

QUARTERLY GROUNDWATER MONITORING REPORT
JOLIET #29 GENERATING STATION

June 23, 2017

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

VIA FEDERAL EXPRESS

Re: Quarterly Groundwater Monitoring Results – Second Quarter 2017
Joliet #29 Generating Station – Ash Impoundments
Compliance Commitment Agreement VN W-2012-00059; ID# 6284

Dear Ms. Rhodes:

The second quarterly groundwater sampling for 2017 has been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Joliet #29 Generating Station in accordance with the signed Compliance Commitment Agreement (CCA) with Illinois Environmental Protection Agency (IEPA) dated October 24, 2012. This quarterly monitoring report is being submitted summarizing the results of the monitoring event.

Well Inspection and Sampling Procedures

The groundwater monitoring network around the ash ponds at the Joliet facility consists of eleven wells (MW-1 through MW-11) as shown on Figure 1. As part of sampling procedures, the integrity of all monitoring wells was inspected and water levels obtained using an electronic water level meter (see summary of water level discussion below). Overall the wells were in good condition with locked protector casings and the concrete surface seals were intact.

Groundwater samples at well locations MW-3 through MW-11 were collected using the low-flow sampling technique. Based on historical water levels at monitoring well locations MW-1 and MW-2, 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 well locations, samples were collected using a peristaltic pump. It is noted that during this quarter, there was an insufficient volume of water within well MW-1 to be able to collect a sample.

One duplicate sample was collected from well MW-9. In addition, a deionized water trip blank accompanied the groundwater samples bottles from and back to the laboratory. The groundwater monitoring samples and the duplicate sample were analyzed for the compounds listed in Illinois Administrative Code (IAC) 620.410(a), 620.410(d) and 620.410(e), excluding radium 226/228. The trip blank was analyzed for the volatile organic compounds listed in IAC 620.410(d).

Groundwater Flow Evaluation

Water level data from the most recent round of sampling along with historical water levels obtained from each well are summarized in Table 1. The water levels were used to generate a groundwater flow map which is provided on Figure 2. Groundwater flow is generally consistent with historical conditions with flow in a southerly direction.

Analytical Data

A copy of the analytical data package is provided in Attachment 1. The field parameter and analytical data from the most recent sampling, along with the previous eight quarters of data, are summarized in Table 2. All duplicate values were within an acceptable range (below +/- 30%). All wells for which the sampling data reports a value above one or more groundwater standards are located within the area of the approved Groundwater Management Zone.

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

Sincerely,

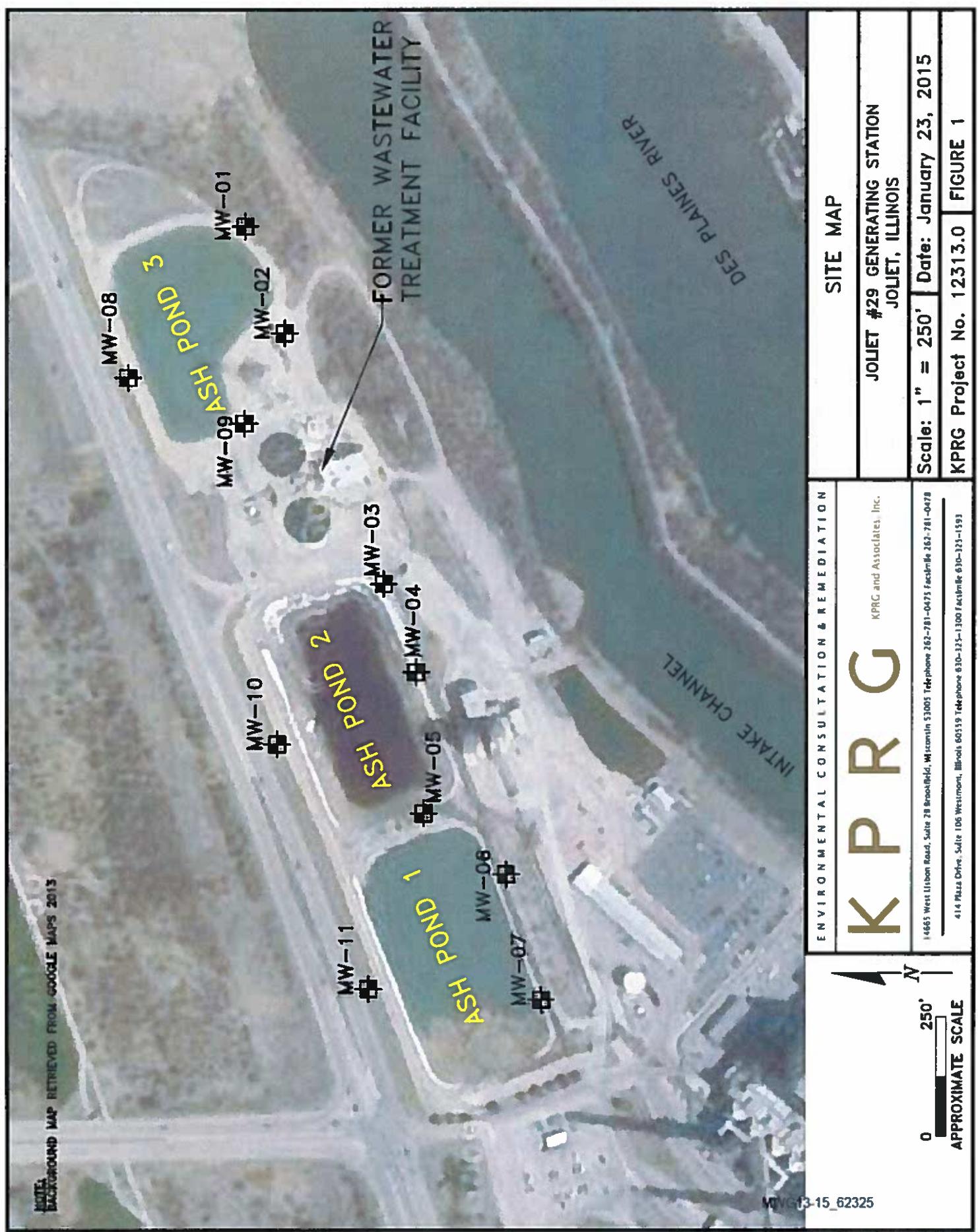


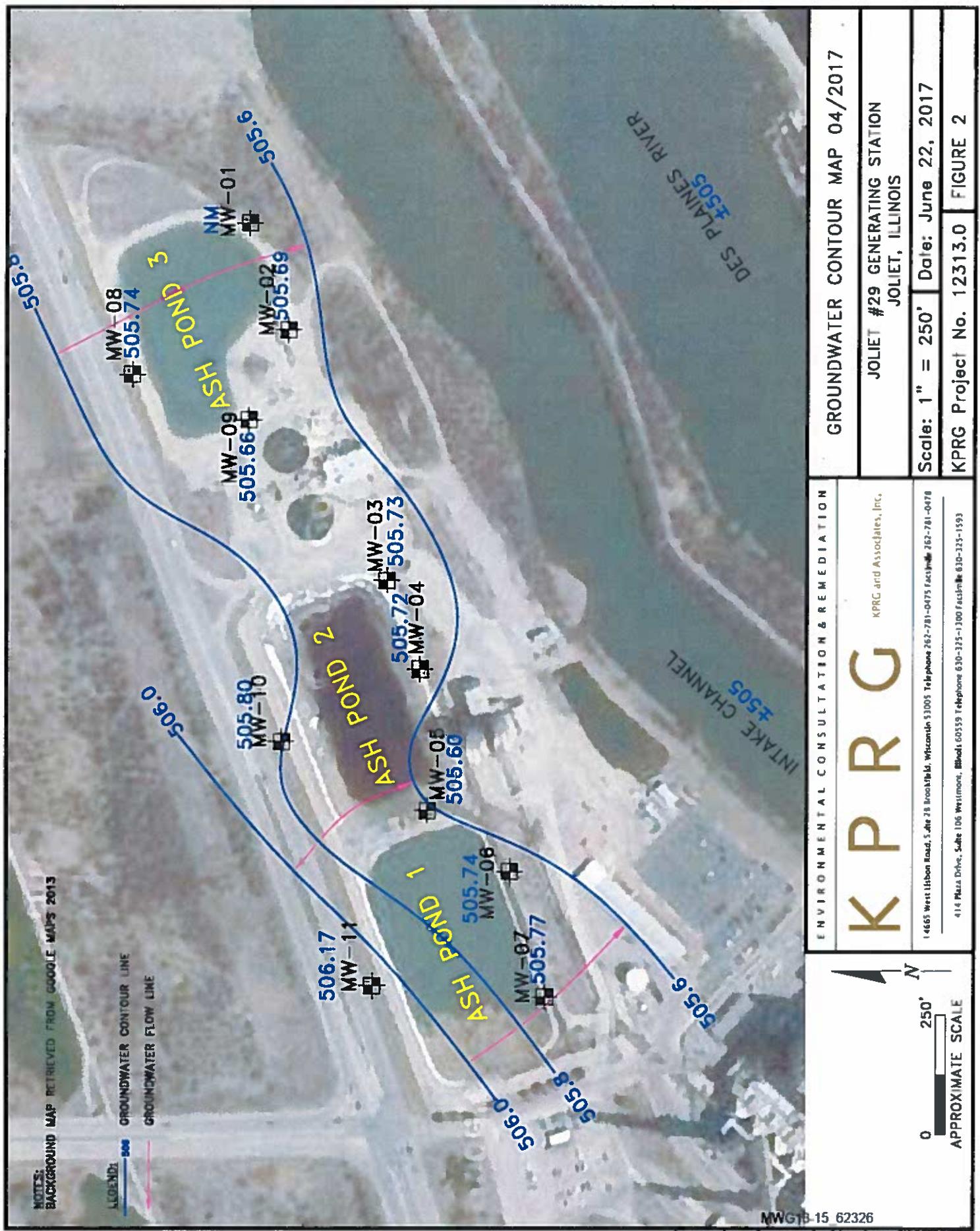
William Naglosky
Station Manager

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

FIGURES

NOTE: BACKGROUND MAP RETRIEVED FROM GOOGLE MAPS 2013





TABLES

Table 1. Groundwater Elevations - Midwest Generation, LLC, Joliet Station #29, Joliet, IL

Well ID	Date	Top of Casing (TOC) Elevation (ft above MSL)	Ground Elevation (ft above MSL)	Groundwater Elevation (ft above MSL)	Sampling Groundwater Elevation (ft above MSL)	Bottom of Well Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Sampling Depth to Groundwater (ft below TOC)	Depth to Bottom of Well (ft below TOC)
MW-01	02/10/15	534 76	531 46	NM	NM	504 88	NM	NM	29 88
	05/27/15	534 76	531 46	NM	NM	504 88	NM	NM	29 88
	08/04/15	534 76	531 46	NM	NM	504 88	NM	NM	29 88
	10/27/15	534 76	531 46	NM	NM	504 88	NM	NM	29 88
	02/09/16	534 03	531 56	NM	NM	505 50	NM	NM	28 53
	05/10/16	534 03	531 56	505 90	506 18	505 50	28 13	27 85	28 53
	08/30/16	534 03	531 56	506 85	506 91	505 50	27 18	27 12	28 53
	11/01/16	534 03	531 56	505 89	505 53	505 50	28 14	28 50	28 53
	02/06/17	534 03	531 56	NM	NM	505 50	NM	NM	28 53
	04/25/17	534 03	531 56	NM	NM	505 50	NM	NM	28 53
MW-02	02/10/15	534 28	531 19	505 17	505 17	504 05	29 11	29 11	30 23
	05/27/15	534 28	531 19	505 34	505 32	504 05	28 94	28 96	30 23
	08/04/15	534 28	531 19	505 14	505 13	504 05	29 14	29 15	30 23
	10/27/15	534 28	531 19	504 89	505 09	504 05	29 39	29 19	30 23
	02/09/16	534 30	531 17	505 59	505 57	504 07	28 71	28 73	30 23
	05/10/16	534 30	531 17	505 89	506 09	504 07	28 41	28 21	30 23
	08/30/16	534 30	531 17	506 83	506 97	504 07	27 47	27 33	30 23
	11/01/16	534 30	531 17	505 90	505 89	504 07	28 40	28 41	30 23
	02/06/17	534 30	531 17	505 46	505 74	504 07	28 84	28 56	30 23
	04/25/17	534 30	531 17	505 69	505 70	504 07	28 61	28 60	30 23
MW-03	02/10/15	538 78	535 54	505 19	505 20	494 68	33 59	33 58	44 10
	05/27/15	538 78	535 54	505 36	505 35	494 68	33 42	33 43	44 10
	08/04/15	538 78	535 54	505 22	505 22	494 68	33 56	33 56	44 10
	10/27/15	538 78	535 54	504 91	505 04	494 68	33 87	33 74	44 10
	02/09/16	538 79	535 53	505 62	505 51	494 68	33 17	33 28	44 10
	05/10/16	538 79	535 53	505 97	505 99	494 68	32 82	32 80	44 10
	08/30/16	538 79	535 53	506 91	507 22	494 68	31 88	31 57	44 10
	11/01/16	538 79	535 53	505 91	505 94	494 68	32 88	32 85	44 10
	02/06/17	538 79	535 53	505 54	505 54	494 68	33 25	33 25	44 10
	04/26/17	538 79	535 53	505 73	505 78	494 68	33 06	33 01	44 10
MW-04	02/10/15	539 03	535 80	505 19	505 18	496 13	33 84	33 85	42 90
	05/27/15	539 03	535 80	505 39	505 37	496 13	33 64	33 66	42 90
	08/04/15	539 03	535 80	505 19	505 19	496 13	33 84	33 84	42 90
	10/27/15	539 03	535 80	504 98	505 00	496 13	34 05	34 03	42 90
	02/09/16	539 01	535 83	505 59	505 41	496 11	33 42	33 57	42 90
	05/10/16	539 01	535 83	505 94	505 95	496 11	33 07	33 06	42 90
	08/30/16	539 01	535 83	506 93	507 19	496 11	32 08	31 82	42 90
	11/01/16	539 01	535 83	505 85	505 87	496 11	33 16	33 14	42 90
	02/06/17	539 01	535 83	505 50	505 52	496 11	33 51	33 49	42 90
	04/26/17	539 01	535 83	505 72	505 74	496 11	33 29	33 27	42 90
MW-05	02/11/15	539 69	536 43	505 12	505 12	494 64	34 57	34 57	45 05
	05/27/15	539 69	536 43	505 26	505 25	494 64	34 43	34 44	45 05
	08/04/15	539 69	536 43	505 14	505 14	494 64	34 55	34 55	45 05
	10/27/15	539 69	536 43	504 78	504 95	494 64	34 91	34 74	45 05
	02/09/16	539 64	536 36	505 46	505 33	494 59	34 18	34 31	45 05
	05/10/16	539 64	536 36	505 83	505 86	494 59	33 81	33 78	45 05
	08/30/16	539 64	536 36	506 82	507 09	494 59	32 82	32 55	45 05
	11/01/16	539 64	536 36	505 74	505 74	494 59	33 90	33 90	45 05
	02/06/17	539 64	536 36	505 41	505 40	494 59	34 23	34 24	45 05
	04/26/17	539 64	536 36	505 60	505 66	494 59	34 04	33 98	45 05
MW-06	02/10/15	539 06	535 86	505 23	505 23	496 86	33 83	33 83	42 20
	05/28/15	539 06	535 86	505 46	505 45	496 86	33 60	33 61	42 20
	08/05/15	539 06	535 86	505 11	505 12	496 86	33 95	33 94	42 20
	10/27/15	539 06	535 86	504 88	504 93	496 86	34 18	34 13	42 20
	02/09/16	539 05	535 89	505 61	505 46	496 85	33 44	33 59	42 20
	05/10/16	539 05	535 89	506 00	506 94	496 85	33 05	32 11	42 20
	08/30/16	539 05	535 89	506 96	507 36	496 85	32 09	31 69	42 20
	11/01/16	539 05	535 89	505 88	505 91	496 85	33 17	33 14	42 20
	02/06/17	539 05	535 89	505 56	505 57	496 85	33 49	33 48	42 20
	04/27/17	539 05	535 89	505 74	505 77	496 85	33 31	33 28	42 20
MW-07	02/10/15	539 35	535 86	505 24	505 24	496 12	34 11	34 11	43 23
	05/28/15	539 35	535 86	505 50	505 50	496 12	33 85	33 85	43 23
	08/05/15	539 35	535 86	505 18	505 17	496 12	34 17	34 18	43 23
	10/27/15	539 35	535 86	504 93	505 00	496 12	34 42	34 35	43 23
	02/09/16	539 35	535 87	505 66	505 51	496 12	33 69	33 84	43 23
	05/10/16	539 35	535 87	506 34	507 02	496 12	33 01	32 33	43 23
	08/30/16	539 35	535 87	507 04	507 41	496 12	32 31	31 94	43 23
	11/01/16	539 35	535 87	505 91	505 93	496 12	33 44	33 42	43 23
	02/06/17	539 35	535 87	505 59	505 62	496 12	33 76	33 73	43 23
	04/27/17	539 35	535 87	505 77	505 82	496 12	33 58	33 53	43 23

