QUARTERLY GROUNDWATER MONITORING REPORT
JOLIET #29 GENERATING STATION

July 22, 2013

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

VIA FEDERAL EXPRESS

KPRG Project No. 12313.0

Re: Quarterly Groundwater Monitoring Results – Second Quarter 2013
Joliet #29 Generating Station – Ash Impoundments
Compliance Commitment Agreement VN W-2012-00059; ID# 6284

Dear Ms. Rhodes:

The second quarterly groundwater sampling for 2013 has been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) 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 by KPRG and Associates, Inc. (KPRG), on behalf of Midwest Generation, summarizing the results of the monitoring event.

Well Inspection and Sampling Procedures

The groundwater monitoring network around the ash ponds at this facility consists of 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). All wells were in good condition with locked protector casings and the concrete surface seals were intact.

Prior to initiating sampling, KPRG installed dedicated QED bladder pump sampling systems into monitoring wells MW-3 through MW-11. Groundwater samples at well locations MW-3 through MW-11 were collected using the low-flow sampling technique.

Based on an evaluation of historical water levels at monitoring well locations MW-1 and MW-2, it was 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 locations, dedicated PVC bailers were used to collect groundwater samples and the bailers were left suspended within each well casing for subsequent use.

Groundwater samples at well locations MW-1 and MW-2 were collected with dedicated bailers. Because the volume of water and recharge within monitoring well MW-1 were minimal, no field parameters were collected or recorded in order to preserve sufficient sample volume for chemical analysis. At well MW-2, the recharge was sufficient to allow for the collection of field parameter readings prior to sampling.

One duplicate sample was collected at well MW-11. 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 (VOCs) listed in IAC 620.410(d).

Groundwater Flow Evaluation

Water level data from the most recent round of sampling along with historical water levels obtained from each well are summarized in Table 1. The water levels were used to generate a groundwater flow map which is provided on Figure 2. The water level from monitoring well MW-4 was anomalously low. At the time of sampling, construction activities associated with pond lining were occurring in the vicinity of this well. Localized dewatering associated with the construction work in the area may account for the low water level. This water level was not used in generating the groundwater flow map. The water elevation data indicates a general southerly flow. The flow conditions observed during this sampling are consistent with historical conditions reported for the site.

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. All wells for which the sampling data reports a value above one or more groundwater standards are located within the area of the proposed Groundwater Management Zone (GMZ). Midwest Generation's proposed GMZ application was submitted to IEPA on January 18, 2013 and is awaiting the Agency's approval.

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

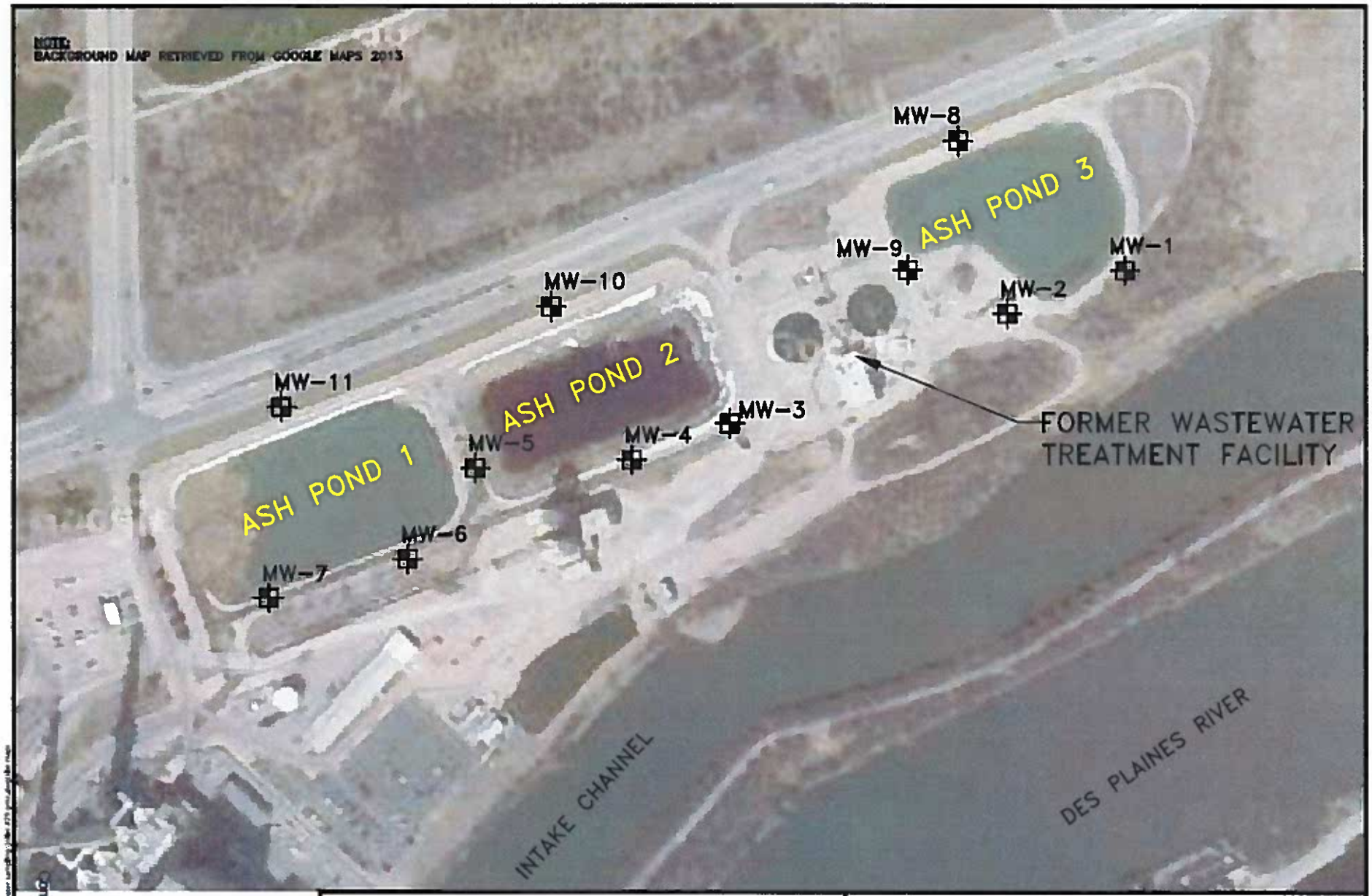
Sincerely,
KPRG and Associates, Inc.

Richard R Gnat

Richard R. Gnat, P.G.
Principal

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

FIGURES



Comp 002479

0 500'

APPROXIMATE SCALE

N

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG

KPRG and Associates, Inc.

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

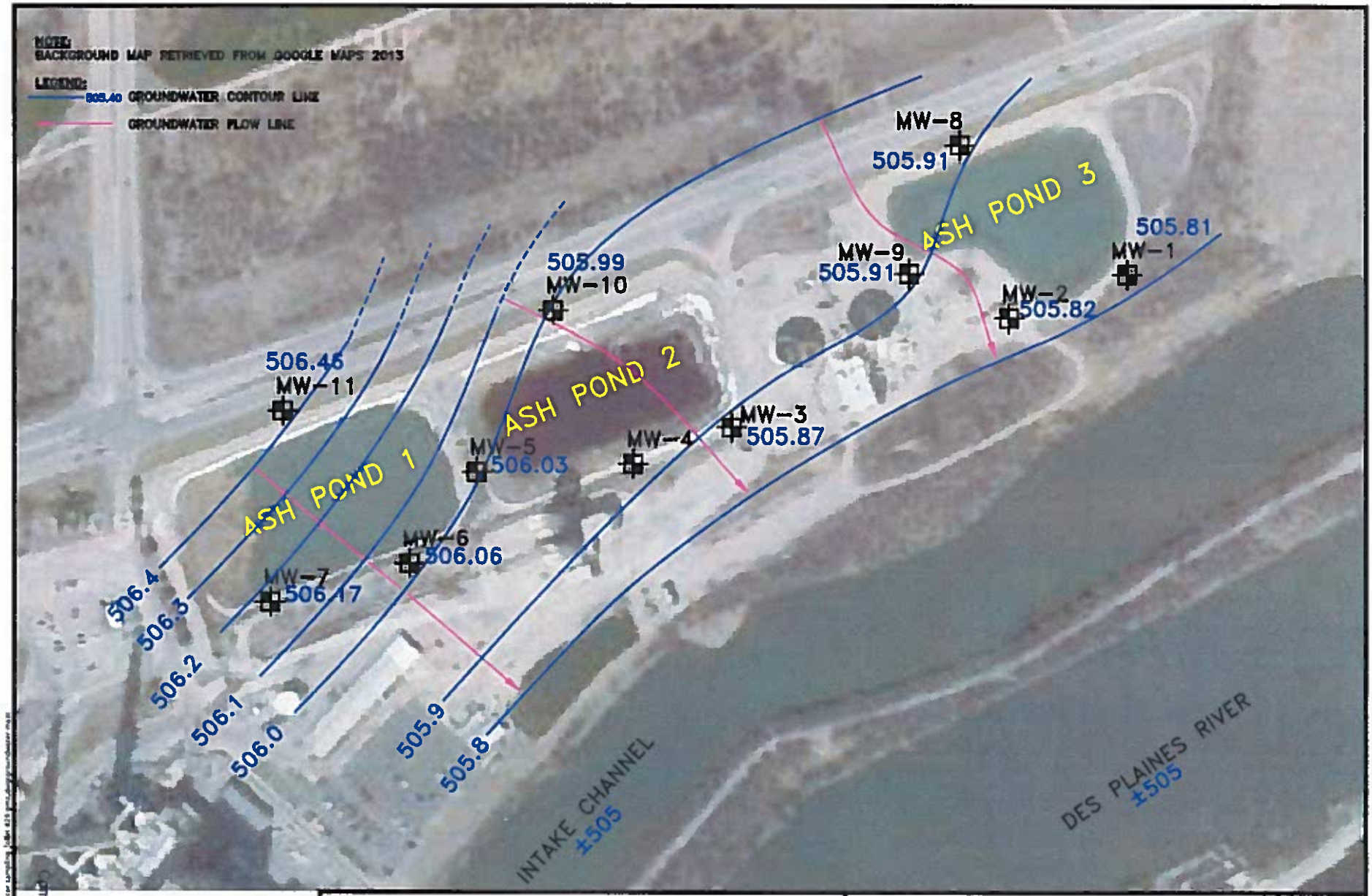
14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

SITE MAP

JOLIET #29 GENERATING STATION
JOLIET, ILLINOIS

Scale: 1" = 500' | Date: June 28, 2013

KPRG Project No. 12313.0 | FIGURE 1



Comp 002480

0 250'
APPROXIMATE SCALE

N

ENVIRONMENTAL CONSULTATION & REMEDIATION

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GROUNDWATER CONTOUR MAP–JUNE 2013

JOLIET #29 GENERATING STATION
JOLIET, ILLINOIS

Scale: 1" = 250' | Date: June 28, 2013

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-1	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
MW-2	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
MW-3	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
MW-4	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
MW-5	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
MW-6	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

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-7	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
MW-8	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
MW-9	06/14/11	534 44	531 13	507 88	505 84	496 29	26 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
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
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

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

Sample: MW-01	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		5/23/2013	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.0030	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0030	ND	NS	NS	NS	NS	0.0030	0.0052
Arsenic	0.010	0.0010	0.0014	NS	NS	NS	NS	NS	NS	NS	NS	0.0010	0.0012	NS	NS	NS	NS	0.0010	0.0011
Barium	2.0	0.0025	0.14	NS	NS	NS	NS	NS	NS	NS	NS	0.0025	0.16	NS	NS	NS	NS	0.0025	0.15
Beryllium	0.004	0.0010	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0010	ND	NS	NS	NS	NS	0.0010	ND
Boron	2.0	0.050	0.29	NS	NS	NS	NS	NS	NS	NS	NS	0.050	0.38^	NS	NS	NS	NS	0.050	0.33
Cadmium	0.005	0.00050	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.00050	ND	NS	NS	NS	NS	0.00050	ND
Chloride	200.0	10	170	NS	NS	NS	NS	NS	NS	NS	NS	10	120	NS	NS	NS	NS	10	210
Chromium	0.1	0.0050	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0050	ND	NS	NS	NS	NS	0.0050	ND
Cobalt	1.0	0.0010	0.0010	NS	NS	NS	NS	NS	NS	NS	NS	0.0010	ND	NS	NS	NS	NS	0.0010	ND
Copper	0.65	0.0020	0.0025	NS	NS	NS	NS	NS	NS	NS	NS	0.0020	0.0021	NS	NS	NS	NS	0.0020	ND
Cyanide	0.2	0.010	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.010	ND	NS	NS	NS	NS	0.010	ND
Fluoride	4.0	0.10	0.43	NS	NS	NS	NS	NS	NS	NS	NS	0.10	0.59	NS	NS	NS	NS	0.10	0.42
Iron	5.0	0.10	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.10	ND	NS	NS	NS	NS	0.10	ND
Lead	0.0075	0.00050	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.00050	ND	NS	NS	NS	NS	0.00050	ND
Manganese	0.15	0.0025	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0025	ND	NS	NS	NS	NS	0.0025	ND
Mercury	0.002	0.00020	ND^	NS	NS	NS	NS	NS	NS	NS	NS	0.00020	ND	NS	NS	NS	NS	0.00020	ND
Nickel	0.1	0.0020	0.0029	NS	NS	NS	NS	NS	NS	NS	NS	0.0020	0.0029	NS	NS	NS	NS	0.0020	ND
Nitrogen/Nitrate	10.0	0.10	2.9	NS	NS	NS	NS	NS	NS	NS	NS	0.10	4.2	NS	NS	NS	NS	0.10	3.7
Nitrogen/Nitrate, Nitrite	NA	0.20	2.9	NS	NS	NS	NS	NS	NS	NS	NS	0.50	4.2	NS	NS	NS	NS	0.50	3.7
Nitrogen/Nitrite	NA	0.020	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.020	ND	NS	NS	NS	NS	0.020	ND
Perchlorate	0.0049	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS	NR	NR	NS	NS	NS	NS	0.0040	ND
pH	6.5 - 9.0	NA	7.25	NS	NS	NS	NS	NS	NS	NS	NS	NA	7.46	NS	NS	NS	NS	NM	NM
Selenium	0.05	0.0025	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0025	ND	NS	NS	NS	NS	0.0025	0.0040
Silver	0.05	0.00050	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.00050	ND	NS	NS	NS	NS	0.00050	ND
Sulfate	400.0	25	81	NS	NS	NS	NS	NS	NS	NS	NS	50	240	NS	NS	NS	NS	25	140
Thallium	0.002	0.0020	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.0020	ND	NS	NS	NS	NS	0.0020	ND
Total Dissolved Solids	1,200	10	670	NS	NS	NS	NS	NS	NS	NS	NS	10	630	NS	NS	NS	NS	10	700
Vanadium	0.049	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS	NR	NR	NS	NS	NS	NS	0.0050	0.0081
Zinc	5.0	0.020	ND	NS	NS	NS	NS	NS	NS	NS	NS	0.020	ND	NS	NS	NS	NS	0.020	ND
Benzene	0.005	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS	NR	NR	NS	NS	NS	NS	0.00050	ND
BETX	11.705	NR	NR	NS	NS	NS	NS	NS	NS	NS	NS	NR	NR	NS	NS	NS	NS	0.0025	ND
Temperature	NA	NA	13.92	NA	NM	NA	NM	NA	NM	NA	NM	NA	22.01	NA	NM	NA	NM	NA	NM
Conductivity	NA	NA	1.28	NA	NM	NA	NM	NA	NM	NA	NM	NA	0.97	NA	NM	NA	NM	NA	NM
Dissolved Oxygen	NA	NA	4.19	NA	NM	NA	NM	NA	NM	NA	NM	NA	7.68	NA	NM	NA	NM	NA	NM
Oxidation-Reduction Potential	NA	NA	210.6	NA	NM	NA	NM	NA	NM	NA	NM	NA	155.0	NA	NM	NA	NM	NA	NM

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

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

NR = Not Required
NS = Not Sampled
^ = Denotes instrument related QC exceeds the control limits

Temperature	°C	degrees Celcius
Conductivity	ms/cm²	Millisiemens Centimeters
Dissolved Oxygen	mg/L	milligrams Liter
ORP	mV	milliVolts

