

2017 Annual Groundwater Monitoring and Corrective Action Report

**Brayton Point Ash Basin A, Ash Basin B, Ash Basin C
Brayton Point Power Station
1 Brayton Point Road
Somerset, Massachusetts 02725**

Brayton Point, LLC

January 31, 2018



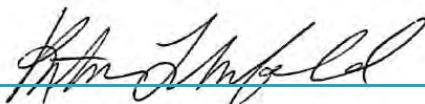
BRAYTON POINT ASH BASIN A, ASH BASIN B, ASH BASIN C
2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

JANUARY 31, 2018 | PROJECT #68947

2017 Annual Groundwater Monitoring and Corrective Action Report

Brayton Point Ash Basin A, Ash Basin B, Ash Basin C
Brayton Point Power Station
Somerset, Massachusetts

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Brayton Point, LLC



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2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT**

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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
TDS	Total Dissolved Solids

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1 INTRODUCTION

1.1 OVERVIEW

This report has been prepared on behalf of Brayton Point, LLC by O'Brien & Gere Engineers, Inc. (OBG), to provide the information required by 40 CFR 257.90(e) for the Brayton Point Ash Basin A, Ash Basin B, Ash Basin C located at Brayton Point Power Station near Somerset, Massachusetts.

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 Brayton Point Ash Basin A, Ash Basin B, Ash Basin C 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 14-15, 2017, for which analytical data was received on November 29, 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 (upgradient) and downgradient monitoring wells with well identification numbers, for the Brayton Point Ash Basin A, Ash Basin B, Ash Basin C 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 (GEI, 2017) prepared for the Brayton Point Ash Basin A, Ash Basin B, Ash Basin C.

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 February 14-15, May 9-10, July 19-20, and November 14-15. Sample collection dates for previously collected five independent samples are identified in Tables 1 and 2.

Generally, one ground water sample was collected from each background and downgradient well in each sampling event. Total Dissolved Solids (TDS) was inadvertently not requested for laboratory analysis for samples collected on February 14-15, 2017. Consequently, additional samples were collected for TDS analysis on April 24-25, 2017.

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 14-15, 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 27, 2018), respectively. Statistical evaluation of analytical data is being performed in accordance with the Statistical Analysis Plan, Brayton Point Power Station, Brayton Point Energy, LLC (NRT/OBG, 2017).

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.

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REFERENCES

GEI Consultants, Inc., 2017, Sampling and Analysis Plan, Brayton Point Ash Basin A, Ash Basin B, Ash Basin C, Brayton Point Power Station, Somerset, Massachusetts, Project 1508760, Revision 0, October 17, 2017.

Natural Resource Technology, an OBG Company, 2017, Statistical Analysis Plan, Brayton Point Power Station, Brayton Point Energy, LLC, October 17, 2017.

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Tables

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Table 1. Brayton Point Ash Basins A, B, C: Appendix III Analytical Results

5:08:13 PM

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
MW301	11/24/2015	0.04900	12.70	17.00	<0.2000	5.740	30.00
	2/16/2016	<0.03000	8.930	17.20	<0.2000	4.740	7.580
	5/9/2016	0.04400	8.440	12.40	<0.2000	4.930	7.280
	8/11/2016	0.03570	8.540	18.20	<0.2000	5.060	13.50
	11/16/2016	0.04200	13.60	17.10	<0.2000	4.980	31.80
	2/14/2017	<0.03000	9.800	19.30	<0.2000	5.030	8.200
	4/25/2017						
	5/9/2017	<0.03000	7.250	12.50	<0.2000	5.200	7.070
	7/19/2017	0.03100	6.860	12.20	<0.2000	6.050	11.80
	11/15/2017	0.04800	17.30	22.50	<0.2000	5.680	36.60
MW801	11/23/2015	0.2760	73.00	97.00	<0.2000	6.470	110.0
	2/17/2016	0.2220	63.10	96.60	<0.2000	6.370	95.40
	5/9/2016	0.2130	61.70	79.00	<0.2000	6.320	92.60
	8/11/2016	0.2080	61.90	82.70	<0.2000	6.260	109.0
	11/16/2016	0.2240	60.20	76.50	<0.2000	5.930	94.10
	2/14/2017	0.2110	78.20	107.0	<0.2000	6.380	152.0
	4/25/2017						
	5/9/2017	0.2230	73.60	104.0	<0.2000	6.290	154.0