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-08	02/10/15	536 87	533 72	505 18	505 19	-498 81	31 69	31 68	38 06
	05/27/15	536 87	533 72	505 36	505 38	-498 81	31 51	31 49	38 06
	08/04/15	536 87	533 72	505 19	505 20	-498 81	31 68	31 67	38 06
	10/27/15	536 87	533 72	504 93	504 98	-498 81	31 94	31 89	38 06
	02/09/16	536 96	533 77	505 72	505 72	-498 90	31 24	31 24	38 06
	05/10/16	536 96	533 77	498 00	498 24	-498 90	38 96	38 72	38 06
	08/30/16	536 96	533 77	507 05	507 09	-498 90	29 91	29 87	38 06
	11/01/16	536 96	533 77	506 01	506 03	-498 90	30 95	30 93	38 06
	02/06/17	536 96	533 77	505 58	505 62	-498 90	31 38	31 34	38 06
	04/25/17	536 96	533 77	505 74	505 79	-498 90	31 22	31 17	38 06
	02/10/15	534 44	531 13	505 22	504 70	-496 29	29 22	29 74	38 15
MW-09	05/27/15	534 44	531 13	505 37	504 98	-496 29	29 07	29 46	38 15
	08/04/15	534 44	531 13	505 22	504 91	-496 29	29 22	29 53	38 15
	10/27/15	534 44	531 13	504 96	504 83	-496 29	29 48	29 61	38 15
	02/09/16	534 41	531 08	505 64	505 49	-496 26	28 77	28 92	38 15
	05/10/16	534 41	531 08	505 90	506 39	-496 26	28 51	28 02	38 15
	08/30/16	534 41	531 08	506 98	506 94	-496 26	27 43	27 47	38 15
	11/01/16	534 41	531 08	505 89	505 32	-496 26	28 52	29 09	38 15
	02/06/17	534 41	531 08	505 51	505 66	-496 26	28 90	28 75	38 15
	04/25/17	534 41	531 08	505 66	505 54	-496 26	28 75	28 87	38 15
	02/11/15	540 03	536 95	505 27	505 27	-496 10	34 76	34 76	43 93
MW-10	05/28/15	540 03	536 95	505 48	505 48	-496 10	34 55	34 55	43 93
	08/04/15	540 03	536 95	505 29	505 30	-496 10	34 74	34 73	43 93
	10/27/15	540 03	536 95	504 93	505 07	-496 10	35 10	34 96	43 93
	02/09/16	540 02	536 98	505 70	505 61	-496 09	34 32	34 41	43 93
	05/10/16	540 02	536 98	506 00	506 66	-496 09	34 02	33 36	43 93
	08/30/16	540 02	536 98	507 05	507 38	-496 09	32 97	32 64	43 93
	11/01/16	540 02	536 98	505 98	505 97	-496 09	34 04	34 05	43 93
	02/06/17	540 02	536 98	505 60	505 62	-496 09	34 42	34 40	43 93
	04/26/17	540 02	536 98	505 80	505 84	-496 09	34 22	34 18	43 93
	02/11/15	539 47	536 52	505 49	505 49	-497 14	33 98	33 98	42 33
MW-11	05/28/15	539 47	536 52	505 96	505 97	-497 14	33 51	33 50	42 33
	08/04/15	539 47	536 52	505 65	505 64	-497 14	33 82	33 83	42 33
	10/27/15	539 47	536 52	505 16	505 32	-497 14	34 31	34 15	42 33
	02/09/16	539 41	536 62	506 10	505 88	-497 08	33 31	33 53	42 33
	05/10/16	539 41	536 62	507 33	506 60	-497 08	32 08	32 81	42 33
	08/30/16	539 41	536 62	508 27	508 85	-497 08	31 14	30 56	42 33
	11/01/16	539 41	536 62	506 32	506 28	-497 08	33 09	33 13	42 33
NM - Not Measured	02/06/17	539 41	536 62	505 90	505 92	-497 08	33 51	33 49	42 33
	04/26/17	539 41	536 62	506 17	506 17	-497 08	33 24	33 24	42 33

Note: Values for Depth to Bottom of Well are from prior to the installation of the dedicated pumps

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

Sample: MW-01		Date	5/27/2015	8/4/2015	10/28/2015	2/9/2016	5/1/2016	8/30/2016	11/3/2016	2/6/2017	4/25/2017
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	NS	NS	NS	NS	NS	NS	0.0030	ND	0.0030	ND
Arsenic	0.010	NS	NS	NS	NS	NS	NS	0.0010	ND	0.0010	ND
Barium	2.0	NS	NS	NS	NS	NS	NS	0.0025	0.15	0.0025	0.12
Beryllium	0.004	NS	NS	NS	NS	NS	NS	0.0010	ND	0.0010	ND
Boron	2.0	NS	NS	NS	NS	NS	NS	0.050	0.18	0.050	0.24
Cadmium	0.005	NS	NS	NS	NS	NS	NS	0.00050	ND	0.00050	ND
Chloride	200.0	NS	NS	NS	NS	NS	NS	50	400	10	73
Chromium	0.1	NS	NS	NS	NS	NS	NS	0.0050	ND	0.0050	ND
Cobalt	1.0	NS	NS	NS	NS	NS	NS	0.0010	ND	0.0010	ND
Copper	0.65	NS	NS	NS	NS	NS	NS	0.0020	ND	0.0020	ND
Cyanide	0.2	NS	NS	NS	NS	NS	NS	0.010	ND	0.010	ND
Fluoride	4.0	NS	NS	NS	NS	NS	NS	0.10	0.42	0.10	0.37
Iron	5.0	NS	NS	NS	NS	NS	NS	0.10	ND	0.10	ND
Lead	0.0075	NS	NS	NS	NS	NS	NS	0.00050	ND	0.00050	ND
Manganese	0.15	NS	NS	NS	NS	NS	NS	0.0025	0.0065	0.0025	ND
Mercury	0.002	NS	NS	NS	NS	NS	NS	0.00020	ND	0.00020	ND
Nickel	0.1	NS	NS	NS	NS	NS	NS	0.0020	0.0041	0.0020	0.0022
Nitrogen/Nitrate	10.0	NS	NS	NS	NS	NS	NS	0.10	1.2	0.10	1.9
Nitrogen/Nitrate, Nitrite	NA	NS	NS	NS	NS	NS	NS	0.10	1.2	0.10	1.9
Nitrogen/Nitrite	NA	NS	NS	NS	NS	NS	NS	0.020	ND	0.020	ND
Percarbonate	0.0049	NS	NS	NS	NS	NS	NS	0.0040	ND	0.0040	ND
Selenium	0.05	NS	NS	NS	NS	NS	NS	0.013	0.021	0.0025	0.0072
Silver	0.05	NS	NS	NS	NS	NS	NS	0.00050	ND	0.00050	ND
Sulfate	400.0	NS	NS	NS	NS	NS	NS	50	170	25	74
Thallium	0.002	NS	NS	NS	NS	NS	NS	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	NS	NS	NS	NS	NS	NS	10	1100	10	670
Vanadium	0.049	NS	NS	NS	NS	NS	NS	0.0050	ND	0.0050	ND
Zinc	5.0	NS	NS	NS	NS	NS	NS	0.020	ND	0.020	ND
Benzene	0.005	NS	NS	NS	NS	NS	NS	0.0005	ND	0.0005	ND
BTEX	11705	NS	NS	NS	NS	NS	NS	0.002	0.0024	0.002	0.00743
pH	6.5 - 9.0	NS	NS	NS	NS	NS	NS	7.02	NA	6.50	7.08
Temperature	NA	NS	NS	NS	NS	NS	NS	14.78	NA	17.29	NA
Conductivity	NA	NS	NS	NS	NS	NS	NS	1.83	NA	1.05	NA
Dissolved Oxygen	NA	NS	NS	NS	NS	NS	NS	2.64	NA	5.40	NA
ORP	NA	NS	NS	NS	NS	NS	NS	26.4	NA	-62.3	NA

Notes: Standard obtained from IAC, Title 15, Chapter 1, Part 620, Subpart D, Section 20.410 - Groundwater Quality Standards for Class 1, Positive Resource Protection Area
All values are in mg/L (ppm) unless otherwise noted.

DL = Detection limit

NR = Not Required

NS = Not Sampled

^ = Denotes instrument related QC extends the control limits

f = NS and i = MSL Recovery outside of limits.

NM = Not Measured

mV

DL = Detection limit
NR = Not Required
NS = Not Sampled
^ = Denotes instrument related QC extends the control limits
f = NS and i = MSL Recovery outside of limits.
NM = Not Measured
mV

degrees Celsius
milligrams/cubic meter
mg/L
milligrams/liter
mV

Temperature
Conductivity
Dissolved Oxygen
Oxygen Reduction Potential (ORP)

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Joliet Station #20, Joliet, IL

Sample: MW-02		Date	5/27/2015	8/4/2015	10/28/2015	2/9/2016	5/11/2016	8/3/2016	11/1/2016	2/8/2017	4/25/2017
Parameter	Standards	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
Arsenic	0.010	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Barium	2.0	0.0025	0.090	0.0025	0.084	0.0025	0.098	0.0025	0.11	0.0025	0.087
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.35	0.050	0.21	0.050	0.20	0.050	0.18	0.050	0.18
Cadmium	0.005	0.00050	0.00069	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	50	410	10	290	10	130	10	180	10	170
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	0.010	0.0010	0.0027	0.0010	0.0017	0.0010	0.0011	0.0010	0.0010
Copper	0.65	0.0020	0.0059	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
Fluoride	4.0	0.10	0.40	0.10	0.41	0.10	0.29	0.10	0.38	0.10	0.40
Iron	5.0	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
Manganese	0.15	0.0025	0.0031	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Mercury	0.002	0.00020	ND	0.00020	ND*	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.013	0.0020	0.0073	0.0020	0.0031	0.0020	0.0039	0.0020	0.0039
Nitrogen/Nitrate	10.0	0.10	0.43	0.10	1.2	0.10	1.0	0.10	1.5	0.10	1.5
Nitrogen/Nitrate, Nitrite	NA	0.10	0.43	0.10	1.2	0.10	1.0	0.10	1.5	0.10	1.5
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Percchlorate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.05	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	25	100	25	85	20	60	20	88	25	100
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	1,200	10	890	10	610	10	750	10	960
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND
HETX	11705	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND
pH	6.5 - 9.0	NA	6.83	NA	7.61	NA	7.05	NA	7.12	NA	7.13
Temperature	NA	NA	14.63	NA	16.75	NA	15.07	NA	11.10	NA	13.52
Conductivity	NA	NA	1.75	NA	1.38	NA	1.10	NA	0.92	NA	1.38
Dissolved Oxygen	NA	NA	1.96	NA	3.66	NA	4.47	NA	5.38	NA	4.25
ORP	NA	NA	13.9	NA	-51.3	NA	110.4	NA	80.7	NA	38.4

Note: Standards obtained from IAC, Title 35, Chapter 1, Part G20, Subject D, Section 620.410 - Groundwater Quality Standards for Class 1 Public Resource Groundwater
All values are in mg/l (ppm) unless otherwise noted.

DL - Detection limit
N/A - Not Applicable
ND - Not Detected
NM - Not Measured

Temp - Temperature °C
Conductivity - mS/cm
Dissolved Oxygen - mg/l
ORP - Oxygen Reduction Potential (ORP) mV

NR - Not Required
NS - Not Sampled

* = Element instrument related QC exceeds the control limits

F1 - NS and/or ASID Recovery outside of limits.

F2 - NS and/or ASID Recovery outside of control limits.

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

Sample: MW-03		Date	5/27/2015	8/4/2015	10/28/2015	2/10/2016	5/10/2016	8/31/2016	11/2/2016	2/6/2017	4/26/2017
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030
Arsenic	0.010	ND	0.0015	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Barium	2.0	ND	0.0025	0.094	0.0025	0.10	0.0025	0.098	0.0025	0.093	0.0025
Beryllium	0.004	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Boron	2.0	0.050	0.54	0.050	0.29	0.050	0.49	0.050	0.44	0.050	0.37
Cadmium	0.005	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050
Chloride	200.0	10	220	10	230	10	200	10	240	10	170
Chromium	0.1	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050
Cobalt	1.0	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Copper	0.65	0.0020	ND	0.0020	0.0021	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
Fluoride	4.0	0.10	0.43	0.10	0.47	0.10	0.41	0.10	0.48	0.10	0.45
Iron	5.0	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Lead	0.0075	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050
Manganese	0.15	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Mercury	0.002	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0026	0.0020	ND	0.0023	0.0020	ND	0.0020	ND	0.0020
Nitrogen/Nitrate	10.0	10	21	10	19	10	16	10	15	10	10
Nitrogen/Nitrate, Nitrite	NA	0.20	21	0.10	1.9	0.10	1.6	0.10	1.5	0.10	1.4
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Perchlorate	0.0049	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040
Selenium	0.05	0.0025	0.0063	0.0025	0.0066	0.0025	0.0048	0.013	ND	0.0025	0.0031
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	25	84	25	91	40	180	50	150	25	130
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	830	10	860	10	820	10	850	10	920
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.003	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005
BTEX	11.705	0.002	0.0015	0.002	0.0065	0.002	0.002	0.0027	0.002	0.002	0.002
pH	6.5 - 9.0	NA	7.37	NA	7.29	NA	7.11	NA	7.31	NA	7.07
Temperature	NA	16.14	NA	17.45	NA	13.85	NA	6.78	NA	13.77	NA
Conductivity	NA	1.23	NA	1.26	NA	1.50	NA	0.86	NA	1.18	NA
Dissolved Oxygen	NA	5.49	NA	6.03	NA	5.48	NA	5.93	NA	6.91	NA
ORP	NA	64.1	NA	76	NA	106.6	NA	94.8	NA	93.8	NA

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

DL = Detection Limit
NR = Not Required
NS = Not Sampled
ND = Not Detected
NM = Not Measured

NR = Not Required
NS = Not Sampled
ND = Not Detected
NM = Not Measured

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

degrees Celsius
millimhos/cm
milligrams/liter
millivolts

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

Sample: MW-04		Date	5/27/2015	8/4/2015	10/28/2015	2/10/2016	5/10/2016	8/31/2016	11/12/2016	2/6/2017	4/26/2017
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	0.0030	ND F1	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0010	0.0013 F1	0.0010	0.0015	0.0010	0.0013	0.0010	0.0013	0.0010	0.0013
Barium	2.0	0.0025	0.050 F1	0.0025	0.067	0.0025	0.083	0.0025	0.10	0.0025	0.10
Beryllium	0.004	0.0010	ND F1	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.36 F1	0.050	0.33	0.050	0.30	0.050	0.35	0.050	0.35
Cadmium	0.005	0.00050	ND F1	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	30.0	290	10	200	10	200	10	260	10	200
Chromium	0.1	0.0050	ND F1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	0.0062 F1	0.0010	0.0047	0.0010	0.0041	0.0010	0.0075	0.0010	0.0046
Copper	0.65	0.0020	ND F1	0.0020	0.0072	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
Fluoride	4.0	0.10	0.43	0.10	0.49	0.10	0.45	0.10	0.51	0.10	0.50
Iron	50.0	0.10	ND F1	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Lead	0.0075	0.00050	ND F1	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.0025	ND F1	0.0025	ND	0.0023	0.0034	0.0025	ND	0.0025	ND
Mercury	0.002	0.00020	ND	0.00020	ND *	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0023 F1	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Nitrogen/Nitrate	10.0	0.10	2.5	0.10	1.3	0.10	1.7	0.10	2.1	0.10	1.8
Nitrogen/Nitrate, Nitrite	NA	0.20	2.5	0.10	1.3	0.10	1.7	0.10	1.8	0.10	1.9
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Perrchlorate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.095	0.0025	ND F1	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Silver	0.05	0.00050	ND F1	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	30	88	25	92	20	100	25	100	50	130
Thallium	0.002	0.0020	ND F1	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	980	10	770	10	780	10	760	10	860
Vanadium	0.049	0.0050	ND F1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND F1	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND
BTEX	11.705	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND
pH	6.5 - 9.0	NA	7.31	NA	6.80	NA	7.07	NA	7.22	NA	6.71
Temperature	NA	15.49	NA	13.44	NA	12.43	NA	12.83	NA	19.61	NA
Conductivity	NA	1.34	NA	1.20	NA	0.80	NA	1.21	NA	1.33	NA
Dissolved Oxygen	NA	6.54	NA	5.60	NA	6.44	NA	7.00	NA	3.56	NA
ORP	NA	36.7	NA	104.2	NA	99.2	NA	150.9	NA	71.1	NA