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

Sample: MW-02	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		5/23/2013	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.0030	0.0042	0.0030	0.0032	0.0030	ND	0.0030	ND	NS	NS	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0050	ND	0.0010	ND	0.0010	ND	0.0010	ND	NS	NS	0.0010	0.0015	0.0010	ND	0.0010	ND	0.0010	ND
Barium	2.0	0.0025	0.081	0.0025	0.10	0.0025	0.12	0.0025	0.12	NS	NS	0.0025	0.12	0.0025	0.13	0.0025	0.12	0.0025	0.11
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	NS	NS	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.35	0.050	0.44	0.050	0.74	0.050	0.22	NS	NS	0.050	0.35^	0.050	0.42	0.050	0.41	0.050	0.35
Cadmium	0.005	0.0025	ND	0.00050	ND	0.00050	ND	0.00050	ND	NS	NS	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	10	230	10	140	10	140	2.0	280	NS	NS	10	120	10	150	10	260	10	250
Chromium	0.1	0.025	ND	0.0050	ND	0.0050	ND	0.0050	ND	NS	NS	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0050	ND	0.0010	ND	0.0010	ND	0.0010	ND	NS	NS	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Copper	0.65	0.010	ND	0.0020	ND	0.0020	ND	0.0020	ND	NS	NS	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	NS	NS	0.010	ND	0.010	ND	0.010	ND	0.010	ND
Fluoride	4.0	0.10	0.58	0.10	0.54	0.10	0.51	0.10	0.53	NS	NS	0.10	0.64	0.10	0.59	0.10	0.59^	0.10	0.54
Iron	5.0	0.50	ND	0.10	ND	0.10	ND	0.10	ND	NS	NS	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	NS	NS	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.013	ND	0.0025	0.0025	0.0025	ND	0.0025	ND^	NS	NS	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	NS	NS	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.010	ND	0.0020	0.0027	0.0020	0.0023	0.0020	ND	NS	NS	0.0020	0.0024	0.0020	0.0029	0.0020	0.0027	0.0020	0.0022
Nitrogen/Nitrate	10.0	0.10	1.8	0.10	2.2	0.10	2.9	0.10	6.4	NS	NS	0.10	4.7	0.10	7.5	0.10	4.4	0.10	3.7
Nitrogen/Nitrate, Nitrite	NA	0.10	1.8	0.20	2.2	0.10	2.9	0.50	6.4	NS	NS	0.50	4.7	0.50	7.5	0.50	4.4	0.50	3.7
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	NS	NS	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NS	NS	NR	NR	0.004	ND	0.0040	ND	0.0040	ND
pH	6.5 - 9.0	NA	7.30	NA	7.37	NA	7.37	NA	NM	NS	NS	NA	7.39	NA	7.39	NA	7.52	NA	7.44
Selenium	0.05	0.013	ND	0.0025	0.0038	0.0025	0.0055	0.0025	0.0048	NS	NS	0.0025	ND	0.0025	ND	0.0025	0.0034	0.0025	0.0027
Silver	0.05	0.0025	ND	0.00050	ND	0.00050	ND	0.00050	ND	NS	NS	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	25	67	25	110	50	150	50	110	NS	NS	50	190	50	140	50	130	25	150
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	NS	NS	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	720	10	690	10	750	10	800	NS	NS	10	580	10	720	10	840	10	860
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NS	NS	NR	NR	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.10	ND	0.020	ND	0.020	ND	0.020	ND	NS	NS	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NS	NS	NR	NR	0.0005	ND	0.00050	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NS	NS	NR	NR	0.0025	ND	0.0025	ND	0.0025	ND
Temperature	NA	NA	15.57	NA	18.72	NA	13.04	NA	NM	NA	NM	NA	22.02	NA	14.4	NA	9.5	NA	12.82
Conductivity	NA	NA	1.30	NA	0.98	NA	0.90	NA	NM	NA	NM	NA	0.90	NA	0.91	NA	1.02	NA	1.008
Dissolved Oxygen	NA	NA	6.45	NA	5.21	NA	5.91	NA	NM	NA	NM	NA	6.02	NA	9.91	NA	7.79	NA	7.65
Oxidation-Reduction Potential	NA	NA	227.3	NA	-36.0	NA	81.0	NA	NM	NA	NM	NA	158.0	NA	41.0	NA	58.1	NA	178.0

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

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

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

Temperature	°C	degrees Celcius
Conductivity	ms/cm²	Millisiemens Centimeters
Dissolved Oxygen	mg/L	milligrams/Liter
ORP	mV	milliVolts

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

Sample: MW-03	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		5/22/2013	
Parameter	Standards	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	0.0065	0.0030	0.016	0.0030	0.013	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0050	ND	0.0010	0.0012	0.0010	0.0016	0.0010	0.0014	0.0010	0.0011	0.0010	0.0012	0.0010	0.0012	0.0010	0.0014	0.0010	0.0013
Barium	2.0	0.0025	0.092	0.0025	0.081	0.0025	0.084	0.0025	0.081	0.0025	0.088	0.0025	0.097	0.0025	0.09	0.0025	0.089	0.0025	0.13
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	0.46	0.050	0.24	0.050	0.23	0.050	0.26	0.050	0.31	0.050	0.22^	0.050	0.28	0.050	0.29	0.050	0.74 V
Cadmium	0.005	0.0025	ND	0.00050	ND	0.00050	ND	0.00050	0.00074	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	10	300	50	160	10	260	2.0	250	10	260	10	330	10	290	10	260	50	380
Chromium	0.1	0.025	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	0.0050	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	0.010	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	0.41	0.10	0.31	0.10	0.40	0.10	0.39	0.10	0.43	0.10	0.43	0.10	0.38	0.10	0.42^	0.10	0.44
Iron	5.0	0.50	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	0.013	ND	0.0025	0.0076	0.0025	0.0080	0.0025	0.0095^	0.0025	0.014	0.0025	0.011	0.0025	0.0076	0.0025	0.0068	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	0.010	ND	0.0020	0.0041	0.0020	0.0060	0.0020	0.0046	0.0020	0.0044	0.0020	0.0059	0.0020	0.0063	0.0020	0.0051	0.0020	0.0042
Nitrogen/Nitrate	10.0	0.10	2.1	0.10	1.1	0.10	0.79	0.10	ND	0.10	1.3	0.10	0.88	0.10	0.77	0.10	0.86	0.10	3.6
Nitrogen/Nitrate, Nitrite	NA	0.20	2.1	0.10	1.1	0.10	0.79	0.10	ND	0.10	1.3	0.10	0.88	0.10	0.77	0.10	0.86	0.50	3.6
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
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.004	ND	0.0040	ND	0.0040	ND
pH	6.5 - 9.0	NA	7.41	NA	7.37	NA	7.48	NA	7.34	NA	7.21	NA	7.40	NA	7.42	NA	7.66	NA	7.00
Selenium	0.05	0.013	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0043	0.0025	ND	0.0025	ND	0.0025	0.0031	0.0025	0.022
Silver	0.05	0.0025	ND	0.00050	ND	0.00050	0.00091	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	50	120	25	120	50	160	50	190	25	160	50	150	50	110	50	140	50	250
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	1000	10	930	10	1100	10	1000	10	1100	10	1000	10	1100	10	950	10	1300
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.10	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	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0005	ND	0.00050	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	NS	0.0025	ND	0.0025	ND
Temperature	NA	NA	13.04	NA	11.90	NA	10.94	NA	13.73	NA	14.01	NA	13.35	NA	12.40	NA	11.20	NA	13.45
Conductivity	NA	NA	1.74	NA	1.15	NA	1.19	NA	1.21	NA	1.33	NA	1.41	NA	1.28	NA	1.18	NA	1.55
Dissolved Oxygen	NA	NA	7.78	NA	6.03	NA	6.07	NA	6.07	NA	6.47	NA	6.35	NA	6.30	NA	7.03	NA	5.31
Oxidation-Reduction Potential	NA	NA	223.5	NA	-51.0	NA	145.0	NA	193.0	NA	114.0	NA	134.0	NA	130.0	NA	196.6	NA	-20.4

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

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

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

Temperature	°C	degrees Celcius
Conductivity	ms/cm²	Millisiemens/Centimeters
Dissolved Oxygen	mg/L	milligrams/Liter
ORP	mV	milliVolts

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

Sample: MW-04	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		5/22/2013	
Parameter	Standards	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	0.0067	0.0030	0.0057	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	0.012
Arsenic	0.010	0.0050	ND	0.0010	ND	0.0040	0.0011	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0013	0.0010	0.0014
Barium	2.0	0.0025	0.059	0.0025	0.060	0.0025	0.069	0.0025	0.070	0.0025	0.068	0.0025	0.092	0.0025	0.87	0.0025	0.080	0.0025	0.084
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	0.38	0.050	0.25	0.050	0.34	0.050	0.29	0.050	0.48	0.050	0.34^	0.050	0.38	0.050	0.40	0.050	0.40
Cadmium	0.005	0.0025	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	250	10	150	10	200	2.0	210	10	270	10	260	10	250	10	230	10	270
Chromium	0.1	0.025	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	0.0050	ND	0.0010	0.0018	0.0010	0.0028	0.0010	0.0026	0.0010	0.0042	0.0010	0.0059	0.0010	0.0049	0.0010	0.0057	0.0010	0.0012
Copper	0.65	0.010	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	0.37	0.10	0.44	0.10	0.41	0.10	0.46	0.10	0.47	0.10	0.41	0.10	0.47^	0.10	0.49
Iron	5.0	0.50	ND	0.10	0.22	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	0.46	0.10	0.17
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	0.00077	0.00050	ND
Manganese	0.15	0.013	0.018	0.0025	0.066	0.0025	0.029	0.0025	0.038^	0.0025	0.082	0.0025	0.043	0.0025	0.029	0.0025	0.067	0.0025	0.0081
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	0.010	ND	0.0020	0.0029	0.0020	0.0038	0.0020	0.0037	0.0020	0.0036	0.0020	0.0043	0.0020	0.0042	0.0020	0.0051	0.0020	0.0034
Nitrogen/Nitrate	10.0	0.10	2.7	0.10	1.6	0.10	1.4	0.10	0.62	0.10	1.4	0.10	1.3	0.10	0.91	0.10	1.3	0.10	2.9
Nitrogen/Nitrate, Nitrite	NA	0.20	2.7	0.10	1.6	0.10	1.4	0.10	0.62	0.10	1.4	0.10	1.3	0.10	0.91	0.10	1.3	0.20	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
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.004	ND	0.0040	ND	0.0040	ND
pH	6.5 - 9.0	NA	7.48	NA	7.42	NA	7.56	NA	7.40	NA	7.31	NA	7.37	NA	7.38	NA	7.44	NA	7.18
Selenium	0.05	0.013	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0047	0.0025	0.0033	0.0025	ND	0.0025	0.0025
Silver	0.05	0.0025	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	84	25	74	50	170	50	210	25	110	50	180	50	130	50	110	25	120
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	890	10	770	10	970	10	930	10	1100	10	980	10	1000	10	880	10	900
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.10	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	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0005	ND	0.00050	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	NS	0.0025	ND	0.0025	ND
Temperature	NA	NA	12.59	NA	11.78	NA	9.67	NA	12.52	NA	13.59	NA	14.52	NA	12.98	NA	9.90	NA	14.25
Conductivity	NA	NA	1.50	NA	0.94	NA	1.04	NA	1.06	NA	1.28	NA	1.33	NA	1.24	NA	1.05	NA	1.106
Dissolved Oxygen	NA	NA	8.20	NA	7.17	NA	6.95	NA	6.95	NA	6.51	NA	6.26	NA	8.19	NA	7.6	NA	6.47
Oxidation-Reduction Potential	NA	NA	217.5	NA	-43.0	NA	135.0	NA	177.0	NA	86.0	NA	155.0	NA	132.0	NA	140.9	NA	-6.4

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

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

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

Temperature	°C	degrees Celcius
Conductivity	ms/cm	Millisiemens Centimeters
Dissolved Oxygen	mg/L	milligrams/Liter
ORP	mV	milliVolts

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

Sample: MW-05	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		6/5/2013	
Parameter	Standards	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	0.0040	0.0030	0.0035	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0050	ND	0.0010	0.0011	0.0010	0.0011	0.0010	ND	0.0010	ND	0.0010	0.0011	0.0010	ND	0.0010	ND	0.0010	ND
Barium	2.0	0.0025	0.053	0.0025	0.053	0.0025	0.062	0.0025	0.069	0.0025	0.056	0.0025	0.071	0.0025	0.078	0.0025	0.076	0.0025	0.060
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	0.47	0.050	0.57	0.050	0.49	0.050	0.54	0.050	0.44	0.050	0.55^	0.050	0.65	0.050	0.59	0.050	0.69
Cadmium	0.005	0.0025	ND	0.00050	ND	0.00050	ND	0.00050	0.0016	0.00050	ND	0.00050	0.00091	0.00050	0.00076	0.00050	ND	0.00050	ND
Chloride	200.0	10	220	10	120	10	190	2.0	210	10	220	10	240	10	210	10	230	10	180
Chromium	0.1	0.025	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	0.0050	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0040	0.0010	0.006	0.0010	0.0019	0.0010	ND
Copper	0.65	0.010	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.019	0.0020	0.017	0.0020	0.0065	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	0.39	0.10	0.28	0.10	0.34	0.10	0.32	0.10	0.38	0.10	0.39	0.10	0.35	0.10	0.35^	0.10	0.39
Iron	5.0	0.50	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	0.00062	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.013	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0040	0.0025	0.081	0.0025	ND	0.0025	0.0037	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	0.010	ND	0.0020	0.0021	0.0020	ND	0.0020	ND	0.0020	0.0025	0.0020	0.0080	0.0020	0.02	0.0020	0.0072	0.0020	0.0029
Nitrogen/Nitrate	10.0	0.10	1.3	0.10	1.1	0.10	1.5	0.10	0.33	0.10	1.0	0.10	ND	0.10	0.21	0.10	0.16	0.10	1.7
Nitrogen/Nitrate, Nitrite	NA	0.10	1.3	0.10	1.1	0.10	1.5	0.10	0.33	0.10	1.0	0.10	ND	0.10	0.21	0.10	0.16	0.10	1.7
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
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.004	ND	0.0040	ND	0.0040	ND
pH	6.5 - 9.0	NA	7.44	NA	7.25	NA	7.44	NA	7.30	NA	7.18	NA	7.32	NA	7.36	NA	7.34	NA	6.92
Selenium	0.05	0.013	ND	0.0025	ND	0.0025	0.0050	0.0025	ND	0.0025	0.0057	0.0025	ND	0.0025	0.0034	0.0025	ND	0.0025	0.025
Silver	0.05	0.0025	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	100	50	140	50	140	50	190	25	130	50	210	50	210	50	150	50	200
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	850	10	800	10	900	10	930	10	1000	10	990	10	1000	10	960	10	1,100
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND	0.0050	ND
Zinc	5.0	0.10	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	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0005	ND	0.00050	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	NS	0.0025	ND	0.0025	ND
Temperature	NA	NA	13.37	NA	12.15	NA	11.23	NA	13.52	NA	16.19	NA	14.23	NA	13.64	NA	10.90	NA	14.95
Conductivity	NA	NA	1.38	NA	0.92	NA	1.02	NA	1.19	NA	1.56	NA	1.29	NA	1.25	NA	1.08	NA	1.067
Dissolved Oxygen	NA	NA	7.16	NA	6.43	NA	6.07	NA	6.24	NA	6.56	NA	3.68	NA	4.27	NA	4.49	NA	4.01
Oxidation-Reduction Potential	NA	NA	210.0	NA	-26.0	NA	125.0	NA	228.0	NA	176.0	NA	155.0	NA	112.0	NA	160.5	NA	-1.7

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

DL = Detection limit
NA = Not Applicable
ND = Not Detected
NM = Not Measured
NR = Not Required
NS = Not Sampled
^ = Denotes instrument related QC exceeds the control limits

Temperature	°C	degrees Celcius
Conductivity	ms/cm	Millisiemens/Centimeters
Dissolved Oxygen	mg/L	milligrams/Liter
ORP	mV	milliVolts

