Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
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SUMMARY REPORT

GAI Consultants
385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162001-01	Y162001-02	Y162001-03	Y162001-04	Y162001-05	Y162001-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160509-935-BET	160509-1021-BET	160509-1058-BET	160509-1140-BET	160509-1223-BET	160509-1259-BET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Arsenic	0.35 ug/L	2.0 ug/L	2.1	2.1	2.2	2.3	2.4	2.4
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048 [3]	<0.048 [3]	<0.048 [3]	<0.048 [3]	<0.048 [3]	<0.048 [3]
Nickel	0.26 ug/L	2.0 ug/L	0.82 [1] [2]	0.89 [1] [2]	0.95 [1] [2]	0.92 [1] [2]	0.98 [1] [2]	0.94 [1] [2]
Selenium	0.26 ug/L	2.0 ug/L	2.0 [1]	2.6 [1]	3.0 [1]	2.8 [1]	2.7 [1]	2.4 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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Project: Possum Point Power Station
Project Number: 150132.00

< 1 hr between samples since both tanks filled at 14:24 and release to 503 commenced at 15:21

LAB #			Y162001-07	Y162001-08	Y162001-09	Y162001-10	-	-
MATRIX	Method	Reporting	Water	Water	Water	Water	-	-
SAMPLE ID	Detection Limit	Limit	160509-1341-B ET	160509-1424-B ET	160509-1556-B ET	160509-1649-B ET	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	<0.19	<0.19	<0.19	<0.19	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.6	2.6	2.6	2.5	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	0.73 [2]	<0.21	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048 [3]	<0.048 [3]	<0.048 [3]	<0.048 [3]	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.0 [1] [2]	1.1 [1] [2]	1.2 [1] [2]	1.2 [1] [2]	-	-
Selenium	0.26 ug/L	2.0 ug/L	2.8 [1]	2.7 [1]	2.9 [1]	3.0 [1]	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	-	-
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	-	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = Resuts may be biased low because of low continuing calibration verification (CCV).
4 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

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Project: Possum Point Power Station
Project Number: 150132.00

More than 1 hr between samples because system down for maintenance

LAB #				Y162002-01	Y162002-02	Y162002-03	Y162002-04	Y162002-05	Y162002-06
MATRIX	Method		Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit		Limit	160510-0835-B ET	160510-0935-B ET	160510-1009-B ET	160510-1249-B ET	160510-1339-B ET	160510-1425-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)									
Antimony	0.19	ug/L	2.0 ug/L	<0.19	<0.19	<0.19	<0.19	0.20 [1]	0.21 [1]
Arsenic	0.35	ug/L	2.0 ug/L	1.7 [1]	1.7 [1]	2.0	1.4 [1]	1.6 [1]	1.4 [1]
Cadmium	0.040	ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86	ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56	ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21	ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048	ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26	ug/L	2.0 ug/L	0.74 [1]	0.97 [1]	0.94 [1]	0.88 [1]	1.0 [1]	0.96 [1]
Selenium	0.26	ug/L	2.0 ug/L	2.4	2.9	2.8	2.5	2.8	2.6
Silver	0.16	ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051	ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83	ug/L	2.0 ug/L	1.7 [1]	1.5 [1]	1.4 [1]	1.0 [1]	<0.83	<0.83

Special Notes

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LAB #			Y162002-07	Y162002-08	Y162002-09	-	-	-
MATRIX	Method	Reporting	Water	Water	Water	-	-	-
SAMPLE ID	Detection Limit	Limit	160510-1511-B ET	160510-1552-B ET	160510-1644-B ET	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.23 [1]	0.27 [1]	0.27 [1]	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	1.6 [1]	1.6 [1]	1.5 [1]	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.0 [1]	1.1 [1]	1.1 [1]	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	2.9	2.8	2.9	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	1.0 [1]	<0.83	-	-	-

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LAB #			Y162003-01	Y162003-02	Y162003-03	Y162003-04	Y162003-05	Y162003-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160511-0807-B ET	160511-0858-B ET	160511-0945-B ET	160511-1021-B ET	160511-1101-B ET	160511-1138-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.19 [1]	<0.19	0.21 [1]	0.24 [1]	0.22 [1]	0.26 [1]
Arsenic	0.35 ug/L	2.0 ug/L	2.5	2.1	2.5	2.4	2.5	2.4
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.2 [1]	1.2 [1]	1.3 [1]	1.4 [1]	1.3 [1]	1.3 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.8	2.7	3.1	3.0	3.1	2.9
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	4.2	1.8 [1]	1.2 [1]	1.8 [1]	0.94 [1]	1.0 [1]

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LAB #			Y162003-07	Y162003-08	Y162003-09	Y162003-10	Y162003-11	Y162003-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160511-1226-B ET	160511-1315-B ET	160511-1400-B ET	160511-1441-B ET	160511-1515-B ET	160511-1554-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.26 [1]	0.30 [1]	0.36 [1]	0.33 [1]	0.37 [1]	0.41 [1]
Arsenic	0.35 ug/L	2.0 ug/L	2.6	2.7	2.9	2.5	2.6	2.7
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048 [2]	<0.048 [2]	<0.048 [2]	<0.048 [2]	<0.048 [2]
Nickel	0.26 ug/L	2.0 ug/L	1.4 [1]	1.3 [1]	1.4 [1]	1.3 [1]	1.4 [1]	1.4 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.0	2.9	3.3	2.9	3.1	3.1
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	0.89 [1]	<0.83	<0.83	<0.83	<0.83	6.0

