissolved	Water	7470A	
500-96610-6	MW-07	Dissolved	Water	7470A	
500-96610-7	MW-08	Dissolved	Water	7470A	
500-96610-8	MW-09	Dissolved	Water	7470A	
500-96610-9	MW-10	Dissolved	Water	7470A	
500-96610-10	MW-11	Dissolved	Water	7470A	
500-96610-11	Duplicate	Dissolved	Water	7470A	
LCS 500-289991/13-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-289991/12-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 290243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	7470A	289991
500-96610-2	MW-03	Dissolved	Water	7470A	289991
500-96610-3	MW-04	Dissolved	Water	7470A	289991
500-96610-4	MW-05	Dissolved	Water	7470A	289991
500-96610-5	MW-06	Dissolved	Water	7470A	289991
500-96610-6	MW-07	Dissolved	Water	7470A	289991
500-96610-7	MW-08	Dissolved	Water	7470A	289991
500-96610-8	MW-09	Dissolved	Water	7470A	289991
500-96610-9	MW-10	Dissolved	Water	7470A	289991
500-96610-10	MW-11	Dissolved	Water	7470A	289991
500-96610-11	Duplicate	Dissolved	Water	7470A	289991
LCS 500-289991/13-A	Lab Control Sample	Total/NA	Water	7470A	289991
MB 500-289991/12-A	Method Blank	Total/NA	Water	7470A	289991

Prep Batch: 290272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	Soluble Metals	
500-96610-2	MW-03	Dissolved	Water	Soluble Metals	
500-96610-3	MW-04	Dissolved	Water	Soluble Metals	
500-96610-3 DU	MW-04	Dissolved	Water	Soluble Metals	
500-96610-3 MS	MW-04	Dissolved	Water	Soluble Metals	
500-96610-3 MSD	MW-04	Dissolved	Water	Soluble Metals	
500-96610-4	MW-05	Dissolved	Water	Soluble Metals	
500-96610-5	MW-06	Dissolved	Water	Soluble Metals	
500-96610-6	MW-07	Dissolved	Water	Soluble Metals	
500-96610-7	MW-08	Dissolved	Water	Soluble Metals	
500-96610-8	MW-09	Dissolved	Water	Soluble Metals	
500-96610-9	MW-10	Dissolved	Water	Soluble Metals	
500-96610-10	MW-11	Dissolved	Water	Soluble Metals	
500-96610-11	Duplicate	Dissolved	Water	Soluble Metals	
LCS 500-290272/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	
MB 500-290272/1-A	Method Blank	Soluble	Water	Soluble Metals	

Analysis Batch: 290352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	6020A	290272
500-96610-2	MW-03	Dissolved	Water	6020A	290272
500-96610-3	MW-04	Dissolved	Water	6020A	290272

TestAmerica Chicago

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Metals (Continued)

Analysis Batch: 290352 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-3 DU	MW-04	Dissolved	Water	6020A	290272
500-96610-3 MS	MW-04	Dissolved	Water	6020A	290272
500-96610-3 MSD	MW-04	Dissolved	Water	6020A	290272
500-96610-4	MW-05	Dissolved	Water	6020A	290272
500-96610-5	MW-06	Dissolved	Water	6020A	290272
500-96610-6	MW-07	Dissolved	Water	6020A	290272
500-96610-7	MW-08	Dissolved	Water	6020A	290272
500-96610-8	MW-09	Dissolved	Water	6020A	290272
500-96610-9	MW-10	Dissolved	Water	6020A	290272
500-96610-10	MW-11	Dissolved	Water	6020A	290272
500-96610-11	Duplicate	Dissolved	Water	6020A	290272
LCS 500-290272/2-A	Lab Control Sample	Soluble	Water	6020A	290272
MB 500-290272/1-A	Method Blank	Soluble	Water	6020A	290272

Analysis Batch: 290865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	6020A	290272
500-96610-2	MW-03	Dissolved	Water	6020A	290272
500-96610-3	MW-04	Dissolved	Water	6020A	290272
500-96610-3 DU	MW-04	Dissolved	Water	6020A	290272
500-96610-3 MS	MW-04	Dissolved	Water	6020A	290272
500-96610-3 MSD	MW-04	Dissolved	Water	6020A	290272
500-96610-4	MW-05	Dissolved	Water	6020A	290272
500-96610-5	MW-06	Dissolved	Water	6020A	290272
500-96610-6	MW-07	Dissolved	Water	6020A	290272
500-96610-7	MW-08	Dissolved	Water	6020A	290272
500-96610-8	MW-09	Dissolved	Water	6020A	290272
500-96610-9	MW-10	Dissolved	Water	6020A	290272
500-96610-10	MW-11	Dissolved	Water	6020A	290272
500-96610-11	Duplicate	Dissolved	Water	6020A	290272
LCS 500-290272/2-A	Lab Control Sample	Soluble	Water	6020A	290272
MB 500-290272/1-A	Method Blank	Soluble	Water	6020A	290272