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Table 1. Brayton Point Ash Basins A, B, C: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
MW301	11/24/2015	90.00
	2/16/2016	74.00
	5/9/2016	99.00
	8/11/2016	88.00
	11/16/2016	73.00
	2/14/2017	
	4/25/2017	100.0
	5/9/2017	90.00
	7/19/2017	60.00
	11/15/2017	130.0
MW801	11/23/2015	530.0
	2/17/2016	480.0
	5/9/2016	500.0
	8/11/2016	480.0
	11/16/2016	440.0
	2/14/2017	
	4/25/2017	600.0
	5/9/2017	590.0

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Table 1. Brayton Point Ash Basins A, B, C: Appendix III Analytical Results

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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
MW801	7/20/2017	0.2000	61.60	85.60	<0.2000	7.370	106.0
	11/14/2017	0.2570	110.0	164.0	<0.2000	6.420	188.0
MW802	11/23/2015	0.5050	43.10	230.0	1.300	6.660	77.00
	2/16/2016	0.3030	41.40	123.0	0.9600	6.870	52.60
	5/9/2016	0.2700	46.60	118.0	0.8600	7.090	83.90
	8/11/2016	0.4890	70.20	109.0	0.8400	7.140	154.0
	11/17/2016	0.5400	56.50	134.0	0.8600	6.470	130.0
	2/15/2017	0.3130	64.00	119.0	0.7400	7.180	109.0
	4/24/2017						
	5/9/2017	0.3790	61.10	115.0	0.6500	7.300	128.0
	7/20/2017	0.4490	67.30	108.0	<0.2000	7.810	165.0
	11/14/2017	0.5230	81.10	132.0	0.9300	7.150	174.0
MW803	11/24/2015	0.5780	40.80	69.00	0.7100	6.910	50.00
	2/17/2016	0.4880	41.60	76.20	0.6400	6.890	39.80
	5/10/2016	0.4420	46.00	67.80	0.6300	6.890	36.60
	8/11/2016	0.4470	46.10	79.20	0.6400	7.020	30.00
	11/16/2016	0.4090	41.00	67.10	0.6700	6.680	33.30
	2/14/2017	0.4040	48.00	98.20	0.6000	7.250	51.80

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Table 1. Brayton Point Ash Basins A, B, C: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
MW801	7/20/2017	510.0
	11/14/2017	780.0
MW802	11/23/2015	650.0
	2/16/2016	440.0
	5/9/2016	480.0
	8/11/2016	520.0
	11/17/2016	520.0
	2/15/2017	
	4/24/2017	470.0
	5/9/2017	480.0
	7/20/2017	540.0
	11/14/2017	550.0
MW803	11/24/2015	370.0
	2/17/2016	340.0
	5/10/2016	320.0
	8/11/2016	340.0
	11/16/2016	260.0
	2/14/2017	

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Table 1. Brayton Point Ash Basins A, B, C: Appendix III Analytical Results

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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
MW803	4/24/2017						
	5/10/2017	0.5310	48.60	100.0	0.6000	7.260	55.90
	7/20/2017	0.5150	42.70	89.80	0.6200	7.470	61.90
	11/14/2017	0.4790	50.50	84.20	0.6300	7.310	81.40
MW804	11/24/2015	0.1810	21.80	40.00	0.9100	6.750	61.00
	2/16/2016	0.1190	16.90	33.80	0.8600	6.720	26.80
	5/10/2016	0.1870	24.40	34.60	0.8000	6.530	56.80
	8/11/2016	0.2380	24.40	42.00	0.8500	6.560	51.60
	11/17/2016	0.2240	30.00	40.20	0.9000	6.750	66.70
	2/15/2017	0.2020	21.60	42.40	0.7700	7.100	42.00
	4/25/2017						
	5/10/2017	0.2320	35.20	41.80	0.5700	6.970	75.90
	7/19/2017	0.4700	87.60	41.50	0.4300	6.680	288.0
	11/15/2017	0.2470	38.60	46.70	0.7500	7.140	64.80
MW805	11/24/2015	0.3350	83.30	90.00	0.7200	7.120	68.00
	2/16/2016	0.1850	30.80	51.70	0.7500	6.980	31.50
	5/9/2016	0.3430	57.00	56.90	0.6000	6.900	143.0
	8/11/2016	0.2550	29.40	68.00	0.7700	6.890	47.60