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LAB #			Y162003-13	Y162003-14	-	-	-	-
MATRIX	Method	Reporting	Water	Water	-	-	-	-
SAMPLE ID	Detection Limit	Limit	160511-1629-B ET	160511-1706-B ET	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.40 [1]	0.42 [1]	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.7	2.7	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048 [2]	<0.048 [2]	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.4 [1]	1.4 [1]	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	3.0	3.1	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	0.85 [1]	-	-	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = Resuts may be biased low because of low continuing calibration verification (CCV).
3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

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LAB #			Y162004-01	Y162004-02	Y162004-03	Y162004-04	Y162004-05	Y162004-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160512-0812-B ET	160512-0848-B ET	160512-0927-B ET	160512-1008-B ET	160512-1037-B ET	160512-1110-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.37 [1]	0.46 [1]	0.43 [1]	0.44 [1]	0.48 [1]	0.52 [1]
Arsenic	0.35 ug/L	2.0 ug/L	2.6	2.6	2.4	2.4	2.4	2.4
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.3 [1]	1.6 [1]	1.5 [1]	1.5 [1]	1.4 [1]	1.5 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.1	3.5	3.3	3.1	3.1	3.3
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	0.14 [1]	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	2.2	1.4 [1]	0.95 [1]	<0.83	<0.83	<0.83

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LAB #			Y162004-07	Y162004-08	Y162004-09	Y162004-10	Y162004-11	Y162004-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160512-1253-B ET	160512-1333-B ET	160512-1417-B ET	160512-1451-B ET	160512-1526-B ET	160512-1603-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.44 [1]	0.53 [1]	0.56 [1]	0.59 [1]	0.61 [1]	0.61 [1]
Arsenic	0.35 ug/L	2.0 ug/L	2.5	2.4	2.2	2.3	2.3	2.3
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.4 [1]	1.5 [1]	1.4 [1]	1.4 [1]	1.5 [1]	1.4 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.2	3.4	3.2	3.2	3.2	3.1
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	1.0 [1]	0.90 [1]	0.88 [1]	<0.83	<0.83	<0.83

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #				Y162004-13	Y162004-14	-	-	-	-
MATRIX	Method		Reporting	Water	Water	-	-	-	-
SAMPLE ID	Detection Limit		Limit	160512-1638-B ET	160512-1709-B ET	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)									
Antimony	0.19	ug/L	2.0 ug/L	0.65 [1]	0.66 [1]	-	-	-	-
Arsenic	0.35	ug/L	2.0 ug/L	2.4	2.5	-	-	-	-
Cadmium	0.040	ug/L	0.40 ug/L	<0.040	<0.040	-	-	-	-
Chromium	0.86	ug/L	2.0 ug/L	<0.86	<0.86	-	-	-	-
Copper	0.56	ug/L	2.0 ug/L	<0.56	<0.56	-	-	-	-
Lead	0.21	ug/L	2.0 ug/L	<0.21	<0.21	-	-	-	-
Mercury	0.048	ug/L	0.20 ug/L	<0.048	<0.048	-	-	-	-
Nickel	0.26	ug/L	2.0 ug/L	1.4 [1]	1.5 [1]	-	-	-	-
Selenium	0.26	ug/L	2.0 ug/L	3.2	3.3	-	-	-	-
Silver	0.16	ug/L	0.40 ug/L	<0.16	<0.16	-	-	-	-
Thallium	0.051	ug/L	0.40 ug/L	<0.051	<0.051	-	-	-	-
Zinc	0.83	ug/L	2.0 ug/L	<0.83	0.90 [1]	-	-	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

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Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162005-01	Y162005-02	Y162005-03	Y162005-04	Y162005-05	Y162005-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160513-0815-B ET	160513-0900-B ET	160513-0940-B ET	160513-1021-B ET	160513-1055-B ET	160513-1135-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.52 [1]	0.56 [1]	0.58 [1]	0.65 [1]	0.62 [1]	0.69 [1]
Arsenic	0.35 ug/L	2.0 ug/L	3.2	2.8	3.1	3.1	3.2	3.1
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.6 [1]	1.5 [1]	1.6 [1]	1.5 [1]	1.6 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.2	3.2	3.1	3.3	3.0	3.1
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	2.0	1.1 [1]	<0.83	<0.83	<0.83	<0.83

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LAB #			Y162005-07	Y162005-08	Y162005-09	Y162005-10	Y162005-11	Y162005-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160513-1216-B ET	160513-1256-B ET	160513-1335-B ET	160513-1431-B ET	160513-1506-B ET	160513-1545-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.71 [1]	0.70 [1]	0.76 [1]	0.74 [1]	0.70 [1]	0.80 [1]
Arsenic	0.35 ug/L	2.0 ug/L	3.2	3.3	3.6	3.5	3.3	3.2
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048 [2]	<0.048 [2]	<0.048 [2]	<0.048 [2]	<0.048 [2]
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.6 [1]	1.6 [1]	1.6 [1]	1.5 [1]	1.6 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.0	2.9	3.0	2.9	2.8	2.9
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	0.90 [1]	<0.83

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LAB #			Y162005-13	Y162005-14	-	-	-	-
MATRIX	Method	Reporting	Water	Water	-	-	-	-
SAMPLE ID	Detection Limit	Limit	160513-1619-B ET	160513-1654-B ET	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.82 [1]	0.77 [1]	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	3.3	3.0	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048 [2]	<0.048 [2]	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.6 [1]	1.5 [1]	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	3.0	2.6	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	-	-	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = Resuts may be biased low because of low continuing calibration verification (CCV).
3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