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

DL = Detection limit
NR = Not Required
NS = Not Sampled
D = Denotes measurement related UC exceeds the control limits

F1 = M5 and/or M10

NA = Not Applicable

ND = Not Detected

NM = Not Measured

DL = Detection limit

ND = Not Detected

NS = Not Sampled

NR = Not Required

DL = Detection limit

ND = Not Detected

NS = Not Sampled

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NS = Not Sampled

NR = Not Required

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

Sample: MW-05		Date	5/27/2015	8/4/2015	10/28/2015	2/10/2016	5/10/2016	8/31/2016	11/2/2016	2/6/2017	4/26/2017
Parameter	Standards	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
Arsenic	0.010	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Barium	2.0	0.0025	0.053	0.0025	0.060	0.0025	0.057	0.0025	0.063	0.0025	0.054
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	1.1	0.050	0.57	0.050	0.45	0.050	0.69	0.050	0.40
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	10	250	10	180	10	210	10	230	10	120
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	ND	0.0010	0.0014	0.0010	ND	0.0010	ND	0.0010	ND
Copper	0.65	0.0020	0.0026	0.0020	0.015	0.0020	0.0032	0.0020	ND	0.0020	ND
Cyanide	0.2	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010	ND
Fluoride	4.0	0.10	0.54	0.10	0.52	0.10	0.38	0.10	0.42	0.10	0.51
Iron	5.0	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Lead	0.0075	0.00050	ND	0.00050	0.00074	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.0025	ND	0.0025	0.012	0.0025	0.0046	0.0025	ND	0.0025	ND
Mercury	0.002	0.00020	ND	0.00020	ND*	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0035	0.0020	0.011	0.0020	0.0037	0.0020	0.0027	0.0020	0.0044
Nitrogen/Nitrate	10.0	1.0	1.5	1.0	0.18	1.0	0.10	1.1	0.10	1.7	0.86
Nitrogen/Nitrite, Nitric	NA	0.10	1.5	0.10	0.18	0.10	0.10	1.1	0.10	1.7	0.86
Nitrogen/Nitrite, Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Perchlorate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.05	0.0025	0.025	0.0025	0.013	0.0025	0.0030	0.0025	ND	0.0025	ND
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	50	290	50	260	50	140	25	110	50	270
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	1,000	10	930	10	760	10	770	10	910
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.0005	ND	0.0005	0.0008	0.0005	ND	0.0005	ND	0.0005	ND
BTEX	11,705	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND
pH	6.5 - 9.0	NA	7.25	NA	7.31	NA	7.12	NA	7.25	NA	6.88
Temperature	NA	18.15	NA	21.19	NA	14.30	NA	8.60	NA	14.22	NA
Conductivity	NA	1.49	NA	1.47	NA	1.31	NA	0.84	NA	1.24	NA
Dissolved Oxygen	NA	6.73	NA	2.77	NA	2.29	NA	4.11	NA	5.76	NA
ORP	NA	92.2	NA	-27.6	NA	107.2	NA	123.3	NA	78.3	NA

Notes: Standards obtained from IAC, Table 35, Chapter 1, Part 200, Subpart D, Section 620.410 - Groundwater Quality Standards for Class 1 Public Resource Groundwater.
All values are in mg/L unless otherwise noted.

DL = Detection limit
ND = Not Required
N/A = Not Applicable
N.D. = Not Detected
NA = Not Measured

NR = Not Required
NS = Not Sampled
* = Detectable/estimated value
F1 = MS and/or NSD Recovery outside of limits.

°C = degrees Celsius
ms/cm³ = millistemens/cm³
mg/L = milligrams/liter
mV = millivolts

Temperature
Conductivity
Dissolved Oxygen
Oxygen Reduction Potential (ORP)

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

Sample: MW-06		Date	5/28/2015	8/5/2015	10/27/2015	2/11/2016	5/12/2016	9/1/2016	11/3/2016	2/7/2017	2/7/2017	4/27/2017
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL
Antimony	0.006	0.0030	ND	0.0010	0.0016	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0010	0.0017	0.0010	0.0010	ND	0.0010	0.0016	0.0050	ND ^a	0.0010	0.0014
Barium	2.0	0.0025	0.14	0.0025	0.11	0.0025	0.12	0.0025	0.14	0.0025	0.12	0.0025
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND ^a	0.0010
Boron	2.0	0.050	0.19	0.050	0.21	0.050	0.22	0.050	0.17	0.050	0.28	0.050
Cadmium	0.005	0.00050	ND	0.00030	ND	0.00030	ND	0.00050	ND	0.00050	ND	0.00050
Chloride	200.0	10	270	10	140	10	130	10	230	10	79	10
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050
Cobalt	1.0	0.0010	0.0015	0.0010	0.0011	0.0010	0.0010	0.0010	0.0010	ND	0.0010	ND
Copper	0.65	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Cyanide	0.2	0.010	0.054	0.010	ND	0.010	ND	0.010	ND	0.010	ND	0.010
Fluoride	4.0	0.10	0.35	0.10	0.39	0.10	0.2	0.10	0.34	0.10	0.38	0.10
Iron	5.0	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10
Lead	0.0075	0.00040	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050
Manganese	0.15	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025
Mercury	0.002	0.00010	ND	0.00020	ND*	0.00020	ND	0.00020	ND	0.00020	ND	0.00020
Nickel	0.1	0.0020	0.0034	0.0020	0.0023	0.0020	0.0026	0.0020	0.0020	0.0020	0.0020	0.0020
Nitrogen/Nitrate	10.0	0.10	1.2	0.10	0.35	0.10	0.47	0.10	1.6	0.10	0.43	0.10
Nitrogen/Nitrite	NA	0.10	1.2	0.10	0.35	0.10	0.47	0.10	1.6	0.10	0.43	0.10
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020
Prehalogenate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040
Selenium	0.05	0.0015	0.0036	0.0025	ND	0.0025	0.0035	0.0027	0.0025	0.0030	0.0025	0.0025
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050
Sulfate	400.0	25	94	50	110	25	120	50	140	50	160	50
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Total Dissolved Solids	1200	10	870	10	650	10	880	10	530	10	590	10
Vanadium	0.049	0.0050	0.0060	0.0050	0.0063	0.0050	0.0065	0.0050	0.0054	0.0050	0.0066	0.0060
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020
Benzene	0.003	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005
BTX	11705	0.002	0.00073	0.002	ND	0.002	ND	0.002	0.0029	0.002	0.0027	0.002
pH	6.5-9.0	NA	7.60	NA	7.79	NA	7.02	NA	7.30	NA	7.31	NA
Temperature	NA	NA	16.30	NA	18.55	NA	14.11	NA	9.02	NA	13.65	NA
Conductivity	NA	NA	1.19	NA	1.11	NA	1.12	NA	0.89	NA	1.16	NA
Dissolved Oxygen	NA	NA	6.80	NA	5.23	NA	5.42	NA	6.28	NA	5.88	NA
ORP	NA	NA	120.7	NA	-16.5	NA	164.8	NA	114.3	NA	50.1	NA

Notes Standards obtained from IAC, Title 35, Chapter 1, Part 620, Subpart D, Section 6.20.410 • Grandawizer Quality Standards for Class J Portable Resource Grandawizer
All values are in mg/L (pmol) unless otherwise noted.

NR = Not Required
NS = Not Sampled
 Δ Denotes recruitment related QC exceeds the control limit
F1 - MS and/or MSD Recovery outside of limits.

Temperature	$^{\circ}\text{C}$	degrees Celsius
Conductivity	micro-	millimhos/cm/meters
Dissolved Oxygen	mg/L	milligrams/liter
Electrolytic Potential (ORP)	mV	millivolt

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

Sample: MWY-07		Date	5/28/2015	8/5/2015	10/27/2015	2/11/2016	5/12/2016	9/1/2016	11/3/2016	2/7/2017	4/27/2017
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030
Arsenic	0.010	0.0013	0.0010	ND	0.0010	0.0017	0.0030	ND	0.0010	0.0010	ND
Barium	20	0.0025	0.12	0.0025	0.10	0.0025	0.15	0.0033	0.12	0.0025	0.15
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.16	0.050	0.19	0.050	0.16	0.050	0.20	0.050	0.23
Cadmium	0.005	0.00030	ND	0.00050	ND	0.00030	ND	0.00050	ND	0.00030	ND
Chloride	200.0	10	260	10	110	10	240	10	77	10	84
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Copper	0.65	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
Fluoride	4.0	0.10	0.35	0.10	0.32	0.10	0.33	0.10	0.35	0.10	0.32
Iron	5.0	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
Manganese	0.15	0.0025	0.0026	0.0025	ND	0.0025	0.0041	0.0025	0.010	0.0025	0.0025
Mercury	0.002	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0034	0.0020	ND	0.0020	0.0030	0.0020	0.0036	0.0020	0.0022
Nitrogen/Nitrate	10.0	1.0	1.0	0.37	0.10	0.51	0.10	1.7	0.10	1.4	0.10
Nitrogen/Nitrate, Nitrite	NA	0.10	1.0	0.37	0.10	0.51	0.10	1.7	0.10	1.4	0.10
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Perchlorate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.05	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Silver	0.05	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	25	80	25	99	50	110	50	140	50	180
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	860	10	640	10	620	10	860	10	510
Vanadium	0.049	0.0050	ND	0.0050	0.0051	0.0050	0.0050	0.0077	0.0050	ND	0.0050
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND
BTEX	11.705	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND
pH	6.5-9.0	NA	7.52	NA	7.75	NA	7.21	NA	7.35	NA	7.27
Temperature	NA	17.16	NA	21.99	NA	14.87	NA	5.97	NA	13.22	NA
Conductivity	NA	1.30	NA	1.04	NA	0.86	NA	1.12	NA	0.86	NA
Dissolved Oxygen	NA	4.82	NA	1.80	NA	3.74	NA	6.33	NA	4.17	NA
ORP	NA	128.5	NA	-41.0	NA	147.0	NA	129.1	NA	74.0	NA

Notes: Standards obtained from IAC, Title 31, Chapter 1, Part 6.0, Subpart D, Section 6.20, 10 - Groundwater Quality Standards for Class I Public Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

NR = Not Required
NS = Not Sampled
* Denotes enforcement related UC's exceed the control limits
F = NS and/or NSD Recovery outside of limits.

°C degrees Celsius
mV millivolts
mm/cm² millibars/cm²
mg/L milligrams/liter

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

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

Sample: MW-08		Date	5/27/2015	8/4/2015	10/27/2015	2/9/2016	5/1/2016	8/30/2016	11/1/2016	2/7/2017	4/25/2017
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0.006	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030
Arsenic	0.010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Barium	2.0	0.0025	0.037	0.0025	0.044	0.0025	0.055	0.0025	0.044	0.0025	0.069
Beryllium	0.004	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0025
Boron	2.0	0.050	0.11	0.050	0.15	0.050	0.15	0.050	0.14	0.050	0.18
Cadmium	0.005	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050
Chloride	200.0	10	270	10	130	2.0	70	10	190	10	300
Chromium	0.1	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050
Cobalt	1.0	0.0010	0.0018	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Copper	0.65	0.0020	0.0039	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
Fluoride	4.0	0.10	0.44	0.10	0.39	0.10	0.32	0.10	0.36	0.10	0.42
Iron	5.0	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Lead	0.0075	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050
Manganese	0.15	0.0025	0.0044	0.0025	0.0029	0.0025	ND	0.0025	0.0034	0.0025	0.0043
Mercury	0.002	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020
Nickel	0.1	0.0020	0.0033	0.0020	0.0020	ND	0.0020	ND	0.0039	0.0020	ND
Nitrogen/Nitrate	10.0	0.10	1.7	0.10	0.72	0.10	1.0	0.10	0.82	0.10	1.2
Nitrogen/Nitrate, Nitrite	NA	0.10	1.7	0.10	0.72	0.10	1.0	0.10	0.82	0.10	1.2
Nitrigen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Perrchlorate	0.0049	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040
Selenium	0.05	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Silver	0.05	0.00050	ND ^a	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	5.0	25	10	31	10	41	10	36	20	70
Thallium	0.002	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020
Total Dissolved Solids	1,200	10	760	10	540	10	470	10	740	10	450
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005
BTX	11.705	0.002	ND	0.002	ND	0.002	ND	0.0016	ND	0.002	ND
pH	6.5 - 9.0	NA	7.26	NA	7.47	NA	6.95	NA	7.08	NA	7.05
Temperature	NA	NA	17.90	NA	22.19	NA	14.00	NA	7.88	NA	14.82
Conductivity	NA	NA	1.57	NA	0.98	NA	0.86	NA	1.28	NA	1.16
Dissolved Oxygen	NA	NA	3.82	NA	3.84	NA	3.86	NA	5.38	NA	4.83
ORP	NA	NA	.9.9	NA	.19.0	NA	14.63	NA	41.1	NA	-15.4

Notes Standards obtained from IAC, Title 35, Chapter 1, Part 620, Subpart D, Section 6.20.10 - Groundwater Quality Standards for Class I Possible Resource Contaminants
All values are in mg/L (ppm) unless otherwise noted.

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

NR = Not Required
NS = Not Sampled
^a Denotes measurement related QC exceeds the external limits
F = ND or NSD

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

degrees Celsius
millimhos/cm
mg/L
millivolts
mV

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

Sample: MW-09		Date	5/27/2015	8/4/2015	10/27/2015	2/9/2016	5/1/2016	8/30/2016	11/1/2016	2/8/2017	4/25/2017
Parameter	Standard*	DL.	Result	DL.	Result	DL.	Result	DL.	Result	DL.	Result
Animony	0.006	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND
Arsenic	0.010	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Barium	2.0	0.0025	0.018	0.0025	0.013	0.0025	0.013	0.0025	0.017	0.0025	0.014
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	20	0.050	0.37	0.050	0.38	0.050	0.33	0.050	0.40	0.050	0.47
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	2600.0	10	340	10	230	10	220	10	170	20	19
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	0.017	0.0010	0.011	0.016	0.010	0.010	0.050	0.016	0.010
Copper	0.65	0.0070	0.0023	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
Fluoride	4.0	0.10	0.44	0.10	0.27	0.10	0.35	0.10	0.45	0.10	0.31
Iron	5.0	0.10	1.0	0.10	ND	0.10	170	0.10	ND	2.0	3400
Lead	0.0075	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.0025	0.66	0.0025	1.4	0.0025	0.79	0.0025	2.3	0.050	6.0
Mercury	0.002	0.00020	ND	0.00020	ND*	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.00020	0.026	0.0020	0.021	0.025	0.0020	0.071	0.0020	0.17	0.0020
Nitrogen/Nitrate	10.0	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Nitrogen/Nitrate/Nitrite	NA	0.10	ND	0.10	ND	0.10	ND	0.10	ND	0.10	ND
Nitrogen/Nitrite	NA	0.020	ND	0.020	0.020	ND	0.020	ND	0.020	ND	0.020
Perchlorate	0.0049	0.00040	ND	0.0040	ND	0.080	ND	0.040	ND	0.0040	ND
Selenium	0.05	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Silver	0.05	0.00050	ND*	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	500	1100	1900	500	1000	1000	3600	2500	12000	8100
Thallium	0.002	0.00020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	17	3100	10	3900	10	2600	13	4700	50	19000
Vanadium	0.049	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Zinc	5.0	0.020	0.028	0.020	0.17	0.020	0.050	0.020	0.70	0.020	2.3
Benzene	0.0035	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND
BTX	11705	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND
pH	6.5-9.0	NA	6.59	NA	6.52	NA	6.37	NA	6.03	NA	5.73
Temperature	NA	19.34	NA	22.72	NA	13.47	NA	7.31	NA	13.73	NA
Conductivity	NA	3.51	NA	4.04	NA	3.53	NA	3.29	NA	9.49	NA
Dissolved Oxygen	NA	0.81	NA	1.00	NA	0.95	NA	0.60	NA	1.90	NA
ORP	NA	-96.9	NA	-108.0	NA	-24.9	NA	-19.6	NA	-12.9	NA
										332.9	NA
										-94.2	NA
										34.9	NA
										-51.1	NA

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 20.410 - Groundwater Quality Standards, for Class 1 Possible Response Groundwater. All values are in mg/L (ppm) unless otherwise noted.