Analysis Batch: 290966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-7	MW-08	Dissolved	Water	6020A	290272

General Chemistry

Analysis Batch: 289877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	SM 4500 NO2 B	
500-96610-1 MS	MW-02	Dissolved	Water	SM 4500 NO2 B	
500-96610-1 MSD	MW-02	Dissolved	Water	SM 4500 NO2 B	
500-96610-2	MW-03	Dissolved	Water	SM 4500 NO2 B	
500-96610-3	MW-04	Dissolved	Water	SM 4500 NO2 B	
500-96610-4	MW-05	Dissolved	Water	SM 4500 NO2 B	
500-96610-5	MW-06	Dissolved	Water	SM 4500 NO2 B	
500-96610-6	MW-07	Dissolved	Water	SM 4500 NO2 B	
500-96610-7	MW-08	Dissolved	Water	SM 4500 NO2 B	

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QC Association Summary

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

General Chemistry (Continued)

Analysis Batch: 289877 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-8	MW-09	Dissolved	Water	SM 4500 NO2 B	
500-96610-9	MW-10	Dissolved	Water	SM 4500 NO2 B	
500-96610-10	MW-11	Dissolved	Water	SM 4500 NO2 B	
500-96610-11	Duplicate	Dissolved	Water	SM 4500 NO2 B	
LCS 500-289877/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-289877/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

Prep Batch: 289903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	9010B	
500-96610-2	MW-03	Dissolved	Water	9010B	
500-96610-3	MW-04	Dissolved	Water	9010B	
500-96610-4	MW-05	Dissolved	Water	9010B	
500-96610-5	MW-06	Dissolved	Water	9010B	
500-96610-6	MW-07	Dissolved	Water	9010B	
500-96610-7	MW-08	Dissolved	Water	9010B	
500-96610-8	MW-09	Dissolved	Water	9010B	
500-96610-9	MW-10	Dissolved	Water	9010B	
LCS 500-289903/9-A	Lab Control Sample	Total/NA	Water	9010B	
MB 500-289903/8-A	Method Blank	Total/NA	Water	9010B	

Prep Batch: 289913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-10	MW-11	Dissolved	Water	9010B	
500-96610-10 MS	MW-11	Dissolved	Water	9010B	
500-96610-10 MSD	MW-11	Dissolved	Water	9010B	
500-96610-11	Duplicate	Dissolved	Water	9010B	
LCS 500-289913/14-A	Lab Control Sample	Total/NA	Water	9010B	
MB 500-289913/13-A	Method Blank	Total/NA	Water	9010B	

Analysis Batch: 289923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	9251	
500-96610-1 MS	MW-02	Dissolved	Water	9251	
500-96610-1 MSD	MW-02	Dissolved	Water	9251	
500-96610-2	MW-03	Dissolved	Water	9251	
500-96610-3	MW-04	Dissolved	Water	9251	
500-96610-4	MW-05	Dissolved	Water	9251	
500-96610-5	MW-06	Dissolved	Water	9251	
500-96610-6	MW-07	Dissolved	Water	9251	
500-96610-7	MW-08	Dissolved	Water	9251	
500-96610-8	MW-09	Dissolved	Water	9251	
500-96610-9	MW-10	Dissolved	Water	9251	
500-96610-9 MS	MW-10	Dissolved	Water	9251	
500-96610-9 MSD	MW-10	Dissolved	Water	9251	
500-96610-10	MW-11	Dissolved	Water	9251	
500-96610-11	Duplicate	Dissolved	Water	9251	
LCS 500-289923/13	Lab Control Sample	Total/NA	Water	9251	
MB 500-289923/12	Method Blank	Total/NA	Water	9251	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

General Chemistry (Continued)

Analysis Batch: 289926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	9014	289903
500-96610-2	MW-03	Dissolved	Water	9014	289903
500-96610-3	MW-04	Dissolved	Water	9014	289903
500-96610-4	MW-05	Dissolved	Water	9014	289903
500-96610-5	MW-06	Dissolved	Water	9014	289903
500-96610-6	MW-07	Dissolved	Water	9014	289903
500-96610-7	MW-08	Dissolved	Water	9014	289903
500-96610-8	MW-09	Dissolved	Water	9014	289903
500-96610-9	MW-10	Dissolved	Water	9014	289903
LCS 500-289903/9-A	Lab Control Sample	Total/NA	Water	9014	289903
MB 500-289903/8-A	Method Blank	Total/NA	Water	9014	289903