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LAB #			Y162006-01	Y162006-02	Y162006-03	Y162006-04	Y162006-05	Y162006-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160514-0731-B ET	160514-0813-B ET	160514-0840-B ET	160514-0920-B ET	160514-0955-B ET	160514-1032-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.77 [1]	0.71 [1]	0.74 [1]	0.76 [1]	0.79 [1]	0.82 [1]
Arsenic	0.35 ug/L	2.0 ug/L	3.3	3.3	3.1	2.9	2.7	2.6
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	0.042 [1]	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.5 [1]	1.5 [1]	1.5 [1]	1.5 [1]	1.4 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.0	3.0	3.0	3.1	3.1	2.9
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	6.9	1.1 [1]	1.0 [1]	0.92 [1]	<0.83	<0.83

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LAB #			Y162006-07	Y162006-08	Y162006-09	Y162006-10	Y162006-11	Y162006-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160514-1106-B ET	160514-1145-B ET	160514-1145-B ET	160514-1252-B ET	160514-1328-B ET	160514-1353-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.80 [1]	0.87 [1]	0.89 [1]	0.88 [1]	0.91 [1]	0.98 [1]
Arsenic	0.35 ug/L	2.0 ug/L	2.6	2.8	2.9	2.8	2.8	2.8
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	0.88 [1]	1.2 [1]	<0.56	0.97 [1]
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	0.23 [1]	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.5 [1]	1.6 [1]	1.5 [1]	1.5 [1]	1.6 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.8	2.9	3.0	2.9	3.0	2.8
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	0.96 [1]	<0.83	<0.83	<0.83	1.5 [1]	0.83 [1]

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LAB #			Y162006-13	Y162006-14	Y162006-15	-	-	-
MATRIX	Method	Reporting	Water	Water	Water	-	-	-
SAMPLE ID	Detection Limit	Limit	160514-1417-B ET	160514-1446-B ET	160514-1526-B ET	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.92 [1]	0.97 [1]	1.0 [1]	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.9	3.1	3.2	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	1.7 [1]	<0.56	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.6 [1]	1.6 [1]	1.6 [1]	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	2.7	2.9	3.0	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	0.84 [1]	-	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

From:	Scott Quinlan
Sent:	Monday, May 16, 2016 12:41 PM
To:	'Jerry K Miles (Generation - 34)'; 'michael.a.glagola@dom.com'; 'kenneth.roller@dom.com'; 'Jason E Williams (Services - 6)'; 'Doug Wight (Generation - 34)'; 'jeffrey.r.marcell@dom.com'; 'rwilliams@gloverconstruction.com'; 'Alan Eudy'; Stephen Smiddy (stephen.smiddy@proact-usa.com); Jeremy Goble (jeremy.goble@proact-usa.com)
Cc:	John Klamut; William Moore; Tim Lonas; John DeBarbieri; Jovonna Kirkling; Brian Bullock; Zachary Belcastro
Subject:	5/15/2016 Mobile Lab Process Monitoring Summary Report - Possum Pt
Attachments:	160515 Inline Process Summary.pdf

All:

Attached is the mobile lab summary report for the metals as measured from the inline process monitoring samples at the treatment system on May 15th thru the end of the day shift (7-pm). We are working with Pace to get the future reports completed for the entire calendar day before issuance. In the near term, we will update this report tomorrow.

Please contact me with any questions. Thanks.

Sincerely,

Scott C. Quinlan, P.E. – PA, FL, MN, NV
Director – Energy Water Resources Engineering and Planning

GAI Consultants
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Project Number: 150132.00

LAB #				Y162101-01	Y162101-02	Y162101-03	Y162101-04	Y162101-05	Y162101-06
MATRIX	Method		Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit		Limit	160515-0740-B ET	160515-0820-B ET	160515-0850-B ET	160515-0927-B ET	160515-1006-B ET	160515-1047-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)									
Antimony	0.19	ug/L	2.0 ug/L	0.79 [2]	0.87 [2]	0.94 [2]	0.91 [2]	0.95 [2]	1.0 [2]
Arsenic	0.35	ug/L	2.0 ug/L	4.0	3.2	3.3	3.0	3.0	3.0
Cadmium	0.040	ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86	ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56	ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21	ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048	ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26	ug/L	2.0 ug/L	1.5 [2]	1.6 [2]	1.7 [2]	1.6 [2]	1.6 [2]	1.6 [2]
Selenium	0.26	ug/L	2.0 ug/L	2.8	2.8	2.8	2.5	2.5	2.7
Silver	0.16	ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051	ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83	ug/L	2.0 ug/L	2.4	1.0 [2]	<0.83	<0.83	<0.83	<0.83

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LAB #			Y162101-07	Y162101-08	Y162101-09	Y162101-10	Y162101-11	Y162101-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160515-1121-B ET	160515-1155-B ET	160515-1240-B ET	160515-1314-B ET	160515-1349-B ET	160515-1424-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	0.95 [2]	1.0 [2]	0.98 [2]	1.0 [2]	1.1 [2]	1.1 [2]
Arsenic	0.35 ug/L	2.0 ug/L	3.3	3.0	3.2	2.8	2.9	2.9
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.6 [2]	1.7 [2]	1.9 [2]	1.6 [2]	1.6 [2]	1.7 [2]
Selenium	0.26 ug/L	2.0 ug/L	2.6	2.7	2.7	2.7	2.7	2.8
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	0.92 [1] [2]	<0.83	<0.83	<0.83	<0.83	<0.83