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

Sample: MW-06	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		5/22/2013	
Parameter	Standards	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	0.0045
Arsenic	0.010	0.0050	ND	0.0010	ND	0.0010	0.0018	0.0010	0.0016	0.0010	0.0014	0.0010	0.0015	0.0010	0.0014	0.0010	0.0018	0.0010	0.0018
Barium	2.0	0.0025	0.082	0.0025	0.094	0.0025	0.11	0.0025	0.13	0.0025	0.11	0.0025	0.14	0.0025	0.12	0.0025	0.12	0.0025	0.097
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	0.32	0.050	0.27	0.050	0.30	0.050	0.25	0.050	0.26	0.050	0.25^	0.050	0.31	0.050	0.33	0.050	0.23
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	140	10	140	10	130	2.0	240	10	210	10	190	10	150	10	160	10	170
Chromium	0.1	0.025	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	0.0050	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	0.010	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	0.29	0.10	0.44	0.10	0.36	0.10	0.36	0.10	0.36	0.10	0.38	0.10	0.40^	0.10	0.43
Iron	5.0	0.50	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	0.013	ND	0.0025	0.036	0.0025	0.024	0.0025	0.015	0.0025	0.0080	0.0025	0.0087	0.0025	0.0076	0.0025	0.0047	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	0.010	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
Nitrogen/Nitrate	10.0	0.10	0.91	0.10	0.31	0.10	0.36	0.10	ND	0.10	0.65	0.10	0.55	0.10	0.47	0.10	1.0	0.10	1.7
Nitrogen/Nitrate, Nitrite	NA	0.10	0.91	0.10	0.31	0.10	0.36	0.10	ND	0.10	0.65	0.10	0.55	0.10	0.47	0.10	1.0	0.10	1.7
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
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.004	ND	0.0040	ND	0.0040	ND
pH	6.5 - 9.0	NA	7.71	NA	7.53	NA	7.71	NA	7.57	NA	7.42	NA	7.46	NA	7.66	NA	8.05	NA	7.35
Selenium	0.05	0.043	ND	0.0025	ND	0.0025	0.0054	0.0025	0.0051	0.0025	0.0069	0.0025	0.0073	0.0025	0.0059	0.0025	0.013	0.0025	0.0032
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	25	87	25	100	50	130	50	110	25	91	25	85	25	120	25	120	25	96
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	650	10	620	10	710	10	800	10	860	10	760	10	710	10	690	10	690
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	0.0052	0.0050	0.0050	0.0050	0.0056
Zinc	5.0	0.10	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	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0005	ND	0.00050	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	NS	0.0025	ND	0.0025	ND
Temperature	NA	NA	14.26	NA	12.73	NA	13.70	NA	14.45	NA	19.31	NA	14.51	NA	13.45	NA	12.20	NA	14.48
Conductivity	NA	NA	1.05	NA	0.77	NA	0.87	NA	1.06	NA	1.23	NA	1.02	NA	0.93	NA	0.94	NA	0.855
Dissolved Oxygen	NA	NA	6.82	NA	6.74	NA	7.05	NA	7.47	NA	7.21	NA	6.27	NA	7.20	NA	8.70	NA	4.77
Oxidation-Reduction Potential	NA	NA	203.8	NA	-65.0	NA	113.0	NA	210.0	NA	153.0	NA	162.0	NA	125.0	NA	186.4	NA	18.1

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

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

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

Temperature	°C	degrees Celcius
Conductivity	ms/cm²	Millisiemens/Centimeters
Dissolved Oxygen	mg/L	milligrams/Liter
ORP	mV	milliVolts

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

Sample: MW-07	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		5/22/2013	
Parameter	Standards	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	0.0050	ND	0.0010	ND	0.0040	0.0014	0.0010	0.0010	0.0010	ND	0.0010	0.0013	0.0010	ND	0.0010	0.0011	0.0010	0.0015
Barium	2.0	0.0025	0.072	0.0025	0.092	0.0025	0.11	0.0025	0.13	0.0025	0.092	0.0025	0.12	0.0025	0.11	0.0025	0.12	0.0025	0.11
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	0.25	0.050	0.29	0.050	0.35	0.050	0.30	0.050	0.25	0.050	0.31*	0.050	0.41	0.050	0.39	0.050	0.21
Cadmium	0.005	0.0025	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	140	10	99	10	140	20	300	10	170	10	170	10	140	10	190	10	170
Chromium	0.1	0.025	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	0.0050	ND	0.0010	0.011	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Copper	0.65	0.010	ND	0.0020	0.0025	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	0.35	0.10	0.27	0.10	0.35	0.10	0.31	0.10	0.37	0.10	0.32	0.10	0.31	0.10	0.30*	0.10	0.38
Iron	5.0	0.50	ND	0.10	3.8	0.10	ND	0.10	ND	0.10	0.13	0.10	ND	0.10	ND	0.10	ND	0.10	0.41
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	0.013	ND	0.0025	0.080	0.0025	0.0073	0.0025	0.015	0.0025	0.069	0.0025	0.0041	0.0025	0.0063	0.0025	0.0044	0.0025	0.012
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	0.010	ND	0.0020	0.014	0.0020	ND	0.0020	ND	0.0020	0.0032	0.0020	ND	0.0020	0.0024	0.0020	0.0024	0.0020	0.0020
Nitrogen/Nitrate	10.0	0.10	0.76	0.10	0.27	0.10	0.60	0.10	ND	0.10	0.65	0.10	0.61	0.10	0.73	0.10	1.4	0.10	1.7
Nitrogen/Nitrate, Nitrite	NA	0.10	0.76	0.10	0.27	0.10	0.60	0.10	ND	0.10	0.65	0.10	0.61	0.10	0.73	0.10	1.4	0.10	1.7
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
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.004	ND	0.0040	ND	0.0040	ND
pH	6.5 - 9.0	NA	7.61	NA	7.65	NA	7.63	NA	7.53	NA	7.59	NA	7.45	NA	7.52	NA	7.99	NA	7.34
Selenium	0.05	0.013	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0031	0.0025	0.0041	0.0025	0.0026
Silver	0.05	0.0025	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	85	25	110	50	160	50	140	50	190	50	130	25	90	25	150	50	150
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	580	10	650	10	780	10	870	10	760	10	760	10	760	10	720	10	740
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	0.0051	0.0050	ND	0.0050	0.0053
Zinc	5.0	0.10	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	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0005	ND	0.00050	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	NS	0.0025	ND	0.0025	ND
Temperature	NA	NA	12.92	NA	12.50	NA	13.07	NA	15.40	NA	16.33	NA	13.97	NA	12.88	NA	12.30	NA	14.15
Conductivity	NA	NA	1.02	NA	0.78	NA	0.89	NA	1.18	NA	0.99	NA	1.00	NA	0.91	NA	0.99	NA	0.818
Dissolved Oxygen	NA	NA	8.10	NA	7.70	NA	6.74	NA	7.23	NA	7.29	NA	7.16	NA	8.51	NA	8.38	NA	4.29
Oxidation-Reduction Potential	NA	NA	202.8	NA	-82.0	NA	113.0	NA	175.0	NA	148.0	NA	199.0	NA	152.0	NA	154.3	NA	17.0

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

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

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

Temperature	°C	degrees Celcius
Conductivity	ms/cm²	Millisiemens/Centimeters
Dissolved Oxygen	mg/L	milligrams/Liter
ORP	mV	milliVolts

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

Sample: MW-08	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		5/23/2013	
Parameter	Standards	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	0.0050	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	0.026	0.0025	0.048	0.0025	0.057	0.0025	0.049	0.0025	0.029	0.0025	0.059	0.0025	0.058	0.0025	0.069	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
Boron	2.0	0.050	0.12	0.050	0.20	0.050	0.16	0.050	0.13	0.050	0.20	0.050	0.46*	0.050	0.33	0.050	0.25	0.050	0.16
Cadmium	0.005	0.0025	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	150	10	79	10	120	50	410	10	190	10	130	10	130	10	200	10	300
Chromium	0.1	0.025	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	0.0050	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	0.010	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	0.45	0.10	0.25	0.10	0.31	0.10	0.38	0.10	0.41	0.10	0.40	0.10	0.33	0.10	0.29*	0.10	0.34
Iron	5.0	0.50	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	0.24	0.10	ND	0.10	ND	0.10	0.23
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	0.013	0.017	0.0025	ND	0.0025	ND	0.0025	0.0042	0.0025	0.016	0.0025	0.023	0.0025	0.0044	0.0025	ND	0.0025	0.0065
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	0.010	ND	0.0020	0.012	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.0021	0.0020	ND	0.0020	ND	0.0020	0.0034
Nitrogen/Nitrate	10.0	0.10	1.9	0.10	0.95	0.10	0.86	0.10	ND	0.10	0.44	0.10	4.0	0.10	2.0	0.10	2.2	0.10	2.8
Nitrogen/Nitrate, Nitrite	NA	0.10	1.9	0.10	0.95	0.10	0.86	0.10	ND	0.10	0.44	0.50	4.0	0.50	2.0	0.20	2.2	0.20	2.8
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
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.004	ND	0.0040	ND	0.0040	ND
pH	6.5 - 9.0	NA	7.70	NA	7.32	NA	7.38	NA	7.49	NA	7.64	NA	6.80	NA	7.40	NA	7.46	NA	7.17
Selenium	0.05	0.013	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.0079	0.0025	ND	0.0025	ND	0.0025	ND
Silver	0.05	0.0025	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	10	52	50	120	50	170	25	130	20	110	50	180	50	130	50	150	25	99
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	580	10	690	10	800	10	1000	10	740	10	710	10	730	10	830	10	860
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.10	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	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0005	ND	0.00050	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	NS	0.0025	ND	0.0025	ND
Temperature	NA	NA	13.15	NA	12.20	NA	12.71	NA	14.64	NA	16.68	NA	15.09	NA	12.82	NA	11.10	NA	11.95
Conductivity	NA	NA	0.99	NA	0.80	NA	0.88	NA	1.40	NA	1.05	NA	0.95	NA	0.91	NA	1.05	NA	1.031
Dissolved Oxygen	NA	NA	8.00	NA	6.06	NA	6.57	NA	7.68	NA	7.22	NA	8.19	NA	9.83	NA	7.73	NA	5.33
Oxidation-Reduction Potential	NA	NA	196.0	NA	-47.0	NA	119.0	NA	130.0	NA	132.0	NA	211.0	NA	101.0	NA	136.1	NA	6.2

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

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

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

Temperature	°C	degrees Celcius
Conductivity	ms/cm²	Millisiemens/Centimeters
Dissolved Oxygen	mg/L	milligrams/Liter
ORP	mV	milliVolts

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

Sample: MW-09	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		5/23/2013	
Parameter	Standards	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	0.0050	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	0.0010	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Barium	2.0	0.0025	0.032	0.0025	0.029	0.0025	0.030	0.0025	0.021	0.0025	0.021	0.0025	0.022	0.0025	0.021	0.0025	0.016	0.0025	0.017
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	0.29	0.050	0.35	0.050	0.31	0.050	0.38	0.050	0.34	0.050	0.59*	0.050	0.44	0.050	0.36	0.050	0.30
Cadmium	0.005	0.0025	ND	0.00050	ND	0.00050	ND	0.00050	0.00059	0.00050	ND	0.00050	0.00065	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	10	**290**	10	190	10	190	10	170	10	**250**	10	160	10	150	10	190	10	**290**
Chromium	0.1	0.025	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	0.0050	0.0062	0.0010	0.011	0.0010	0.0075	0.0010	0.0021	0.0010	0.0021	0.0010	0.0022	0.0010	0.002	0.0010	0.0024	0.0010	0.0076
Copper	0.65	0.010	ND	0.0020	0.0026	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	0.47	0.10	0.39	0.10	0.50	0.10	0.45	0.10	0.48	0.10	0.48	0.10	0.45	0.10	0.46*	0.10	0.40
Iron	5.0	0.50	**7.3**	0.10	3.8	0.10	1.5	0.10	**5.5**	0.10	**8.0**	0.10	4.7	0.10	**13**	0.10	**15**	0.10	**160**
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	0.013	**0.95**	0.0025	**0.82**	0.0025	**0.66**	0.0025	**1.3**	0.0025	**1.2**	0.0025	**0.68**	0.0025	**0.44**	0.0025	**0.43**	0.0025	**1.6**
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	0.010	0.013	0.0020	0.014	0.0020	0.011	0.0020	0.0054	0.0020	0.0070	0.0020	0.010	0.0020	0.0059	0.0020	0.0065	0.0020	0.014
Nitrogen/Nitrate	10.0	0.10	0.97	0.10	0.36	0.10	0.22	0.10	ND	0.10	ND	0.10	0.22	0.10	0.22	0.10	0.75	0.10	ND
Nitrogen/Nitrate, Nitrite	NA	0.10	0.97	0.10	0.36	0.10	0.22	0.10	ND	0.10	ND	0.10	0.22	0.10	0.22	0.10	0.75	0.10	ND
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
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.004	ND	0.020	ND	0.0040	ND
pH	6.5 - 9.0	NA	7.01	NA	6.90	NA	7.19	NA	6.86	NA	6.85	NA	6.82	NA	6.80	NA	7.05	NA	**6.34**
Selenium	0.05	0.013	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
Silver	0.05	0.0025	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	100	**580**	130	**750**	50	130	500	**1600**	500	**1500**	250	**1600**	250	**1100**	250	**700**	500	**1300**
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	**1500**	10	**1700**	10	**2400**	10	**2600**	10	**2800**	10	**2900**	10	**2000**	10	**1700**	13	**3000**
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.10	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	0.023	0.020	0.049
Benzene	0.005	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0005	ND	0.00050	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	NS	0.0025	ND	0.0025	ND
Temperature	NA	NA	15.68	NA	15.90	NA	11.94	NA	14.29	NA	15.10	NA	16.23	NA	15.41	NA	12.20	NA	12.19
Conductivity	NA	NA	2.25	NA	1.88	NA	1.54	NA	2.31	NA	2.50	NA	2.56	NA	1.93	NA	1.59	NA	2.522
Dissolved Oxygen	NA	NA	0.49	NA	0.33	NA	0.43	NA	2.22	NA	1.71	NA	6.15	NA	4.26	NA	4.86	NA	0.40
Oxidation-Reduction Potential	NA	NA	-43.5	NA	-114.0	NA	-40.0	NA	2.0	NA	-32.0	NA	-22.0	NA	-39.0	NA	-30.3	NA	-85.9

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

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

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

Temperature	°C	degrees Celcius
Conductivity	ms/cm²	Millisiemens/Centimeters
Dissolved Oxygen	mg/L	milligrams/Liter
ORP	mV	milliVolts

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

Sample: MW-10	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		5/22/2013	
Parameter	Standards	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	0.0050	ND	0.0010	ND	0.0010	0.0012	0.0010	ND	0.0010	ND	0.0010	0.0012	0.0010	0.001	0.0010	0.0012	0.0010	0.0011
Barium	2.0	0.0025	0.039	0.0025	0.039	0.0025	0.036	0.0025	0.040	0.0025	0.043	0.0025	0.040	0.0025	0.041	0.0025	0.040	0.0025	0.041
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	0.54	0.050	0.41	0.050	0.52	0.25	0.52	0.050	0.53	0.050	0.43^	0.050	0.49	0.050	0.49	0.050	0.25
Cadmium	0.005	0.0025	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	2.0	7.1	10	170	10	180	10	180	10	290	10	230	10	200	10	210	10	240
Chromium	0.1	0.025	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	0.0050	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	0.010	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	0.42	0.10	0.41	0.10	0.45	0.10	0.41	0.10	0.46	0.10	0.50	0.10	0.47	0.10	0.49^	0.10	0.50
Iron	5.0	0.50	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	0.32
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	0.013	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	0.010
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	0.010	ND	0.0020	0.0087	0.0020	0.0024	0.0020	ND	0.0020	ND	0.0020	0.0021	0.0020	0.0024	0.0020	0.0022	0.0020	ND
Nitrogen/Nitrate	10.0	0.10	2.7	0.10	2.6	0.10	1.4	0.10	ND	0.10	1.8	0.10	1.5	0.10	1.5	0.10	1.6	0.10	2.8
Nitrogen/Nitrate, Nitrite	NA	0.20	2.7	0.20	2.6	0.10	1.4	0.10	ND	0.10	1.8	0.10	1.5	0.10	1.5	0.10	1.6	0.20	2.8
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
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.004	ND	0.0040	ND	0.0040	ND
pH	6.5 - 9.0	NA	7.40	NA	7.34	NA	7.51	NA -	7.35	NA	7.20	NA	7.38	NA	7.38	NA	7.55	NA	7.11
Selenium	0.05	0.013	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
Silver	0.05	0.0025	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	89	25	100	50	190	50	250	50	170	50	110	25	120	25	84	25	120
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	980	10	730	10	890	10	890	10	1100	10	870	10	860	10	830	10	850
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.10	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	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0005	ND	0.00050	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	NS	0.0025	ND	0.0025	ND
Temperature	NA	NA	12.05	NA	11.23	NA	11.26	NA	13.08	NA	14.44	NA	13.53	NA	12.60	NA	10.40	NA	12.70
Conductivity	NA	NA	1.58	NA	0.98	NA	0.99	NA	1.04	NA	1.35	NA	1.13	NA	1.07	NA	1.04	NA	0.964
Dissolved Oxygen	NA	NA	8.70	NA	7.42	NA	7.12	NA	7.08	NA	7.13	NA	6.93	NA	8.74	NA	9.16	NA	6.14
Oxidation-Reduction Potential	NA	NA	210.0	NA	-37.0	NA	143.0	NA	210.0	NA	147.0	NA	146.0	NA	112.0	NA	129.5	NA	35.6