Analysis Batch: 289942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	SM 2540C	
500-96610-2	MW-03	Dissolved	Water	SM 2540C	
500-96610-3	MW-04	Dissolved	Water	SM 2540C	
500-96610-4	MW-05	Dissolved	Water	SM 2540C	
500-96610-5	MW-06	Dissolved	Water	SM 2540C	
500-96610-6	MW-07	Dissolved	Water	SM 2540C	
500-96610-7	MW-08	Dissolved	Water	SM 2540C	
500-96610-8	MW-09	Dissolved	Water	SM 2540C	
500-96610-9	MW-10	Dissolved	Water	SM 2540C	
LCS 500-289942/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-289942/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 290044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-10	MW-11	Dissolved	Water	SM 2540C	
500-96610-10 MS	MW-11	Dissolved	Water	SM 2540C	
500-96610-11	Duplicate	Dissolved	Water	SM 2540C	
LCS 500-290044/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-290044/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 290045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-10	MW-11	Dissolved	Water	9014	289913
500-96610-10 MS	MW-11	Dissolved	Water	9014	289913
500-96610-10 MSD	MW-11	Dissolved	Water	9014	289913
500-96610-11	Duplicate	Dissolved	Water	9014	289913
LCS 500-289913/14-A	Lab Control Sample	Total/NA	Water	9014	289913
MB 500-289913/13-A	Method Blank	Total/NA	Water	9014	289913

Analysis Batch: 290098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	9038	
500-96610-2	MW-03	Dissolved	Water	9038	
500-96610-3	MW-04	Dissolved	Water	9038	
500-96610-4	MW-05	Dissolved	Water	9038	
LCS 500-290098/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-290098/3	Method Blank	Total/NA	Water	9038	

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QC Association Summary

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Analysis Batch: 290210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	Nitrate by calc	
500-96610-2	MW-03	Dissolved	Water	Nitrate by calc	
500-96610-3	MW-04	Dissolved	Water	Nitrate by calc	
500-96610-4	MW-05	Dissolved	Water	Nitrate by calc	
500-96610-5	MW-06	Dissolved	Water	Nitrate by calc	
500-96610-6	MW-07	Dissolved	Water	Nitrate by calc	
500-96610-7	MW-08	Dissolved	Water	Nitrate by calc	
500-96610-8	MW-09	Dissolved	Water	Nitrate by calc	
500-96610-9	MW-10	Dissolved	Water	Nitrate by calc	
500-96610-10	MW-11	Dissolved	Water	Nitrate by calc	
500-96610-11	Duplicate	Dissolved	Water	Nitrate by calc	

Analysis Batch: 290349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-5	MW-06	Dissolved	Water	SM 4500 F C	
500-96610-7	MW-08	Dissolved	Water	SM 4500 F C	
500-96610-10	MW-11	Dissolved	Water	SM 4500 F C	
500-96610-11	Duplicate	Dissolved	Water	SM 4500 F C	
500-96610-11 MS	Duplicate	Dissolved	Water	SM 4500 F C	
500-96610-11 MSD	Duplicate	Dissolved	Water	SM 4500 F C	
LCS 500-290349/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-290349/3	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 290974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-5	MW-06	Dissolved	Water	9038	
500-96610-6	MW-07	Dissolved	Water	9038	
500-96610-7	MW-08	Dissolved	Water	9038	
500-96610-8	MW-09	Dissolved	Water	9038	
500-96610-9	MW-10	Dissolved	Water	9038	
500-96610-10	MW-11	Dissolved	Water	9038	
500-96610-11	Duplicate	Dissolved	Water	9038	
LCS 500-290974/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-290974/3	Method Blank	Total/NA	Water	9038	

Analysis Batch: 290980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	SM 4500 F C	
500-96610-2	MW-03	Dissolved	Water	SM 4500 F C	
500-96610-3	MW-04	Dissolved	Water	SM 4500 F C	
500-96610-4	MW-05	Dissolved	Water	SM 4500 F C	
500-96610-6	MW-07	Dissolved	Water	SM 4500 F C	
500-96610-8	MW-09	Dissolved	Water	SM 4500 F C	
500-96610-9	MW-10	Dissolved	Water	SM 4500 F C	
LCS 500-290980/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-290980/3	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 291100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-1	MW-02	Dissolved	Water	SM 4500 NO3 F	
500-96610-2	MW-03	Dissolved	Water	SM 4500 NO3 F	
500-96610-3	MW-04	Dissolved	Water	SM 4500 NO3 F	
500-96610-4	MW-05	Dissolved	Water	SM 4500 NO3 F	

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QC Association Summary

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

General Chemistry (Continued)