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LAB #				Y162101-13	Y162101-14	Y162101-15	Y162101-16	Y162101-17	Y162101-18
MATRIX	Method		Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit		Limit	160515-1501-B ET	160515-1540-B ET	160515-1624-B ET	160515-1655-B ET	160515-1726-B ET	160515-1807-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)									
Antimony	0.19	ug/L	2.0 ug/L	1.2 [2]	1.2 [2]	1.2 [2]	1.2 [2]	1.2 [2]	1.2 [2]
Arsenic	0.35	ug/L	2.0 ug/L	3.0	3.0	3.2	3.0	3.2	3.3
Cadmium	0.040	ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86	ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56	ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21	ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048	ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26	ug/L	2.0 ug/L	1.8 [2]	1.7 [2]	1.7 [2]	1.7 [2]	1.7 [2]	1.7 [2]
Selenium	0.26	ug/L	2.0 ug/L	2.8	2.7	2.7	2.6	2.8	2.9
Silver	0.16	ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051	ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83	ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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SUMMARY REPORT

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385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162101-19	-	-	-	-	-
MATRIX	Method	Reporting	Water	-	-	-	-	-
SAMPLE ID	Detection Limit	Limit	160515-1854-B ET	-	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.3 [2]	-	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	3.3	-	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	-	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	-	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	-	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	-	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	-	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.7 [2]	-	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	2.8	-	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	-	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	<0.051	-	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	-	-	-	-	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = Resuts may be biased low because of low continuing calibration verification (CCV).
4 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

From:	Scott Quinlan
Sent:	Tuesday, May 17, 2016 3:23 PM
To:	'Jerry K Miles (Generation - 34)'; Michael A Glagola (Generation - 34) (michael.a.glagola@dom.com); Kenneth Roller (Services - 6); 'Jason E Williams (Services - 6)'; 'Doug Wight (Generation - 34)'; Jeffrey R Marcell (Generation - 3); 'rwilliams@gloverconstruction.com'; 'Alan Eudy'; Stephen Smiddy (stephen.smiddy@proact-usa.com); Jeremy Goble (jeremy.goble@proact-usa.com); Mike Surface (Generation - 34)
Cc:	John Klamut; William Moore; Tim Lonas; John DeBarbieri; Jovonna Kirkling; Brian Bullock; Zachary Belcastro
Subject:	5/15/2016 (7-pm) thru 5/17/2016 (7-am) Mobile Lab Process Monitoring Summary Reports - Possum Pt
Attachments:	160516 Inline Process Summary Night.pdf; 160515 Inline Process Summary Night.pdf; 160516 Inline Process Summary Day.pdf

All:

Attached are the mobile lab Summary Reports for the metals as measured from the inline process monitoring samples at the treatment system on Sunday, May 15th from the start of the night shift (7-pm) through the end of the night shift (7-am) on May 17th. We are still working with Pace to get the report on a calendar day basis. Presently we are following the day / night shift schedules (7-am to 7-pm / 7-pm to 7-am).

Please note there was a delay between the 10:28am sample and the 12:21pm sample on 5/16 was due to the required daily calibration of the ICP-MS equipment. There was also a delay between the 7:21pm sample and the 9:30pm sample on 5/16 due to the argon tank needing to be changed out as it ran out. Pace will have to monitor the argon tanks more closely in the future.

During those times the water was recycled back to the head of the treatment system and not discharged to the temporary storage tanks.

Please contact me with any questions. Thanks.

Sincerely,

Scott C. Quinlan, P.E. – PA, FL, MN, NV
Director – Energy Water Resources Engineering and Planning

GAI Consultants
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SUMMARY REPORT

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
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GAI Consultants
385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

GAI NOTE:
Delay after 7:21pm sample was due argon tank running out unexpectedly for ICP-MS equipment that was corrected.

LAB #			Y162104-01	Y162104-02	Y162104-03	Y162104-04	Y162104-05	Y162104-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160516-1921-B ET	160516-2130-B ET	160516-2203-B ET	160516-2229-B ET	160516-2305-B ET	160516-2329-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.9 [2]	1.8 [2]	1.8 [2]	1.9 [2]	1.8 [2]	1.9 [2]
Arsenic	0.35 ug/L	2.0 ug/L	2.5	3.1	2.6	2.9	2.7	2.5
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.4 [2]	1.4 [2]	1.4 [2]	1.5 [2]	1.4 [2]	1.5 [2]
Selenium	0.26 ug/L	2.0 ug/L	2.9 [1]	3.2 [1]	3.1 [1]	3.1 [1]	3.2 [1]	3.2 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.11 [2]	0.076 [2]	0.081 [2]	0.096 [2]	0.092 [2]	0.072 [2]
Zinc	0.83 ug/L	2.0 ug/L	1.6 [2]	1.0 [2]	<0.83	<0.83	1.3 [2]	<0.83