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

*C = degrees Celsius
mg/m³ = milligrams/liter
mg/L = milligrams/liter
mV = millivolts

Temperature Conductivity Dissolved Oxygen
Temperature Conductivity Dissolved Oxygen
Denotes measurement outside QC, *exceeds the control limits
F1 = M5 and/or NSD Recovery outside of limits.

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

Sample: MW-10		Date	5/28/2015	8/4/2015	10/28/2015	2/10/2016	5/12/2016	8/31/2016	11/2/2016	2/7/2017	4/26/2017
Parameter	Standards	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
Arsenic	0.010	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Barium	2.0	0.0025	0.046	0.0025	0.035	0.0025	0.041	0.0025	0.042	0.0025	0.034
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.050	0.35	0.050	0.32	0.050	0.44	0.050	0.43	0.050	0.32
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	10	320	10	180	10	210	10	200	10	290
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Copper	0.65	0.0020	ND	0.0020	0.0027	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
Fluoride	4.0	0.10	0.43	0.10	0.46	0.10	0.41	0.10	0.45	0.10	0.46
Iron	5.0	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
Manganese	0.15	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Mercury	0.002	0.00020	ND	0.00020	ND*	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0023	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Nitrogen/Nitrate	10.0	0.10	2.9	0.10	1.5	0.10	2.4	0.10	2.2	0.10	2.6
Nitrogen/Nitrate, Nitrite	NA	0.20	2.9	0.10	1.5	0.20	2.4	0.20	2.2	0.20	2.6
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Percarbonate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.05	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND	0.0025	ND
Silver	0.05	0.00050	ND*	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	50	25	97	25	86	25	110	25	120	25
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	1100	10	710	10	810	10	800	10	920
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.005	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND
BE/TX	11.705	0.002	ND	0.002	ND	0.002	ND	0.002	ND	0.002	ND
pH	6.5 - 9.0	NA	7.27	NA	6.92	NA	7.04	NA	7.17	NA	7.02
Temperature	NA	NA	15.02	NA	17.42	NA	12.90	NA	7.17	NA	13.60
Conductivity	NA	NA	1.37	NA	1.19	NA	1.40	NA	0.88	NA	1.29
Dissolved Oxygen	NA	NA	7.41	NA	5.39	NA	6.49	NA	7.45	NA	6.76
ORP	NA	NA	134.8	NA	15.3	NA	113.8	NA	121.8	NA	54.2

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

NR - Not Required
NS - Not Sampled
* - Denotes instrument related QC exceeds the control limits
F1 - MS and/or MSL Recovery outside of limits.

DL - Detection limit
NA - Not Applicable
ND - Not Detected
NM - Not Measured
C - Conductivity
mS/cm²
T - Temperature
mg/L
Dissolved Oxygen
ppm
Oxygen Reduction Potential (ORP)
mv
dl - denatured Cellulose
ml/milliliters (milliliters)
mg/L - milligrams/liter
mv - millivolts

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

Sample: MW-11		Date	5/28/2015	8/4/2015	10/29/2015	2/11/2016	5/11/2016	9/1/2016	11/2/2016	2/7/2017	4/26/2017
Parameter	Standards	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
Arsenic	0.010	0.0010	0.0015	0.0010	0.0026	0.0010	0.0018	0.0010	0.0015	0.0010	0.0014
Barium	2.0	0.0025	0.059	0.062	0.0025	0.069	0.0025	0.074	0.0025	0.056	0.0025
Beryllium	0.004	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010	ND
Boron	2.0	0.0010	1.0	0.050	1.4	0.030	0.78	0.050	1.4	0.050	1.6
Cadmium	0.005	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Chloride	200.0	10	290	10	150	10	120	10	230	10	10
Chromium	0.1	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Cobalt	1.0	0.0010	0.0016	0.0010	0.0015	0.0010	ND	0.0010	ND	0.0010	ND
Copper	0.65	0.0020	0.0073	0.0020	0.0022	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
Fluoride	4.0	0.10	0.35	0.10	0.38	0.10	0.30	0.10	0.34	0.10	0.31
Iron	5.0	0.10	ND	0.10	ND	0.10	0.12	0.10	ND	0.10	ND
Lead	0.0075	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Manganese	0.15	0.0025	ND	0.0025	0.49	0.0025	0.040	0.0024	0.0025	ND	0.0025
Mercury	0.002	0.00020	ND	0.00020	ND*	0.00020	ND	0.00020	ND	0.00020	ND
Nickel	0.1	0.0020	0.0097	0.0020	0.0099	0.0020	0.0028	0.0020	0.0031	0.0020	0.0020
Nitrogen/Nitrate	10.0	0.10	1.1	0.10	0.15	0.10	0.48	0.10	1.8	0.10	1.4
Nitrogen/Nitrate, Nitrite	NA	0.10	1.1	0.10	0.15	0.10	0.48	0.10	1.8	0.10	1.4
Nitrogen/Nitrite	NA	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Percchlorate	0.0049	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND
Selenium	0.05	0.0025	0.0025	0.0050	0.0025	ND	0.0025	0.0040	0.0025	0.0025	0.0025
Silver	0.05	0.00050	ND*	0.00050	ND	0.00050	ND	0.00050	ND	0.00050	ND
Sulfate	400.0	25	84	50	110	50	170	50	140	50	130
Thallium	0.002	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0020	ND
Total Dissolved Solids	1,200	10	860	10	700	10	740	10	860	10	920
Vanadium	0.049	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND
Zinc	5.0	0.020	ND	0.020	ND	0.020	ND	0.020	ND	0.020	ND
Benzene	0.0035	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND
BTEX	1170.5	0.002	ND	0.002	0.00094	0.002	ND	0.002	0.0023	0.002	0.002
pH	6.5 - 9.0	NA	7.42	NA	7.40	NA	7.26	NA	7.15	NA	7.24
Temperature	NA	NA	17.77	NA	17.03	NA	12.34	NA	6.49	NA	14.15
Conductivity	NA	NA	1.45	NA	1.08	NA	1.13	NA	0.87	NA	1.19
Dissolved Oxygen	NA	NA	5.44	NA	1.52	NA	8.45	NA	8.12	NA	6.22
ORP	NA	NA	121.5	NA	-25.7	NA	86.5	NA	139.1	NA	48.6

Note Standards obtained from IAC, Title 35, Chapter 1, Part G.9, Subpart D, Section 20.410 - Groundwater Quality Standards for Class I, Possible Resource Contaminants
All values are in mg/L (PPM) unless otherwise indicated.

NR - Not Required
NS - Not Sampled
* Denotes measurement failed QC, exceeds the control limits
F1 - NS and/or ND for NSD Recovery outside of limits.

DL - Detection limit
NA - Not Applicable
ND - Not Detected
N/A - Not Available

Temperature °C
Conductivity $\mu\text{mho/cm}^3$
Electrical Conductance mho/cm
ORP mV

Thickness mm
Depth m
Water Head m
Elevation m

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: 500-127127-1

Client Project/Site: Joliet #29 Station Ash Ponds (CCA)

For:

KPRG and Associates, Inc.

14665 West Lisbon Road,

Suite 2B

Brookfield, Wisconsin 53005

Attn: Richard Gnat

Authorized for release by:

5/11/2017 2:59:40 PM

Eric Lang, Manager of Project Management

(708)534-5200

eric.lang@testamericainc.com

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

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

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Case Narrative

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

TestAmerica Job ID: 500-127127-1

Job ID: 500-127127-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-127127-1

Comments

No additional comments.

Receipt

The samples were received on 4/26/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 2.0° C, 2.9° C, 3.6° C, 3.8° C, 4.5° C, 4.9° C and 4.9° C.

GC/MS VOA

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

Metals

Method(s) 6020A: The continuing calibration verification (CCV) associated with batch 500-382851 recovered above the upper control limit for Copper. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 6020A: The following sample was diluted due to the nature of the sample matrix: MW-09 (500-127127-3) and DUPLICATE (500-127127-4) at 5.0. Elevated reporting limits (RLs) are provided.

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

Field Service / Mobile Lab

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

General Chemistry

Method(s) 314.0: The continuing calibration verification (CCV) associated with batch 320-162663 recovered above the upper control limit for <perchlorate> by 1%. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Method Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

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

TestAmerica Chicago

MWG13-15_62345
5/11/2017

Sample Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-127127-1	MW-02	Water	04/25/17 12:59	04/26/17 09:00
500-127127-2	MW-08	Water	04/25/17 14:07	04/26/17 09:00
500-127127-3	MW-09	Water	04/25/17 15:02	04/26/17 09:00
500-127127-4	DUPLICATE	Water	04/25/17 00:00	04/26/17 09:00
500-127127-5	MW-03	Water	04/26/17 10:43	04/27/17 10:30
500-127127-6	MW-04	Water	04/26/17 09:08	04/27/17 10:30
500-127127-7	MW-05	Water	04/26/17 11:55	04/27/17 10:30
500-127127-8	MW-10	Water	04/26/17 13:22	04/27/17 10:30
500-127127-9	MW-11	Water	04/26/17 15:32	04/27/17 10:30
500-127127-10	MW-06	Water	04/27/17 10:02	04/27/17 13:50
500-127127-11	MW-07	Water	04/27/17 10:57	04/27/17 13:50
500-127127-12	Trip Blank	Water	04/25/17 00:00	04/27/17 13:50

Client Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Client Sample ID: MW-02

Lab Sample ID: 500-127127-1

Date Collected: 04/25/17 12:59

Matrix: Water

Date Received: 04/26/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			05/04/17 22:06	1
Toluene	<0.00050		0.00050		mg/L			05/04/17 22:06	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/04/17 22:06	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/04/17 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126					05/04/17 22:06	1
Toluene-d8 (Surr)	102		75 - 120					05/04/17 22:06	1
4-Bromofluorobenzene (Surr)	110		72 - 124					05/04/17 22:06	1
Dibromofluoromethane	91		75 - 120					05/04/17 22:06	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			05/02/17 15:24	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		04/27/17 15:11	05/03/17 20:09	1
Arsenic	<0.0010		0.0010		mg/L		04/27/17 15:11	05/03/17 20:09	1
Barium	0.10		0.0025		mg/L		04/27/17 15:11	05/03/17 20:09	1
Beryllium	<0.0010		0.0010		mg/L		04/27/17 15:11	05/03/17 20:09	1
Boron	0.15		0.050		mg/L		04/27/17 15:11	05/03/17 20:09	1
Cadmium	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:20	1
Chromium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 13:20	1
Cobalt	<0.0010		0.0010		mg/L		04/27/17 15:11	04/28/17 13:20	1
Copper	<0.0020		0.0020		mg/L		04/27/17 15:11	04/28/17 13:20	1
Iron	<0.10		0.10		mg/L		04/27/17 15:11	04/28/17 13:20	1
Lead	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:20	1
Manganese	<0.0025		0.0025		mg/L		04/27/17 15:11	04/28/17 13:20	1
Nickel	0.0050		0.0020		mg/L		04/27/17 15:11	05/03/17 20:09	1
Selenium	<0.0025		0.0025		mg/L		04/27/17 15:11	05/03/17 20:09	1
Silver	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:20	1
Thallium	<0.0020		0.0020		mg/L		04/27/17 15:11	04/28/17 13:20	1
Vanadium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 13:20	1
Zinc	<0.020		0.020		mg/L		04/27/17 15:11	05/03/17 20:09	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/02/17 12:00	05/03/17 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		05/05/17 10:30	05/05/17 16:35	1
Sulfate	140		25		mg/L			05/05/17 11:06	5
Chloride	330		10		mg/L			04/30/17 20:19	5
Nitrogen, Nitrate	1.8		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	890		10		mg/L			04/30/17 22:30	1
Fluoride	0.32		0.10		mg/L			05/01/17 14:31	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/26/17 18:11	1
Nitrogen, Nitrate Nitrite	1.8		0.10		mg/L			05/04/17 22:35	1

TestAmerica Chicago

MWG13-15_62347
5/11/2017

Client Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Client Sample ID: MW-08

Lab Sample ID: 500-127127-2

Date Collected: 04/25/17 14:07

Matrix: Water

Date Received: 04/26/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			05/04/17 22:32	1
Toluene	<0.00050		0.00050		mg/L			05/04/17 22:32	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/04/17 22:32	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/04/17 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Sur)	106		75 - 126					05/04/17 22:32	1
Toluene-d8 (Sur)	101		75 - 120					05/04/17 22:32	1
4-Bromofluorobenzene (Sur)	109		72 - 124					05/04/17 22:32	1
Dibromofluoromethane	90		75 - 120					05/04/17 22:32	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			05/02/17 16:16	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			04/27/17 15:11	05/03/17 20:13
Arsenic	<0.0010		0.0010		mg/L			04/27/17 15:11	05/03/17 20:13
Barium	0.056		0.0025		mg/L			04/27/17 15:11	05/03/17 20:13
Beryllium	<0.0010		0.0010		mg/L			04/27/17 15:11	05/03/17 20:13
Boron	0.10		0.050		mg/L			04/27/17 15:11	05/03/17 20:13
Cadmium	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:24
Chromium	<0.0050		0.0050		mg/L			04/27/17 15:11	04/28/17 13:24
Cobalt	<0.0010		0.0010		mg/L			04/27/17 15:11	04/28/17 13:24
Copper	<0.0020 ^		0.0020		mg/L			04/27/17 15:11	04/28/17 13:24
Iron	<0.10		0.10		mg/L			04/27/17 15:11	04/28/17 13:24
Lead	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:24
Manganese	<0.0025		0.0025		mg/L			04/27/17 15:11	04/28/17 13:24
Nickel	0.0035		0.0020		mg/L			04/27/17 15:11	05/03/17 20:13
Selenium	<0.0025		0.0025		mg/L			04/27/17 15:11	05/03/17 20:13
Silver	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:24
Thallium	<0.0020		0.0020		mg/L			04/27/17 15:11	04/28/17 13:24
Vanadium	<0.0050		0.0050		mg/L			04/27/17 15:11	04/28/17 13:24
Zinc	<0.020		0.020		mg/L			04/27/17 15:11	05/03/17 20:13

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L			05/02/17 12:00	05/03/17 12:52

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L			05/05/17 10:30	05/05/17 16:35
Sulfate	57		20		mg/L			05/05/17 11:09	4
Chloride	280		10		mg/L			04/30/17 20:20	5
Nitrogen, Nitrate	1.4		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	800		10		mg/L			04/30/17 22:35	1
Fluoride	0.31		0.10		mg/L			05/01/17 14:33	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/26/17 18:11	1
Nitrogen, Nitrate Nitrite	1.4		0.10		mg/L			05/04/17 22:37	1

TestAmerica Chicago

MWG13-15_62348
5/11/2017

Client Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Client Sample ID: MW-09

Lab Sample ID: 500-127127-3

Date Collected: 04/25/17 15:02

Matrix: Water

Date Received: 04/26/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			05/04/17 22:58	1
Toluene	<0.00050		0.00050		mg/L			05/04/17 22:58	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/04/17 22:58	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/04/17 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Sur)	105		75 - 126					05/04/17 22:58	1
Toluene-d8 (Sur)	102		75 - 120					05/04/17 22:58	1
4-Bromofluorobenzene (Sur)	109		72 - 124					05/04/17 22:58	1
Dibromofluoromethane	89		75 - 120					05/04/17 22:58	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040	^	0.0040		mg/L			05/03/17 14:51	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		04/27/17 15:11	05/03/17 21:02	1
Arsenic	<0.0050		0.0050		mg/L		04/27/17 15:11	05/05/17 17:40	5
Barium	0.014		0.013		mg/L		04/27/17 15:11	05/05/17 17:40	5
Beryllium	<0.0010		0.0010		mg/L		04/27/17 15:11	05/03/17 21:02	1
Boron	0.30		0.050		mg/L		04/27/17 15:11	05/03/17 21:02	1
Cadmium	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:27	1
Chromium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 13:27	1
Cobalt	0.023		0.0010		mg/L		04/27/17 15:11	04/28/17 13:27	1
Copper	<0.0020	^	0.0020		mg/L		04/27/17 15:11	04/28/17 13:27	1
Iron	1000		0.50		mg/L		04/27/17 15:11	05/05/17 17:40	5
Lead	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:27	1
Manganese	1.9		0.0025		mg/L		04/27/17 15:11	04/28/17 13:27	1
Nickel	0.060		0.0020		mg/L		04/27/17 15:11	05/03/17 21:02	1
Selenium	<0.013		0.013		mg/L		04/27/17 15:11	05/05/17 17:40	5
Silver	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:27	1
Thallium	<0.0020		0.0020		mg/L		04/27/17 15:11	04/28/17 13:27	1
Vanadium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 13:27	1
Zinc	0.73		0.10		mg/L		04/27/17 15:11	05/05/17 17:40	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/02/17 12:00	05/03/17 12:54	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/05/17 10:30	05/05/17 16:35	1
Sulfate	4700		1000		mg/L			05/05/17 11:10	200
Chloride	180		10		mg/L			04/30/17 20:21	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	6500		25		mg/L			05/02/17 05:20	1
Fluoride	0.31		0.10		mg/L			05/01/17 14:36	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/26/17 18:12	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/04/17 22:39	1