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Table 1. Brayton Point Ash Basins A, B, C: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
MW803	4/24/2017	400.0
	5/10/2017	400.0
	7/20/2017	380.0
	11/14/2017	380.0
MW804	11/24/2015	180.0
	2/16/2016	110.0
	5/10/2016	180.0
	8/11/2016	180.0
	11/17/2016	200.0
	2/15/2017	
	4/25/2017	200.0
	5/10/2017	200.0
	7/19/2017	490.0
	11/15/2017	260.0
MW805	11/24/2015	440.0
	2/16/2016	220.0
	5/9/2016	400.0
	8/11/2016	260.0

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Table 1. Brayton Point Ash Basins A, B, C: Appendix III Analytical Results

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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
MW805	11/17/2016	0.3580	49.30	64.50	0.6000	6.440	117.0
	2/14/2017	0.2780	53.90	73.00	0.5700	7.110	107.0
	4/24/2017						
	5/10/2017	0.3280	65.50	82.80	0.4400	7.190	113.0
	7/19/2017	0.3400	66.10	99.10	0.4300	7.540	126.0
	11/14/2017	0.4810	138.0	232.0	0.5300	7.360	121.0

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Table 1. Brayton Point Ash Basins A, B, C: Appendix III Analytical Results

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Location ID	Sample Date	TDS, mg/L
MW805	11/17/2016	330.0
	2/14/2017	
	4/24/2017	410.0
	5/10/2017	380.0
	7/19/2017	450.0
	11/14/2017	740.0

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Table 2. Brayton Point Ash Basins A, B, C: Appendix IV Analytical Results

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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
MW301	11/24/2015	<0.0005000	0.01930	<0.0005000	<0.0002000	<0.0005000	<0.001000
	2/16/2016	<0.0005000	0.06368	<0.0005000	0.0002800	0.001010	<0.001000
	5/9/2016	<0.0005000	0.04151	<0.0005000	<0.0002000	0.0007200	<0.001000
	8/11/2016	<0.0005000	0.01260	<0.0005000	<0.0002000	<0.0002000	<0.001000
	11/16/2016	<0.0005000	0.02871	<0.0005000	<0.0002000	<0.0005000	<0.001000
	2/14/2017	0.0005200	0.05677	<0.0005000	0.0002400	0.0005000	<0.001000
	5/9/2017	<0.0005000	0.05031	<0.0005000	0.0002500	0.0008400	<0.001000
	7/19/2017	<0.0005000	0.01263	<0.0005000	<0.0002000	<0.0005000	<0.001000
MW801	11/23/2015	0.0009000	0.05470	<0.0005000	<0.0002000	0.001900	<0.001000
	2/17/2016	0.0006000	0.05320	<0.0005000	<0.0002000	0.001800	<0.001000
	5/9/2016	<0.0005000	0.04738	<0.0005000	<0.0002000	0.001640	<0.001000
	8/11/2016	0.0006000	0.05370	<0.0005000	<0.0002000	0.001800	<0.001000
	11/16/2016	0.0007500	0.05331	<0.0005000	<0.0002000	0.001610	<0.001000
	2/14/2017	0.0006500	0.07474	<0.0005000	<0.0002000	0.002290	<0.001000
	5/9/2017	<0.0005000	0.06967	<0.0005000	<0.0002000	0.002010	<0.001000
	7/20/2017	0.0005900	0.05439	<0.0005000	<0.0002000	0.002050	<0.001000
MW802	11/23/2015	<0.0005000	0.003000	<0.0005000	<0.0002000	<0.0005000	0.001800
	2/16/2016	<0.0005000	0.0009600	<0.0005000	<0.0002000	<0.0002000	0.001100

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Table 2. Brayton Point Ash Basins A, B, C: Appendix IV Analytical Results