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Project Number: 150132.00

LAB #			Y162104-07	Y162104-08	Y162104-09	Y162104-10	Y162104-11	Y162104-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160517-0001-B ET	160517-0030-B ET	160517-0106-B ET	160517-0135-B ET	160517-0206-B ET	160517-0238-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.9 [2]	1.9 [2]	1.9 [2]	1.8 [2]	1.9 [2]	1.9 [2]
Arsenic	0.35 ug/L	2.0 ug/L	2.6	2.9	2.5	2.5	2.4	2.4
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [2]	1.5 [2]	1.5 [2]	1.4 [2]	1.4 [2]	1.4 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.4 [1]	3.5 [1]	3.3 [1]	2.9 [1]	2.8 [1]	2.5 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.076 [2]	0.077 [2]	0.072 [2]	0.071 [2]	0.077 [2]	0.078 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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LAB #			Y162104-13	Y162104-14	Y162104-15	Y162104-16	Y162104-17	Y162104-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160517-0313-B ET	160517-0342-B ET	160517-0416-B ET	160517-0446-B ET	160517-0520-B ET	160517-0556-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.8 [2]	1.9 [2]	1.9 [2]	1.8 [2]	1.8 [2]	1.9 [2]
Arsenic	0.35 ug/L	2.0 ug/L	2.4	2.7	2.9	2.9	2.9	3.0
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.4 [2]	1.4 [2]	1.6 [2]	1.5 [2]	1.5 [2]	1.5 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.1 [1]	3.7 [1]	3.6 [1]	3.6 [1]	3.7 [1]	3.5 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.069 [2]	0.075 [2]	0.083 [2]	0.072 [2]	0.071 [2]	0.069 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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LAB #			Y162104-19	-	-	-	-	-
MATRIX	Method	Reporting	Water	-	-	-	-	-
SAMPLE ID	Detection Limit	Limit	160517-0635-B ET	-	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.8 [2]	-	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.9	-	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	-	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	-	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	-	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	-	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	-	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.4 [2]	-	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	3.7 [1]	-	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	-	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.065 [2]	-	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	-	-	-	-	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
4 = Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.

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LAB #			Y162102-01	Y162102-02	Y162102-03	Y162102-04	Y162102-05	Y162102-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160515-1925-B ET	160515-2005-B ET	160515-2039-B ET	160515-2101-B ET	160515-2136-B ET	160515-2203-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.3 [1]	1.3 [1]	1.3 [1]	1.3 [1]	1.3 [1]	1.2 [1]
Arsenic	0.35 ug/L	2.0 ug/L	3.0	3.1	3.0	3.0	2.9	2.8
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.7 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.8	2.8	2.7	2.7	2.4	2.0
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	0.061 [1]	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	<0.83	0.86 [1]	<0.83	<0.83	<0.83	2.1

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LAB #			Y162102-07	Y162102-08	Y162102-09	Y162102-10	Y162102-11	Y162102-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160515-2237-B ET	160515-2313-B ET	160515-2347-B ET	160516-0021-B ET	160516-0104-B ET	160516-0130-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.2 [1]	1.2 [1]	1.2 [1]	1.2 [1]	1.3 [1]	1.3 [1]
Arsenic	0.35 ug/L	2.0 ug/L	2.7	2.8	2.6	2.7	2.7	2.9
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.6 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.0	2.1	2.2	2.3	2.2	2.2
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	0.052 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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LAB #			Y162102-13	Y162102-14	Y162102-15	Y162102-16	Y162102-17	Y162102-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160516-0205-B ET	160516-0238-B ET	160516-0313-B ET	160516-0342-B ET	160516-0418-B ET	160516-0448-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.3 [1]	1.3 [1]	1.3 [1]	1.3 [1]	1.3 [1]	1.4 [1]
Arsenic	0.35 ug/L	2.0 ug/L	2.8	2.9	2.9	3.2	3.0	3.0
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.7 [1]	1.7 [1]	1.7 [1]	1.6 [1]	1.7 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.2	2.2	2.2	2.1	2.3	2.3
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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LAB #			Y162102-19	Y162102-20	Y162102-21	-	-	-
MATRIX	Method	Reporting	Water	Water	Water	-	-	-
SAMPLE ID	Detection Limit	Limit	160516-0527-B ET	160516-0559-B ET	160516-0635-B ET	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.4 [1]	1.3 [1]	1.3 [1]	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	3.0	2.9	2.9	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048 [2]	<0.048 [2]	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.7 [1]	1.7 [1]	1.7 [1]	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	2.4	2.2	2.3	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	<0.051	<0.051	<0.051	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	-	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = Resuts may be biased low because of low continuing calibration verification (CCV).
3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
4 = Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.

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GAI NOTE:
Delay after 10:28 sample was due to required daily calibration of the ICP-MS equipment.

LAB #				Y162103-01	Y162103-02	Y162103-03	Y162103-04	Y162103-05	Y162103-06
MATRIX	Method		Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit		Limit	160516-0714-B ET	160516-0756-B ET	160516-0831-B ET	160516-0917-B ET	160516-0946-B ET	160516-1028-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)									
Antimony	0.19	ug/L	2.0 ug/L	1.4 [2]	1.4 [2]	1.4 [2]	1.4 [2]	1.4 [2]	1.8 [2]
Arsenic	0.35	ug/L	2.0 ug/L	3.2	3.0	3.1	2.9	4.6	3.4
Cadmium	0.040	ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86	ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56	ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21	ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048	ug/L	0.20 ug/L	<0.048 [3]	<0.048 [3]	<0.048 [3]	<0.048 [3]	<0.048 [3]	<0.048
Nickel	0.26	ug/L	2.0 ug/L	1.7 [2]	1.7 [2]	1.7 [2]	1.6 [2]	1.7 [2]	1.1 [2]
Selenium	0.26	ug/L	2.0 ug/L	2.4	2.2	2.1	2.2	2.5	3.0
Silver	0.16	ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051	ug/L	0.40 ug/L	<0.051	0.051 [2]	0.051 [2]	<0.051	<0.051	0.095 [2]
Zinc	0.83	ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	1.3 [1] [2]