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

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

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

Temperature	°C	degrees Celcius
Conductivity	ms/cm²	Millisiemens Centimeters
Dissolved Oxygen	mg/L	milligrams/Liter
ORP	mV	milliVolts

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

Sample: MW-11	Date	6/14/2011		9/14/2011		12/7/2011		3/15/2012		6/19/2012		9/19/2012		12/20/2012		3/5/2013		5/23/2013	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.015	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	0.0050	ND	0.0010	0.0016	0.0010	0.0019	0.0010	0.0017	0.0010	0.0017	0.0010	0.0018	0.0010	0.0018	0.0010	0.0018	0.0010	0.0017
Barium	2.0	0.013	0.051	0.0025	0.054	0.0025	0.057	0.0025	0.067	0.0025	0.046	0.0025	0.060	0.0025	0.063	0.0025	0.060	0.0025	0.045
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	2.2	0.050	1.1	0.050	1.2	0.25	1.4	0.050	0.85	0.050	0.68*	0.050	0.57	0.50	1.1	0.050	0.34
Cadmium	0.005	0.0025	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	280	10	86	10	140	10	240	10	150	10	150	10	140	10	190	10	160
Chromium	0.1	0.025	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	0.0050	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	0.010	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	0.36	0.10	0.32	0.10	0.31	0.10	0.30	0.10	0.37	0.10	0.32	0.10	0.34	0.10	0.29*	0.10	0.38
Iron	5.0	0.50	ND	0.10	ND	0.10	ND	0.10	ND	0.10	0.23	0.10	ND	0.10	0.42	0.10	0.15	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	0.0008	0.00050	ND	0.00050	ND
Manganese	0.15	0.013	ND	0.0025	0.0053	0.0025	0.0047	0.0025	ND	0.0025	0.014	0.0025	ND	0.0025	0.042	0.0025	0.016	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	0.010	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	0.0025	0.0020	0.0020	0.0020	ND
Nitrogen/Nitrate	10.0	0.10	0.92	0.10	0.31	0.10	0.60	0.10	0.30	0.10	ND	0.10	0.36	0.10	0.46	0.10	1.1	0.10	1.4
Nitrogen/Nitrate, Nitrite	NA	0.10	0.92	0.10	0.31	0.10	0.60	0.10	0.30	0.10	ND	0.10	0.36	0.10	0.46	0.10	1.1	0.10	1.4
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
Perchlorate	0.0049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.004	ND	0.0040	ND	0.0040	ND
pH	6.5 - 9.0	NA	7.60	NA	7.38	NA	7.46	NA	7.38	NA	7.37	NA	7.36	NA	7.36	NA	7.60	NA	7.11
Selenium	0.05	0.013	ND	0.0025	0.0026	0.0025	0.0033	0.0025	0.0043	0.0025	0.0028	0.0025	ND	0.0025	ND	0.0025	0.0043	0.0025	0.0034
Silver	0.05	0.0025	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	110	25	110	50	160	25	140	50	150	50	100	50	150	50	110	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
Total Dissolved Solids	1,200	10	710	10	590	10	790	10	850	10	760	10	740	10	730	10	770	10	670
Vanadium	0.049	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0050	0.0050	0.0050	ND
Zinc	5.0	0.10	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	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0005	ND	0.00050	ND	0.00050	ND
BETX	11.705	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0025	NS	0.0025	ND	0.0025	ND
Temperature	NA	NA	11.69	NA	12.18	NA	13.15	NA	14.22	NA	15.30	NA	13.23	NA	12.83	NA	10.60	NA	12.10
Conductivity	NA	NA	1.14	NA	0.79	NA	0.92	NA	1.12	NA	0.97	NA	0.97	NA	0.89	NA	0.96	NA	0.774
Dissolved Oxygen	NA	NA	8.65	NA	6.28	NA	6.74	NA	7.37	NA	7.09	NA	6.71	NA	8.66	NA	7.99	NA	5.38
Oxidation-Reduction Potential	NA	NA	200.8	NA	-31.0	NA	136.0	NA	208.0	NA	172.0	NA	172.0	NA	113.0	NA	167.1	NA	2.4

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

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

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

Temperature	°C	degrees Celcius
Conductivity	ms/cm²	Millisiemens Centimeters
Dissolved Oxygen	mg/L	milligrams/Liter
ORP	mV	milliVolts

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: 500-57389-1
Client Project/Site: Joliet #29 Ash Ponds

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

Attn: Richard Gnat

Authorized for release by:
6/10/2013 11:20:11 AM

Bonnie Stadelmann, Project Manager II
bonnie.stadelmann@testamericainc.com

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

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

Table of Contents

Job ID: 500-57389-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-57389-1

Comments
No additional comments.

Receipt
The samples were received on 5/24/2013 11:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.3° C, 3.4° C and 3.7° C.

GC/MS VOA
No analytical or quality issues were noted.

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

No other analytical or quality issues were noted.

Field Service / Mobile Lab
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Method Summary

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

TestAmerica Job ID: 500-57389-1

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

Sample Summary

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

TestAmerica Job ID: 500-57389-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-57389-1	MW-1	Water	05/23/13 12:40	05/24/13 11:05
500-57389-2	MW-2	Water	05/23/13 11:25	05/24/13 11:05
500-57389-3	MW-3	Water	05/22/13 12:55	05/24/13 11:05
500-57389-4	MW-4	Water	05/22/13 15:03	05/24/13 11:05
500-57389-5	MW-6	Water	05/22/13 16:41	05/24/13 11:05
500-57389-6	MW-7	Water	05/22/13 17:30	05/24/13 11:05
500-57389-7	MW-8	Water	05/23/13 09:17	05/24/13 11:05
500-57389-8	MW-9	Water	05/23/13 10:23	05/24/13 11:05
500-57389-9	MW-10	Water	05/22/13 18:36	05/24/13 11:05
500-57389-10	MW-11	Water	05/23/13 15:08	05/24/13 11:05
500-57389-11	Duplicate	Water	05/23/13 00:00	05/24/13 11:05

Client Sample ID: MW-1
Date Collected: 05/23/13 12:40
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-1
Matrix: Water

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			05/30/13 04:52	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 04:52	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 04:52	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 125*		*05/30/13 04:52*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*05/30/13 04:52*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 120*		*05/30/13 04:52*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*05/30/13 04:52*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/05/13 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0052**		0.0030		mg/L		05/28/13 09:21	06/07/13 11:57	1
Arsenic	**0.0011**		0.0010		mg/L		05/28/13 09:21	06/04/13 17:55	1
Barium	**0.15**		0.0025		mg/L		05/28/13 09:21	06/04/13 17:55	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:42	1
Boron	**0.33**		0.050		mg/L		05/28/13 09:21	06/07/13 15:42	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 17:55	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 17:55	1
Cobalt	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 17:55	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 17:55	1
Iron	<0.10		0.10		mg/L		05/28/13 09:21	06/04/13 17:55	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 17:55	1
Manganese	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 17:55	1
Nickel	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 17:55	1
Selenium	**0.0040**		0.0025		mg/L		05/28/13 09:21	06/04/13 17:55	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 17:55	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 17:55	1
Vanadium	**0.0081**		0.0050		mg/L		05/28/13 09:21	06/04/13 17:55	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 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		05/28/13 16:45	05/29/13 12:08	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/29/13 11:40	05/29/13 15:20	1
Sulfate	**140**		25		mg/L			06/05/13 08:42	5
Chloride	**210**		10		mg/L			05/25/13 14:21	5
Nitrogen, Nitrate	**3.7**		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**700**		10		mg/L			05/27/13 18:30	1
Fluoride	**0.42**		0.10		mg/L			05/25/13 15:08	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:35	1
Nitrogen, Nitrate Nitrite	**3.7**		0.50		mg/L			06/04/13 17:51	5

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

TestAmerica Job ID: 500-57389-1

Client Sample ID: MW-2
Date Collected: 05/23/13 11:25
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-2
Matrix: Water

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			05/30/13 05:17	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 05:17	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 05:17	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 125*		*05/30/13 05:17*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*05/30/13 05:17*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 120*		*05/30/13 05:17*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*05/30/13 05:17*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/05/13 20:02	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		05/28/13 09:21	06/07/13 11:59	1
Arsenic	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 17:57	1
Barium	**0.11**		0.0025		mg/L		05/28/13 09:21	06/04/13 17:57	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:43	1
Boron	**0.35**		0.050		mg/L		05/28/13 09:21	06/07/13 15:43	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 17:57	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 17:57	1
Cobalt	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 17:57	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 17:57	1
Iron	<0.10		0.10		mg/L		05/28/13 09:21	06/04/13 17:57	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 17:57	1
Manganese	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 17:57	1
Nickel	**0.0022**		0.0020		mg/L		05/28/13 09:21	06/04/13 17:57	1
Selenium	**0.0027**		0.0025		mg/L		05/28/13 09:21	06/04/13 17:57	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 17:57	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 17:57	1
Vanadium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 17:57	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 17:57	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 12:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/25/13 13:30	05/25/13 16:45	1
Sulfate	**150**		25		mg/L			06/05/13 08:43	5
Chloride	**250**		10		mg/L			05/25/13 14:21	5
Nitrogen, Nitrate	**3.7**		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**860**		10		mg/L			05/27/13 18:32	1
Fluoride	**0.54**		0.10		mg/L			05/25/13 15:11	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:35	1
Nitrogen, Nitrate Nitrite	**3.7**		0.50		mg/L			06/04/13 17:53	5

Client Sample ID: MW-3
Date Collected: 05/22/13 12:55
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-3
Matrix: Water

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			05/30/13 12:37	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 12:37	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 12:37	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 125*		*05/30/13 12:37*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*05/30/13 12:37*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*		*05/30/13 12:37*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*05/30/13 12:37*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/05/13 20:17	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		05/28/13 09:21	06/07/13 12:03	1
Arsenic	**0.0013**		0.0010		mg/L		05/28/13 09:21	06/04/13 18:00	1
Barium	**0.13**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:00	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:44	1
Boron	**0.74**	V	0.050		mg/L		05/28/13 09:21	06/07/13 15:44	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:00	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:00	1
Cobalt	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 18:00	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:00	1
Iron	<0.10		0.10		mg/L		05/28/13 09:21	06/04/13 18:00	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:00	1
Manganese	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 18:00	1
Nickel	**0.0042**		0.0020		mg/L		05/28/13 09:21	06/04/13 18:00	1
Selenium	**0.022**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:00	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:00	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:00	1
Vanadium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:00	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 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		05/28/13 16:45	05/29/13 12:40	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/25/13 13:30	05/25/13 16:45	1
Sulfate	**250**		50		mg/L			06/05/13 08:44	10
Chloride	**380**		50		mg/L			05/25/13 14:38	25
Nitrogen, Nitrate	**3.6**		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**1300**		10		mg/L			05/27/13 18:35	1
Fluoride	**0.44**		0.10		mg/L			05/25/13 15:14	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:36	1
Nitrogen, Nitrate Nitrite	**3.6**		0.50		mg/L			06/04/13 17:55	5

Client Sample ID: MW-4
Date Collected: 05/22/13 15:03
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-4
Matrix: Water

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			05/30/13 13:02	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 13:02	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 13:02	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 125*		*05/30/13 13:02*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*05/30/13 13:02*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*		*05/30/13 13:02*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*05/30/13 13:02*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/05/13 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.012**		0.0030		mg/L		05/28/13 09:21	06/07/13 12:09	1
Arsenic	**0.0014**		0.0010		mg/L		05/28/13 09:21	06/04/13 18:12	1
Barium	**0.084**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:12	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:51	1
Boron	**0.40**		0.050		mg/L		05/28/13 09:21	06/07/13 15:51	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:12	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:12	1
Cobalt	**0.0012**		0.0010		mg/L		05/28/13 09:21	06/04/13 18:12	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:12	1
Iron	**0.17**		0.10		mg/L		05/28/13 09:21	06/04/13 18:12	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:12	1
Manganese	**0.0081**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:12	1
Nickel	**0.0034**		0.0020		mg/L		05/28/13 09:21	06/04/13 18:12	1
Selenium	**0.0025**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:12	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:12	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:12	1
Vanadium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:12	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 18:12	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 12:42	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/25/13 13:30	05/25/13 16:45	1
Sulfate	**120**		25		mg/L			06/05/13 08:45	5
Chloride	**270**		10		mg/L			05/25/13 14:22	5
Nitrogen, Nitrate	**2.9**		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**900**		10		mg/L			05/27/13 18:37	1
Fluoride	**0.49**		0.10		mg/L			05/25/13 15:17	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:36	1
Nitrogen, Nitrate Nitrite	**2.9**		0.20		mg/L			06/04/13 17:57	2

Client Sample ID: MW-6
Date Collected: 05/22/13 16:41
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-5
Matrix: Water

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			05/30/13 13:26	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 13:26	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 13:26	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 125*		*05/30/13 13:26*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*05/30/13 13:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*		*05/30/13 13:26*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*05/30/13 13:26*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/05/13 21:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0045**		0.0030		mg/L		05/28/13 09:21	06/07/13 12:10	1
Arsenic	**0.0018**		0.0010		mg/L		05/28/13 09:21	06/04/13 18:20	1
Barium	**0.097**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:20	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:52	1
Boron	**0.23**		0.050		mg/L		05/28/13 09:21	06/07/13 15:52	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:20	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:20	1
Cobalt	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 18:20	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:20	1
Iron	<0.10		0.10		mg/L		05/28/13 09:21	06/04/13 18:20	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:20	1
Manganese	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 18:20	1
Nickel	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:20	1
Selenium	**0.0032**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:20	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:20	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:20	1
Vanadium	**0.0056**		0.0050		mg/L		05/28/13 09:21	06/04/13 18:20	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 18:20	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 12:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/25/13 13:30	05/25/13 16:46	1
Sulfate	**96**		25		mg/L			06/05/13 08:46	5
Chloride	**170**		10		mg/L			05/25/13 14:23	5
Nitrogen, Nitrate	**1.7**		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**690**		10		mg/L			05/27/13 18:40	1
Fluoride	**0.43**		0.10		mg/L			05/25/13 15:20	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:36	1
Nitrogen, Nitrate Nitrite	**1.7**		0.10		mg/L			06/04/13 16:07	1

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

TestAmerica Job ID: 500-57389-1

Client Sample ID: MW-7
Date Collected: 05/22/13 17:30
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-6
Matrix: Water

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			05/30/13 13:51	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 13:51	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 13:51	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 125*		*05/30/13 13:51*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*05/30/13 13:51*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 120*		*05/30/13 13:51*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*05/30/13 13:51*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/05/13 21:34	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		05/28/13 09:21	06/07/13 12:12	1
Arsenic	**0.0015**		0.0010		mg/L		05/28/13 09:21	06/04/13 18:23	1
Barium	**0.11**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:23	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:53	1
Boron	**0.21**		0.050		mg/L		05/28/13 09:21	06/07/13 15:53	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:23	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:23	1
Cobalt	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 18:23	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:23	1
Iron	**0.41**		0.10		mg/L		05/28/13 09:21	06/04/13 18:23	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:23	1
Manganese	**0.012**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:23	1
Nickel	**0.0020**		0.0020		mg/L		05/28/13 09:21	06/04/13 18:23	1
Selenium	**0.0026**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:23	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:23	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:23	1
Vanadium	**0.0053**		0.0050		mg/L		05/28/13 09:21	06/04/13 18:23	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 18:23	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 12:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/25/13 13:30	05/25/13 16:46	1
Sulfate	**150**		50		mg/L			06/05/13 08:47	10
Chloride	**170**		10		mg/L			05/25/13 14:23	5
Nitrogen, Nitrate	**1.7**		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**740**		10		mg/L			05/27/13 18:42	1
Fluoride	**0.38**		0.10		mg/L			05/25/13 15:22	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:36	1
Nitrogen, Nitrate Nitrite	**1.7**		0.10		mg/L			06/04/13 16:10	1

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

TestAmerica Job ID: 500-57389-1

Client Sample ID: MW-8
Date Collected: 05/23/13 09:17
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-7
Matrix: Water

