2017 Annual Groundwater Monitoring and Corrective Action Report

Wood River Primary East Ash Pond – CCR Unit ID 901
Wood River Power Station
1 Chessen Lane
Alton, Illinois 62202

Dynegy Midwest Generation, LLC

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OBG

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Wood River Power Station
Alton, Illinois

Prepared for:

Dynegy Midwest Generation, LLC

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ACRONYMS AND ABBREVIATIONS

CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
mg/L	milligrams per liter
NRT/OBG	Natural Resource Technology, an OBG Company
OBG	O'Brien & Gere Engineers, Inc.
SSI	statistically significant increase
STD	standard units

1 INTRODUCTION

1.1 OVERVIEW

This report has been prepared on behalf of Dynegy Midwest Generation, LLC by O'Brien & Gere Engineers, Inc. (OBG), to provide the information required by 40 CFR 257.90(e) for the Wood River Primary East Ash Pond located at Wood River Power Station near Alton, Illinois.

In accordance with 40 CFR 257.90(e), the owner or operator of an existing CCR unit must prepare an annual groundwater monitoring and corrective action report, for the preceding calendar year, that documents the status of the groundwater monitoring and corrective action program for the CCR unit, summarizes key actions completed, describes any problems encountered, discusses actions to resolve the problems, and projects key activities for the upcoming year. At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit.
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken.
3. In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs.
4. A narrative discussion of any transition between monitoring programs (*e.g.,* the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.[1]

This report provides the required information for the Wood River Primary East Ash Pond for calendar year 2017.

1.2 MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

The final three independent samples of the minimum eight required by 40 CFR 257.94(b) were collected and analyzed from each background and downgradient well in 2017 before October 17. The other five independent samples were collected and analyzed in 2015 and 2016.

The first semi-annual monitoring sample for the Detection Monitoring Program was collected in November 2017 from each well.

Using the last of the minimum eight samples required to be collected by October 17, 2017 to determine whether a statistically significant increase (SSI) of Appendix III parameters over background concentrations has occurred, evaluation of analytical data from the downgradient wells was initiated beginning no later than October 17, 2017 for the initial eight samples. SSI determinations will be completed within 90 days (January 15, 2018). In addition, SSI determinations will be completed within 90 days of completion of analysis for the first semi-annual detection monitoring sample collected on November 2-3, 2017, for which analytical data was received on November 17, 2017.

[1] For calendar year 2017, corrective action and other information required to be included in the annual report as specified in §§ 257.90 through 257.98 is inapplicable.

2 KEY ACTIONS COMPLETED IN 2017

2.1 SUMMARY

Three groundwater sampling events were completed in 2017 as part of an effort initiated in 2015 to collect eight independent samples from background and downgradient monitoring wells in accordance with 40 CFR 257.94(b).

Subsequent to collection of the eight independent samples, an additional sampling event was completed in November 2017 for parameters listed in Appendix III, 40 CFR Part 257, to supplement the background data set and as the first semi-annual monitoring sampling event for the Detection Monitoring Program.

A map showing the groundwater monitoring system, including the CCR unit and all background and downgradient monitoring wells with well identification numbers, for the Wood River Primary East Ash Pond is presented in Figure 1. No monitoring wells were installed or decommissioned from the monitoring system in 2017.

Samples were collected and analyzed in accordance with the Sampling and Analysis Plan (NRT/OBG, 2017a) prepared for the Wood River Primary East Ash Pond.

All monitoring data obtained under 40 CFR §§ 257.90 through 257.98 (as applicable) in 2017, as well as monitoring data for the previously collected five independent samples are presented in Tables 1 and 2. Sample collection dates in 2017 were January 31-February 1, April 11-12, June 1, and November 2-3. Sample collection dates for previously collected five independent samples are identified in Tables 1 and 2. One ground water sample was collected from each background and downgradient well in each sampling event.