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162103-07	Y162103-08	Y162103-09	Y162103-10	Y162103-11	Y162103-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160516-1221-B ET	160516-1301-B ET	160516-1338-B ET	160516-1414-B ET	160516-1455-B ET	160516-1527-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.4 [2]	1.5 [2]	1.4 [2]	1.4 [2]	1.5 [2]	1.9 [2]
Arsenic	0.35 ug/L	2.0 ug/L	4.1	3.4	3.7	3.1	3.1	3.2
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.6 [2]	1.6 [2]	1.7 [2]	1.6 [2]	1.6 [2]	1.0 [2]
Selenium	0.26 ug/L	2.0 ug/L	2.4	2.4	2.5	2.4	2.4	3.3
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.060 [2]	0.051 [2]	0.052 [2]	<0.051	<0.051	0.059 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	0.87 [1] [2]	<0.83	<0.83	<0.83

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LAB #			Y162103-13	Y162103-14	Y162103-15	Y162103-16	Y162103-17	-
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	-
SAMPLE ID	Detection Limit	Limit	160516-1559-B ET	160516-1638-B ET	160516-1712-B ET	160516-1749-B ET	160516-1830-B ET	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.9 [1] [2]	1.6 [1] [2]	1.9 [1] [2]	2.9 [1]	2.3 [1]	-
Arsenic	0.35 ug/L	2.0 ug/L	3.4	3.0	3.1	<0.35	3.2	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	6.6 [1]	<0.86	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	2.0	<0.56	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	0.27 [1] [2]	<0.21	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	0.18 [1] [2]	<0.048	-
Nickel	0.26 ug/L	2.0 ug/L	1.0 [1] [2]	1.7 [1] [2]	0.90 [1] [2]	1.0 [1] [2]	1.1 [1] [2]	-
Selenium	0.26 ug/L	2.0 ug/L	3.1	2.4	2.3	1.0 [2]	2.5	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	-
Thallium	0.051 ug/L	0.40 ug/L	0.069 [1] [2]	0.056 [1] [2]	0.069 [1] [2]	0.12 [1] [2]	0.11 [1] [2]	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	0.97 [1] [2]	1.7 [1] [2]	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = Resuts may be biased low because of low continuing calibration verification (CCV).
4 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
5 = Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.

From:	Scott Quinlan
Sent:	Wednesday, May 18, 2016 5:01 PM
To:	Jerry.K.Miles@dom.com; michael.a.glagola@dom.com; kenneth.roller@dom.com; Jason.E.Williams@dom.com; doug.wight@dom.com; jeffrey.r.marcell@dom.com; mike.surface@dom.com; rwilliams@gloverconstruction.com; alan.eudy@gmail.com; stephen.smiddy@proact-usa.com; jeremy.goble@proact-usa.com
Cc:	John Klamut; William Moore; John DeBarbieri; Tim Lonas; Brian Bullock; Zachary Belcastro; Jovonna Kirkling
Subject:	FW: 5/17/2016 Day Shift Mobile Lab Process Monitoring Summary Reports - Possum Pt
Attachments:	160517-Summary Day.pdf; 160517-Summary Night.pdf

All:

Attached are the mobile lab Summary Reports for the metals as measured from the inline process monitoring samples at the treatment system from Tuesday, May 17th (7-am) through Wednesday, May 18th (7-am).

Please note there was a delay between the 7:48am sample and the 10:35am sample due to the required daily calibration of the ICP-MS equipment. Pace replaced a defective pump on the redundant ICP-MS system and are in the process of setup and calibration? Once setup, this should reduce downtime for calibration and system issues. We are actively pushing to make this happen.

Water was recycled when sample period exceeded one hour.

Please contact me with any questions. Thanks.

Sincerely,

Scott C. Quinlan, P.E. – PA, FL, MN, NV
Director – Energy Water Resources Engineering and Planning

GAI Consultants
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GAI NOTE:
Delay after 7:48am sample was due to required daily calibration of the ICP-MS equipment. During the delay over 1 hour water was recycled back to the head of the treatment system and not discharged to the temporary storage tanks.

LAB #			Y162105-01	Y162105-02	Y162105-03	Y162105-04	Y162105-05	Y162105-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160517-0705-B ET	160517-0748-B ET	160517-1035-B ET	160517-1110-B ET	160517-1147-B ET	160517-1224-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.9 [2]	1.8 [2]	1.8 [2]	1.8 [2]	1.9 [2]	1.9 [2]
Arsenic	0.35 ug/L	2.0 ug/L	3.1	3.1	4.3	2.9	2.7	2.6
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.4 [2]	1.6 [2]	1.6 [2]	1.6 [2]	1.6 [2]	1.6 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.7 [1]	3.6 [1]	2.9	3.0	3.1	3.1
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.066 [2]	0.062 [2]	0.083 [2]	0.093 [2]	0.083 [2]	0.080 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	1.1 [2]	<0.83	<0.83	<0.83