Analysis Batch: 291100 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-5	MW-06	Dissolved	Water	SM 4500 NO3 F	
LCS 500-291100/26	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-291100/25	Method Blank	Total/NA	Water	SM 4500 NO3 F	

Analysis Batch: 291183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-96610-6	MW-07	Dissolved	Water	SM 4500 NO3 F	
500-96610-6 MS	MW-07	Dissolved	Water	SM 4500 NO3 F	
500-96610-6 MSD	MW-07	Dissolved	Water	SM 4500 NO3 F	
500-96610-7	MW-08	Dissolved	Water	SM 4500 NO3 F	
500-96610-8	MW-09	Dissolved	Water	SM 4500 NO3 F	
500-96610-9	MW-10	Dissolved	Water	SM 4500 NO3 F	
500-96610-10	MW-11	Dissolved	Water	SM 4500 NO3 F	
500-96610-11	Duplicate	Dissolved	Water	SM 4500 NO3 F	
LCS 500-291183/12	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-291183/11	Method Blank	Total/NA	Water	SM 4500 NO3 F	



Surrogate Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

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)
500-96610-1	MW-02	114	94	97	92
500-96610-2	MW-03	113	93	98	91
500-96610-3	MW-04	112	92	96	95
500-96610-4	MW-05	116	91	98	94
500-96610-5	MW-06	119	92	95	95
500-96610-6	MW-07	113	92	99	94
500-96610-6 MS	MW-07	117	93	99	97
500-96610-6 MSD	MW-07	116	93	96	100
500-96610-7	MW-08	114	94	93	102
500-96610-8	MW-09	111	93	92	102
500-96610-9	MW-10	114	97	90	97
500-96610-10	MW-11	114	96	99	99
500-96610-11	Duplicate	114	93	95	98
500-96610-12	Trip Blank	117	95	97	96
LCS 500-289955/8	Lab Control Sample	111	96	97	95
LCS 500-290670/4	Lab Control Sample	109	96	95	100
MB 500-289955/7	Method Blank	115	92	98	95
MB 500-290670/5	Method Blank	114	99	93	98

Surrogate Legend

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

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

Lab Sample ID: MB 500-289955/7
Matrix: Water
Analysis Batch: 289955

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			05/29/15 12:57	1
Toluene	<0.00050		0.00050		mg/L			05/29/15 12:57	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/29/15 12:57	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/29/15 12:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 125		05/29/15 12:57	1
Toluene-d8 (Surr)	92		75 - 120		05/29/15 12:57	1
4-Bromofluorobenzene (Surr)	98		75 - 120		05/29/15 12:57	1
Dibromofluoromethane	95		75 - 120		05/29/15 12:57	1

Lab Sample ID: LCS 500-289955/8
Matrix: Water
Analysis Batch: 289955

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	0.0526		mg/L		105	75 - 120
Toluene	0.0500	0.0537		mg/L		107	75 - 120
Ethylbenzene	0.0500	0.0566		mg/L		113	75 - 120
Xylenes, Total	0.100	0.110		mg/L		110	75 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		75 - 125
Toluene-d8 (Surr)	96		75 - 120
4-Bromofluorobenzene (Surr)	97		75 - 120
Dibromofluoromethane	95		75 - 120

Lab Sample ID: 500-96610-6 MS
Matrix: Water
Analysis Batch: 289955

Client Sample ID: MW-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00050		0.0500	0.0499		mg/L		100	75 - 120
Toluene	<0.00050		0.0500	0.0486		mg/L		97	75 - 120
Ethylbenzene	<0.00050		0.0500	0.0512		mg/L		102	75 - 120
Xylenes, Total	<0.0010		0.100	0.101		mg/L		101	75 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	117		75 - 125
Toluene-d8 (Surr)	93		75 - 120
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane	97		75 - 120

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

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

Lab Sample ID: 500-96610-6 MSD
Matrix: Water
Analysis Batch: 289955

Client Sample ID: MW-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00050		0.0500	0.0529		mg/L		106	75 - 120	6	20
Toluene	<0.00050		0.0500	0.0515		mg/L		103	75 - 120	6	20
Ethylbenzene	<0.00050		0.0500	0.0536		mg/L		107	75 - 120	5	20
Xylenes, Total	<0.0010		0.100	0.107		mg/L		107	75 - 120	6	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	116		75 - 125
Toluene-d8 (Surr)	93		75 - 120
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane	100		75 - 120

Lab Sample ID: MB 500-290670/5
Matrix: Water
Analysis Batch: 290670

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			06/04/15 12:27	1
Toluene	<0.00050		0.00050		mg/L			06/04/15 12:27	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/04/15 12:27	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/04/15 12:27	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125		06/04/15 12:27	1
Toluene-d8 (Surr)	99		75 - 120		06/04/15 12:27	1
4-Bromofluorobenzene (Surr)	93		75 - 120		06/04/15 12:27	1
Dibromofluoromethane	98		75 - 120		06/04/15 12:27	1