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			05/30/13 14:15	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 14:15	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 14:15	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 125*		*05/30/13 14:15*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*05/30/13 14:15*	*1*
4-Bromofluorobenzene (Surr)	*107*		*75 - 120*		*05/30/13 14:15*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*05/30/13 14:15*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/05/13 21:50	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		05/28/13 09:21	06/07/13 12:13	1
Arsenic	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 18:25	1
Barium	**0.057**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:25	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:54	1
Boron	**0.16**		0.050		mg/L		05/28/13 09:21	06/07/13 15:54	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:25	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:25	1
Cobalt	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 18:25	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:25	1
Iron	**0.23**		0.10		mg/L		05/28/13 09:21	06/04/13 18:25	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:25	1
Manganese	**0.0065**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:25	1
Nickel	**0.0034**		0.0020		mg/L		05/28/13 09:21	06/04/13 18:25	1
Selenium	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 18:25	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:25	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:25	1
Vanadium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:25	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 18:25	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 12:48	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/25/13 13:30	05/25/13 16:46	1
Sulfate	**99**		25		mg/L			06/06/13 05:25	5
Chloride	**300**		10		mg/L			05/25/13 14:24	5
Nitrogen, Nitrate	**2.8**		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**860**		10		mg/L			05/27/13 18:45	1
Fluoride	**0.34**		0.10		mg/L			05/25/13 15:34	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:37	1
Nitrogen, Nitrate Nitrite	**2.8**		0.20		mg/L			06/04/13 17:59	2

Client Sample ID: MW-9
Date Collected: 05/23/13 10:23
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-8
Matrix: Water

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			05/30/13 14:40	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 14:40	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 14:40	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 125*		*05/30/13 14:40*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*05/30/13 14:40*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 120*		*05/30/13 14:40*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*05/30/13 14:40*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/05/13 22:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/28/13 09:21	06/07/13 12:14	1
Arsenic	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 18:28	1
Barium	**0.017**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:28	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:55	1
Boron	**0.30**		0.050		mg/L		05/28/13 09:21	06/07/13 15:55	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:28	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:28	1
Cobalt	**0.0076**		0.0010		mg/L		05/28/13 09:21	06/04/13 18:28	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:28	1
Iron	**160**		0.10		mg/L		05/28/13 09:21	06/04/13 18:28	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:28	1
Manganese	**1.6**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:28	1
Nickel	**0.014**		0.0020		mg/L		05/28/13 09:21	06/04/13 18:28	1
Selenium	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 18:28	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:28	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:28	1
Vanadium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:28	1
Zinc	**0.049**		0.020		mg/L		05/28/13 09:21	06/04/13 18:28	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 12:53	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/25/13 13:30	05/25/13 16:47	1
Sulfate	**1300**		500		mg/L			06/06/13 05:26	100
Chloride	**290**		10		mg/L			05/25/13 15:47	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**3000**		13		mg/L			05/27/13 18:47	1
Fluoride	**0.40**		0.10		mg/L			05/25/13 15:37	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:37	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/04/13 16:14	1

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

TestAmerica Job ID: 500-57389-1

Client Sample ID: MW-10
Date Collected: 05/22/13 18:36
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-9
Matrix: Water

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			05/30/13 15:04	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 15:04	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 15:04	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 125*		*05/30/13 15:04*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*05/30/13 15:04*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 120*		*05/30/13 15:04*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*05/30/13 15:04*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/06/13 21:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/28/13 09:21	06/07/13 12:18	1
Arsenic	**0.0011**		0.0010		mg/L		05/28/13 09:21	06/04/13 18:30	1
Barium	**0.041**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:30	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:56	1
Boron	**0.25**		0.050		mg/L		05/28/13 09:21	06/07/13 15:56	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:30	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:30	1
Cobalt	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 18:30	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:30	1
Iron	**0.32**		0.10		mg/L		05/28/13 09:21	06/04/13 18:30	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:30	1
Manganese	**0.010**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:30	1
Nickel	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:30	1
Selenium	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 18:30	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:30	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:30	1
Vanadium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:30	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 18:30	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 12:55	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/25/13 13:30	05/25/13 16:47	1
Sulfate	**120**		25		mg/L			06/06/13 05:27	5
Chloride	**240**		10		mg/L			05/25/13 15:47	5
Nitrogen, Nitrate	**2.8**		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**850**		10		mg/L			05/27/13 18:50	1
Fluoride	**0.50**		0.10		mg/L			05/25/13 15:40	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:38	1
Nitrogen, Nitrate Nitrite	**2.8**		0.20		mg/L			06/04/13 18:00	2

Client Sample ID: MW-11
Date Collected: 05/23/13 15:08
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-10
Matrix: Water

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			05/30/13 15:29	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 15:29	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 15:29	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 125*		*05/30/13 15:29*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*05/30/13 15:29*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*		*05/30/13 15:29*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*05/30/13 15:29*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/06/13 21:35	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		05/28/13 09:21	06/07/13 12:19	1
Arsenic	**0.0017**		0.0010		mg/L		05/28/13 09:21	06/04/13 18:33	1
Barium	**0.045**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:33	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:56	1
Boron	**0.34**		0.050		mg/L		05/28/13 09:21	06/07/13 15:56	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:33	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:33	1
Cobalt	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 18:33	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:33	1
Iron	<0.10		0.10		mg/L		05/28/13 09:21	06/04/13 18:33	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:33	1
Manganese	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 18:33	1
Nickel	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:33	1
Selenium	**0.0034**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:33	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:33	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:33	1
Vanadium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:33	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 18:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 12:57	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/29/13 11:40	05/29/13 15:20	1
Sulfate	**100**		25		mg/L			06/06/13 05:28	5
Chloride	**160**		10		mg/L			05/25/13 15:48	5
Nitrogen, Nitrate	**1.4**		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**670**		10		mg/L			05/27/13 18:52	1
Fluoride	**0.38**		0.10		mg/L			05/25/13 15:43	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:38	1
Nitrogen, Nitrate Nitrite	**1.4**		0.10		mg/L			06/04/13 16:18	1

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

TestAmerica Job ID: 500-57389-1

Client Sample ID: Duplicate
Date Collected: 05/23/13 00:00
Date Received: 05/24/13 11:05

Lab Sample ID: 500-57389-11
Matrix: Water

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			05/30/13 15:53	1
Toluene	<0.00050		0.00050		mg/L			05/30/13 15:53	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/30/13 15:53	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/30/13 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 125*		*05/30/13 15:53*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*05/30/13 15:53*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 120*		*05/30/13 15:53*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*05/30/13 15:53*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/06/13 21:51	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		05/28/13 09:21	06/07/13 12:21	1
Arsenic	**0.0016**		0.0010		mg/L		05/28/13 09:21	06/04/13 18:35	1
Barium	**0.045**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:35	1
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:57	1
Boron	**0.32**		0.050		mg/L		05/28/13 09:21	06/07/13 15:57	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:35	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:35	1
Cobalt	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 18:35	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:35	1
Iron	<0.10		0.10		mg/L		05/28/13 09:21	06/04/13 18:35	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:35	1
Manganese	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 18:35	1
Nickel	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:35	1
Selenium	**0.0032**		0.0025		mg/L		05/28/13 09:21	06/04/13 18:35	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 18:35	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 18:35	1
Vanadium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 18:35	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 18:35	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 12:59	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/29/13 11:40	05/29/13 15:21	1
Sulfate	**100**		25		mg/L			06/06/13 05:29	5
Chloride	**170**		10		mg/L			05/25/13 15:48	5
Nitrogen, Nitrate	**1.4**		0.10		mg/L			06/05/13 18:20	1
Total Dissolved Solids	**650**		10		mg/L			05/27/13 18:55	1
Fluoride	**0.38**		0.10		mg/L			05/25/13 15:45	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:38	1
Nitrogen, Nitrate Nitrite	**1.4**		0.10		mg/L			06/04/13 16:21	1

Qualifiers

Metals

Qualifier	Qualifier Description
V	Serial Dilution exceeds he control limits

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ra io
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the rela ive difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Analysis Batch: 187836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Total/NA	Water	8260B	
500-57389-1 MS	MW-1	Total/NA	Water	8260B	
500-57389-1 MSD	MW-1	Total/NA	Water	8260B	
500-57389-2	MW-2	Total/NA	Water	8260B	
LCS 500-187836/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-187836/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 187907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-3	MW-3	Total/NA	Water	8260B	
500-57389-4	MW-4	Total/NA	Water	8260B	
500-57389-5	MW-6	Total/NA	Water	8260B	
500-57389-6	MW-7	Total/NA	Water	8260B	
500-57389-7	MW-8	Total/NA	Water	8260B	
500-57389-8	MW-9	Total/NA	Water	8260B	
500-57389-9	MW-10	Total/NA	Water	8260B	
500-57389-10	MW-11	Total/NA	Water	8260B	
500-57389-11	Duplicate	Total/NA	Water	8260B	
LCS 500-187907/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-187907/6	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 17771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Total/NA	Water	314.0	
500-57389-2	MW-2	Total/NA	Water	314.0	
500-57389-3	MW-3	Total/NA	Water	314.0	
500-57389-4	MW-4	Total/NA	Water	314.0	
500-57389-5	MW-6	Total/NA	Water	314.0	
500-57389-6	MW-7	Total/NA	Water	314.0	
500-57389-7	MW-8	Total/NA	Water	314.0	
500-57389-8	MW-9	Total/NA	Water	314.0	
LCS 320-17771/8	Lab Control Sample	Total/NA	Water	314.0	
MB 320-17771/7	Method Blank	Total/NA	Water	314.0	
MRL 320-17771/6 MRL	Lab Control Sample	Total/NA	Water	314.0	

Analysis Batch: 17834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-9	MW-10	Total/NA	Water	314.0	
500-57389-10	MW-11	Total/NA	Water	314.0	
500-57389-11	Duplicate	Total/NA	Water	314.0	
LCS 320-17834/8	Lab Control Sample	Total/NA	Water	314.0	
MB 320-17834/7	Method Blank	Total/NA	Water	314.0	
MRL 320-17834/6 MRL	Lab Control Sample	Total/NA	Water	314.0	

Metals

Prep Batch: 187641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	Soluble Metals	
500-57389-2	MW-2	Dissolved	Water	Soluble Metals	
500-57389-3	MW-3	Dissolved	Water	Soluble Metals	
500-57389-3 DU	MW-3	Dissolved	Water	Soluble Metals	
500-57389-3 MS	MW-3	Dissolved	Water	Soluble Metals	
500-57389-3 MSD	MW-3	Dissolved	Water	Soluble Metals	
500-57389-4	MW-4	Dissolved	Water	Soluble Metals	
500-57389-5	MW-6	Dissolved	Water	Soluble Metals	
500-57389-6	MW-7	Dissolved	Water	Soluble Metals	
500-57389-7	MW-8	Dissolved	Water	Soluble Metals	
500-57389-8	MW-9	Dissolved	Water	Soluble Metals	
500-57389-9	MW-10	Dissolved	Water	Soluble Metals	
500-57389-10	MW-11	Dissolved	Water	Soluble Metals	
500-57389-11	Duplicate	Dissolved	Water	Soluble Metals	
LCS 500-187641/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	
MB 500-187641/1-A	Method Blank	Soluble	Water	Soluble Metals	

Prep Batch: 187673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	7470A	
LCS 500-187673/8-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-187673/7-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 187674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-2	MW-2	Dissolved	Water	7470A	
500-57389-3	MW-3	Dissolved	Water	7470A	
500-57389-4	MW-4	Dissolved	Water	7470A	
500-57389-5	MW-6	Dissolved	Water	7470A	
500-57389-6	MW-7	Dissolved	Water	7470A	
500-57389-7	MW-8	Dissolved	Water	7470A	
500-57389-8	MW-9	Dissolved	Water	7470A	
500-57389-9	MW-10	Dissolved	Water	7470A	
500-57389-10	MW-11	Dissolved	Water	7470A	
500-57389-11	Duplicate	Dissolved	Water	7470A	
LCS 500-187674/8-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-187674/7-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 187831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	7470A	187673
500-57389-2	MW-2	Dissolved	Water	7470A	187674
500-57389-3	MW-3	Dissolved	Water	7470A	187674
500-57389-4	MW-4	Dissolved	Water	7470A	187674
500-57389-5	MW-6	Dissolved	Water	7470A	187674
500-57389-6	MW-7	Dissolved	Water	7470A	187674
500-57389-7	MW-8	Dissolved	Water	7470A	187674
500-57389-8	MW-9	Dissolved	Water	7470A	187674
500-57389-9	MW-10	Dissolved	Water	7470A	187674
500-57389-10	MW-11	Dissolved	Water	7470A	187674
500-57389-11	Duplicate	Dissolved	Water	7470A	187674

Metals (Continued)

Analysis Batch: 187831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-187673/8-A	Lab Control Sample	Total/NA	Water	7470A	187673
LCS 500-187674/8-A	Lab Control Sample	Total/NA	Water	7470A	187674
MB 500-187673/7-A	Method Blank	Total/NA	Water	7470A	187673
MB 500-187674/7-A	Method Blank	Total/NA	Water	7470A	187674

Analysis Batch: 188650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	6020A	187641
500-57389-2	MW-2	Dissolved	Water	6020A	187641
500-57389-3	MW-3	Dissolved	Water	6020A	187641
500-57389-3 DU	MW-3	Dissolved	Water	6020A	187641
500-57389-3 MS	MW-3	Dissolved	Water	6020A	187641
500-57389-3 MSD	MW-3	Dissolved	Water	6020A	187641
500-57389-4	MW-4	Dissolved	Water	6020A	187641
500-57389-5	MW-6	Dissolved	Water	6020A	187641
500-57389-6	MW-7	Dissolved	Water	6020A	187641
500-57389-7	MW-8	Dissolved	Water	6020A	187641
500-57389-8	MW-9	Dissolved	Water	6020A	187641
500-57389-9	MW-10	Dissolved	Water	6020A	187641
500-57389-10	MW-11	Dissolved	Water	6020A	187641
500-57389-11	Duplicate	Dissolved	Water	6020A	187641
LCS 500-187641/2-A	Lab Control Sample	Soluble	Water	6020A	187641
MB 500-187641/1-A	Method Blank	Soluble	Water	6020A	187641

Analysis Batch: 189019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	6020A	187641
500-57389-2	MW-2	Dissolved	Water	6020A	187641
500-57389-3	MW-3	Dissolved	Water	6020A	187641
500-57389-3 DU	MW-3	Dissolved	Water	6020A	187641
500-57389-3 MS	MW-3	Dissolved	Water	6020A	187641
500-57389-3 MSD	MW-3	Dissolved	Water	6020A	187641
500-57389-4	MW-4	Dissolved	Water	6020A	187641
500-57389-5	MW-6	Dissolved	Water	6020A	187641
500-57389-6	MW-7	Dissolved	Water	6020A	187641
500-57389-7	MW-8	Dissolved	Water	6020A	187641
500-57389-8	MW-9	Dissolved	Water	6020A	187641
500-57389-9	MW-10	Dissolved	Water	6020A	187641
500-57389-10	MW-11	Dissolved	Water	6020A	187641
500-57389-11	Duplicate	Dissolved	Water	6020A	187641
LCS 500-187641/2-A	Lab Control Sample	Soluble	Water	6020A	187641
MB 500-187641/1-A	Method Blank	Soluble	Water	6020A	187641

Analysis Batch: 189119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	6020A	187641
500-57389-2	MW-2	Dissolved	Water	6020A	187641
500-57389-3	MW-3	Dissolved	Water	6020A	187641
500-57389-3 DU	MW-3	Dissolved	Water	6020A	187641
500-57389-3 MS	MW-3	Dissolved	Water	6020A	187641
500-57389-3 MSD	MW-3	Dissolved	Water	6020A	187641

Metals (Continued)

Analysis Batch: 189119 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-4	MW-4	Dissolved	Water	6020A	187641
500-57389-5	MW-6	Dissolved	Water	6020A	187641
500-57389-6	MW-7	Dissolved	Water	6020A	187641
500-57389-7	MW-8	Dissolved	Water	6020A	187641
500-57389-8	MW-9	Dissolved	Water	6020A	187641
500-57389-9	MW-10	Dissolved	Water	6020A	187641
500-57389-10	MW-11	Dissolved	Water	6020A	187641
500-57389-11	Duplicate	Dissolved	Water	6020A	187641
LCS 500-187641/2-A	Lab Control Sample	Soluble	Water	6020A	187641
MB 500-187641/1-A	Method Blank	Soluble	Water	6020A	187641

General Chemistry

Prep Batch: 187501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-2	MW-2	Dissolved	Water	9010B	
500-57389-3	MW-3	Dissolved	Water	9010B	
500-57389-4	MW-4	Dissolved	Water	9010B	
500-57389-5	MW-6	Dissolved	Water	9010B	
500-57389-6	MW-7	Dissolved	Water	9010B	
500-57389-7	MW-8	Dissolved	Water	9010B	
500-57389-8	MW-9	Dissolved	Water	9010B	
500-57389-9	MW-10	Dissolved	Water	9010B	
LCS 500-187501/2-A	Lab Control Sample	Total/NA	Water	9010B	
MB 500-187501/1-A	Method Blank	Total/NA	Water	9010B	