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LAB #			Y162105-07	Y162105-08	Y162105-09	Y162105-10	Y162105-11	Y162105-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160517-1258-B ET	160517-1335-B ET	160517-1420-B ET	160517-1447-B ET	160517-1521-B ET	160517-1558-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	1.9 [2]	1.9 [2]	1.9 [2]	2.0	2.0	1.9 [2]
Arsenic	0.35 ug/L	2.0 ug/L	2.7	2.6	2.6	2.6	2.7	2.7
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.6 [2]	1.6 [2]	1.6 [2]	1.6 [2]	1.6 [2]	1.6 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.0	3.0	3.0	3.0	3.0	3.0
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.084 [2]	0.087 [2]	0.083 [2]	0.088 [2]	0.088 [2]	0.084 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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LAB #			Y162105-13	Y162105-14	Y162105-15	Y162105-16	Y162105-17	-
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	-
SAMPLE ID	Detection Limit	Limit	160517-1633-B ET	160517-1712-B ET	160517-1744-B ET	160517-1822-B ET	160517-1857-B ET	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.0	2.0	2.0	2.0	2.0	-
Arsenic	0.35 ug/L	2.0 ug/L	2.7	2.6	3.0	2.7	2.9	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	-
Nickel	0.26 ug/L	2.0 ug/L	1.6 [2]	1.6 [2]	1.6 [2]	1.6 [2]	1.6 [2]	-
Selenium	0.26 ug/L	2.0 ug/L	3.0	3.1	3.1	3.1	3.1	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	-
Thallium	0.051 ug/L	0.40 ug/L	0.091 [2]	0.089 [2]	0.095 [2]	0.093 [2]	0.094 [2]	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	0.87 [2]	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

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LAB #			Y162106-01	Y162106-02	Y162106-03	Y162106-04	Y162106-05	Y162106-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160517-1930-B ET	160517-2003-B ET	160517-2044-B ET	160517-2108-B ET	160517-2138-B ET	160517-2210-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.0	2.1	2.1	2.1	2.1	2.0
Arsenic	0.35 ug/L	2.0 ug/L	2.6	2.8	3.0	3.0	2.9	3.1
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.6 [1]	1.7 [1]	1.7 [1]	1.8 [1]	1.7 [1]	1.7 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.0	3.2	3.0	3.0	3.0	2.8
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.091 [1]	0.097 [1]	0.10 [1]	0.099 [1]	0.097 [1]	0.090 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	1.1 [1]	<0.83	<0.83	<0.83	0.86 [1]

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MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160517-2235-B ET	160517-2324-B ET	160518-0002-B ET	160518-0026-B ET	160518-0102-B ET	160518-0131-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.1	2.1	2.1	2.1	2.1	2.2
Arsenic	0.35 ug/L	2.0 ug/L	3.0	3.4	2.8	2.8	2.6	2.8
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1]	1.8 [1]	1.8 [1]	1.7 [1]	1.7 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.0	2.9	3.0	3.2	3.1	3.1
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.087 [1]	0.089 [1]	0.093 [1]	0.097 [1]	0.091 [1]	0.10 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	1.0 [1]	<0.83	0.91 [1]	<0.83	<0.83

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LAB #			Y162106-13	Y162106-14	Y162106-15	Y162106-16	Y162106-17	Y162106-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160518-0210-B ET	160518-0238-B ET	160518-0308-B ET	160518-0344-B ET	160518-0419-B ET	160518-0447-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.1	2.1	2.2	2.1	2.1	2.2
Arsenic	0.35 ug/L	2.0 ug/L	2.6	3.1	2.6	3.0	2.4	2.8
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.7 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.6 [1]	1.7 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.9	2.9	3.0	3.2	3.0	3.2
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.10 [1]	0.094 [1]	0.10 [1]	0.096 [1]	0.10 [1]	0.10 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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SUMMARY REPORT

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162106-19	Y162106-20	Y162106-21	-	-	-
MATRIX	Method	Reporting	Water	Water	Water	-	-	-
SAMPLE ID	Detection Limit	Limit	160518-0523-B ET	160518-0603-B ET	160518-0640-B ET	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.2	2.2	2.2	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.5	2.8	2.8	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.7 [1]	1.8 [1]	1.8 [1]	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	3.2	3.1	3.1	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.098 [1]	0.099 [1]	0.11 [1]	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	-	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

From:	Scott Quinlan
Sent:	Thursday, May 19, 2016 7:55 PM
To:	Jerry.K.Miles@dom.com; michael.a.glagola@dom.com; kenneth.roller@dom.com; Jason.E.Williams@dom.com; doug.wight@dom.com; jeffrey.r.marcell@dom.com; mike.surface@dom.com; rwilliams@gloverconstruction.com; alan.eudy@gmail.com; stephen.smiddy@proact-usa.com; jeremy.goble@proact-usa.com
Cc:	John Klamut; William Moore; John DeBarbieri; Tim Lonas; Brian Bullock; Zachary Belcastro; Jovonna Kirkling
Subject:	5/18/2016 Day/Night Shift Mobile Lab Process Monitoring Summary Reports - Possum Pt
Attachments:	160518-Summary Day.pdf; 160518-Summary Night.pdf

All:

Attached is the mobile lab Summary Report for the metals as measured from the inline process monitoring samples at the treatment system on Wednesday, May 18th (7-am) through Thursday, May 19th (7-am).

Please note there was a delay between the 10:19am sample and the 12:07pm sample due to the required daily calibration of the ICP-MS equipment. The thallium "spikes" last night and the operational procedures followed to activate and inactivate the Enhanced Treatment (i.e., Cation Exchange) are noted.

Water was recycled or system was shut down when sample period exceeded one hour.

Let me know if you have any questions. Thanks.

Sincerely,

Scott C. Quinlan, P.E. – PA, FL, MN, NV
Director – Energy Water Resources Engineering and Planning

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Project: Possum Point Power Station
Project Number: 150132.00

GAI NOTE:
>1 hr delay after 10:19am sample was due to required daily calibration of the ICP-MS equipment. At 10:19am water was recycled back to the head of the treatment system until 11:00am when treatment system was shut down.