Lab Sample ID: LCS 500-290670/4
Matrix: Water
Analysis Batch: 290670

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	0.0496		mg/L		99	75 - 120
Toluene	0.0500	0.0522		mg/L		104	75 - 120
Ethylbenzene	0.0500	0.0513		mg/L		103	75 - 120
Xylenes, Total	0.100	0.111		mg/L		111	75 - 120

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1,2-Dichloroethane-d4 (Surr)	109		75 - 125
Toluene-d8 (Surr)	96		75 - 120
4-Bromofluorobenzene (Surr)	95		75 - 120
Dibromofluoromethane	100		75 - 120

TestAmerica Chicago

MWG13-15_49823
6/12/2015

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-76570/6
Matrix: Water
Analysis Batch: 76570

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			06/11/15 16:14	1

Lab Sample ID: LCS 320-76570/7
Matrix: Water
Analysis Batch: 76570

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	0.0478		mg/L		96	85 - 115

Lab Sample ID: MRL 320-76570/5
Matrix: Water
Analysis Batch: 76570

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	<4.0		ug/L		93	75 - 125

Lab Sample ID: 500-96610-1 MS
Matrix: Water
Analysis Batch: 76570

Client Sample ID: MW-02
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	0.0449		mg/L		90	80 - 120

Lab Sample ID: 500-96610-1 MSD
Matrix: Water
Analysis Batch: 76570

Client Sample ID: MW-02
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	0.0445		mg/L		89	80 - 120	1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 500-96610-3 MS
Matrix: Water
Analysis Batch: 290352

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 290272

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030	F1	0.500	0.732	F1	mg/L		146	75 - 125
Barium	0.090	F1	0.500	0.765	F1	mg/L		135	75 - 125
Beryllium	<0.0010	F1	0.0500	0.0702	F1	mg/L		140	75 - 125
Boron	0.36	F1	1.00	1.76	F1	mg/L		140	75 - 125
Cadmium	<0.00050	F1	0.0500	0.0722	F1	mg/L		144	75 - 125
Cobalt	0.0062	F1	0.500	0.679	F1	mg/L		135	75 - 125
Copper	<0.0020	F1	0.250	0.335	F1	mg/L		134	75 - 125
Iron	<0.10	F1	1.00	1.49	F1	mg/L		149	75 - 125
Lead	<0.00050	F1	0.100	0.131	F1	mg/L		131	75 - 125
Manganese	<0.0025	F1	0.500	0.697	F1	mg/L		139	75 - 125
Nickel	0.0023	F1	0.500	0.690	F1	mg/L		137	75 - 125
Silver	<0.00050	F1	0.0500	0.0704	F1	mg/L		141	75 - 125

TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

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

Lab Sample ID: 500-96610-3 MS
Matrix: Water
Analysis Batch: 290352

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 290272
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Thallium	<0.0020	F1	0.100	0.134	F1	mg/L		134	75 - 125
Zinc	<0.020	F1	0.500	0.664	F1	mg/L		133	75 - 125

Lab Sample ID: 500-96610-3 MS
Matrix: Water
Analysis Batch: 290865

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 290272
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0013	F1	0.100	0.124		mg/L		123	75 - 125
Chromium	<0.0050		0.200	0.189		mg/L		95	75 - 125
Selenium	<0.0025	F1	0.100	0.136	F1	mg/L		134	75 - 125
Vanadium	<0.0050		0.500	0.506		mg/L		101	75 - 125

Lab Sample ID: 500-96610-3 MSD
Matrix: Water
Analysis Batch: 290352

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 290272
%Rec. RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030	F1	0.500	0.651	F1	mg/L		130	75 - 125	12	20
Barium	0.090	F1	0.500	0.701		mg/L		122	75 - 125	9	20
Beryllium	<0.0010	F1	0.0500	0.0643	F1	mg/L		129	75 - 125	9	20
Boron	0.36	F1	1.00	1.63	F1	mg/L		127	75 - 125	8	20
Cadmium	<0.00050	F1	0.0500	0.0642	F1	mg/L		128	75 - 125	12	20
Cobalt	0.0062	F1	0.500	0.600		mg/L		119	75 - 125	12	20
Copper	<0.0020	F1	0.250	0.304		mg/L		122	75 - 125	10	20
Iron	<0.10	F1	1.00	1.35	F1	mg/L		135	75 - 125	10	20
Lead	<0.00050	F1	0.100	0.117		mg/L		117	75 - 125	11	20
Manganese	<0.0025	F1	0.500	0.624		mg/L		125	75 - 125	11	20
Nickel	0.0023	F1	0.500	0.613		mg/L		122	75 - 125	12	20
Silver	<0.00050	F1	0.0500	0.0624		mg/L		125	75 - 125	12	20
Thallium	<0.0020	F1	0.100	0.119		mg/L		119	75 - 125	12	20
Zinc	<0.020	F1	0.500	0.598		mg/L		120	75 - 125	10	20