Statistical evaluation of analytical data from the eight independent samples required to be collected by October 17, 2017 and the first semi-annual detection monitoring event on November 2-3, 2017 was initiated and will be completed within 90 days of October 17, 2017 (January 15, 2018) or 90 days from receipt of the data from the first semi-annual detection monitoring event (February 15, 2018), respectively. Statistical evaluation of analytical data is being performed in accordance with the Statistical Analysis Plan, Wood River Power Station, Dynegy Midwest Generation, LLC (NRT/OBG, 2017b).

2.2 PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the groundwater monitoring program during 2017. Groundwater samples were collected and analyzed in accordance with the Sampling and Analysis Plan, and all data was accepted.

3 KEY ACTIVITIES PLANNED FOR 2018

3.1 SUMMARY

The following key activities are planned for 2018:

- Continuation of the Detection Monitoring Program with semi-annual sampling scheduled for the 2nd and 4th quarters of 2018.
- Complete evaluation of analytical data from the downgradient wells, using both the eight samples required to be collected by October 17, 2017 and the first semi-annual detection monitoring sample taken in November 2017 to determine whether a SSI of Appendix III parameters over background concentrations has occurred.
- If an SSI is identified, potential alternate sources (*i.e.*, a source other than the CCR unit caused the SSI or that that SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated. If an alternate source is demonstrated to be the cause of the SSI, a written demonstration will be completed within 90 days of SSI detection and included in the annual groundwater monitoring and corrective action report for 2018.
  - If an alternate source(s) is not identified to be the cause of the SSI, the applicable requirements of 40 CFR §§ 257.94 through 257.98 (*e.g.*, assessment monitoring) as may apply in 2018 will be met, including associated recordkeeping/notifications required by 40 CFR §§ 257.105 through 257.108.

REFERENCES

Natural Resource Technology, an OBG Company, 2017a, Sampling and Analysis Plan, Wood River Primary East Ash Pond, Wood River Power Station, Alton, Illinois, Project No. 2285, Revision 0, October 17, 2017.

Natural Resource Technology, an OBG Company, 2017b, Statistical Analysis Plan, Baldwin Energy Complex, Havana Power Station, Hennepin Power Station, Wood River Power Station, Dynegy Midwest Generation, LLC, October 17, 2017.

Tables

Table 1. Wood River Primary East Ash Pond: Appendix III Analytical Results

Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
21	11/4/2015	0.4130	124.0	6.000	0.1600	7.030	110.0
	2/4/2016	0.2950	117.0	<5.000	0.1600	7.200	95.00
	5/12/2016	0.3700	112.0	5.000	0.1800	7.020	72.00
	8/4/2016	0.3480	119.0	<5.000	0.1900	6.980	63.00
	11/3/2016	0.2830	105.0	<5.000	0.1700	6.720	107.0
	2/1/2017	0.3360	113.0	<5.000	0.1800	7.000	76.00
	4/12/2017	0.3560	112.0	<5.000	0.1800	6.840	58.00
	6/1/2017	0.2540	107.0	<5.000	0.1800	6.600	81.00
	11/3/2017	0.3380	111.0	<5.000	0.1800	7.520	76.00
37	11/4/2015	1.170	125.0	57.00	0.7600	7.030	113.0
	2/3/2016	1.130	138.0	75.00	0.6300	7.020	144.0
	5/12/2016	1.060	161.0	77.00	0.4600	6.900	185.0
	8/3/2016	1.140	203.0	83.00	0.4800	6.900	221.0
	11/2/2016	0.8500	139.0	74.00	0.4600	6.850	149.0
	1/31/2017	1.220	138.0	88.00	0.6200	6.990	139.0
	4/12/2017	1.140	126.0	84.00	0.6300	6.820	108.0
	6/1/2017	1.220	152.0	81.00	0.4600	6.840	133.0
	11/2/2017	0.8690	140.0	59.00	0.5100	7.080	103.0