TestAmerica Chicago

MWG13-15_62349
5/11/2017

Client Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Client Sample ID: DUPLICATE

Date Collected: 04/25/17 00:00

Date Received: 04/26/17 09:00

Lab Sample ID: 500-127127-4

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			05/04/17 23:24	1
Toluene	<0.00050		0.00050		mg/L			05/04/17 23:24	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/04/17 23:24	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/04/17 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126					05/04/17 23:24	1
Toluene-d8 (Surr)	100		75 - 120					05/04/17 23:24	1
4-Bromofluorobenzene (Surr)	110		72 - 124					05/04/17 23:24	1
Dibromofluoromethane	91		75 - 120					05/04/17 23:24	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040	^	0.0040		mg/L			05/03/17 15:30	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		04/27/17 15:11	05/03/17 21:06	1
Arsenic	<0.0050		0.0050		mg/L		04/27/17 15:11	05/05/17 17:44	5
Barium	<0.013		0.013		mg/L		04/27/17 15:11	05/05/17 17:44	5
Beryllium	<0.0010		0.0010		mg/L		04/27/17 15:11	05/03/17 21:06	1
Boron	0.31		0.050		mg/L		04/27/17 15:11	05/03/17 21:06	1
Cadmium	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:31	1
Chromium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 13:31	1
Cobalt	0.024		0.0010		mg/L		04/27/17 15:11	04/28/17 13:31	1
Copper	<0.0020	^	0.0020		mg/L		04/27/17 15:11	04/28/17 13:31	1
Iron	1100		0.50		mg/L		04/27/17 15:11	05/05/17 17:44	5
Lead	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:31	1
Manganese	2.0		0.0025		mg/L		04/27/17 15:11	04/28/17 13:31	1
Nickel	0.060		0.0020		mg/L		04/27/17 15:11	05/03/17 21:06	1
Selenium	<0.013		0.013		mg/L		04/27/17 15:11	05/05/17 17:44	5
Silver	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:31	1
Thallium	<0.0020		0.0020		mg/L		04/27/17 15:11	04/28/17 13:31	1
Vanadium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 13:31	1
Zinc	0.73		0.10		mg/L		04/27/17 15:11	05/05/17 17:44	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/02/17 12:00	05/03/17 12:58	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/05/17 10:30	05/05/17 16:36	1
Sulfate	4600		1000		mg/L			05/05/17 11:11	200
Chloride	180		10		mg/L			04/30/17 20:21	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	6600		25		mg/L			05/02/17 05:23	1
Fluoride	0.29		0.10		mg/L			05/01/17 14:39	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/26/17 18:12	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/04/17 22:42	1

TestAmerica Chicago

MWG13-15_62350
5/11/2017

Client Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Client Sample ID: MW-03

Date Collected: 04/26/17 10:43

Date Received: 04/27/17 10:30

Lab Sample ID: 500-127127-5

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			05/04/17 23:50	1
Toluene	<0.00050		0.00050		mg/L			05/04/17 23:50	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/04/17 23:50	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/04/17 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Sur)	106		75 - 126					05/04/17 23:50	1
Toluene-d8 (Sur)	102		75 - 120					05/04/17 23:50	1
4-Bromofluorobenzene (Sur)	111		72 - 124					05/04/17 23:50	1
Dibromofluoromethane	90		75 - 120					05/04/17 23:50	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			05/02/17 16:34	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			04/27/17 15:11	05/03/17 20:17
Arsenic	0.0011		0.0010		mg/L			04/27/17 15:11	05/03/17 20:17
Barium	0.096		0.0025		mg/L			04/27/17 15:11	05/03/17 20:17
Beryllium	<0.0010		0.0010		mg/L			04/27/17 15:11	05/03/17 20:17
Boron	0.45		0.050		mg/L			04/27/17 15:11	05/03/17 20:17
Cadmium	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:35
Chromium	<0.0050		0.0050		mg/L			04/27/17 15:11	04/28/17 13:35
Cobalt	<0.0010		0.0010		mg/L			04/27/17 15:11	04/28/17 13:35
Copper	<0.0020 ^		0.0020		mg/L			04/27/17 15:11	04/28/17 13:35
Iron	0.10		0.10		mg/L			04/27/17 15:11	04/28/17 13:35
Lead	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:35
Manganese	<0.0025		0.0025		mg/L			04/27/17 15:11	04/28/17 13:35
Nickel	<0.0020		0.0020		mg/L			04/27/17 15:11	05/03/17 20:17
Selenium	0.0050		0.0025		mg/L			04/27/17 15:11	05/03/17 20:17
Silver	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:35
Thallium	<0.0020		0.0020		mg/L			04/27/17 15:11	04/28/17 13:35
Vanadium	<0.0050		0.0050		mg/L			04/27/17 15:11	04/28/17 13:35
Zinc	<0.020		0.020		mg/L			04/27/17 15:11	05/03/17 20:17

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L			05/02/17 12:00	05/03/17 13:00

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L			05/06/17 12:40	05/06/17 13:21
Sulfate	110		25		mg/L				5
Chloride	210		10		mg/L			04/30/17 20:22	5
Nitrogen, Nitrate	2.6		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	890		10		mg/L			04/30/17 22:43	1
Fluoride	0.35		0.10		mg/L			05/01/17 14:49	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/27/17 16:05	1
Nitrogen, Nitrate Nitrite	2.6		0.20		mg/L			05/04/17 23:11	2

TestAmerica Chicago

MWG13-15_62351
5/11/2017

Client Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Client Sample ID: MW-04

Date Collected: 04/26/17 09:08

Date Received: 04/27/17 10:30

Lab Sample ID: 500-127127-6

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			05/05/17 00:17	1
Toluene	<0.00050		0.00050		mg/L			05/05/17 00:17	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/05/17 00:17	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/05/17 00:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126					05/05/17 00:17	1
Toluene-d8 (Surr)	102		75 - 120					05/05/17 00:17	1
4-Bromofluorobenzene (Surr)	111		72 - 124					05/05/17 00:17	1
Dibromofluoromethane	92		75 - 120					05/05/17 00:17	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			05/02/17 16:51	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		04/27/17 15:11	05/03/17 20:20	1
Arsenic	0.0011		0.0010		mg/L		04/27/17 15:11	05/03/17 20:20	1
Barium	0.084		0.0025		mg/L		04/27/17 15:11	05/03/17 20:20	1
Beryllium	<0.0010		0.0010		mg/L		04/27/17 15:11	05/03/17 20:20	1
Boron	0.29		0.050		mg/L		04/27/17 15:11	05/03/17 20:20	1
Cadmium	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:46	1
Chromium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 13:46	1
Cobalt	0.0052		0.0010		mg/L		04/27/17 15:11	04/28/17 13:46	1
Copper	<0.0020 ^		0.0020		mg/L		04/27/17 15:11	04/28/17 13:46	1
Iron	<0.10		0.10		mg/L		04/27/17 15:11	04/28/17 13:46	1
Lead	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:46	1
Manganese	<0.0025		0.0025		mg/L		04/27/17 15:11	04/28/17 13:46	1
Nickel	<0.0020		0.0020		mg/L		04/27/17 15:11	05/03/17 20:20	1
Selenium	<0.0025		0.0025		mg/L		04/27/17 15:11	05/03/17 20:20	1
Silver	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:46	1
Thallium	<0.0020		0.0020		mg/L		04/27/17 15:11	04/28/17 13:46	1
Vanadium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 13:46	1
Zinc	<0.020		0.020		mg/L		04/27/17 15:11	05/03/17 20:20	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/02/17 12:00	05/03/17 13:01	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/06/17 12:40	05/06/17 13:22	1
Sulfate	80		25		mg/L			05/05/17 11:15	5
Chloride	220		10		mg/L			04/30/17 20:22	5
Nitrogen, Nitrate	2.4		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	750		10		mg/L			05/01/17 01:17	1
Fluoride	0.37		0.10		mg/L			05/01/17 14:51	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/27/17 16:07	1
Nitrogen, Nitrate Nitrite	2.4		0.20		mg/L			05/04/17 23:12	2

TestAmerica Chicago

MWG13-15_62352
5/11/2017

Client Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Client Sample ID: MW-05

Date Collected: 04/26/17 11:55

Date Received: 04/27/17 10:30

Lab Sample ID: 500-127127-7

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			05/05/17 00:43	1
Toluene	<0.00050		0.00050		mg/L			05/05/17 00:43	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/05/17 00:43	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/05/17 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Sur)	103		75 - 126					05/05/17 00:43	1
Toluene-d8 (Sur)	102		75 - 120					05/05/17 00:43	1
4-Bromofluorobenzene (Sur)	108		72 - 124					05/05/17 00:43	1
Dibromoformmethane	88		75 - 120					05/05/17 00:43	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			05/02/17 17:09	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			04/27/17 15:11	05/03/17 20:32
Arsenic	<0.0010		0.0010		mg/L			04/27/17 15:11	05/03/17 20:32
Barium	0.059		0.0025		mg/L			04/27/17 15:11	05/03/17 20:32
Beryllium	<0.0010		0.0010		mg/L			04/27/17 15:11	05/03/17 20:32
Boron	0.62		0.050		mg/L			04/27/17 15:11	05/03/17 20:32
Cadmium	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:50
Chromium	<0.0050		0.0050		mg/L			04/27/17 15:11	04/28/17 13:50
Cobalt	<0.0010		0.0010		mg/L			04/27/17 15:11	04/28/17 13:50
Copper	<0.0020 ^		0.0020		mg/L			04/27/17 15:11	04/28/17 13:50
Iron	<0.10		0.10		mg/L			04/27/17 15:11	04/28/17 13:50
Lead	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:50
Manganese	<0.0025		0.0025		mg/L			04/27/17 15:11	04/28/17 13:50
Nickel	0.0025		0.0020		mg/L			04/27/17 15:11	05/03/17 20:32
Selenium	0.014		0.0025		mg/L			04/27/17 15:11	05/03/17 20:32
Silver	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:50
Thallium	<0.0020		0.0020		mg/L			04/27/17 15:11	04/28/17 13:50
Vanadium	0.0087		0.0050		mg/L			04/27/17 15:11	04/28/17 13:50
Zinc	<0.020		0.020		mg/L			04/27/17 15:11	05/03/17 20:32

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L			05/02/17 12:00	05/03/17 13:03

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L			05/06/17 12:40	05/06/17 13:22
Sulfate	170		50		mg/L			05/05/17 11:16	10
Chloride	190		10		mg/L			04/30/17 20:24	5
Nitrogen, Nitrate	1.6		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	760		10		mg/L			05/01/17 01:19	1
Fluoride	0.38		0.10		mg/L			05/01/17 14:54	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/27/17 16:07	1
Nitrogen, Nitrate Nitrite	1.6		0.10		mg/L			05/04/17 22:46	1

TestAmerica Chicago

MWG13-15_62353
5/11/2017

Client Sample Results

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

TestAmerica Job ID: 500-127127-1

Client Sample ID: MW-10

Date Collected: 04/26/17 13:22

Date Received: 04/27/17 10:30

Lab Sample ID: 500-127127-8

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			05/05/17 01:09	1
Toluene	<0.00050		0.00050		mg/L			05/05/17 01:09	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/05/17 01:09	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/05/17 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126					05/05/17 01:09	1
Toluene-d8 (Surr)	101		75 - 120					05/05/17 01:09	1
4-Bromo fluorobenzene (Surr)	108		72 - 124					05/05/17 01:09	1
Dibromofluoromethane	90		75 - 120					05/05/17 01:09	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			05/02/17 17:26	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			04/27/17 15:11	05/03/17 20:36
Arsenic	<0.0010		0.0010		mg/L			04/27/17 15:11	05/03/17 20:36
Barium	0.038		0.0025		mg/L			05/03/17 20:36	1
Beryllium	<0.0010		0.0010		mg/L			05/03/17 20:36	1
Boron	0.29		0.050		mg/L			05/03/17 20:36	1
Cadmium	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:54
Chromium	<0.0050		0.0050		mg/L			04/27/17 15:11	04/28/17 13:54
Cobalt	<0.0010		0.0010		mg/L			04/27/17 15:11	04/28/17 13:54
Copper	<0.0020 ^		0.0020		mg/L			04/27/17 15:11	04/28/17 13:54
Iron	<0.10		0.10		mg/L			04/27/17 15:11	04/28/17 13:54
Lead	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:54
Manganese	<0.0025		0.0025		mg/L			04/27/17 15:11	04/28/17 13:54
Nickel	<0.0020		0.0020		mg/L			04/27/17 15:11	05/03/17 20:36
Selenium	<0.0025		0.0025		mg/L			05/03/17 20:36	1
Silver	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 13:54
Thallium	<0.0020		0.0020		mg/L			04/27/17 15:11	04/28/17 13:54
Vanadium	<0.0050		0.0050		mg/L			04/27/17 15:11	04/28/17 13:54
Zinc	<0.020		0.020		mg/L			05/03/17 20:36	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L			05/02/17 12:00	05/03/17 13:04

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L			05/06/17 12:40	05/06/17 13:22
Sulfate	89		25		mg/L			05/05/17 11:17	5
Chloride	210		10		mg/L			04/30/17 20:25	5
Nitrogen, Nitrate	2.3		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	750		10		mg/L			05/01/17 01:22	1
Fluoride	0.35		0.10		mg/L			05/01/17 14:56	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/27/17 16:08	1
Nitrogen, Nitrate Nitrite	2.3		0.20		mg/L			05/04/17 23:13	2

TestAmerica Chicago

MWG13-15_62354
5/11/2017

Client Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Client Sample ID: MW-11

Date Collected: 04/26/17 15:32

Date Received: 04/27/17 10:30

Lab Sample ID: 500-127127-9

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			05/05/17 01:35	1
Toluene	<0.00050		0.00050		mg/L			05/05/17 01:35	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/05/17 01:35	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/05/17 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Sur)	106		75 - 126					05/05/17 01:35	1
Toluene-d8 (Sur)	101		75 - 120					05/05/17 01:35	1
4-Bromofluorobenzene (Sur)	110		72 - 124					05/05/17 01:35	1
Dibromofluoromethane	91		75 - 120					05/05/17 01:35	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			05/02/17 17:44	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		04/27/17 15:11	05/03/17 20:39	1
Arsenic	0.0014		0.0010		mg/L		04/27/17 15:11	05/03/17 20:39	1
Barium	0.051		0.0025		mg/L		04/27/17 15:11	05/03/17 20:39	1
Beryllium	<0.0010		0.0010		mg/L		04/27/17 15:11	05/03/17 20:39	1
Boron	1.1		0.050		mg/L		04/27/17 15:11	05/03/17 20:39	1
Cadmium	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:58	1
Chromium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 13:58	1
Cobalt	<0.0010		0.0010		mg/L		04/27/17 15:11	04/28/17 13:58	1
Copper	<0.0020 ^		0.0020		mg/L		04/27/17 15:11	04/28/17 13:58	1
Iron	<0.10		0.10		mg/L		04/27/17 15:11	04/28/17 13:58	1
Lead	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:58	1
Manganese	<0.0025		0.0025		mg/L		04/27/17 15:11	04/28/17 13:58	1
Nickel	<0.0020		0.0020		mg/L		04/27/17 15:11	05/03/17 20:39	1
Selenium	0.0034		0.0025		mg/L		04/27/17 15:11	05/03/17 20:39	1
Silver	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 13:58	1
Thallium	<0.0020		0.0020		mg/L		04/27/17 15:11	04/28/17 13:58	1
Vanadium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 13:58	1
Zinc	<0.020		0.020		mg/L		04/27/17 15:11	05/03/17 20:39	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/02/17 12:00	05/03/17 13:05	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/06/17 12:40	05/06/17 13:23	1
Sulfate	100		25		mg/L			05/05/17 11:18	5
Chloride	150		10		mg/L			04/30/17 20:26	5
Nitrogen, Nitrate	1.1		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	620		10		mg/L			05/01/17 01:24	1
Fluoride	0.28		0.10		mg/L			05/01/17 14:59	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/27/17 16:08	1
Nitrogen, Nitrate Nitrite	1.1		0.10		mg/L			05/04/17 22:49	1