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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
MW301	11/24/2015	<0.2000	<0.0002000	<0.005000	<0.002000	<0.001000	0.2000
	2/16/2016	<0.2000	<0.0002000	<0.008000	<0.003000	<0.001000	1.000
	5/9/2016	<0.2000	<0.0002000	<0.008000	<0.002000	<0.001000	0.4000
	8/11/2016	<0.2000	<0.0002000	<0.008000	<0.003000	<0.001000	0.2000
	11/16/2016	<0.2000	<0.0002000	<0.008000	<0.003000	<0.001000	0.3000
	2/14/2017	<0.2000	<0.0002000	<0.008000	<0.002000	<0.001000	0.4000
	5/9/2017	<0.2000	<0.0002000	<0.008000	<0.002000	<0.0005000	0.9000
	7/19/2017	<0.2000	<0.0002000	<0.008000	<0.002000	<0.001000	1.200
MW801	11/23/2015	<0.2000	<0.0002000	<0.005000	<0.002000	<0.001000	1.400
	2/17/2016	<0.2000	<0.0002000	<0.008000	<0.003000	<0.001000	0.5000
	5/9/2016	<0.2000	<0.0002000	<0.008000	<0.002000	<0.001000	1.100
	8/11/2016	<0.2000	<0.0002000	<0.008000	<0.003000	<0.001000	1.700
	11/16/2016	<0.2000	<0.0002000	<0.008000	<0.003000	<0.001000	0.8000
	2/14/2017	<0.2000	<0.0002000	<0.008000	<0.002000	<0.001000	2.100
	5/9/2017	<0.2000	<0.0002000	<0.008000	<0.002000	<0.0005000	2.500
	7/20/2017	<0.2000	<0.0002000	<0.008000	<0.002000	<0.001000	2.700
MW802	11/23/2015	1.300	<0.0002000	0.02070	0.002800	<0.001000	0.5000
	2/16/2016	0.9600	<0.0002000	0.02070	0.01295	<0.001000	0.1000

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Table 2. Brayton Point Ash Basins A, B, C: Appendix IV Analytical Results

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Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
MW301	11/24/2015	<0.002000	<0.005000	<0.0005000
	2/16/2016	<0.003000	<0.005000	<0.0005000
	5/9/2016	<0.002000	<0.005000	<0.0005000
	8/11/2016	<0.002000	<0.005000	<0.0005000
	11/16/2016	<0.004000	<0.005000	<0.0005000
	2/14/2017	<0.004000	<0.005000	<0.0005000
	5/9/2017	<0.004000	<0.005000	<0.0005000
	7/19/2017	<0.004000	<0.005000	<0.0005000
MW801	11/23/2015	<0.002000	<0.005000	<0.0005000
	2/17/2016	<0.002000	<0.005000	<0.0002000
	5/9/2016	<0.002000	<0.005000	<0.0005000
	8/11/2016	<0.002000	<0.005000	<0.0005000
	11/16/2016	<0.004000	<0.005000	<0.0005000
	2/14/2017	<0.004000	<0.005000	<0.0005000
	5/9/2017	<0.004000	<0.005000	<0.0005000
	7/20/2017	<0.004000	<0.005000	<0.0005000
MW802	11/23/2015	<0.002000	<0.005000	<0.0005000
	2/16/2016	<0.003000	<0.005000	<0.0005000

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Table 2. Brayton Point Ash Basins A, B, C: Appendix IV Analytical Results