Table 1. Wood River Primary East Ash Pond: Appendix III Analytical Results

Location ID	Sample Date	TDS, mg/L
21	11/4/2015	364.0
	2/4/2016	458.0
	5/12/2016	464.0
	8/4/2016	438.0
	11/3/2016	460.0
	2/1/2017	435.0
	4/12/2017	472.0
	6/1/2017	490.0
	11/3/2017	472.0
37	11/4/2015	570.0
	2/3/2016	700.0
	5/12/2016	772.0
	8/3/2016	844.0
	11/2/2016	748.0
	1/31/2017	608.0
	4/12/2017	592.0
	6/1/2017	756.0
	11/2/2017	602.0

Table 1. Wood River Primary East Ash Pond: Appendix III Analytical Results

Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
38	**11/4/2015**	4.690	108.0	39.00	0.2400	7.100	150.0
	2/3/2016	4.830	113.0	43.00	0.2400	7.290	178.0
	5/12/2016	6.910	134.0	33.00	0.2600	7.280	215.0
	8/3/2016	3.960	100.0	46.00	0.2800	7.320	138.0
	11/3/2016	3.900	93.40	44.00	0.2600	7.010	159.0
	2/1/2017	6.250	131.0	34.00	0.2600	7.060	227.0
	4/12/2017	5.240	118.0	41.00	0.2600	7.040	172.0
	6/1/2017	3.400	88.70	44.00	0.2700	7.020	121.0
	11/2/2017	1.180	69.40	44.00	<0.1000	7.580	80.00
39S	**11/5/2015**	69.60	243.0	<5.000	0.3100	6.850	549.0
	2/3/2016	59.80	240.0	5.000	0.3400	7.190	609.0
	5/12/2016	65.90	231.0	<5.000	0.4100	6.980	555.0
	8/3/2016	56.20	214.0	<5.000	0.4400	7.170	573.0
	11/3/2016	68.20	209.0	<5.000	0.4100	6.970	526.0
	2/1/2017	54.20	202.0	<5.000	0.4400	6.990	569.0
	4/12/2017	57.10	246.0	<5.000	0.4300	7.040	567.0
	6/1/2017	57.70	203.0	<5.000	0.4300	6.880	501.0
	11/2/2017	59.40	212.0	<5.000	0.4800	7.480	481.0

Table 1. Wood River Primary East Ash Pond: Appendix III Analytical Results

Location ID	Sample Date	TDS, mg/L
38	11/4/2015	480.0
	2/3/2016	426.0
	5/12/2016	400.0
	8/3/2016	450.0
	11/3/2016	484.0
	2/1/2017	634.0
	4/12/2017	572.0
	6/1/2017	470.0
	11/2/2017	384.0
39S	11/5/2015	1200.
	2/3/2016	1220.
	5/12/2016	1140.
	8/3/2016	1120.
	11/3/2016	1080.
	2/1/2017	1130.
	4/12/2017	1190.
	6/1/2017	1050.
	11/2/2017	1050.

Table 1. Wood River Primary East Ash Pond: Appendix III Analytical Results

Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
40S	11/5/2015	27.50	255.0	12.00	0.1100	6.600	564.0
	2/3/2016	24.40	283.0	16.00	0.1300	7.220	556.0
	5/12/2016	23.70	250.0	13.00	0.1600	6.890	545.0
	8/4/2016	22.00	243.0	12.00	0.1900	6.890	488.0
	11/3/2016	23.40	220.0	14.00	0.1500	6.770	511.0
	2/1/2017	26.30	287.0	13.00	0.1900	6.900	562.0
	4/11/2017	20.40	250.0	14.00	0.2000	6.990	427.0
	6/1/2017	26.00	277.0	15.00	0.1900	6.780	620.0
	11/3/2017	25.10	236.0	10.00	0.1400	7.550	548.0
41	11/4/2015	9.170	311.0	22.00	0.1300	7.050	718.0
	2/4/2016	9.320	301.0	22.00	0.1400	7.330	739.0
	5/12/2016	8.870	288.0	20.00	0.1500	6.980	731.0
	8/4/2016	9.200	382.0	21.00	0.1500	6.790	819.0
	11/3/2016	9.450	293.0	24.00	0.1200	6.840	860.0
	2/1/2017	7.870	272.0	19.00	0.1500	6.850	753.0
	4/12/2017	7.420	287.0	18.00	0.1500	6.850	652.0
	6/1/2017	10.60	304.0	20.00	0.1500	6.790	790.0
	11/3/2017	8.070	293.0	18.00	0.1500	7.520	642.0