TestAmerica Chicago

MWG13-15_62355
5/11/2017

Client Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Client Sample ID: MW-06

Lab Sample ID: 500-127127-10

Date Collected: 04/27/17 10:02

Matrix: Water

Date Received: 04/27/17 13:50

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			05/05/17 02:01	1
Toluene	<0.00050		0.00050		mg/L			05/05/17 02:01	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/05/17 02:01	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/05/17 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125					05/05/17 02:01	1
Toluene-d8 (Surr)	102		75 - 120					05/05/17 02:01	1
4-Bromofluorobenzene (Surr)	112		72 - 124					05/05/17 02:01	1
Dibromofluoromethane	91		75 - 120					05/05/17 02:01	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			05/02/17 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		04/27/17 15:11	05/03/17 20:43	1
Arsenic	0.0012		0.0010		mg/L		04/27/17 15:11	05/03/17 20:43	1
Barium	0.10		0.0025		mg/L		04/27/17 15:11	05/03/17 20:43	1
Beryllium	<0.0010		0.0010		mg/L		04/27/17 15:11	05/03/17 20:43	1
Boron	0.15		0.050		mg/L		04/27/17 15:11	05/03/17 20:43	1
Cadmium	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 14:02	1
Chromium	<0.0050		0.0050		mg/L		04/27/17 15:11	04/28/17 14:02	1
Cobalt	<0.0010		0.0010		mg/L		04/27/17 15:11	04/28/17 14:02	1
Copper	<0.0020 ^		0.0020		mg/L		04/27/17 15:11	04/28/17 14:02	1
Iron	<0.10		0.10		mg/L		04/27/17 15:11	04/28/17 14:02	1
Lead	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 14:02	1
Manganese	<0.0025		0.0025		mg/L		04/27/17 15:11	04/28/17 14:02	1
Nickel	<0.0020		0.0020		mg/L		04/27/17 15:11	05/03/17 20:43	1
Selenium	0.0026		0.0025		mg/L		04/27/17 15:11	05/03/17 20:43	1
Silver	<0.00050		0.00050		mg/L		04/27/17 15:11	04/28/17 14:02	1
Thallium	<0.0020		0.0020		mg/L		04/27/17 15:11	04/28/17 14:02	1
Vanadium	0.0054		0.0050		mg/L		04/27/17 15:11	04/28/17 14:02	1
Zinc	<0.020		0.020		mg/L		04/27/17 15:11	05/03/17 20:43	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/02/17 12:00	05/03/17 13:07	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/06/17 12:40	05/06/17 13:23	1
Sulfate	83		25		mg/L			05/05/17 11:19	5
Chloride	150		10		mg/L			04/30/17 20:27	5
Nitrogen, Nitrate	1.1		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	590		10		mg/L			05/01/17 01:27	1
Fluoride	0.28		0.10		mg/L			05/01/17 15:02	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/27/17 16:09	1
Nitrogen, Nitrate Nitrite	1.1		0.10		mg/L			05/04/17 22:50	1

TestAmerica Chicago

MWG13-15_62356
5/11/2017

Client Sample Results

Client: KPRG and Associates, Inc.

TestAmerica Job ID: 500-127127-1

Project/Site: Joliet #29 Station Ash Ponds (CCA)

Client Sample ID: MW-07

Lab Sample ID: 500-127127-11

Date Collected: 04/27/17 10:57

Matrix: Water

Date Received: 04/27/17 13:50

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			05/05/17 02:27	1
Toluene	<0.00050		0.00050		mg/L			05/05/17 02:27	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/05/17 02:27	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/05/17 02:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Sur)	103		75 - 126					05/05/17 02:27	1
Toluene-d8 (Sur)	101		75 - 120					05/05/17 02:27	1
4-Bromofluorobenzene (Sur)	110		72 - 124					05/05/17 02:27	1
Dibromofluoromethane	89		75 - 120					05/05/17 02:27	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040 ^		0.0040		mg/L			05/03/17 13:53	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			04/27/17 15:11	05/03/17 20:47
Arsenic	<0.0010		0.0010		mg/L			04/27/17 15:11	05/03/17 20:47
Barium	0.096		0.0025		mg/L			04/27/17 15:11	05/03/17 20:47
Beryllium	<0.0010		0.0010		mg/L			04/27/17 15:11	05/03/17 20:47
Boron	0.13		0.050		mg/L			04/27/17 15:11	05/03/17 20:47
Cadmium	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 14:05
Chromium	<0.0050		0.0050		mg/L			04/27/17 15:11	04/28/17 14:05
Cobalt	<0.0010		0.0010		mg/L			04/27/17 15:11	04/28/17 14:05
Copper	<0.0020 ^		0.0020		mg/L			04/27/17 15:11	04/28/17 14:05
Iron	0.40		0.10		mg/L			04/27/17 15:11	04/28/17 14:05
Lead	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 14:05
Manganese	0.011		0.0025		mg/L			04/27/17 15:11	04/28/17 14:05
Nickel	<0.0020		0.0020		mg/L			04/27/17 15:11	05/03/17 20:47
Selenium	<0.0025		0.0025		mg/L			04/27/17 15:11	05/03/17 20:47
Silver	<0.00050		0.00050		mg/L			04/27/17 15:11	04/28/17 14:05
Thallium	<0.0020		0.0020		mg/L			04/27/17 15:11	04/28/17 14:05
Vanadium	0.0050		0.0050		mg/L			04/27/17 15:11	04/28/17 14:05
Zinc	<0.020		0.020		mg/L			04/27/17 15:11	05/03/17 20:47

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L			05/02/17 12:00	05/03/17 13:08

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L			05/06/17 12:40	05/06/17 13:24
Sulfate	74		25		mg/L				5
Chloride	160		10		mg/L			04/30/17 20:27	5
Nitrogen, Nitrate	1.0		0.10		mg/L			05/06/17 02:07	1
Total Dissolved Solids	590		10		mg/L			05/01/17 01:30	1
Fluoride	0.28		0.10		mg/L			05/01/17 15:05	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			04/27/17 16:10	1
Nitrogen, Nitrate Nitrite	1.0		0.10		mg/L			05/04/17 22:51	1

TestAmerica Chicago

MWG13-15_62357
5/11/2017

Client Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-127127-12

Matrix: Water

Date Collected: 04/25/17 00:00

Date Received: 04/27/17 13:50

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			05/04/17 21:40	1
Toluene	<0.00050		0.00050		mg/L			05/04/17 21:40	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/04/17 21:40	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/04/17 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surrogate)	104		75 - 126					05/04/17 21:40	1
Toluene-d8 (Surrogate)	104		75 - 120					05/04/17 21:40	1
4-Bromofluorobenzene (Surrogate)	111		72 - 124					05/04/17 21:40	1
Dibromofluoromethane	91		75 - 120					05/04/17 21:40	1

TestAmerica Chicago

MWG13-15_62358
5/11/2017

Definitions/Glossary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Qualifiers

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
D	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

GC/MS VOA

Analysis Batch: 383746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Total/NA	Water	8260B	
500-127127-2	MW-08	Total/NA	Water	8260B	
500-127127-3	MW-09	Total/NA	Water	8260B	
500-127127-4	DUPLICATE	Total/NA	Water	8260B	
500-127127-5	MW-03	Total/NA	Water	8260B	
500-127127-6	MW-04	Total/NA	Water	8260B	
500-127127-7	MW-05	Total/NA	Water	8260B	
500-127127-8	MW-10	Total/NA	Water	8260B	
500-127127-9	MW-11	Total/NA	Water	8260B	
500-127127-10	MW-06	Total/NA	Water	8260B	
500-127127-11	MW-07	Total/NA	Water	8260B	
500-127127-12	Trip Blank	Total/NA	Water	8260B	
MB 500-383746/4	Method Blank	Total/NA	Water	8260B	
LCS 500-383746/3	Lab Control Sample	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 162663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-3	MW-09	Total/NA	Water	314.0	
500-127127-4	DUPLICATE	Total/NA	Water	314.0	
500-127127-11	MW-07	Total/NA	Water	314.0	
MB 320-162663/5	Method Blank	Total/NA	Water	314.0	
LCS 320-162663/6	Lab Control Sample	Total/NA	Water	314.0	
MRL 320-162663/4	Lab Control Sample	Total/NA	Water	314.0	
500-127127-11 MS	MW-07	Total/NA	Water	314.0	
500-127127-11 MSD	MW-07	Total/NA	Water	314.0	

Analysis Batch: 162666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Total/NA	Water	314.0	
500-127127-2	MW-08	Total/NA	Water	314.0	
500-127127-5	MW-03	Total/NA	Water	314.0	
500-127127-6	MW-04	Total/NA	Water	314.0	
500-127127-7	MW-05	Total/NA	Water	314.0	
500-127127-8	MW-10	Total/NA	Water	314.0	
500-127127-9	MW-11	Total/NA	Water	314.0	
500-127127-10	MW-06	Total/NA	Water	314.0	
MB 320-162666/5	Method Blank	Total/NA	Water	314.0	
LCS 320-162666/6	Lab Control Sample	Total/NA	Water	314.0	
MRL 320-162666/4	Lab Control Sample	Total/NA	Water	314.0	
500-127127-1 MS	MW-02	Total/NA	Water	314.0	
500-127127-1 MSD	MW-02	Total/NA	Water	314.0	

Metals

Prep Batch: 382602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	Soluble Metals	
500-127127-2	MW-08	Dissolved	Water	Soluble Metals	

TestAmerica Chicago

MWG13-15_62360
5/11/2017

QC Association Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Metals (Continued)

Prep Batch: 382602 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-3	MW-09	Dissolved	Water	Soluble Metals	
500-127127-4	DUPLICATE	Dissolved	Water	Soluble Metals	
500-127127-5	MW-03	Dissolved	Water	Soluble Metals	
500-127127-6	MW-04	Dissolved	Water	Soluble Metals	
500-127127-7	MW-05	Dissolved	Water	Soluble Metals	
500-127127-8	MW-10	Dissolved	Water	Soluble Metals	
500-127127-9	MW-11	Dissolved	Water	Soluble Metals	
500-127127-10	MW-06	Dissolved	Water	Soluble Metals	
500-127127-11	MW-07	Dissolved	Water	Soluble Metals	
MB 500-382602/1-A	Method Blank	Soluble	Water	Soluble Metals	
LCS 500-382602/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	

Analysis Batch: 382851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	6020A	382602
500-127127-2	MW-08	Dissolved	Water	6020A	382602
500-127127-3	MW-09	Dissolved	Water	6020A	382602
500-127127-4	DUPLICATE	Dissolved	Water	6020A	382602
500-127127-5	MW-03	Dissolved	Water	6020A	382602
500-127127-6	MW-04	Dissolved	Water	6020A	382602
500-127127-7	MW-05	Dissolved	Water	6020A	382602
500-127127-8	MW-10	Dissolved	Water	6020A	382602
500-127127-9	MW-11	Dissolved	Water	6020A	382602
500-127127-10	MW-06	Dissolved	Water	6020A	382602
500-127127-11	MW-07	Dissolved	Water	6020A	382602
MB 500-382602/1-A	Method Blank	Soluble	Water	6020A	382602
LCS 500-382602/2-A	Lab Control Sample	Soluble	Water	6020A	382602

Prep Batch: 383333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	7470A	
500-127127-2	MW-08	Dissolved	Water	7470A	
500-127127-3	MW-09	Dissolved	Water	7470A	
500-127127-4	DUPLICATE	Dissolved	Water	7470A	
500-127127-5	MW-03	Dissolved	Water	7470A	
500-127127-6	MW-04	Dissolved	Water	7470A	
500-127127-7	MW-05	Dissolved	Water	7470A	
500-127127-8	MW-10	Dissolved	Water	7470A	
500-127127-9	MW-11	Dissolved	Water	7470A	
500-127127-10	MW-06	Dissolved	Water	7470A	
500-127127-11	MW-07	Dissolved	Water	7470A	
MB 500-383333/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-383333/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-127127-1 MS	MW-02	Dissolved	Water	7470A	
500-127127-1 MSD	MW-02	Dissolved	Water	7470A	
500-127127-1 DU	MW-02	Dissolved	Water	7470A	

Analysis Batch: 383570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	7470A	383333
500-127127-2	MW-08	Dissolved	Water	7470A	383333

TestAmerica Chicago

MWG13-15_62361

5/11/2017

QC Association Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Metals (Continued)

Analysis Batch: 383570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-3	MW-09	Dissolved	Water	7470A	383333
500-127127-4	DUPLICATE	Dissolved	Water	7470A	383333
500-127127-5	MW-03	Dissolved	Water	7470A	383333
500-127127-6	MW-04	Dissolved	Water	7470A	383333
500-127127-7	MW-05	Dissolved	Water	7470A	383333
500-127127-8	MW-10	Dissolved	Water	7470A	383333
500-127127-9	MW-11	Dissolved	Water	7470A	383333
500-127127-10	MW-06	Dissolved	Water	7470A	383333
500-127127-11	MW-07	Dissolved	Water	7470A	383333
MB 500-383333/12-A	Method Blank	Total/NA	Water	7470A	383333
LCS 500-383333/13-A	Lab Control Sample	Total/NA	Water	7470A	383333
500-127127-1 MS	MW-02	Dissolved	Water	7470A	383333
500-127127-1 MSD	MW-02	Dissolved	Water	7470A	383333
500-127127-1 DU	MW-02	Dissolved	Water	7470A	383333

Analysis Batch: 383705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	6020A	382602
500-127127-2	MW-08	Dissolved	Water	6020A	382602
500-127127-3	MW-09	Dissolved	Water	6020A	382602
500-127127-4	DUPLICATE	Dissolved	Water	6020A	382602
500-127127-5	MW-03	Dissolved	Water	6020A	382602
500-127127-6	MW-04	Dissolved	Water	6020A	382602
500-127127-7	MW-05	Dissolved	Water	6020A	382602
500-127127-8	MW-10	Dissolved	Water	6020A	382602
500-127127-9	MW-11	Dissolved	Water	6020A	382602
500-127127-10	MW-06	Dissolved	Water	6020A	382602
500-127127-11	MW-07	Dissolved	Water	6020A	382602
MB 500-382602/1-A	Method Blank	Soluble	Water	6020A	382602
LCS 500-382602/2-A	Lab Control Sample	Soluble	Water	6020A	382602

Analysis Batch: 384194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-3	MW-09	Dissolved	Water	6020A	382602
500-127127-4	DUPLICATE	Dissolved	Water	6020A	382602

General Chemistry

Analysis Batch: 382630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	SM 4500 NO2 B	
500-127127-2	MW-08	Dissolved	Water	SM 4500 NO2 B	
500-127127-3	MW-09	Dissolved	Water	SM 4500 NO2 B	
500-127127-4	DUPLICATE	Dissolved	Water	SM 4500 NO2 B	
MB 500-382630/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-382630/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 382632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-5	MW-03	Dissolved	Water	SM 4500 NO2 B	

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QC Association Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

General Chemistry (Continued)

Analysis Batch: 382632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-6	MW-04	Dissolved	Water	SM 4500 NO2 B	
500-127127-7	MW-05	Dissolved	Water	SM 4500 NO2 B	
500-127127-8	MW-10	Dissolved	Water	SM 4500 NO2 B	
500-127127-9	MW-11	Dissolved	Water	SM 4500 NO2 B	
500-127127-10	MW-06	Dissolved	Water	SM 4500 NO2 B	
500-127127-11	MW-07	Dissolved	Water	SM 4500 NO2 B	
MB 500-382632/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-382632/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
500-127127-5 MS	MW-03	Dissolved	Water	SM 4500 NO2 B	
500-127127-5 MSD	MW-03	Dissolved	Water	SM 4500 NO2 B	

Analysis Batch: 383023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	SM 2540C	
500-127127-2	MW-08	Dissolved	Water	SM 2540C	
500-127127-5	MW-03	Dissolved	Water	SM 2540C	
MB 500-383023/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-383023/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-127127-1 DU	MW-02	Dissolved	Water	SM 2540C	

Analysis Batch: 383024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-6	MW-04	Dissolved	Water	SM 2540C	
500-127127-7	MW-05	Dissolved	Water	SM 2540C	
500-127127-8	MW-10	Dissolved	Water	SM 2540C	
500-127127-9	MW-11	Dissolved	Water	SM 2540C	
500-127127-10	MW-06	Dissolved	Water	SM 2540C	
500-127127-11	MW-07	Dissolved	Water	SM 2540C	
MB 500-383024/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-383024/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 383026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	9251	
500-127127-2	MW-08	Dissolved	Water	9251	
500-127127-3	MW-09	Dissolved	Water	9251	
500-127127-4	DUPLICATE	Dissolved	Water	9251	
500-127127-5	MW-03	Dissolved	Water	9251	
500-127127-6	MW-04	Dissolved	Water	9251	
500-127127-7	MW-05	Dissolved	Water	9251	
500-127127-8	MW-10	Dissolved	Water	9251	
500-127127-9	MW-11	Dissolved	Water	9251	
500-127127-10	MW-06	Dissolved	Water	9251	
500-127127-11	MW-07	Dissolved	Water	9251	
MB 500-383026/4	Method Blank	Total/NA	Water	9251	
LCS 500-383026/5	Lab Control Sample	Total/NA	Water	9251	
500-127127-8 MS	MW-10	Dissolved	Water	9251	
500-127127-8 MSD	MW-10	Dissolved	Water	9251	