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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
MW802	5/9/2016	<0.0005000	0.001010	<0.0005000	<0.0002000	<0.0002000	<0.001000
	8/11/2016	<0.0005000	0.001500	<0.0005000	<0.0002000	<0.0002000	<0.001000
	11/17/2016	<0.0005000	0.001680	<0.0005000	<0.0002000	<0.0005000	<0.001000
	2/15/2017	<0.0005000	0.001260	<0.0005000	<0.0002000	<0.0005000	<0.001000
	5/9/2017	<0.0005000	0.0006100	<0.0005000	<0.0002000	<0.0005000	<0.001000
	7/20/2017	<0.0005000	0.0007700	<0.0005000	<0.0002000	<0.0005000	<0.001000
MW803	11/24/2015	0.01010	0.003700	<0.0005000	<0.0002000	<0.0005000	0.002000
	2/17/2016	0.01200	0.003300	<0.0005000	<0.0002000	<0.0005000	<0.001000
	5/10/2016	0.01133	0.002820	<0.0005000	<0.0002000	0.0003200	<0.001000
	8/11/2016	0.01020	0.002900	<0.0005000	<0.0002000	0.0003000	<0.001000
	11/16/2016	0.009840	0.002250	<0.0005000	<0.0002000	<0.0005000	<0.001000
	2/14/2017	0.009720	0.002840	<0.0005000	<0.0002000	<0.0005000	<0.001000
	5/10/2017	0.01173	0.003010	<0.0005000	<0.0002000	<0.0005000	<0.001000
	7/20/2017	0.01283	0.002860	<0.0005000	<0.0002000	<0.0005000	<0.001000
MW804	11/24/2015	0.001000	0.02690	<0.0005000	<0.0002000	<0.0005000	0.001500
	2/16/2016	0.0009300	0.01630	<0.0005000	<0.0002000	<0.0002000	0.001030
	5/10/2016	0.001130	0.02428	<0.0005000	<0.0002000	<0.0002000	<0.001000
	8/11/2016	0.001100	0.02910	<0.0005000	<0.0002000	<0.0002000	<0.001000

Brayton Point

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Table 2. Brayton Point Ash Basins A, B, C: Appendix IV Analytical Results

5:08:19 PM

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
MW802	5/9/2016	0.8600	<0.0002000	0.02510	0.01998	<0.001000	0.2000
	8/11/2016	0.8400	<0.0002000	0.04287	0.04320	<0.001000	0.1000
	11/17/2016	0.8600	<0.0002000	0.04704	0.03276	<0.001000	0.2000
	2/15/2017	0.7400	<0.0002000	0.03670	0.02326	<0.001000	0.1000
	5/9/2017	0.6500	<0.0002000	0.04100	0.03102	<0.0005000	0.1000
	7/20/2017	<0.2000	<0.0002000	0.05120	0.04352	<0.001000	1.500
MW803	11/24/2015	0.7100	<0.0002000	<0.005000	0.03760	<0.001000	0.1000
	2/17/2016	0.6400	<0.0002000	<0.008000	0.03710	<0.001000	0.3000
	5/10/2016	0.6300	<0.0002000	<0.008000	0.03389	<0.001000	0.8000
	8/11/2016	0.6400	<0.0002000	<0.008000	0.02830	<0.001000	0.0
	11/16/2016	0.6700	<0.0002000	<0.008000	0.03360	<0.001000	0.0
	2/14/2017	0.6000	<0.0002000	<0.008000	0.04301	<0.001000	0.0
	5/10/2017	0.6000	<0.0002000	<0.008000	0.04849	<0.001000	0.3000
	7/20/2017	0.6200	<0.0002000	<0.008000	0.04730	<0.001000	0.6000
MW804	11/24/2015	0.9100	<0.0002000	0.04310	0.01770	<0.001000	1.200
	2/16/2016	0.8600	<0.0002000	0.03330	0.01773	<0.001000	0.1000
	5/10/2016	0.8000	<0.0002000	0.03140	0.01302	<0.001000	0.1000
	8/11/2016	0.8500	<0.0002000	0.05007	0.01450	<0.001000	0.2000

Brayton Point

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Table 2. Brayton Point Ash Basins A, B, C: Appendix IV Analytical Results

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Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
MW802	5/9/2016	<0.002000	<0.005000	<0.0005000
	8/11/2016	<0.002000	<0.005000	<0.0005000
	11/17/2016	<0.004000	<0.005000	<0.0005000
	2/15/2017	<0.004000	<0.005000	<0.0005000
	5/9/2017	<0.004000	<0.005000	<0.0005000
	7/20/2017	<0.004000	<0.005000	<0.0005000
MW803	11/24/2015	<0.002000	<0.005000	<0.0005000
	2/17/2016	<0.002000	<0.005000	<0.0005000
	5/10/2016	<0.002000	<0.005000	<0.0005000
	8/11/2016	<0.002000	<0.005000	<0.0005000
	11/16/2016	<0.004000	<0.005000	<0.0005000
	2/14/2017	<0.004000	<0.005000	<0.0005000
	5/10/2017	<0.005000	<0.005000	<0.0005000
	7/20/2017	<0.004000	<0.005000	<0.0005000
MW804	11/24/2015	0.002900	<0.005000	<0.0005000
	2/16/2016	<0.003000	0.006310	<0.0005000
	5/10/2016	0.002000	0.007620	<0.0005000
	8/11/2016	0.002700	<0.005000	<0.0005000