Analysis Batch: 187514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	9251	
500-57389-2	MW-2	Dissolved	Water	9251	
500-57389-3	MW-3	Dissolved	Water	9251	
500-57389-4	MW-4	Dissolved	Water	9251	
500-57389-5	MW-6	Dissolved	Water	9251	
500-57389-6	MW-7	Dissolved	Water	9251	
500-57389-7	MW-8	Dissolved	Water	9251	
500-57389-7 MS	MW-8	Dissolved	Water	9251	
500-57389-7 MSD	MW-8	Dissolved	Water	9251	
LCS 500-187514/5	Lab Control Sample	Total/NA	Water	9251	
MB 500-187514/4	Method Blank	Total/NA	Water	9251	

Analysis Batch: 187526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-8	MW-9	Dissolved	Water	9251	
500-57389-9	MW-10	Dissolved	Water	9251	
500-57389-10	MW-11	Dissolved	Water	9251	
500-57389-11	Duplicate	Dissolved	Water	9251	
LCS 500-187526/41	Lab Control Sample	Total/NA	Water	9251	
MB 500-187526/40	Method Blank	Total/NA	Water	9251	

General Chemistry (Continued)

Analysis Batch: 187533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	SM 4500 F C	
500-57389-2	MW-2	Dissolved	Water	SM 4500 F C	
500-57389-3	MW-3	Dissolved	Water	SM 4500 F C	
500-57389-4	MW-4	Dissolved	Water	SM 4500 F C	
500-57389-5	MW-6	Dissolved	Water	SM 4500 F C	
500-57389-6	MW-7	Dissolved	Water	SM 4500 F C	
500-57389-7	MW-8	Dissolved	Water	SM 4500 F C	
500-57389-8	MW-9	Dissolved	Water	SM 4500 F C	
500-57389-9	MW-10	Dissolved	Water	SM 4500 F C	
500-57389-10	MW-11	Dissolved	Water	SM 4500 F C	
500-57389-11	Duplicate	Dissolved	Water	SM 4500 F C	
LCS 500-187533/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-187533/3	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 187534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-2	MW-2	Dissolved	Water	9014	187501
500-57389-3	MW-3	Dissolved	Water	9014	187501
500-57389-4	MW-4	Dissolved	Water	9014	187501
500-57389-5	MW-6	Dissolved	Water	9014	187501
500-57389-6	MW-7	Dissolved	Water	9014	187501
500-57389-7	MW-8	Dissolved	Water	9014	187501
500-57389-8	MW-9	Dissolved	Water	9014	187501
500-57389-9	MW-10	Dissolved	Water	9014	187501
LCS 500-187501/2-A	Lab Control Sample	Total/NA	Water	9014	187501
MB 500-187501/1-A	Method Blank	Total/NA	Water	9014	187501

Analysis Batch: 187594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	SM 2540C	
500-57389-2	MW-2	Dissolved	Water	SM 2540C	
500-57389-3	MW-3	Dissolved	Water	SM 2540C	
500-57389-4	MW-4	Dissolved	Water	SM 2540C	
500-57389-5	MW-6	Dissolved	Water	SM 2540C	
500-57389-6	MW-7	Dissolved	Water	SM 2540C	
500-57389-7	MW-8	Dissolved	Water	SM 2540C	
500-57389-8	MW-9	Dissolved	Water	SM 2540C	
500-57389-9	MW-10	Dissolved	Water	SM 2540C	
500-57389-10	MW-11	Dissolved	Water	SM 2540C	
500-57389-11	Duplicate	Dissolved	Water	SM 2540C	
LCS 500-187594/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-187594/1	Method Blank	Total/NA	Water	SM 2540C	

Prep Batch: 187787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	9010B	
500-57389-10	MW-11	Dissolved	Water	9010B	
500-57389-11	Duplicate	Dissolved	Water	9010B	
LCS 500-187787/15-A	Lab Control Sample	Total/NA	Water	9010B	
MB 500-187787/14-A	Method Blank	Total/NA	Water	9010B	

General Chemistry (Continued)

Analysis Batch: 187866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	9014	187787
500-57389-10	MW-11	Dissolved	Water	9014	187787
500-57389-11	Duplicate	Dissolved	Water	9014	187787
LCS 500-187787/15-A	Lab Control Sample	Total/NA	Water	9014	187787
MB 500-187787/14-A	Method Blank	Total/NA	Water	9014	187787

Analysis Batch: 187894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	SM 4500 NO2 B	
500-57389-1 MS	MW-1	Dissolved	Water	SM 4500 NO2 B	
500-57389-1 MSD	MW-1	Dissolved	Water	SM 4500 NO2 B	
500-57389-2	MW-2	Dissolved	Water	SM 4500 NO2 B	
500-57389-3	MW-3	Dissolved	Water	SM 4500 NO2 B	
500-57389-4	MW-4	Dissolved	Water	SM 4500 NO2 B	
500-57389-5	MW-6	Dissolved	Water	SM 4500 NO2 B	
500-57389-6	MW-7	Dissolved	Water	SM 4500 NO2 B	
500-57389-7	MW-8	Dissolved	Water	SM 4500 NO2 B	
500-57389-8	MW-9	Dissolved	Water	SM 4500 NO2 B	
500-57389-9	MW-10	Dissolved	Water	SM 4500 NO2 B	
500-57389-10	MW-11	Dissolved	Water	SM 4500 NO2 B	
500-57389-11	Duplicate	Dissolved	Water	SM 4500 NO2 B	
LCS 500-187894/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-187894/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 188540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	SM 4500 NO3 F	
500-57389-2	MW-2	Dissolved	Water	SM 4500 NO3 F	
500-57389-3	MW-3	Dissolved	Water	SM 4500 NO3 F	
500-57389-4	MW-4	Dissolved	Water	SM 4500 NO3 F	
500-57389-5	MW-6	Dissolved	Water	SM 4500 NO3 F	
500-57389-6	MW-7	Dissolved	Water	SM 4500 NO3 F	
500-57389-7	MW-8	Dissolved	Water	SM 4500 NO3 F	
500-57389-8	MW-9	Dissolved	Water	SM 4500 NO3 F	
500-57389-9	MW-10	Dissolved	Water	SM 4500 NO3 F	
500-57389-10	MW-11	Dissolved	Water	SM 4500 NO3 F	
500-57389-11	Duplicate	Dissolved	Water	SM 4500 NO3 F	
500-57389-11 MS	Duplicate	Dissolved	Water	SM 4500 NO3 F	
500-57389-11 MSD	Duplicate	Dissolved	Water	SM 4500 NO3 F	
LCS 500-188540/13	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-188540/12	Method Blank	Total/NA	Water	SM 4500 NO3 F	

Analysis Batch: 188731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	Nitrate by calc	
500-57389-2	MW-2	Dissolved	Water	Nitrate by calc	
500-57389-3	MW-3	Dissolved	Water	Nitrate by calc	
500-57389-4	MW-4	Dissolved	Water	Nitrate by calc	
500-57389-5	MW-6	Dissolved	Water	Nitrate by calc	
500-57389-6	MW-7	Dissolved	Water	Nitrate by calc	
500-57389-7	MW-8	Dissolved	Water	Nitrate by calc	

General Chemistry (Continued)

Analysis Batch: 188731 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-8	MW-9	Dissolved	Water	Nitrate by calc	
500-57389-9	MW-10	Dissolved	Water	Nitrate by calc	
500-57389-10	MW-11	Dissolved	Water	Nitrate by calc	
500-57389-11	Duplicate	Dissolved	Water	Nitrate by calc	

Analysis Batch: 188748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-1	MW-1	Dissolved	Water	9038	
500-57389-2	MW-2	Dissolved	Water	9038	
500-57389-3	MW-3	Dissolved	Water	9038	
500-57389-4	MW-4	Dissolved	Water	9038	
500-57389-5	MW-6	Dissolved	Water	9038	
500-57389-6	MW-7	Dissolved	Water	9038	
LCS 500-188748/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-188748/3	Method Blank	Total/NA	Water	9038	

Analysis Batch: 188905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57389-7	MW-8	Dissolved	Water	9038	
500-57389-8	MW-9	Dissolved	Water	9038	
500-57389-9	MW-10	Dissolved	Water	9038	
500-57389-10	MW-11	Dissolved	Water	9038	
500-57389-11	Duplicate	Dissolved	Water	9038	
LCS 500-188905/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-188905/3	Method Blank	Total/NA	Water	9038	

Surrogate Summary

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

TestAmerica Job ID: 500-57389-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (75-125)	TOL (75-120)	BFB (75-120)	DBFM (75-120)
500-57389-1	MW-1	88	102	110	88
500-57389-1 MS	MW-1	85	96	105	93
500-57389-1 MSD	MW-1	87	97	103	94
500-57389-2	MW-2	88	102	110	87
500-57389-3	MW-3	86	99	107	90
500-57389-4	MW-4	90	97	106	91
500-57389-5	MW-6	91	96	107	91
500-57389-6	MW-7	88	96	108	92
500-57389-7	MW-8	84	99	107	87
500-57389-8	MW-9	90	97	109	91
500-57389-9	MW-10	89	98	109	91
500-57389-10	MW-11	90	99	105	91
500-57389-11	Duplicate	86	98	110	87
LCS 500-187836/4	Lab Control Sample	85	100	106	92
LCS 500-187907/4	Lab Control Sample	85	97	103	90
MB 500-187836/6	Method Blank	93	102	116	92
MB 500-187907/6	Method Blank	86	96	104	88

Surrogate Legend

12DCE = 1,2-Dichloroe hane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

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

Lab Sample ID: MB 500-187836/6
Matrix: Water
Analysis Batch: 187836

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			05/29/13 23:57	1
Toluene	<0.00050		0.00050		mg/L			05/29/13 23:57	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/29/13 23:57	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/29/13 23:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 125*		*05/29/13 23:57*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*05/29/13 23:57*	*1*
4-Bromofluorobenzene (Surr)	*116*		*75 - 120*		*05/29/13 23:57*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*05/29/13 23:57*	*1*

Lab Sample ID: LCS 500-187836/4
Matrix: Water
Analysis Batch: 187836

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	0.0456		mg/L		91	70 - 120
Toluene	0.0500	0.0508		mg/L		102	70 - 120
Ethylbenzene	0.0500	0.0479		mg/L		96	75 - 120
Xylenes, Total	0.100	0.0922		mg/L		92	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 125*
Toluene-d8 (Surr)	*100*		*75 - 120*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*
Dibromofluoromethane	*92*		*75 - 120*

Lab Sample ID: 500-57389-1 MS
Matrix: Water
Analysis Batch: 187836

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00050		0.0500	0.0462		mg/L		92	70 - 120
Toluene	<0.00050		0.0500	0.0494		mg/L		99	70 - 120
Ethylbenzene	<0.00050		0.0500	0.0477		mg/L		95	75 - 120
Xylenes, Total	<0.0010		0.100	0.0920		mg/L		92	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 125*
Toluene-d8 (Surr)	*96*		*75 - 120*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*
Dibromofluoromethane	*93*		*75 - 120*

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

Lab Sample ID: 500-57389-1 MSD
Matrix: Water
Analysis Batch: 187836

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0 00050		0 0500	0 0467		mg/L		93	70 - 120	1	20
Toluene	<0 00050		0 0500	0 0492		mg/L		98	70 - 120	0	20
Ethylbenzene	<0 00050		0 0500	0 0487		mg/L		97	75 - 120	2	20
Xylenes, Total	<0 0010		0 100	0 0938		mg/L		94	70 - 120	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 125*
Toluene-d8 (Surr)	*97*		*75 - 120*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*
Dibromofluoromethane	*94*		*75 - 120*

Lab Sample ID: MB 500-187907/6
Matrix: Water
Analysis Batch: 187907

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			05/30/13 10 21	1
Toluene	<0 00050		0 00050		mg/L			05/30/13 10 21	1
Ethylbenzene	<0 00050		0 00050		mg/L			05/30/13 10 21	1
Xylenes, Total	<0 0010		0 0010		mg/L			05/30/13 10 21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 125*		*05/30/13 10 21*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*05/30/13 10 21*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*		*05/30/13 10 21*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*05/30/13 10 21*	*1*

Lab Sample ID: LCS 500-187907/4
Matrix: Water
Analysis Batch: 187907

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 0484		mg/L		97	70 - 120
Toluene	0 0500	0 0524		mg/L		105	70 - 120
Ethylbenzene	0 0500	0 0511		mg/L		102	75 - 120
Xylenes, Total	0 100	0 0989		mg/L		99	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 125*
Toluene-d8 (Surr)	*97*		*75 - 120*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*
Dibromofluoromethane	*90*		*75 - 120*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-17771/7
Matrix: Water
Analysis Batch: 17771

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			06/05/13 15:09	1

Lab Sample ID: LCS 320-17771/8
Matrix: Water
Analysis Batch: 17771

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	0.0513		mg/L		103	85 - 115

Lab Sample ID: MRL 320-17771/6 MRL
Matrix: Water
Analysis Batch: 17771

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		99	75 - 125

Lab Sample ID: MB 320-17834/7
Matrix: Water
Analysis Batch: 17834

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			06/06/13 14:24	1

Lab Sample ID: LCS 320-17834/8
Matrix: Water
Analysis Batch: 17834

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	0.0504		mg/L		101	85 - 115

Lab Sample ID: MRL 320-17834/6 MRL
Matrix: Water
Analysis Batch: 17834

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	4.08		ug/L		102	75 - 125

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 500-57389-3 MS
Matrix: Water
Analysis Batch: 188650

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 187641

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0013		0.100	0.115		mg/L		114	75 - 125
Barium	0.13		0.500	0.618		mg/L		98	75 - 125
Cadmium	<0.00050		0.0500	0.0490		mg/L		98	75 - 125
Chromium	<0.0050		0.200	0.204		mg/L		100	75 - 125
Cobalt	<0.0010		0.500	0.487		mg/L		97	75 - 125

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

Lab Sample ID: 500-57389-3 MS
Matrix: Water
Analysis Batch: 188650

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 187641

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	<0.0020		0.250	0.252		mg/L		101	75 - 125
Iron	<0.10		1.00	0.998		mg/L		100	75 - 125
Lead	<0.00050		0.100	0.102		mg/L		102	75 - 125
Manganese	<0.0025		0.500	0.497		mg/L		99	75 - 125
Nickel	0.0042		0.500	0.487		mg/L		96	75 - 125
Selenium	0.022		0.100	0.142		mg/L		120	75 - 125
Silver	<0.00050		0.0500	0.0407		mg/L		81	75 - 125
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125
Vanadium	<0.0050		0.500	0.517		mg/L		103	75 - 125
Zinc	<0.020		0.500	0.518		mg/L		104	75 - 125

Lab Sample ID: 500-57389-3 MS
Matrix: Water
Analysis Batch: 189019

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 187641

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030		0.500	0.443		mg/L		89	75 - 125

Lab Sample ID: 500-57389-3 MS
Matrix: Water
Analysis Batch: 189119

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 187641

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	<0.0010		0.0500	0.0494		mg/L		99	75 - 125
Boron	0.74	V	1.00	1.78		mg/L		104	75 - 125

Lab Sample ID: 500-57389-3 MSD
Matrix: Water
Analysis Batch: 188650

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 187641

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0013		0.100	0.119		mg/L		118	75 - 125	3	20
Barium	0.13		0.500	0.636		mg/L		101	75 - 125	3	20
Cadmium	<0.00050		0.0500	0.0520		mg/L		104	75 - 125	6	20
Chromium	<0.0050		0.200	0.208		mg/L		103	75 - 125	2	20
Cobalt	<0.0010		0.500	0.496		mg/L		99	75 - 125	2	20
Copper	<0.0020		0.250	0.260		mg/L		103	75 - 125	3	20
Iron	<0.10		1.00	1.02		mg/L		102	75 - 125	2	20
Lead	<0.00050		0.100	0.105		mg/L		105	75 - 125	3	20
Manganese	<0.0025		0.500	0.512		mg/L		102	75 - 125	3	20
Nickel	0.0042		0.500	0.497		mg/L		99	75 - 125	2	20
Selenium	0.022		0.100	0.144		mg/L		121	75 - 125	1	20
Silver	<0.00050		0.0500	0.0414		mg/L		83	75 - 125	2	20
Thallium	<0.0020		0.100	0.107		mg/L		107	75 - 125	2	20
Vanadium	<0.0050		0.500	0.528		mg/L		105	75 - 125	2	20
Zinc	<0.020		0.500	0.535		mg/L		107	75 - 125	3	20

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

Lab Sample ID: 500-57389-3 MSD
Matrix: Water
Analysis Batch: 189019

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 187641

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.470		mg/L		94	75 - 125	6	20

Lab Sample ID: 500-57389-3 MSD
Matrix: Water
Analysis Batch: 189119

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 187641

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	<0.0010		0.0500	0.0487		mg/L		97	75 - 125	1	20
Boron	0.74	V	1.00	1.80		mg/L		106	75 - 125	1	20