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QC Association Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

General Chemistry (Continued)

Analysis Batch: 383193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	SM 4500 F C	
500-127127-2	MW-08	Dissolved	Water	SM 4500 F C	
500-127127-3	MW-09	Dissolved	Water	SM 4500 F C	
500-127127-4	DUPLICATE	Dissolved	Water	SM 4500 F C	
500-127127-5	MW-03	Dissolved	Water	SM 4500 F C	
500-127127-6	MW-04	Dissolved	Water	SM 4500 F C	
500-127127-7	MW-05	Dissolved	Water	SM 4500 F C	
500-127127-8	MW-10	Dissolved	Water	SM 4500 F C	
500-127127-9	MW-11	Dissolved	Water	SM 4500 F C	
500-127127-10	MW-06	Dissolved	Water	SM 4500 F C	
500-127127-11	MW-07	Dissolved	Water	SM 4500 F C	
MB 500-383193/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-383193/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 383234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-3	MW-09	Dissolved	Water	SM 2540C	
500-127127-4	DUPLICATE	Dissolved	Water	SM 2540C	
MB 500-383234/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-383234/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 383920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	9010B	
500-127127-2	MW-08	Dissolved	Water	9010B	
500-127127-3	MW-09	Dissolved	Water	9010B	
500-127127-4	DUPLICATE	Dissolved	Water	9010B	
MB 500-383920/1-A	Method Blank	Total/NA	Water	9010B	
LCS 500-383920/2-A	Lab Control Sample	Total/NA	Water	9010B	

Analysis Batch: 383927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	9038	
500-127127-2	MW-08	Dissolved	Water	9038	
500-127127-3	MW-09	Dissolved	Water	9038	
500-127127-4	DUPLICATE	Dissolved	Water	9038	
500-127127-5	MW-03	Dissolved	Water	9038	
500-127127-6	MW-04	Dissolved	Water	9038	
500-127127-7	MW-05	Dissolved	Water	9038	
500-127127-8	MW-10	Dissolved	Water	9038	
500-127127-9	MW-11	Dissolved	Water	9038	
500-127127-10	MW-06	Dissolved	Water	9038	
500-127127-11	MW-07	Dissolved	Water	9038	
MB 500-383927/3	Method Blank	Total/NA	Water	9038	
LCS 500-383927/4	Lab Control Sample	Total/NA	Water	9038	
500-127127-1 MS	MW-02	Dissolved	Water	9038	
500-127127-1 MSD	MW-02	Dissolved	Water	9038	

Analysis Batch: 384016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	SM 4500 NO3 F	

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QC Association Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

General Chemistry (Continued)

Analysis Batch: 384016 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-2	MW-08	Dissolved	Water	SM 4500 NO3 F	
500-127127-3	MW-09	Dissolved	Water	SM 4500 NO3 F	
500-127127-4	DUPLICATE	Dissolved	Water	SM 4500 NO3 F	
500-127127-5	MW-03	Dissolved	Water	SM 4500 NO3 F	
500-127127-6	MW-04	Dissolved	Water	SM 4500 NO3 F	
500-127127-7	MW-05	Dissolved	Water	SM 4500 NO3 F	
500-127127-8	MW-10	Dissolved	Water	SM 4500 NO3 F	
500-127127-9	MW-11	Dissolved	Water	SM 4500 NO3 F	
500-127127-10	MW-06	Dissolved	Water	SM 4500 NO3 F	
500-127127-11	MW-07	Dissolved	Water	SM 4500 NO3 F	
MB 500-384016/12	Method Blank	Total/NA	Water	SM 4500 NO3 F	
LCS 500-384016/13	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	

Analysis Batch: 384049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	Nitrate by calc	
500-127127-2	MW-08	Dissolved	Water	Nitrate by calc	
500-127127-3	MW-09	Dissolved	Water	Nitrate by calc	
500-127127-4	DUPLICATE	Dissolved	Water	Nitrate by calc	
500-127127-5	MW-03	Dissolved	Water	Nitrate by calc	
500-127127-6	MW-04	Dissolved	Water	Nitrate by calc	
500-127127-7	MW-05	Dissolved	Water	Nitrate by calc	
500-127127-8	MW-10	Dissolved	Water	Nitrate by calc	
500-127127-9	MW-11	Dissolved	Water	Nitrate by calc	
500-127127-10	MW-06	Dissolved	Water	Nitrate by calc	
500-127127-11	MW-07	Dissolved	Water	Nitrate by calc	

Prep Batch: 384080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-5	MW-03	Dissolved	Water	9010B	
500-127127-6	MW-04	Dissolved	Water	9010B	
500-127127-7	MW-05	Dissolved	Water	9010B	
500-127127-8	MW-10	Dissolved	Water	9010B	
500-127127-9	MW-11	Dissolved	Water	9010B	
500-127127-10	MW-06	Dissolved	Water	9010B	
500-127127-11	MW-07	Dissolved	Water	9010B	
MB 500-384080/1-A	Method Blank	Total/NA	Water	9010B	
LCS 500-384080/2-A	Lab Control Sample	Total/NA	Water	9010B	

Analysis Batch: 384225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-5	MW-03	Dissolved	Water	9014	384080
500-127127-6	MW-04	Dissolved	Water	9014	384080
500-127127-7	MW-05	Dissolved	Water	9014	384080
500-127127-8	MW-10	Dissolved	Water	9014	384080
500-127127-9	MW-11	Dissolved	Water	9014	384080
500-127127-10	MW-06	Dissolved	Water	9014	384080
500-127127-11	MW-07	Dissolved	Water	9014	384080
MB 500-384080/1-A	Method Blank	Total/NA	Water	9014	384080
LCS 500-384080/2-A	Lab Control Sample	Total/NA	Water	9014	384080

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QC Association Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

General Chemistry (Continued)

Analysis Batch: 384226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-127127-1	MW-02	Dissolved	Water	9014	383920
500-127127-2	MW-08	Dissolved	Water	9014	383920
500-127127-3	MW-09	Dissolved	Water	9014	383920
500-127127-4	DUPLICATE	Dissolved	Water	9014	383920
MB 500-383920/1-A	Method Blank	Total/NA	Water	9014	383920
LCS 500-383920/2-A	Lab Control Sample	Total/NA	Water	9014	383920

1
2
3
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12

Surrogate Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-126)	TOL (75-120)	BFB (72-124)	DBFM (75-120)
500-127127-1	MW-02	103	102	110	91
500-127127-2	MW-08	106	101	109	90
500-127127-3	MW-09	105	102	109	89
500-127127-4	DUPLICATE	106	100	110	91
500-127127-5	MW-03	106	102	111	90
500-127127-6	MW-04	106	102	111	92
500-127127-7	MW-05	103	102	108	88
500-127127-8	MW-10	105	101	108	90
500-127127-9	MW-11	106	101	110	91
500-127127-10	MW-06	103	102	112	91
500-127127-11	MW-07	103	101	110	89
500-127127-12	Trip Blank	104	104	111	91
LCS 500-383746/3	Lab Control Sample	105	99	110	94
MB 500-383746/4	Method Blank	107	102	112	92

Surrogate Legend

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TestAmerica Chicago

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QC Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

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

Lab Sample ID: MB 500-383746/4

Matrix: Water

Analysis Batch: 383746

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00050		0.00050		mg/L			05/04/17 21:14	1
Toluene	<0.00050		0.00050		mg/L			05/04/17 21:14	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/04/17 21:14	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/04/17 21:14	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1,2-Dichloroethane-d4 (Sur)	107		75 - 126					05/04/17 21:14	1
Toluene-d8 (Sur)	102		75 - 120					05/04/17 21:14	1
4-Bromofluorobenzene (Sur)	112		72 - 124					05/04/17 21:14	1
Dibromofluoromethane	92		75 - 120					05/04/17 21:14	1

Lab Sample ID: LCS 500-383746/3

Matrix: Water

Analysis Batch: 383746

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	MB	MB	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier							
Benzene			0.0500	0.0471		mg/L		94	70 - 120
Toluene			0.0500	0.0502		mg/L		100	70 - 125
Ethylbenzene			0.0500	0.0477		mg/L		95	70 - 120
Xylenes, Total			0.100	0.0971		mg/L		97	70 - 125
Surrogate	MB	MB	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
	%Recovery	Qualifier							
1,2-Dichloroethane-d4 (Sur)	105		75 - 126						
Toluene-d8 (Sur)	99		75 - 120						
4-Bromofluorobenzene (Sur)	110		72 - 124						
Dibromofluoromethane	94		75 - 120						

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-162663/5

Matrix: Water

Analysis Batch: 162663

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perchlorate	<0.0040	^	0.0040		mg/L			05/03/17 13:14	1

Lab Sample ID: LCS 320-162663/6

Matrix: Water

Analysis Batch: 162663

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	MB	MB	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier							
Perchlorate			0.0500	0.0543	^	mg/L		109	85 - 115

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QC Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 320-162663/4

Matrix: Water

Analysis Batch: 162663

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.75		ug/L		119	75 - 125

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

Lab Sample ID: 500-127127-11 MS

Matrix: Water

Analysis Batch: 162663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	<0.0040	^	0.0500	0.0533	^	mg/L		107	80 - 120

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

Lab Sample ID: 500-127127-11 MSD

Matrix: Water

Analysis Batch: 162663

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	<0.0040	^	0.0500	0.0531	^	mg/L		106	80 - 120	0	20

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

Lab Sample ID: MB 320-162666/5

Matrix: Water

Analysis Batch: 162666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			05/02/17 12:06	1

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

Lab Sample ID: LCS 320-162666/6

Matrix: Water

Analysis Batch: 162666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.0519		mg/L		104	85 - 115

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

Lab Sample ID: MRL 320-162666/4

Matrix: Water

Analysis Batch: 162666

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	<4.0		ug/L		98	75 - 125

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

Lab Sample ID: 500-127127-1 MS

Matrix: Water

Analysis Batch: 162666

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	<0.0040		0.0500	0.0419		mg/L		84	80 - 120

**Client Sample ID: MW-02
Prep Type: Total/NA**

Lab Sample ID: 500-127127-1 MSD

Matrix: Water

Analysis Batch: 162666

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	<0.0040		0.0500	0.0424		mg/L		85	80 - 120	1	20

**Client Sample ID: MW-02
Prep Type: Total/NA**

TestAmerica Chicago

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5/11/2017

QC Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-382602/1-A

Matrix: Water

Analysis Batch: 382851

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.00050		0.00050	mg/L		04/27/17 15:04	04/28/17 13:12		1
Chromium	<0.0050		0.0050	mg/L		04/27/17 15:04	04/28/17 13:12		1
Cobalt	<0.0010		0.0010	mg/L		04/27/17 15:04	04/28/17 13:12		1
Copper	<0.0020 ^		0.0020	mg/L		04/27/17 15:04	04/28/17 13:12		1
Iron	<0.10		0.10	mg/L		04/27/17 15:04	04/28/17 13:12		1
Lead	<0.00050		0.00050	mg/L		04/27/17 15:04	04/28/17 13:12		1
Manganese	<0.0025		0.0025	mg/L		04/27/17 15:04	04/28/17 13:12		1
Silver	<0.00050		0.00050	mg/L		04/27/17 15:04	04/28/17 13:12		1
Thallium	<0.0020		0.0020	mg/L		04/27/17 15:04	04/28/17 13:12		1
Vanadium	<0.0050		0.0050	mg/L		04/27/17 15:04	04/28/17 13:12		1

Client Sample ID: Method Blank

Prep Type: Soluble

Prep Batch: 382602

Lab Sample ID: MB 500-382602/1-A

Matrix: Water

Analysis Batch: 383705

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030	mg/L		04/27/17 15:04	05/03/17 20:01		1
Arsenic	<0.0010		0.0010	mg/L		04/27/17 15:04	05/03/17 20:01		1
Barium	<0.0025		0.0025	mg/L		04/27/17 15:04	05/03/17 20:01		1
Beryllium	<0.0010		0.0010	mg/L		04/27/17 15:04	05/03/17 20:01		1
Boron	<0.050		0.050	mg/L		04/27/17 15:04	05/03/17 20:01		1
Nickel	<0.0020		0.0020	mg/L		04/27/17 15:04	05/03/17 20:01		1
Selenium	<0.0025		0.0025	mg/L		04/27/17 15:04	05/03/17 20:01		1
Zinc	<0.020		0.020	mg/L		04/27/17 15:04	05/03/17 20:01		1

Client Sample ID: Method Blank

Prep Type: Soluble

Prep Batch: 382602

Lab Sample ID: LCS 500-382602/2-A

Matrix: Water

Analysis Batch: 382851

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Cadmium	0.0500	0.0510		mg/L	102	80-120	
Chromium	0.200	0.201		mg/L	101	80-120	
Cobalt	0.500	0.506		mg/L	101	80-120	
Copper	0.250	0.252 ^		mg/L	101	80-120	
Iron	1.00	1.03		mg/L	103	80-120	
Lead	0.100	0.104		mg/L	104	80-120	
Manganese	0.500	0.505		mg/L	101	80-120	
Silver	0.0500	0.0519		mg/L	104	80-120	
Thallium	0.100	0.106		mg/L	106	80-120	
Vanadium	0.500	0.495		mg/L	99	80-120	

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Batch: 382602

Lab Sample ID: LCS 500-382602/2-A

Matrix: Water

Analysis Batch: 383705

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Antimony	0.500	0.501		mg/L	100	80-120	
Arsenic	0.100	0.101		mg/L	101	80-120	
Barium	0.500	0.520		mg/L	104	80-120	

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Batch: 382602

TestAmerica Chicago

MWG13-15_62370

5/11/2017

QC Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

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

Lab Sample ID: LCS 500-382602/2-A

Matrix: Water

Analysis Batch: 383705

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Batch: 382602

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Beryllium	0.0500	0.0497		mg/L	99	80 - 120	
Boron	1.00	0.971		mg/L	97	80 - 120	
Nickel	0.500	0.514		mg/L	103	80 - 120	
Selenium	0.100	0.103		mg/L	103	80 - 120	
Zinc	0.500	0.508		mg/L	102	80 - 120	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-383333/12-A

Matrix: Water

Analysis Batch: 383570

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 383333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/02/17 12:00	05/03/17 12:34	1

Lab Sample ID: LCS 500-383333/13-A

Matrix: Water

Analysis Batch: 383570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 383333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00173		mg/L		86	80 - 120

Lab Sample ID: 500-127127-1 MS

Matrix: Water

Analysis Batch: 383570

Client Sample ID: MW-02

Prep Type: Dissolved

Prep Batch: 383333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000942		mg/L		94	75 - 125

Lab Sample ID: 500-127127-1 MSD

Matrix: Water

Analysis Batch: 383570

Client Sample ID: MW-02

Prep Type: Dissolved

Prep Batch: 383333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD
Mercury	<0.00020		0.00100	0.000886		mg/L		89	75 - 125	6 20

Lab Sample ID: 500-127127-1 DU

Matrix: Water

Analysis Batch: 383570

Client Sample ID: MW-02

Prep Type: Dissolved

Prep Batch: 383333

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

TestAmerica Chicago

MWG13-15_62371

5/11/2017

QC Sample Results

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

TestAmerica Job ID: 500-127127-1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-383920/1-A

Matrix: Water

Analysis Batch: 384226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/05/17 10:30	05/05/17 16:29	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 383920

Lab Sample ID: LCS 500-383920/2-A

Matrix: Water

Analysis Batch: 384226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Cyanide, Total	0.100	0.103		mg/L		103	80 - 120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 383920

Lab Sample ID: MB 500-384080/1-A

Matrix: Water

Analysis Batch: 384225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/06/17 12:40	05/06/17 13:15	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 384080

Lab Sample ID: LCS 500-384080/2-A

Matrix: Water

Analysis Batch: 384225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Cyanide, Total	0.100	0.0985		mg/L		99	80 - 120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 384080

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-383927/3

Matrix: Water

Analysis Batch: 383927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L		05/05/17 11:03		1