Lab Sample ID: 500-96610-3 MSD
Matrix: Water
Analysis Batch: 290865

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 290272
%Rec. RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.0013	F1	0.100	0.129	F1	mg/L		128	75 - 125	4	20
Chromium	<0.0050		0.200	0.186		mg/L		93	75 - 125	2	20
Selenium	<0.0025	F1	0.100	0.143	F1	mg/L		141	75 - 125	5	20
Vanadium	<0.0050		0.500	0.498		mg/L		99	75 - 125	2	20

Lab Sample ID: 500-96610-3 DU
Matrix: Water
Analysis Batch: 290352

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 290272
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0030	F1	<0.0030		mg/L		NC	20

TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

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

Lab Sample ID: 500-96610-3 DU
Matrix: Water
Analysis Batch: 290352

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 290272

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Barium	0.090	F1	0.0891		mg/L		0.6	20
Beryllium	<0.0010	F1	<0.0010		mg/L		NC	20
Boron	0.36	F1	0.360		mg/L		0.1	20
Cadmium	<0.00050	F1	<0.00050		mg/L		NC	20
Cobalt	0.0062	F1	0.00624		mg/L		0.6	20
Copper	<0.0020	F1	<0.0020		mg/L		NC	20
Iron	<0.10	F1	<0.10		mg/L		NC	20
Lead	<0.00050	F1	<0.00050		mg/L		NC	20
Manganese	<0.0025	F1	<0.0025		mg/L		NC	20
Nickel	0.0023	F1	0.00225		mg/L		4	20
Silver	<0.00050	F1	<0.00050		mg/L		NC	20
Thallium	<0.0020	F1	<0.0020		mg/L		NC	20
Zinc	<0.020	F1	<0.020		mg/L		NC	20

Lab Sample ID: 500-96610-3 DU
Matrix: Water
Analysis Batch: 290865

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 290272

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.0013	F1	0.00125		mg/L		2	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Selenium	<0.0025	F1	<0.0025		mg/L		NC	20
Vanadium	<0.0050		<0.0050		mg/L		NC	20

Lab Sample ID: MB 500-290272/1-A
Matrix: Water
Analysis Batch: 290352

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 290272

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/01/15 15:18	06/01/15 17:36	1
Barium	<0.0025		0.0025		mg/L		06/01/15 15:18	06/01/15 17:36	1
Beryllium	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 17:36	1
Boron	<0.050		0.050		mg/L		06/01/15 15:18	06/01/15 17:36	1
Cadmium	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 17:36	1
Cobalt	<0.0010		0.0010		mg/L		06/01/15 15:18	06/01/15 17:36	1
Copper	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 17:36	1
Iron	<0.10		0.10		mg/L		06/01/15 15:18	06/01/15 17:36	1
Lead	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 17:36	1
Manganese	<0.0025		0.0025		mg/L		06/01/15 15:18	06/01/15 17:36	1
Nickel	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 17:36	1
Silver	<0.00050		0.00050		mg/L		06/01/15 15:18	06/01/15 17:36	1
Thallium	<0.0020		0.0020		mg/L		06/01/15 15:18	06/01/15 17:36	1
Zinc	<0.020		0.020		mg/L		06/01/15 15:18	06/01/15 17:36	1

TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

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

Lab Sample ID: MB 500-290272/1-A
Matrix: Water
Analysis Batch: 290865

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 290272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		06/01/15 15:18	06/04/15 17:35	1
Chromium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 17:35	1
Selenium	<0.0025		0.0025		mg/L		06/01/15 15:18	06/04/15 17:35	1
Vanadium	<0.0050		0.0050		mg/L		06/01/15 15:18	06/04/15 17:35	1

Lab Sample ID: LCS 500-290272/2-A
Matrix: Water
Analysis Batch: 290352

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 290272
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.514		mg/L		103	80 - 120
Barium	0.500	0.491		mg/L		98	80 - 120
Beryllium	0.0500	0.0501		mg/L		100	80 - 120
Boron	1.00	1.02		mg/L		102	80 - 120
Cadmium	0.0500	0.0509		mg/L		102	80 - 120
Cobalt	0.500	0.487		mg/L		97	80 - 120
Copper	0.250	0.240		mg/L		96	80 - 120
Iron	1.00	1.11		mg/L		111	80 - 120
Lead	0.100	0.0925		mg/L		93	80 - 120
Manganese	0.500	0.503		mg/L		101	80 - 120
Nickel	0.500	0.511		mg/L		102	80 - 120
Silver	0.0500	0.0511		mg/L		102	80 - 120
Thallium	0.100	0.0926		mg/L		93	80 - 120
Zinc	0.500	0.476		mg/L		95	80 - 120