Table 1. Wood River Primary East Ash Pond: Appendix III Analytical Results

Location ID	Sample Date	TDS, mg/L
40S	11/5/2015	1100.
	2/3/2016	1200.
	5/12/2016	1120.
	8/4/2016	1090.
	11/3/2016	1060.
	2/1/2017	1100.
	4/11/2017	1120.
	6/1/2017	1230.
	11/3/2017	1040.
41	11/4/2015	1470.
	2/4/2016	1340.
	5/12/2016	1340.
	8/4/2016	1530.
	11/3/2016	1600.
	2/1/2017	1410.
	4/12/2017	1250.
	6/1/2017	1540.
	11/3/2017	1340.

Table 2. Wood River Primary East Ash Pond: Appendix IV Analytical Results

Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
21	**11/4/2015**	0.002100	0.2200	<0.001000	<0.001000	<0.001000	<0.001000
	2/4/2016	0.001600	0.1980	<0.001000	<0.001000	<0.001000	<0.001000
	5/12/2016	0.001800	0.1870	<0.001000	<0.001000	<0.001000	<0.001000
	8/4/2016	0.002100	0.1700	<0.001000	<0.001000	<0.001000	<0.001000
	11/3/2016	0.002400	0.2190	<0.001000	<0.001000	<0.001000	<0.001000
	2/1/2017	0.002300	0.1720	<0.001000	<0.001000	<0.001000	<0.001000
	4/12/2017	0.001900	0.1430	<0.001000	<0.001000	<0.001000	<0.001000
	6/1/2017	0.001700	0.1630	<0.001000	<0.001000	<0.001000	<0.001000
37	**11/4/2015**	<0.001000	0.1160	<0.001000	<0.001000	<0.001000	<0.001000
	2/3/2016	<0.001000	0.1150	<0.001000	<0.001000	<0.001000	<0.001000
	5/12/2016	<0.001000	0.1310	<0.001000	<0.001000	<0.001000	<0.001000
	8/3/2016	<0.001000	0.1690	<0.001000	<0.001000	<0.001000	<0.001000
	11/2/2016	<0.001000	0.1630	<0.001000	<0.001000	<0.001000	<0.001000
	1/31/2017	<0.001000	0.1180	<0.001000	<0.001000	<0.001000	<0.001000
	4/12/2017	<0.001000	0.09940	<0.001000	<0.001000	<0.001000	<0.001000
	6/1/2017	<0.001000	0.1160	<0.001000	<0.001000	<0.001000	<0.001000
38	**11/4/2015**	<0.001000	0.1660	<0.001000	<0.001000	<0.001000	<0.001000
	2/3/2016	<0.001000	0.1640	<0.001000	<0.001000	<0.001000	<0.001000