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Table 2. Brayton Point Ash Basins A, B, C: Appendix IV Analytical Results

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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
MW804	11/17/2016	0.005380	0.02039	<0.0005000	<0.0002000	<0.0005000	0.002350
	2/15/2017	0.009060	0.02982	<0.0005000	<0.0002000	<0.0005000	<0.001000
	5/10/2017	0.006440	0.01810	<0.0005000	<0.0002000	<0.0005000	<0.001000
	7/19/2017	0.001990	0.09473	<0.0005000	<0.0002000	<0.0005000	<0.001000
MW805	11/24/2015	0.004800	0.04450	<0.0005000	<0.0002000	<0.0005000	<0.001000
	2/16/2016	0.003950	0.01935	<0.0005000	<0.0002000	0.0002100	0.001110
	5/9/2016	0.002620	0.03692	<0.0005000	<0.0002000	<0.0002000	0.001050
	8/11/2016	0.004400	0.02320	<0.0005000	<0.0002000	<0.0002000	<0.001000
	11/17/2016	0.005250	0.03451	<0.0005000	<0.0002000	<0.0005000	<0.001000
	2/14/2017	0.003070	0.02965	<0.0005000	<0.0002000	<0.0005000	<0.001000
	5/10/2017	0.002600	0.03636	<0.0005000	<0.0002000	<0.0005000	<0.001000
	7/19/2017	0.003210	0.04759	<0.0005000	<0.0002000	<0.0005000	<0.001000

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Table 2. Brayton Point Ash Basins A, B, C: Appendix IV Analytical Results

5:08:19 PM

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
MW804	11/17/2016	0.9000	<0.0002000	0.01909	0.02034	<0.001000	0.0
	2/15/2017	0.7700	<0.0002000	0.02376	0.02500	<0.001000	0.1000
	5/10/2017	0.5700	<0.0002000	0.01070	0.01834	<0.001000	0.5000
	7/19/2017	0.4300	<0.0002000	0.07580	0.01139	<0.001000	1.800
MW805	11/24/2015	0.7200	<0.0002000	0.01980	0.02460	<0.001000	0.2000
	2/16/2016	0.7500	<0.0002000	0.01320	0.01794	<0.001000	0.3000
	5/9/2016	0.6000	<0.0002000	0.01540	0.01075	<0.001000	0.1000
	8/11/2016	0.7700	<0.0002000	0.01642	0.03570	<0.001000	0.2000
	11/17/2016	0.6000	<0.0002000	0.02128	0.03259	<0.001000	0.3000
	2/14/2017	0.5700	<0.0002000	0.01488	0.02762	<0.001000	0.1000
	5/10/2017	0.4400	<0.0002000	0.01710	0.03210	<0.001000	0.8000
	7/19/2017	0.4300	<0.0002000	0.02090	0.04830	<0.001000	1.100