Lab Sample ID: 500-57389-3 DU
Matrix: Water
Analysis Batch: 188650

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 187641

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0013		0.00132		mg/L		4	20
Barium	0.13		0.129		mg/L		1	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Copper	<0.0020		<0.0020		mg/L		NC	20
Iron	<0.10		<0.10		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Manganese	<0.0025		<0.0025		mg/L		NC	20
Nickel	0.0042		0.00403		mg/L		4	20
Selenium	0.022		0.0214		mg/L		3	20
Silver	<0.00050		<0.00050		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20
Vanadium	<0.0050		<0.0050		mg/L		NC	20
Zinc	<0.020		<0.020		mg/L		NC	20

Lab Sample ID: 500-57389-3 DU
Matrix: Water
Analysis Batch: 189019

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 187641

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

Lab Sample ID: 500-57389-3 DU
Matrix: Water
Analysis Batch: 189119

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 187641

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.74	V	0.738		mg/L		0.8	20

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

Lab Sample ID: MB 500-187641/1-A
Matrix: Water
Analysis Batch: 188650

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 187641

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 17:50	1
Barium	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 17:50	1
Cadmium	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 17:50	1
Chromium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 17:50	1
Cobalt	<0.0010		0.0010		mg/L		05/28/13 09:21	06/04/13 17:50	1
Copper	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 17:50	1
Iron	<0.10		0.10		mg/L		05/28/13 09:21	06/04/13 17:50	1
Lead	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 17:50	1
Manganese	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 17:50	1
Nickel	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 17:50	1
Selenium	<0.0025		0.0025		mg/L		05/28/13 09:21	06/04/13 17:50	1
Silver	<0.00050		0.00050		mg/L		05/28/13 09:21	06/04/13 17:50	1
Thallium	<0.0020		0.0020		mg/L		05/28/13 09:21	06/04/13 17:50	1
Vanadium	<0.0050		0.0050		mg/L		05/28/13 09:21	06/04/13 17:50	1
Zinc	<0.020		0.020		mg/L		05/28/13 09:21	06/04/13 17:50	1

Lab Sample ID: MB 500-187641/1-A
Matrix: Water
Analysis Batch: 189019

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 187641

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/28/13 09:21	06/07/13 11:55	1

Lab Sample ID: MB 500-187641/1-A
Matrix: Water
Analysis Batch: 189119

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 187641

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010		mg/L		05/28/13 09:21	06/07/13 15:40	1
Boron	<0.050		0.050		mg/L		05/28/13 09:21	06/07/13 15:40	1

Lab Sample ID: LCS 500-187641/2-A
Matrix: Water
Analysis Batch: 188650

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 187641

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0991		mg/L		99	80 - 120
Barium	0.500	0.504		mg/L		101	80 - 120
Cadmium	0.0500	0.0516		mg/L		103	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.488		mg/L		98	80 - 120
Copper	0.250	0.253		mg/L		101	80 - 120
Iron	1.00	0.960		mg/L		96	80 - 120
Lead	0.100	0.0987		mg/L		99	80 - 120
Manganese	0.500	0.491		mg/L		98	80 - 120
Nickel	0.500	0.498		mg/L		100	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Silver	0.0500	0.0501		mg/L		100	80 - 120
Thallium	0.100	0.0994		mg/L		99	80 - 120

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

Lab Sample ID: LCS 500-187641/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Soluble**
Analysis Batch: 188650 — **Prep Batch: 187641**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	0.500	0.484		mg/L		97	80 - 120
Zinc	0.500	0.511		mg/L		102	80 - 120

Lab Sample ID: LCS 500-187641/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Soluble**
Analysis Batch: 189019 — **Prep Batch: 187641**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.451		mg/L		90	80 - 120

Lab Sample ID: LCS 500-187641/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Soluble**
Analysis Batch: 189119 — **Prep Batch: 187641**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.0500	0.0463		mg/L		93	80 - 120
Boron	1.00	0.998		mg/L		100	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-187673/7-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 187831 — **Prep Batch: 187673**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 11:13	1

Lab Sample ID: LCS 500-187673/8-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 187831 — **Prep Batch: 187673**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00206		mg/L		103	80 - 120

Lab Sample ID: MB 500-187674/7-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 187831 — **Prep Batch: 187674**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/28/13 16:45	05/29/13 12:12	1

Lab Sample ID: LCS 500-187674/8-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 187831 — **Prep Batch: 187674**

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

Method: 9014 - Cyanide

Lab Sample ID: MB 500-187501/1-A
Matrix: Water
Analysis Batch: 187534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/25/13 13:30	05/25/13 16:40	1

Lab Sample ID: LCS 500-187501/2-A
Matrix: Water
Analysis Batch: 187534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: MB 500-187787/14-A
Matrix: Water
Analysis Batch: 187866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 187787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/29/13 11:40	05/29/13 15:18	1

Lab Sample ID: LCS 500-187787/15-A
Matrix: Water
Analysis Batch: 187866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 187787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.0973		mg/L		97	80 - 120

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-188748/3
Matrix: Water
Analysis Batch: 188748

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			06/05/13 08:26	1

Lab Sample ID: LCS 500-188748/4
Matrix: Water
Analysis Batch: 188748

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	19.8		mg/L		99	80 - 120

Lab Sample ID: MB 500-188905/3
Matrix: Water
Analysis Batch: 188905

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			06/06/13 05:23	1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: LCS 500-188905/4
Matrix: Water
Analysis Batch: 188905

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.0		mg/L		100	80 - 120

Method: 9251 - Chloride

Lab Sample ID: MB 500-187514/4
Matrix: Water
Analysis Batch: 187514

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			05/25/13 13:42	1

Lab Sample ID: LCS 500-187514/5
Matrix: Water
Analysis Batch: 187514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	53.4		mg/L		107	80 - 120

Lab Sample ID: MB 500-187526/40
Matrix: Water
Analysis Batch: 187526

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			05/25/13 15:46	1

Lab Sample ID: LCS 500-187526/41
Matrix: Water
Analysis Batch: 187526

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	56.7		mg/L		113	80 - 120

Lab Sample ID: 500-57389-7 MS
Matrix: Water
Analysis Batch: 187514

Client Sample ID: MW-8
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	300		50.0	318	4	mg/L		44	75 - 125

Lab Sample ID: 500-57389-7 MSD
Matrix: Water
Analysis Batch: 187514

Client Sample ID: MW-8
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	300		50.0	323	4	mg/L		53	75 - 125	1	20

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

Lab Sample ID: MB 500-187594/1
Matrix: Water
Analysis Batch: 187594

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			05/27/13 18:00	1

Lab Sample ID: LCS 500-187594/2
Matrix: Water
Analysis Batch: 187594

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	238		mg/L		95	80 - 120

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-187533/3
Matrix: Water
Analysis Batch: 187533

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/25/13 14:57	1

Lab Sample ID: LCS 500-187533/4
Matrix: Water
Analysis Batch: 187533

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	9.97		mg/L		100	80 - 120

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-187894/3
Matrix: Water
Analysis Batch: 187894

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/24/13 12:34	1

Lab Sample ID: LCS 500-187894/4
Matrix: Water
Analysis Batch: 187894

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: 500-57389-1 MS
Matrix: Water
Analysis Batch: 187894

Client Sample ID: MW-1
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	<0.020		0.100	0.0993		mg/L		99	75 - 125

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

Lab Sample ID: 500-57389-1 MSD
Matrix: Water
Analysis Batch: 187894

Client Sample ID: MW-1
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrite	<0 020		0 100	0 0963		mg/L		96	75 - 125	3	20

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-188540/12
Matrix: Water
Analysis Batch: 188540

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0 10		0 10		mg/L			06/04/13 15 33	1

Lab Sample ID: LCS 500-188540/13
Matrix: Water
Analysis Batch: 188540

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1 00	1 01		mg/L		101	80 - 120

Lab Sample ID: 500-57389-11 MS
Matrix: Water
Analysis Batch: 188540

Client Sample ID: Duplicate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1 4		1 00	2 56		mg/L		117	75 - 125

Lab Sample ID: 500-57389-11 MSD
Matrix: Water
Analysis Batch: 188540

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
Nitrogen, Nitrate Nitrite	1 4		1 00	2 42		mg/L		104	75 - 125	5	20

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5

500-57389 COC

(optional)
Report To
Contact: RICH GNAT
Company: KPRG AND ASSOCIATES
Address: 19665 W LISBON RD, 2B
Address: BROOKFIELD, WI
Phone: 262-781-0475
Fax: -0478
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-57389
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: (3.7)(3.3)(3.4)

Client: KPRG AND ASSOC. | Client Project #: 12313.D
Project Name: JOLIET #29 ASH PONDS
Project Location/State: JOLIET, IL | Lab Project #:
Sampler: P. ALLENSTEIN/I.S.W. | Lab PM: B. STADELMANN

Preservative: 3 | 8 | 8 | 4 | 2 | 1 | 8

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: DISSOLVED METALS	TDS, Fl, SO_4, Cl	NO_2	CYANIDE	NO_3-NO_2	BTEX BENZENE	PERCHLORATE			Comments
1		MW-1	5/23	1240	9	W	X	X	X	X	X	X	X			
2		MW-2	5/23	1125												
3		MW-3	5/22	1255												
4		MW-4	5/22	1503												
5		MW-6	5/22	1641												
6		MW-7	5/22	1730												
7		MW-8	5/23	0917												
8		MW-9	5/23	1023												
9		MW-10	5/22	1836												
10		MW-11	5/23	1508												
11		DUPLICATE	5/23	—												

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. $NaHSO_4$
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: _____

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	KPRG AND ASSOCIATES	5/23/2013	1830	K. Spadoni	KPRG Associates	5/23/13	1830
Kelly Spadoni	KPRG Assoc.	5-24-13	0953	[signature]	TA	5-24-13	0953
[signature]	TA	5-24-13	1105	[signature]	TA	5/24/13	1105

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

Comp_002532

6/10/2013

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

Chain of Custody Record

TestAmerica

Comp 002533 6/10/2013

Client Information (Sub Contract Lab)	Sampler	Lab PM: Stadelmann, Bonnie M	Carrier Tracking No(s):	COC No: 500-35265.1
Client Contact: Shipping/Receiving	Phone	E-Mail: bonnie.stadelmann@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 500-57389-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 6/7/2013			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email:	WO #			
Project Name: Joliet #29 Ash Ponds	Project #: 50005078			
Site:	SSOW#			

Analysis Requested

500-57389 Chain of Custody

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	314.0/ Perchlorate	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X			
MW-1 (500-57389-1)	5/23/13	12:40 Central		Water			X	1	
MW-2 (500-57389-2)	5/23/13	11:25 Central		Water			X	1	
MW-3 (500-57389-3)	5/22/13	12:55 Central		Water			X	1	
MW-4 (500-57389-4)	5/22/13	15:03 Central		Water			X	1	
MW-6 (500-57389-5)	5/22/13	16:41 Central		Water			X	1	
MW-7 (500-57389-6)	5/22/13	17:30 Central		Water			X	1	
MW-8 (500-57389-7)	5/23/13	09:17 Central		Water			X	1	
MW-9 (500-57389-8)	5/23/13	10:23 Central		Water			X	1	
MW-10 (500-57389-9)	5/22/13	18:36 Central		Water			X	1	
MW-11 (500-57389-10)	5/23/13	15:08 Central		Water			X	1	
Duplicate (500-57389-11)	5/23/13	Central		Water			X	1	

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Possible Hazard Identification

Unconfirmed

4.3

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time	Method of Shipment
Relinquished by	Date/Time: 05/28/13 1600	Company: TAL-Chicago	Received by	Date/Time: 5/30/13 9:20	Company: TA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57389-1
SDG Number:

Login Number: 57389
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.7,3.3,3.4
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57389-1
SDG Number:

Login Number: 57389
List Number: 1
Creator: Cortes, Cesar C

List Source: TestAmerica Sacramento
List Creation: 05/31/13 10:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	4.3
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 leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 500-57389-1

Laboratory: TestAmerica Chicago

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

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

Laboratory: TestAmerica Sacramento

All certifica ions held by this laboratory are listed. Not all cer ifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NE-OS-22-13	01-31-14
A2LA	A2LA		NE-OS-22-3	01-31-14
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-13
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-17-13
California	NELAP	9	1119CA	01-31-14
Colorado	State Program	8	N/A	08-31-13
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAP	4	E87570	06-30-13
Guam	State Program	9	N/A	08-31-13
Hawaii	State Program	9	N/A	01-31-14
Illinois	NELAP	5	200060	03-17-14
Kansas	NELAP	7	E-10375	10-31-13
Louisiana	NELAP	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-14
Nebraska	State Program	7	NE-OS-22-13	01-31-14
Nevada	State Program	9	CA44	07-31-13
New Jersey	NELAP	2	CA005	06-30-13
New York	NELAP	2	11666	04-01-14
Northern Mariana Islands	State Program	9	MP0007	02-01-14
Oregon	NELAP	10	CA200005	03-28-14

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

Laboratory: TestAmerica Sacramento (Continued)

All certifica ions held by this laboratory are listed Not all cer ifications are applicable to this report

Authority	Program	EPA Region	Certification ID	Expiration Date
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina-	State Program	4	87014	06-30-13
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-13
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	01-31-14
Washington	State Program	10	C581	05-05-14
West Virginia	State Program	3	9930C	12-31-13
West Virginia DEP	State Program	3	334	07-31-13
Wyoming	State Program	8	8TMS-Q	01-31-14

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: 500-57697-1
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:
6/19/2013 5:00:07 PM

Bonnie Stadelmann, Project Manager II
bonnie.stadelmann@testamericainc.com

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

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

Table of Contents

Job ID: 500-57697-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-57697-1

Comments
No additional comments.

Receipt
The samples were received on 6/5/2013 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 4.2° C.

Except:

The Perchlorate sample was received at the Sacramento laboratory outside the required temperature criteria : 14.4 C.

6-10-2013 - Per client proceed with analysis.

GC/MS VOA
No analytical or quality issues were noted.

Metals
No other analytical or quality issues were noted.

Field Service / Mobile Lab
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Method Summary

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

TestAmerica Job ID: 500-57697-1

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

Sample Summary

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

TestAmerica Job ID: 500-57697-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-57697-1	MW-5	Water	06/05/13 13:48	06/05/13 16:10
500-57697-2	Trip Blank	Water	06/05/13 00:00	06/05/13 16:10

Client Sample ID: MW-5
Date Collected: 06/05/13 13:48
Date Received: 06/05/13 16:10

Lab Sample ID: 500-57697-1
Matrix: Water

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			06/07/13 15:07	1
Toluene	<0.00050		0.00050		mg/L			06/07/13 15:07	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/07/13 15:07	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/07/13 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 125*		*06/07/13 15:07*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*06/07/13 15:07*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*06/07/13 15:07*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*06/07/13 15:07*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/14/13 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/11/13 11:12	06/19/13 15:45	1
Arsenic	<0.0010		0.0010		mg/L		06/11/13 11:12	06/17/13 17:46	1
Barium	**0.060**		0.0025		mg/L		06/11/13 11:12	06/17/13 17:46	1
Beryllium	<0.0010		0.0010		mg/L		06/11/13 11:12	06/19/13 12:12	1
Boron	**0.69**		0.050		mg/L		06/11/13 11:12	06/19/13 14:10	1
Cadmium	<0.00050		0.00050		mg/L		06/11/13 11:12	06/17/13 17:46	1
Chromium	<0.0050		0.0050		mg/L		06/11/13 11:12	06/17/13 17:46	1
Cobalt	<0.0010		0.0010		mg/L		06/11/13 11:12	06/18/13 17:07	1
Copper	<0.0020		0.0020		mg/L		06/11/13 11:12	06/19/13 15:45	1
Iron	<0.10		0.10		mg/L		06/11/13 11:12	06/17/13 17:46	1
Lead	<0.00050		0.00050		mg/L		06/11/13 11:12	06/17/13 17:46	1
Manganese	<0.0025		0.0025		mg/L		06/11/13 11:12	06/18/13 17:07	1
Nickel	**0.0029**		0.0020		mg/L		06/11/13 11:12	06/18/13 17:07	1
Selenium	**0.025**		0.0025		mg/L		06/11/13 11:12	06/17/13 17:46	1
Silver	<0.00050		0.00050		mg/L		06/11/13 11:12	06/17/13 17:46	1
Thallium	<0.0020		0.0020		mg/L		06/11/13 11:12	06/17/13 17:46	1
Vanadium	<0.0050		0.0050		mg/L		06/11/13 11:12	06/17/13 17:46	1
Zinc	<0.020		0.020		mg/L		06/11/13 11:12	06/17/13 17:46	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/13 15:30	06/07/13 11:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/06/13 12:35	06/06/13 15:10	1
Sulfate	**200**		50		mg/L			06/13/13 06:33	10
Chloride	**180**		10		mg/L			06/12/13 19:54	5
Nitrogen, Nitrate	**1.7**		0.10		mg/L			06/13/13 08:30	1
Total Dissolved Solids	**1100**		10		mg/L			06/07/13 03:11	1
Fluoride	**0.39**		0.10		mg/L			06/08/13 13:01	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			06/06/13 09:44	1
Nitrogen, Nitrate Nitrite	**1.7**		0.10		mg/L			06/12/13 12:32	1