Table 2. Wood River Primary East Ash Pond: Appendix IV Analytical Results

Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
21	11/4/2015	0.1600	<0.0002000	0.01070	<0.001000	<0.001000	2.000
	2/4/2016	0.1600	<0.0002000	0.009800	<0.001000	<0.001000	0.8100
	5/12/2016	0.1800	<0.0002000	0.01050	<0.001000	<0.001000	0.5420
	8/4/2016	0.1900	<0.0002000	0.01250	<0.001000	<0.001000	0.4800
	11/3/2016	0.1700	<0.0002000	0.008900	<0.001000	<0.001000	0.9700
	2/1/2017	0.1800	<0.0002000	0.01030	<0.001000	<0.001000	0.3700
	4/12/2017	0.1800	<0.0002000	0.01150	<0.001000	<0.001000	1.530
	6/1/2017	0.1800	<0.0002000	0.009200	<0.001000	<0.001000	2.180
37	11/4/2015	0.7600	<0.0002000	0.02830	0.007700	<0.001000	2.000
	2/3/2016	0.6300	<0.0002000	0.02740	0.006900	<0.001000	0.2700
	5/12/2016	0.4600	<0.0002000	0.03300	0.004000	<0.001000	0.4700
	8/3/2016	0.4800	<0.0002000	0.04090	0.005300	<0.001000	0.6100
	11/2/2016	0.4600	<0.0002000	0.02900	0.004300	<0.001000	0.4600
	1/31/2017	0.6200	<0.0002000	0.03130	0.006700	<0.001000	0.1800
	4/12/2017	0.6300	<0.0002000	0.03160	0.005600	<0.001000	0.4900
	6/1/2017	0.4600	<0.0002000	0.03610	0.004100	<0.001000	0.2100
38	11/4/2015	0.2400	<0.0002000	0.01460	0.07230	<0.001000	2.000
	2/3/2016	0.2400	<0.0002000	0.01410	0.07780	<0.001000	0.7000

Table 2. Wood River Primary East Ash Pond: Appendix IV Analytical Results

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
21	11/4/2015	<0.001000	0.006200	<0.001000
	2/4/2016	<0.001000	0.003900	<0.001000
	5/12/2016	<0.001000	0.001500	<0.001000
	8/4/2016	<0.001000	0.002200	0.001200
	11/3/2016	<0.001000	0.004800	<0.001000
	2/1/2017	<0.001000	0.003700	<0.001000
	4/12/2017	<0.001000	0.001600	<0.001000
	6/1/2017	<0.001000	0.002500	<0.001000
37	11/4/2015	<0.001000	<0.001000	<0.001000
	2/3/2016	<0.001000	<0.001000	<0.001000
	5/12/2016	<0.001000	<0.001000	<0.001000
	8/3/2016	<0.001000	<0.001000	<0.001000
	11/2/2016	<0.001000	<0.001000	<0.001000
	1/31/2017	<0.001000	<0.001000	<0.001000
	4/12/2017	<0.001000	<0.001000	<0.001000
	6/1/2017	<0.001000	<0.001000	<0.001000
38	11/4/2015	<0.001000	<0.001000	<0.001000
	2/3/2016	<0.001000	<0.001000	<0.001000

Table 2. Wood River Primary East Ash Pond: Appendix IV Analytical Results

Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
38	5/12/2016	<0.001000	0.1980	<0.001000	<0.001000	<0.001000	<0.001000
	8/3/2016	<0.001000	0.1520	<0.001000	<0.001000	<0.001000	<0.001000
	11/3/2016	<0.001000	0.1440	<0.001000	<0.001000	<0.001000	<0.001000
	2/1/2017	<0.001000	0.1960	<0.001000	<0.001000	<0.001000	<0.001000
	4/12/2017	<0.001000	0.1600	<0.001000	<0.001000	<0.001000	<0.001000
	6/1/2017	<0.001000	0.1300	<0.001000	<0.001000	<0.001000	<0.001000
39S	11/5/2015	0.001100	0.03700	<0.001000	<0.001000	0.001400	<0.001000
	2/3/2016	0.001200	0.02920	<0.001000	<0.001000	0.001300	<0.001000
	5/12/2016	0.001200	0.02950	<0.001000	<0.001000	<0.001000	<0.001000
	8/3/2016	0.001300	0.03130	<0.001000	<0.001000	0.001000	<0.001000
	11/3/2016	0.001000	0.02980	<0.001000	<0.001000	<0.001000	<0.001000
	2/1/2017	0.001100	0.02590	<0.001000	<0.001000	<0.001000	<0.001000
	4/12/2017	0.001300	0.02530	<0.001000	<0.001000	<0.001000	<0.001000
	6/1/2017	0.001100	0.02770	<0.001000	<0.001000	<0.001000	<0.001000
40S	11/5/2015	<0.001000	0.09820	<0.001000	<0.001000	<0.001000	<0.001000
	2/3/2016	<0.001000	0.07620	<0.001000	<0.001000	<0.001000	<0.001000
	5/12/2016	0.001500	0.07630	<0.001000	<0.001000	0.001100	<0.001000
	8/4/2016	0.001600	0.07680	<0.001000	<0.001000	0.001300	<0.001000