Brayton Point

January 16, 2018

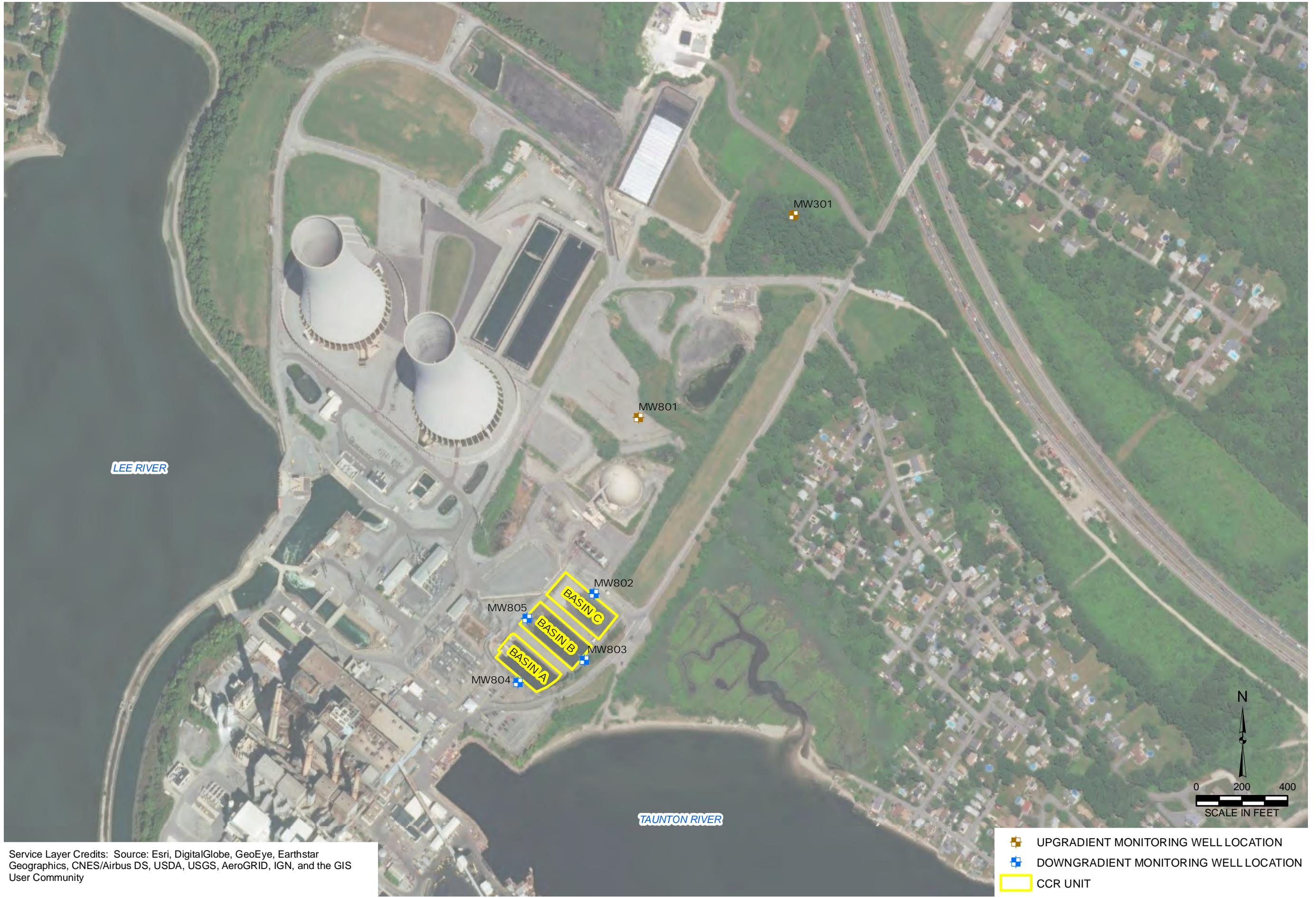
Table 2. Brayton Point Ash Basins A, B, C: Appendix IV Analytical Results

5:08:19 PM

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
MW804	11/17/2016	<0.004000	0.007960	<0.0005000
	2/15/2017	<0.004000	0.01420	<0.0005000
	5/10/2017	0.005010	0.01110	<0.0005000
	7/19/2017	<0.004000	0.007850	<0.0005000
MW805	11/24/2015	<0.002000	<0.005000	<0.0005000
	2/16/2016	<0.003000	<0.005000	<0.0005000
	5/9/2016	<0.002000	<0.005000	<0.0005000
	8/11/2016	<0.002000	<0.005000	<0.0005000
	11/17/2016	<0.004000	<0.005000	<0.0005000
	2/14/2017	<0.004000	<0.005000	<0.0005000
	5/10/2017	<0.005000	<0.005000	<0.0005000
	7/19/2017	<0.004000	<0.005000	<0.0005000

BRAYTON POINT ASH BASIN A, ASH BASIN B, ASH BASIN C
2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Figures



DRAWN BY/DATE:
SDS 1/8/18
REVIEWED BY/DATE:
KLT 1/8/18
APPROVED BY/DATE:
SJC 1/25/18

GROUNDWATER SAMPLING WELL LOCATION MAP
BRAYTON POINT ASH BASIN A, ASH BASIN B, ASH BASIN C
2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BRAYTON POINT POWER STATION
SOMERSET, MASSACHUSETTS



OBG

THERE'S A WAY