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

TestAmerica Job ID: 500-57697-1

Client Sample ID: Trip Blank
Date Collected: 06/05/13 00:00
Date Received: 06/05/13 16:10

Lab Sample ID: 500-57697-2
Matrix: Water

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			06/07/13 15:32	1
Toluene	<0.00050		0.00050		mg/L			06/07/13 15:32	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/07/13 15:32	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/07/13 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 125*		*06/07/13 15:32*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*06/07/13 15:32*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*		*06/07/13 15:32*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*06/07/13 15:32*	*1*

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Analysis Batch: 188928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Total/NA	Water	8260B	
500-57697-2	Trip Blank	Total/NA	Water	8260B	
LCS 500-188928/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-188928/6	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 18410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Total/NA	Water	314.0	
LCS 320-18410/8	Lab Control Sample	Total/NA	Water	314.0	
MB 320-18410/7	Method Blank	Total/NA	Water	314.0	
MRL 320-18410/6 MRL	Lab Control Sample	Total/NA	Water	314.0	

Metals

Prep Batch: 188842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	7470A	
LCS 500-188842/8-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-188842/7-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 189014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	7470A	188842
LCS 500-188842/8-A	Lab Control Sample	Total/NA	Water	7470A	188842
MB 500-188842/7-A	Method Blank	Total/NA	Water	7470A	188842

Prep Batch: 189340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	Soluble Metals	
LCS 500-189340/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	
MB 500-189340/1-A	Method Blank	Soluble	Water	Soluble Metals	

Analysis Batch: 190127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	6020A	189340
LCS 500-189340/2-A	Lab Control Sample	Soluble	Water	6020A	189340
MB 500-189340/1-A	Method Blank	Soluble	Water	6020A	189340

Analysis Batch: 190280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	6020A	189340
LCS 500-189340/2-A	Lab Control Sample	Soluble	Water	6020A	189340
MB 500-189340/1-A	Method Blank	Soluble	Water	6020A	189340

Analysis Batch: 190369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	6020A	189340
500-57697-1	MW-5	Dissolved	Water	6020A	189340

Metals (Continued)

Analysis Batch: 190369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-189340/2-A	Lab Control Sample	Soluble	Water	6020A	189340
LCS 500-189340/2-A	Lab Control Sample	Soluble	Water	6020A	189340
MB 500-189340/1-A	Method Blank	Soluble	Water	6020A	189340
MB 500-189340/1-A	Method Blank	Soluble	Water	6020A	189340

Analysis Batch: 190377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	6020A	189340
LCS 500-189340/2-A	Lab Control Sample	Soluble	Water	6020A	189340
MB 500-189340/1-A	Method Blank	Soluble	Water	6020A	189340

General Chemistry

Prep Batch: 188817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	9010B	
LCS 500-188817/11-A	Lab Control Sample	Total/NA	Water	9010B	
MB 500-188817/10-A	Method Blank	Total/NA	Water	9010B	

Analysis Batch: 188893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	9014	188817
LCS 500-188817/11-A	Lab Control Sample	Total/NA	Water	9014	188817
MB 500-188817/10-A	Method Blank	Total/NA	Water	9014	188817

Analysis Batch: 188904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	SM 2540C	
LCS 500-188904/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-188904/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 189052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	SM 4500 NO2 B	
500-57697-1 MS	MW-5	Dissolved	Water	SM 4500 NO2 B	
500-57697-1 MSD	MW-5	Dissolved	Water	SM 4500 NO2 B	
LCS 500-189052/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-189052/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 189185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	SM 4500 F C	
LCS 500-189185/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-189185/3	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 189564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	SM 4500 NO3 F	
LCS 500-189564/37	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-189564/36	Method Blank	Total/NA	Water	SM 4500 NO3 F	

General Chemistry (Continued)

Analysis Batch: 189576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	9251	
LCS 500-189576/43	Lab Control Sample	Total/NA	Water	9251	
MB 500-189576/42	Method Blank	Total/NA	Water	9251	

Analysis Batch: 189608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	Nitrate by calc	

Analysis Batch: 189729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57697-1	MW-5	Dissolved	Water	9038	
500-57697-1 MS	MW-5	Dissolved	Water	9038	
500-57697-1 MSD	MW-5	Dissolved	Water	9038	
LCS 500-189729/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-189729/3	Method Blank	Total/NA	Water	9038	

Surrogate Summary

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

TestAmerica Job ID: 500-57697-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-57697-1	MW-5	87	97	102	89
500-57697-2	Trip Blank	83	99	104	86
LCS 500-188928/4	Lab Control Sample	85	104	98	90
MB 500-188928/6	Method Blank	84	98	102	87

Surrogate Legend

12DCE = 1,2-Dichloroe hane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

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

Lab Sample ID: MB 500-188928/6
Matrix: Water
Analysis Batch: 188928

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			06/07/13 10:35	1
Toluene	<0.00050		0.00050		mg/L			06/07/13 10:35	1
Ethylbenzene	<0.00050		0.00050		mg/L			06/07/13 10:35	1
Xylenes, Total	<0.0010		0.0010		mg/L			06/07/13 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 125*		*06/07/13 10:35*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*06/07/13 10:35*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*06/07/13 10:35*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*06/07/13 10:35*	*1*

Lab Sample ID: LCS 500-188928/4
Matrix: Water
Analysis Batch: 188928

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	0.0458		mg/L		92	70 - 120
Toluene	0.0500	0.0530		mg/L		106	70 - 120
Ethylbenzene	0.0500	0.0506		mg/L		101	75 - 120
Xylenes, Total	0.100	0.0983		mg/L		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 125*
Toluene-d8 (Surr)	*104*		*75 - 120*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*
Dibromofluoromethane	*90*		*75 - 120*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-18410/7
Matrix: Water
Analysis Batch: 18410

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			06/13/13 18:29	1

Lab Sample ID: LCS 320-18410/8
Matrix: Water
Analysis Batch: 18410

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	0.0519		mg/L		104	85 - 115

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 320-18410/6 MRL
Matrix: Water
Analysis Batch: 18410

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		98	75 - 125

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-189340/1-A
Matrix: Water
Analysis Batch: 190127

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 189340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		06/11/13 11:12	06/17/13 17:40	1
Barium	<0.0025		0.0025		mg/L		06/11/13 11:12	06/17/13 17:40	1
Cadmium	<0.00050		0.00050		mg/L		06/11/13 11:12	06/17/13 17:40	1
Chromium	<0.0050		0.0050		mg/L		06/11/13 11:12	06/17/13 17:40	1
Iron	<0.10		0.10		mg/L		06/11/13 11:12	06/17/13 17:40	1
Lead	<0.00050		0.00050		mg/L		06/11/13 11:12	06/17/13 17:40	1
Selenium	<0.0025		0.0025		mg/L		06/11/13 11:12	06/17/13 17:40	1
Silver	<0.00050		0.00050		mg/L		06/11/13 11:12	06/17/13 17:40	1
Thallium	<0.0020		0.0020		mg/L		06/11/13 11:12	06/17/13 17:40	1
Vanadium	<0.0050		0.0050		mg/L		06/11/13 11:12	06/17/13 17:40	1
Zinc	<0.020		0.020		mg/L		06/11/13 11:12	06/17/13 17:40	1

Lab Sample ID: MB 500-189340/1-A
Matrix: Water
Analysis Batch: 190280

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 189340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		06/11/13 11:12	06/18/13 17:02	1
Manganese	<0.0025		0.0025		mg/L		06/11/13 11:12	06/18/13 17:02	1
Nickel	<0.0020		0.0020		mg/L		06/11/13 11:12	06/18/13 17:02	1

Lab Sample ID: MB 500-189340/1-A
Matrix: Water
Analysis Batch: 190369

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 189340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010		mg/L		06/11/13 11:12	06/19/13 12:10	1

Lab Sample ID: MB 500-189340/1-A
Matrix: Water
Analysis Batch: 190369

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 189340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		06/11/13 11:12	06/19/13 14:08	1

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

Lab Sample ID: MB 500-189340/1-A
Matrix: Water
Analysis Batch: 190377

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 189340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/11/13 11:12	06/19/13 15:06	1
Copper	<0.0020		0.0020		mg/L		06/11/13 11:12	06/19/13 15:06	1

Lab Sample ID: LCS 500-189340/2-A
Matrix: Water
Analysis Batch: 190127

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 189340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0926		mg/L		93	80 - 120
Barium	0.500	0.497		mg/L		99	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Iron	1.00	1.19		mg/L		119	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Selenium	0.100	0.0946		mg/L		95	80 - 120
Silver	0.0500	0.0465		mg/L		93	80 - 120
Thallium	0.100	0.109		mg/L		109	80 - 120
Vanadium	0.500	0.533		mg/L		107	80 - 120
Zinc	0.500	0.480		mg/L		96	80 - 120

Lab Sample ID: LCS 500-189340/2-A
Matrix: Water
Analysis Batch: 190280

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 189340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.500	0.512		mg/L		102	80 - 120
Manganese	0.500	0.466		mg/L		93	80 - 120
Nickel	0.500	0.526		mg/L		105	80 - 120

Lab Sample ID: LCS 500-189340/2-A
Matrix: Water
Analysis Batch: 190369

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 189340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.0500	0.0501		mg/L		100	80 - 120

Lab Sample ID: LCS 500-189340/2-A
Matrix: Water
Analysis Batch: 190369

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 189340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.954		mg/L		95	80 - 120

Lab Sample ID: LCS 500-189340/2-A
Matrix: Water
Analysis Batch: 190377

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 189340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.467		mg/L		93	80 - 120

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

Lab Sample ID: LCS 500-189340/2-A
Matrix: Water
Analysis Batch: 190377

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 189340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.250	0.256		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-188842/7-A
Matrix: Water
Analysis Batch: 189014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/13 15:30	06/07/13 11:05	1

Lab Sample ID: LCS 500-188842/8-A
Matrix: Water
Analysis Batch: 189014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00200		mg/L		100	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-188817/10-A
Matrix: Water
Analysis Batch: 188893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		06/06/13 12:35	06/06/13 15:07	1

Lab Sample ID: LCS 500-188817/11-A
Matrix: Water
Analysis Batch: 188893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.109		mg/L		109	80 - 120

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-189729/3
Matrix: Water
Analysis Batch: 189729

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			06/13/13 06:31	1

Lab Sample ID: LCS 500-189729/4
Matrix: Water
Analysis Batch: 189729

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.1		mg/L		100	80 - 120

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: 500-57697-1 MS
Matrix: Water
Analysis Batch: 189729

Client Sample ID: MW-5
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	200		400	613		mg/L		102	75 - 125

Lab Sample ID: 500-57697-1 MSD
Matrix: Water
Analysis Batch: 189729

Client Sample ID: MW-5
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	200		400	626		mg/L		106	75 - 125	2	20

Method: 9251 - Chloride

Lab Sample ID: MB 500-189576/42
Matrix: Water
Analysis Batch: 189576

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/12/13 19:11	1

Lab Sample ID: LCS 500-189576/43
Matrix: Water
Analysis Batch: 189576

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	49.2		mg/L		98	80 - 120

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

Lab Sample ID: MB 500-188904/1
Matrix: Water
Analysis Batch: 188904

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/07/13 03:02	1

Lab Sample ID: LCS 500-188904/2
Matrix: Water
Analysis Batch: 188904

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

Method: SM 4500 F C - Fluoride

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

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

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

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

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.2		mg/L		102	80 - 120

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-189052/3
Matrix: Water
Analysis Batch: 189052

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			06/06/13 09:43	1

Lab Sample ID: LCS 500-189052/4
Matrix: Water
Analysis Batch: 189052

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: 500-57697-1 MS
Matrix: Water
Analysis Batch: 189052

Client Sample ID: MW-5
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	<0.020		0.100	0.100		mg/L		100	75 - 125

Lab Sample ID: 500-57697-1 MSD
Matrix: Water
Analysis Batch: 189052

Client Sample ID: MW-5
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrite	<0.020		0.100	0.104		mg/L		104	75 - 125	3	20

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-189564/36
Matrix: Water
Analysis Batch: 189564

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			06/12/13 13:28	1

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

Lab Sample ID: LCS 500-189564/37
Matrix: Water
Analysis Batch: 189564

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.965		mg/L		96	80 - 120

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.

500-57697 COC

(optional)

Report To
Contact: RICH GNAT
Company: KPRG & ASSOCIATES
Address: 14665 W LISBON RD.
Address: BROOKFIELD, WI
Phone: 282-781-0475
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-57697
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 4.2

Client: KPRG & ASSOCIATES
Client Project #: 12313.0
Project Name: JOLIET #29 STATION ASH PONDS.
Project Location/State: JOLIET, ILLINOIS
Lab Project #:
Sampler: P. ALLGEIER / IJH
Lab PM: B. STADLEMAN

Preservative: 3 | 7 | 7 | 2 | 1 | 7 | 4

Parameter: DISSOLVED METALS | TDS, Fl, SO4, Cl | NO2 | NO3 - NO2 | BTEX BENZENE | PECHLORATE. | CYANIDE.

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Comments
1		MW-5	6-5-13	13:48	9	W	
2		TRIP BLANK			2	W	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: _____

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	KPRG	6-5-13	1610		TestAmerica	06/05/13	1610
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

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

Client Comments

Lab Comments:

Comp_002557

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

Chain of Custody Record

TestAmerica

6/19/2013

Comp 002558

Client Information (Sub Contract Lab)	Sampler	Lab PM: Stadelmann, Bonnie M	Carrier Tracking No(s)	COC No: 500-35552.1
Client Contact: Shipping/Receiving	Phone	E Mail: bonnie.stadelmann@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		**Analysis Requested**		Job #: 500-57697-1
Address: 880 Riverside Parkway,	Due Date Requested: 6/18/2013			**Preservation Codes:**
City: West Sacramento	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: CA, 95605	PO #			
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	WO #			Other:
Email:	Project #: 50005078			
Project Name: Joliet #29 Station Ash Ponds	SSOW#			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	314.0/ Perchlorate	Total Number of containers	Special Instructions/Note:
			Preservation Code:					
MW-5 (500-57697-1)	6/5/13	1348 Central		Water		X	1	

500-57697 Chain of Custody

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Possible Hazard Identification Unconfirmed		**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: 14.4
Relinquished by: [signature]	Date/Time: 6/6/13 1500	Company: TA-CHI	Received by: [signature]
Relinquished by	Date/Time	Company	Received by
Relinquished by	Date/Time	Company	Received by

Date/Time: 6/10/13 910	Company	
Date/Time	Company	
Date/Time	Company	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57697-1

Login Number: 57697
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-57697-1

Login Number: 57697
List Number: 1
Creator: Sadler, Jeremy

List Source: TestAmerica Sacramento
List Creation: 06/10/13 10:12 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	False	
Cooler Temperature is recorded.	True	14.4
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 leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 500-57697-1

Laboratory: TestAmerica Chicago

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

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

Laboratory: TestAmerica Sacramento

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-13
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-30-13 *
California	NELAP	9	1119CA	01-31-14
Colorado	State Program	8	N/A	08-31-13
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAP	4	E87570	06-30-13
Guam	State Program	9	N/A	08-31-13
Hawaii	State Program	9	N/A	01-31-14
Illinois	NELAP	5	200060	03-17-14
Kansas	NELAP	7	E-10375	10-31-13
Louisiana	NELAP	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-14
Nebraska	State Program	7	NE-OS-22-13	01-31-14
Nevada	State Program	9	CA44	07-31-13
New Jersey	NELAP	2	CA005	06-30-13
New York	NELAP	2	11666	04-01-14
Northern Mariana Islands	State Program	9	MP0007	02-01-14
Oregon	NELAP	10	CA200005	03-28-14
Pennsylvania	NELAP	3	68-01272	03-31-14
South Carolina	State Program	4	87014	06-30-13
Texas	NELAP	6	T104704399-08-TX	05-31-14

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

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

TestAmerica Job ID: 500-57697-1

Laboratory: TestAmerica Sacramento (Continued)

All certifica ions held by this laboratory are listed Not all cer ifications are applicable to this report

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