Table 2. Wood River Primary East Ash Pond: Appendix IV Analytical Results

Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
38	5/12/2016	0.2600	<0.0002000	0.01560	0.09140	<0.001000	1.180
	8/3/2016	0.2800	<0.0002000	0.01440	0.08860	<0.001000	0.2000
	11/3/2016	0.2600	<0.0002000	0.01240	0.07980	<0.001000	2.420
	2/1/2017	0.2600	<0.0002000	0.01430	0.08850	<0.001000	0.4300
	4/12/2017	0.2600	<0.0002000	0.01470	0.08570	<0.001000	1.180
	6/1/2017	0.2700	<0.0002000	0.01500	0.08140	<0.001000	0.7400
39S	11/5/2015	0.3100	<0.0002000	0.01220	0.3700	<0.001000	2.000
	2/3/2016	0.3400	<0.0002000	0.01040	0.3690	<0.001000	0.4900
	5/12/2016	0.4100	<0.0002000	0.01000	0.3750	<0.001000	0.7900
	8/3/2016	0.4400	<0.0002000	0.009700	0.3760	<0.001000	0.6100
	11/3/2016	0.4100	<0.0002000	0.008900	0.5070	<0.001000	1.850
	2/1/2017	0.4400	<0.0002000	0.008800	0.6970	<0.001000	0.2100
	4/12/2017	0.4300	<0.0002000	0.01310	0.5870	<0.001000	0.1100
	6/1/2017	0.4300	<0.0002000	0.01020	0.8570	<0.001000	0.2900
40S	11/5/2015	0.1100	<0.0002000	0.04960	0.1570	<0.001000	2.000
	2/3/2016	0.1300	<0.0002000	0.05860	0.1890	<0.001000	0.1500
	5/12/2016	0.1600	<0.0002000	0.02370	0.1280	<0.001000	0.1800
	8/4/2016	0.1900	<0.0002000	0.01250	0.05390	<0.001000	0.2000

Table 2. Wood River Primary East Ash Pond: Appendix IV Analytical Results

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
38	5/12/2016	<0.001000	<0.001000	<0.001000
	8/3/2016	<0.001000	<0.001000	<0.001000
	11/3/2016	<0.001000	<0.001000	<0.001000
	2/1/2017	<0.001000	<0.001000	<0.001000
	4/12/2017	<0.001000	<0.001000	<0.001000
	6/1/2017	<0.001000	<0.001000	<0.001000
39S	11/5/2015	<0.001000	<0.001000	<0.001000
	2/3/2016	<0.001000	<0.001000	<0.001000
	5/12/2016	<0.001000	<0.001000	<0.001000
	8/3/2016	<0.001000	<0.001000	<0.001000
	11/3/2016	<0.001000	<0.001000	<0.001000
	2/1/2017	<0.001000	<0.001000	<0.001000
	4/12/2017	<0.001000	<0.001000	<0.001000
	6/1/2017	<0.001000	<0.001000	<0.001000
40S	11/5/2015	0.001300	0.005700	<0.001000
	2/3/2016	0.001100	0.004200	<0.001000
	5/12/2016	<0.001000	<0.001000	<0.001000
	8/4/2016	<0.001000	<0.001000	<0.001000