Lab Sample ID: LCS 500-290272/2-A
Matrix: Water
Analysis Batch: 290865

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 290272
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0960		mg/L		96	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Selenium	0.100	0.0982		mg/L		98	80 - 120
Vanadium	0.500	0.506		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-289991/12-A
Matrix: Water
Analysis Batch: 290243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 289991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/29/15 11:00	06/01/15 12:22	1

TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

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

Lab Sample ID: LCS 500-289991/13-A				Client Sample ID: Lab Control Sample				
Matrix: Water				Prep Type: Total/NA				
Analysis Batch: 290243				Prep Batch: 289991				
		Spike	LCS	LCS				
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits
Mercury		0.00200	0.00217		mg/L		108	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-289903/8-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 289926				Prep Batch: 289903					
		MB	MB						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/28/15 19:55	05/28/15 22:03	1

Lab Sample ID: LCS 500-289903/9-A				Client Sample ID: Lab Control Sample					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 289926				Prep Batch: 289903					
		Spike	LCS	LCS					
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total		0.100	0.101		mg/L		101	80 - 120	

Lab Sample ID: MB 500-289913/13-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 290045				Prep Batch: 289913					
		MB	MB						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/29/15 12:45	05/29/15 14:56	1

Lab Sample ID: LCS 500-289913/14-A				Client Sample ID: Lab Control Sample					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 290045				Prep Batch: 289913					
		Spike	LCS	LCS					
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total		0.100	0.106		mg/L		106	80 - 120	

Lab Sample ID: 500-96610-10 MS				Client Sample ID: MW-11					
Matrix: Water				Prep Type: Dissolved					
Analysis Batch: 290045				Prep Batch: 289913					
		Sample	Sample	Spike	MS	MS			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.010		0.0400	0.0408		mg/L		102	75 - 125

Lab Sample ID: 500-96610-10 MSD				Client Sample ID: MW-11					
Matrix: Water				Prep Type: Dissolved					
Analysis Batch: 290045				Prep Batch: 289913					
		Sample	Sample	Spike	MSD	MSD			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.010		0.0400	0.0412		mg/L		103	75 - 125

TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-290098/3
Matrix: Water
Analysis Batch: 290098

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/30/15 15:50	1

Lab Sample ID: LCS 500-290098/4
Matrix: Water
Analysis Batch: 290098

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	19.2		mg/L		96	80 - 120

Lab Sample ID: MB 500-290974/3
Matrix: Water
Analysis Batch: 290974

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			06/05/15 11:17	1

Lab Sample ID: LCS 500-290974/4
Matrix: Water
Analysis Batch: 290974

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	18.5		mg/L		93	80 - 120

Method: 9251 - Chloride

Lab Sample ID: MB 500-289923/12
Matrix: Water
Analysis Batch: 289923

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/28/15 19:33	1

Lab Sample ID: LCS 500-289923/13
Matrix: Water
Analysis Batch: 289923

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	49.4		mg/L		99	80 - 120

Lab Sample ID: 500-96610-1 MS
Matrix: Water
Analysis Batch: 289923

Client Sample ID: MW-02
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	410		50.0	435	4	mg/L		56	75 - 125

TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Method: 9251 - Chloride (Continued)

Lab Sample ID: 500-96610-1 MSD
Matrix: Water
Analysis Batch: 289923

Client Sample ID: MW-02
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	410		50.0	428	4	mg/L		43	75 - 125	2	20

Lab Sample ID: 500-96610-9 MS
Matrix: Water
Analysis Batch: 289923

Client Sample ID: MW-10
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	320		50.0	350	4	mg/L		54	75 - 125

Lab Sample ID: 500-96610-9 MSD
Matrix: Water
Analysis Batch: 289923

Client Sample ID: MW-10
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	320		50.0	353	4	mg/L		60	75 - 125	1	20

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

Lab Sample ID: MB 500-289942/1
Matrix: Water
Analysis Batch: 289942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/29/15 02:00	1

Lab Sample ID: LCS 500-289942/2
Matrix: Water
Analysis Batch: 289942

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	266		mg/L		106	80 - 120

Lab Sample ID: MB 500-290044/1
Matrix: Water
Analysis Batch: 290044

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/29/15 16:15	1

Lab Sample ID: LCS 500-290044/2
Matrix: Water
Analysis Batch: 290044

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	294		mg/L		118	80 - 120

TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

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

Lab Sample ID: 500-96610-10 MS
Matrix: Water
Analysis Batch: 290044

Client Sample ID: MW-11
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	860		250	1130		mg/L		110	75 - 125