Client Sample ID: Method Blank

Prep Type: Total/NA

Lab Sample ID: LCS 500-383927/4

Matrix: Water

Analysis Batch: 383927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Sulfate	20.0	20.7		mg/L		103	80 - 120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Lab Sample ID: 500-127127-1 MS

Matrix: Water

Analysis Batch: 383927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Sulfate	140		200	332		mg/L		94	75 - 125

Client Sample ID: MW-02

Prep Type: Dissolved

QC Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: 500-127127-1 MSD							Client Sample ID: MW-02				
Matrix: Water							Prep Type: Dissolved				
Analysis Batch: 383927											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Sulfate	140		200	334		mg/L		95	75 - 125	0	20

Method: 9251 - Chloride

Lab Sample ID: MB 500-383026/4							Client Sample ID: Method Blank				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 383026											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<2.0		2.0		mg/L			04/30/17 19:38			1

Lab Sample ID: LCS 500-383026/5

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

Matrix: Water
Analysis Batch: 383026

Lab Sample ID: LCS 500-383026/5							Client Sample ID: Lab Control Sample				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 383026											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.				
Chloride	50.0	52.8		mg/L		106	80 - 120				

Lab Sample ID: 500-127127-8 MS

Client Sample ID: MW-10
Prep Type: Dissolved

Matrix: Water
Analysis Batch: 383026

Lab Sample ID: 500-127127-8 MS							Client Sample ID: MW-10				
Matrix: Water							Prep Type: Dissolved				
Analysis Batch: 383026											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		
Chloride	210		50.0	235	4	mg/L		56	75 - 125		

Lab Sample ID: 500-127127-8 MSD

Client Sample ID: MW-10
Prep Type: Dissolved

Matrix: Water
Analysis Batch: 383026

Lab Sample ID: 500-127127-8 MSD							Client Sample ID: MW-10				
Matrix: Water							Prep Type: Dissolved				
Analysis Batch: 383026											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Chloride	210		50.0	238	4	mg/L		62	75 - 125	1	20

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

Lab Sample ID: MB 500-383023/1							Client Sample ID: Method Blank				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 383023											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Total Dissolved Solids	<10		10		mg/L			04/30/17 21:44			1

Lab Sample ID: LCS 500-383023/2

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

Matrix: Water
Analysis Batch: 383023

Lab Sample ID: LCS 500-383023/2							Client Sample ID: Lab Control Sample				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 383023											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.				
Total Dissolved Solids	250	292		mg/L		117	80 - 120				

TestAmerica Chicago

MWG13-15_62373
5/11/2017

QC Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

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

Lab Sample ID: MB 500-383024/1

Matrix: Water

Analysis Batch: 383024

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			05/01/17 01:12	1

Lab Sample ID: LCS 500-383024/2

Matrix: Water

Analysis Batch: 383024

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Total Dissolved Solids	250	294		mg/L		118	80 - 120

Lab Sample ID: MB 500-383234/1

Matrix: Water

Analysis Batch: 383234

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			05/02/17 04:25	1

Lab Sample ID: LCS 500-383234/2

Matrix: Water

Analysis Batch: 383234

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Total Dissolved Solids	250	288		mg/L		115	80 - 120

Lab Sample ID: 500-127127-1 DU

Matrix: Water

Analysis Batch: 383023

Client Sample ID: MW-02
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD	Limit
Total Dissolved Solids	890		906		mg/L		2	2	5

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-383193/3

Matrix: Water

Analysis Batch: 383193

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			05/01/17 14:15	1

Lab Sample ID: LCS 500-383193/4

Matrix: Water

Analysis Batch: 383193

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Fluoride	10.0	9.89		mg/L		99	80 - 120

TestAmerica Chicago

MWG13-15_62374
5/11/2017

QC Sample Results

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

TestAmerica Job ID: 500-127127-1

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-382630/3

Matrix: Water

Analysis Batch: 382630

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit mg/L	D	Prepared	Analyzed 04/26/17 18:10	Dil Fac
Nitrogen, Nitrite	<0.020		0.020						1

Lab Sample ID: LCS 500-382630/4

Matrix: Water

Analysis Batch: 382630

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

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

Lab Sample ID: MB 500-382632/3

Matrix: Water

Analysis Batch: 382632

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit mg/L	D	Prepared	Analyzed 04/27/17 16:04	Dil Fac
Nitrogen, Nitrite	<0.020		0.020						1

Lab Sample ID: LCS 500-382632/4

Matrix: Water

Analysis Batch: 382632

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit mg/L	D	%Rec 106	%Rec. Limits 80 - 120
Nitrogen, Nitrite	0.100	0.106					

Lab Sample ID: 500-127127-5 MS

Matrix: Water

Analysis Batch: 382632

Client Sample ID: MW-03
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit mg/L	D	%Rec 97	%Rec. Limits 75 - 125
Nitrogen, Nitrite	<0.020		0.100	0.0968					

Lab Sample ID: 500-127127-5 MSD

Matrix: Water

Analysis Batch: 382632

Client Sample ID: MW-03
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit mg/L	D	%Rec 98	%Rec. Limits 75 - 125	RPD 1	RPD 20
Nitrogen, Nitrite	<0.020		0.100	0.0980							

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-384016/12

Matrix: Water

Analysis Batch: 384016

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit mg/L	D	Prepared	Analyzed 05/04/17 22:03	Dil Fac
Nitrogen, Nitrate Nitrite	<0.10		0.10						1

TestAmerica Chicago

MWG13-15_62375
5/11/2017

QC Sample Results

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

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

Lab Sample ID: LCS 500-384016/13

Matrix: Water

Analysis Batch: 384016

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	0.823		mg/L	82	80 - 120	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chicago

2417 Bond St.

University Park, IL 60484

708-534-5200

Fax: 708-534-5211

Report To:

Contact: Rich Gnat
Company: KPRG & Associates Inc.
Address: 14665 W Lisbon Rd, Suite 2B
Brookfield, WI
Phone: 262-781-0475
Fax: 708-534-5200
Email: richard@kprginc.com

Bill To:		Lab Lot # 500 - 127127	
Contact:	Company	Package Sealed	Samples Sealed
Address:		Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>
Phone:		Received On Ice <input checked="" type="checkbox"/>	Samples intact <input checked="" type="checkbox"/>
Fax:		No <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>
Email:	PO #	Temperature °C of cooler (3.1) (2.9) (3.8) (4.6) (4.9)	
Sampler Name:	Client Project #	Ref#	Preserv. Indicated
Ian John Howieson	12313.0	Cmp/Grb	Within Hold Time Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Project Name:	TestAmerica Project Number:	Volume	pH Check OK Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Joliet #29 Station Ash Ponds	500005078	Preserv.	Check OK/Ros CL, Cr Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Project Location:	Date Required		Sample Labels and eOC Agree Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Joliet, Illinois.	Hard Copy: / /	# Of Contaminants	COC not present
Lab PW:	Fax: / /	Matrix	
Laboratory ID	Client Sample ID	Sampling Date	Additional Analyses / Remarks
MW-01	Not Samples	4-25-17	Perchlorate
1	MW-02	4-26-17	WTX
6	MW-03	4-26-17	Nitrate, dissolved
6	MW-04	4-26-17	NO ₃ +NO ₂ , dissolved
7	MW-05	4-26-17	NO ₂ dissolved
10	MW-06	4-27-17	Cl, TDS SO ₄ , F, dissolved
11	MW-07	4-27-17	Metals dissolved
2	MW-08	4-25-17	NO ₃ +NO ₂ , dissolved
3	MW-09	4-25-17	WTX
8	MW-10	4-26-17	WTX
9	MW-11	4-26-17	WTX
4	Duplicates	4-25-17	WTX
12	Trip Blank	N/A	WTX
		N/A	2
REUNGUISHED BY: IJH	COMPANY: KPRG	DATE: 4-27-17	TIME: 13:50
REUNGUISHED BY: O =	COMPANY: KPRG	DATE: TIME:	RECEIVED BY: COMPANY: TA TIME: DATE: TIME:
Matrix Key	Container Key	Comments: 	
WW = Wastewater	1 Plastic	Preservative Key	
W = Water	2 VOA Vial	1. HCl, Cool to 4°	
S = Soil	3 Sterile Plastic	2. H ₂ SO ₄ , Cool to 4°	
SL = Sludge	4 Amber Glass	3. HNO ₃ , Cool to 4°	
MS = Miscellaneous	5 Wide mouth Glass	4. NaOH, Cool to 4°	
OL = Oil	6 Other	5. NaOH/Zn, Cool to 4°	
A = Air	W = Wipe	6. Cool to 4°	
O =		7. None	

REUNGUISHED BY: IJH	COMPANY: KPRG	DATE: 4-27-17	TIME: 13:50	RECEIVED BY: COMPANY: TA TIME: DATE: TIME:
Matrix Key	Container Key	Comments:		
WW = Wastewater	1 Plastic	Preservative Key		
W = Water	2 VOA Vial	1. HCl, Cool to 4°		
S = Soil	3 Sterile Plastic	2. H ₂ SO ₄ , Cool to 4°		
SL = Sludge	4 Amber Glass	3. HNO ₃ , Cool to 4°		
MS = Miscellaneous	5 Wide mouth Glass	4. NaOH, Cool to 4°		
OL = Oil	6 Other	5. NaOH/Zn, Cool to 4°		
A = Air	W = Wipe	6. Cool to 4°		
O =		7. None		

Date Received 04/27/17	TIME: 13:50
Courier: <input checked="" type="checkbox"/>	Hand Delivered: <input checked="" type="checkbox"/>
Bill of Lading:	

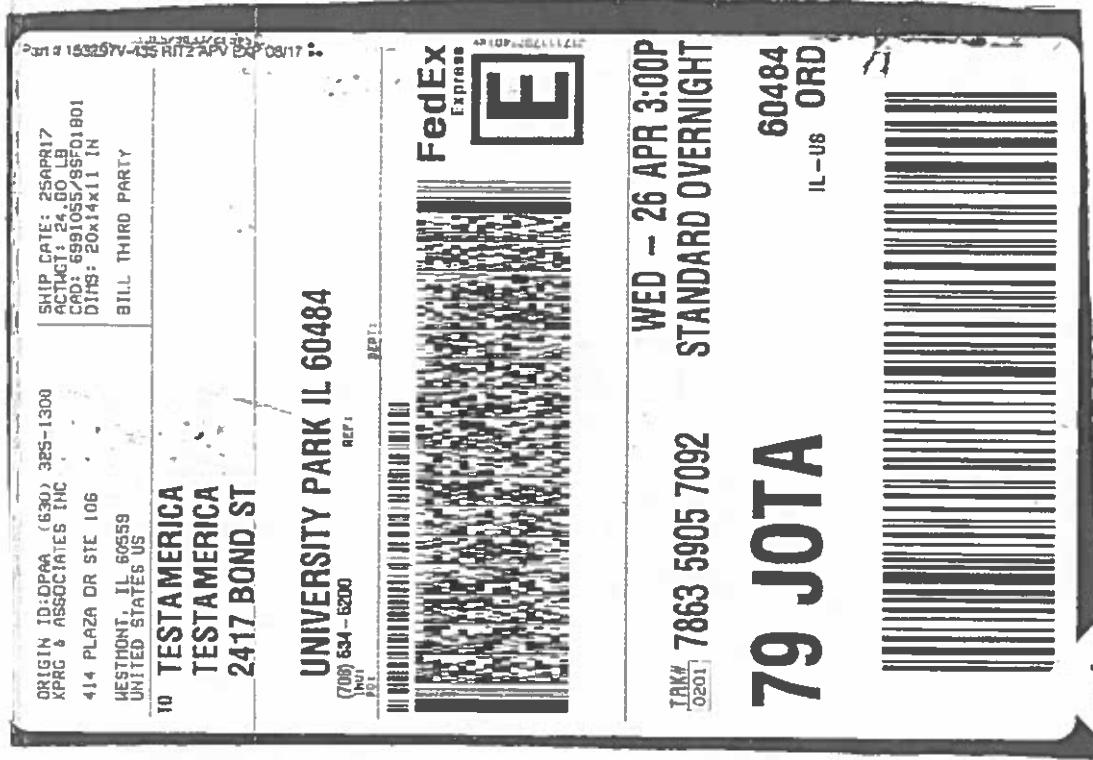
1 2 3

4 5

6 7 9

11

12



ORIGIN ID:IPAN (630) 325-1360
KPRG & FASROC INC
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

To TESTAMERICA
TESTAMERICA
2417 BOND ST

06-00

SHIP DATE: 26APR17
ACTWT: 26.30 LB
CAB: 699105/SSD01861
DIM: 17x15x11 IN
BILL THIRD PARTY



UNIVERSITY PARK IL 60484

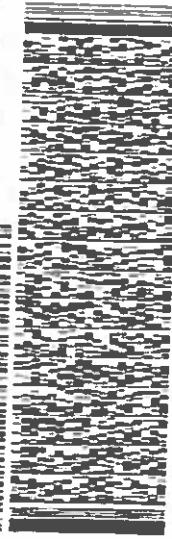
(708) 634-6200

REF# 10001
EXPIRED

REPL

REF#

FedEx
Express



TRK# 7863 7254 0124 THU - 27 APR 3:00P
[06001] STANDARD OVERNIGHT

79 JOTA

60484
IL-105 ORD



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

Chain of Custody Record



TestAmerica
The Science of Testing

Client Information (Sub Contract Lab)		Sample ID	Date	Lab Name	Callout Name	Callout Date	GC/C No
Customer Code							500-86529-1
Shipping/Receiving Company							Page 1 of 2
TestAmerica Laboratories, Inc.							1/20/17
A3143	680 Riverside Parkway						500-127127-1
CA	West Sacramento						Preservation Codes
State	CA 95605						A - HCl B - NaOH C - 7n Acetate D - NaAc E - NaHSO4 F - Na2SO3 G - Ammonia H - Acetic Acid I - Lye J - UV Grade K - EDTA L - Glycerin M - Heptane N - None O - Azoxy P - NaOAc R - Na2S2O3 S - H2SO4 T - TSP Decolorizing U - Acetone V - MCLAA W - pH 4.5 X - Other
Phone	916-373-5600 (Tel) 916-372-1050 (Fax)						Total Number of Containers
Fax							
Project #	Joliet #29 Station Ash Ponds (CCA)						
Site #	SS00#						
Analysis Requested							
<input checked="" type="checkbox"/> Performance Sample (Yes or No) <input checked="" type="checkbox"/> Reference Standard Sample (Yes or No) <input checked="" type="checkbox"/> Control Material (Yes or No)							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Conc, G=Grab)	Matrix (Extract, Brine, Ground, Solid, Water)	Preservation Code:	
MW-02 (500-127127-1)	4/25/17	12:59	Water	X			
MW-08 (500-127127-2)	4/25/17	1:07	Water	X			
MW-09 (500-127127-3)	4/25/17	15:02	Water	X			
DUPPLICATE (500-127127-4)	4/25/17	Central	Water	X			
MW-01 (500-127127-5)	4/26/17	10:43	Water	X			
MW-04 (500-127127-6)	4/26/17	09:08	Water	X			
MW-05 (500-127127-7)	4/26/17	11:55	Water	X			
MW-10 (500-127127-8)	4/26/17	13:22	Water	X			
MW-11 (500-127127-9)	4/26/17	11:32	Water	X			
		Central	Water	X			
Special Instructions/Notes							
<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months							
Sample Disposal (A fee may be assessed if sample is retained longer than 1 month)							
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months							
Primary Deliverable Rank 2							
Deliverable Requested I, II, III IV Other (specify)	Date	Time	Method of Shipment		Date Received		
Empty Kit Relinquished by	Date	Time	Contractor		Date Received		
Empty Kit Relinquished by	Date	Time	Contractor		Date Received		
Relinquished by	Date	Time	Contractor		Date Received		
Custody Seal intact					Code Temperature(s) °C and Other Remarks		
Yes □ No					2-8		

Chain of Custody Record

TestAmerica Chicago

2417 Bond Street
University Park IL 60484
Phone (708) 574-5200 Fax (708) 574-5211

TestAmerica

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-127127-1

Login Number: 127127

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	2.0c, 4.5c, (
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
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: 500-127127-1

Login Number: 127127

List Source: TestAmerica Sacramento

List Number: 2

List Creation: 04/28/17 03:11 PM

Creator: Edman, Connor M

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	060267
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	headspace for method 314
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	

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.

Project/Site: Joliet #29 Station Ash Ponds (CCA)

TestAmerica Job ID: 500-127127-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

Laboratory: TestAmerica Sacramento

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	200060	03-17-18

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

Analysis Method	Prep Method	Matrix	Analyte
314.0		Water	Perchlorate

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TestAmerica Chicago

MWG13-15_62386
5/11/2017