Table 2. Wood River Primary East Ash Pond: Appendix IV Analytical Results

Location ID	Sample Date	As, tot, mg/L	Ba, tot, mg/L	Be, tot, mg/L	Cd,tot, mg/L	Co, tot, mg/L	Cr, tot, mg/L
40S	11/3/2016	0.001600	0.08080	<0.001000	<0.001000	0.001200	<0.001000
	2/1/2017	0.001000	0.1140	<0.001000	<0.001000	0.002200	<0.001000
	4/11/2017	0.001100	0.08450	<0.001000	<0.001000	0.001600	<0.001000
	6/1/2017	0.001900	0.1170	<0.001000	<0.001000	0.001700	<0.001000
41	11/4/2015	<0.001000	0.03000	<0.001000	<0.001000	<0.001000	<0.001000
	2/4/2016	<0.001000	0.02350	<0.001000	<0.001000	<0.001000	<0.001000
	5/12/2016	<0.001000	0.02780	<0.001000	<0.001000	<0.001000	<0.001000
	8/4/2016	<0.001000	0.03470	<0.001000	<0.001000	<0.001000	<0.001000
	11/3/2016	<0.001000	0.02670	<0.001000	<0.001000	<0.001000	<0.001000
	2/1/2017	<0.001000	0.02110	<0.001000	<0.001000	<0.001000	<0.001000
	4/12/2017	<0.001000	0.02300	<0.001000	<0.001000	<0.001000	<0.001000
	6/1/2017	<0.001000	0.02480	<0.001000	<0.001000	<0.001000	<0.001000

Table 2. Wood River Primary East Ash Pond: Appendix IV Analytical Results

Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
40S	11/3/2016	0.1500	<0.0002000	0.01160	0.08230	<0.001000	0.8200
	2/1/2017	0.1900	<0.0002000	0.01100	0.03860	<0.001000	0.5900
	4/11/2017	0.2000	<0.0002000	0.01060	0.02060	<0.001000	0.7200
	6/1/2017	0.1900	<0.0002000	0.03120	0.1730	<0.001000	0.8800
41	11/4/2015	0.1300	<0.0002000	0.03980	0.03610	<0.001000	2.000
	2/4/2016	0.1400	<0.0002000	0.02590	0.03650	<0.001000	0.5400
	5/12/2016	0.1500	<0.0002000	0.02790	0.05190	<0.001000	0.6610
	8/4/2016	0.1500	<0.0002000	0.04200	0.03950	<0.001000	0.0
	11/3/2016	0.1200	<0.0002000	0.03200	0.03040	<0.001000	0.6400
	2/1/2017	0.1500	<0.0002000	0.02850	0.03470	<0.001000	0.3800
	4/12/2017	0.1500	<0.0002000	0.03030	0.04650	<0.001000	0.5400
	6/1/2017	0.1500	<0.0002000	0.03440	0.03670	<0.001000	0.0

Table 2. Wood River Primary East Ash Pond: Appendix IV Analytical Results

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
40S	11/3/2016	<0.001000	<0.001000	<0.001000
	2/1/2017	0.001100	<0.001000	<0.001000
	4/11/2017	<0.001000	<0.001000	<0.001000
	6/1/2017	<0.001000	<0.001000	<0.001000
41	11/4/2015	<0.001000	0.001100	<0.001000
	2/4/2016	<0.001000	<0.001000	<0.001000
	5/12/2016	<0.001000	<0.001000	<0.001000
	8/4/2016	<0.001000	<0.001000	<0.001000
	11/3/2016	<0.001000	0.001200	<0.001000
	2/1/2017	<0.001000	<0.001000	<0.001000
	4/12/2017	<0.001000	<0.001000	<0.001000
	6/1/2017	<0.001000	<0.001000	<0.001000

Figures

GROUNDWATER SAMPLING WELL LOCATION MAP
WOOD RIVER PRIMARY EAST ASH POND
UNIT ID: 901

2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DYNEGY CCR RULE GROUNDWATER MONITORING
WOOD RIVER POWER STATION
EAST ALTON, ILLINOIS

DRAWN BY/DATE:
SDS 12/11/17
REVIEWED BY/DATE:
KLT 12/11/17
APPROVED BY/DATE:
SJC 1/25/18

PROJECT NO: 67721

FIGURE NO: 1

OBG

THERE'S A WAY