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-290349/3
Matrix: Water
Analysis Batch: 290349

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/01/15 18:34	1

Lab Sample ID: LCS 500-290349/4
Matrix: Water
Analysis Batch: 290349

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: MB 500-290980/3
Matrix: Water
Analysis Batch: 290980

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/05/15 10:51	1

Lab Sample ID: LCS 500-290980/4
Matrix: Water
Analysis Batch: 290980

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.6		mg/L		106	80 - 120

Lab Sample ID: 500-96610-11 MS
Matrix: Water
Analysis Batch: 290349

Client Sample ID: Duplicate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.44		5.00	5.80		mg/L		107	75 - 125

Lab Sample ID: 500-96610-11 MSD
Matrix: Water
Analysis Batch: 290349

Client Sample ID: Duplicate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.44		5.00	5.80		mg/L		107	75 - 125	0	20

TestAmerica Chicago

MWG13-15_49831
6/12/2015

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-289877/3				Client Sample ID: Method Blank						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 289877										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/28/15 16:11	1	

Lab Sample ID: LCS 500-289877/4				Client Sample ID: Lab Control Sample						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 289877										
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits			
Nitrogen, Nitrite	0.100	0.101		mg/L		101	80 - 120			

Lab Sample ID: 500-96610-1 MS				Client Sample ID: MW-02						
Matrix: Water				Prep Type: Dissolved						
Analysis Batch: 289877										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Nitrogen, Nitrite	<0.020		0.100	0.0924		mg/L		88	75 - 125	

Lab Sample ID: 500-96610-1 MSD				Client Sample ID: MW-02								
Matrix: Water				Prep Type: Dissolved								
Analysis Batch: 289877												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	Limit
Nitrogen, Nitrite	<0.020		0.100	0.0952		mg/L		91	75 - 125		3	20

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-291100/25				Client Sample ID: Method Blank						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 291100										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/05/15 15:19	1	

Lab Sample ID: LCS 500-291100/26				Client Sample ID: Lab Control Sample						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 291100										
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits			
Nitrogen, Nitrate Nitrite	1.02	1.07		mg/L		105	80 - 120			

Lab Sample ID: MB 500-291183/11				Client Sample ID: Method Blank						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 291183										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/08/15 13:40	1	

TestAmerica Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

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

Lab Sample ID: LCS 500-291183/12
Matrix: Water
Analysis Batch: 291183

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	1.02	0.903		mg/L		89	80 - 120

Lab Sample ID: 500-96610-6 MS
Matrix: Water
Analysis Batch: 291183

Client Sample ID: MW-07
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.1		1.02	2.18		mg/L		109	75 - 125

Lab Sample ID: 500-96610-6 MSD
Matrix: Water
Analysis Batch: 291183

Client Sample ID: MW-07
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	1.1		1.02	2.81	F1 F2	mg/L		171	75 - 125	25	20

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-96610-1

Login Number: 96610

List Number: 1

Creator: Kelsey, Shawn M

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	(2.6)(2.4)(3.7)c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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.	True	



Login Sample Receipt Checklist

- 1
- 2
- 3
- 4
- 5

Client: KPRG and Associates, Inc.

Job Number: 500-96610-1

Login Number: 96610
List Number: 2
Creator: Edwards, Stephanie N

List Source: TestAmerica Sacramento
List Creation: 06/01/15 10:12 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
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?	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Certification Summary

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #29 Station Ash Ponds

TestAmerica Job ID: 500-96610-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

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	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-15
Arizona	State Program	9	AZ0708	08-11-15
Arkansas DEQ	State Program	6	88-0691	06-17-15
California	State Program	9	2897	01-31-16
Colorado	State Program	8	N/A	08-31-15
Connecticut	State Program	1	PH-0691	06-30-15 *
Florida	NELAP	4	E87570	06-30-15 *
Hawaii	State Program	9	N/A	01-29-16
Illinois	NELAP	5	200060	03-17-16
Kansas	NELAP	7	E-10375	10-31-15
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-16
Nevada	State Program	9	CA44	07-31-15
New Jersey	NELAP	2	CA005	06-30-15 *
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-16
Oregon	NELAP Secondary AB	10	E87570	06-30-15
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-08-TX	05-31-16
US Fish & Wildlife	Federal		LE148388-0	02-28-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-16
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-15
Wyoming	State Program	8	8TMS-Q	01-29-16

* Certification renewal pending - certification considered valid.