LAB #			Y162107-01	Y162107-02	Y162107-03	Y162107-04	Y162107-05	Y162107-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160518-0714-B ET	160518-0752-B ET	160518-0830-B ET	160518-0910-B ET	160518-0943-B ET	160518-1019-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.2	2.1	2.2	2.1	2.2	2.2
Arsenic	0.35 ug/L	2.0 ug/L	3.1	3.3	3.5	3.0	3.4	3.1
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.6 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.1	3.2	3.2	3.1	3.1	3.2
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.11 [1]	0.11 [1]	0.11 [1]	0.12 [1]	0.11 [1]	0.10 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	0.91 [1]	<0.83	<0.83	<0.83

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Project: Possum Point Power Station
Project Number: 150132.00

GAI NOTE:
12:00pm treatment system turned on and water was sent to the temporary storage tank at 12:07-pm.

LAB #			Y162107-07	Y162107-08	Y162107-09	Y162107-10	Y162107-11	Y162107-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160518-1207-B ET	160518-1250-B ET	160518-1322-B ET	160518-1355-B ET	160518-1435-B ET	160518-1515-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.3	2.2	2.2	2.2	2.3	2.3
Arsenic	0.35 ug/L	2.0 ug/L	4.7	3.4	3.1	3.0	3.0	2.8
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.7 [1]	1.6 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.7 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.0	2.8	2.8	2.7	2.9	2.8
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.13 [1]	0.093 [1]	0.095 [1]	0.095 [1]	0.10 [1]	0.11 [1]
Zinc	0.83 ug/L	2.0 ug/L	1.3 [1]	<0.83	<0.83	<0.83	<0.83	<0.83

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LAB #			Y162107-13	Y162107-14	Y162107-15	Y162107-16	Y162107-17	-
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	-
SAMPLE ID	Detection Limit	Limit	160518-1547-B ET	160518-1623-B ET	150518-1701-B ET	160518-1742-B ET	160518-1815-B ET	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.3	2.3	2.3	2.3	2.2	-
Arsenic	0.35 ug/L	2.0 ug/L	2.8	2.8	2.8	2.7	2.8	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	-
Nickel	0.26 ug/L	2.0 ug/L	1.7 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.7 [1]	-
Selenium	0.26 ug/L	2.0 ug/L	2.9	2.9	2.8	2.8	2.8	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	-
Thallium	0.051 ug/L	0.40 ug/L	0.11 [1]	0.10 [1]	0.10 [1]	0.10 [1]	0.11 [1]	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	0.83 [1]	7.3	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.

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GAI NOTE: Thallium "spike" noted for 6:53pm sample at end of filling temporary storage tank. Enhanced treatment (Cation Exchange) was activated upon receipt of result. However, water was already being recycled back to the head of the treatment system at 6:53pm since temporary storage tank was finished filling at that time. Recycle continued until 8:26pm which also coincided with Thallium "spike" on 7:49pm sample.

GAI NOTE: Treatment system was discharged to temporary storage tank at 8:26pm.

GAI NOTE: >1 hr delay after 9:08pm sample due to ICP-MS equipment re-calibration. Water was recycled back to the head of the treatment system from 9:08pm to 9:39pm.

GAI NOTE: Composite sample #1 taken after the Activated Alumina (one of three consecutive to verify Enhanced treatment (Cation Exchange) can be turned off.

LAB #			Y162108-01	Y162108-02	Y162108-03	Y162108-04	Y162108-05	Y162108-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	150518-1853-B ET	150518-1949-B ET	150518-2026-A ET	150518-2108-A ET	150518-2317-A ET	150518-COMP-01
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.4	2.4	2.2	2.3	2.4	2.4
Arsenic	0.35 ug/L	2.0 ug/L	3.3	2.9	3.0	2.6	2.9	2.6
Cadmium	0.040 ug/L	0.40 ug/L	0.20 [1]	0.19 [1]	0.051 [1]	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	0.67 [1]
Lead	0.21 ug/L	2.0 ug/L	0.40 [1]	0.39 [1]	<0.21	<0.21	<0.21	0.68 [1]
Mercury	0.048 ug/L	0.20 ug/L	0.16 [1]	0.14 [1]	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	2.0	1.9 [1]	1.6 [1]	1.5 [1]	1.6 [1]	1.7 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.2	3.2	2.8	2.9	3.0	2.9
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.58	0.48	0.17 [1]	0.12 [1]	0.10 [1]	0.14 [1]
Zinc	0.83 ug/L	2.0 ug/L	0.88 [1]	<0.83	<0.83	<0.83	<0.83	13

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GAI NOTE: Composite sample #2 taken after the Activated Alumina to verify Enhanced Treatment (Cation Exchange) can be turned off.

GAI NOTE: Composite sample #3 taken after the Activated Alumina to verify Enhanced treatment (Cation Exchange) can be turned off. Enhanced Treatment was turned off after results were conveyed to ProAct.

GAI NOTE: >1 hr delay between 11:51pm and 12:54am sample due to water being recycled to head of treatment system from 11:55pm to 12:54am. Water was not discharged to temporary storage tanks.

LAB #			Y162108-07	Y162108-08	Y162108-09	Y162108-10	Y162108-11	Y162108-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	150518-2336-A ET	150518-COMP-0 2	150518-2351-A ET	150518-COMP-0 3	150519-0054-B ET	150519-0130-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.3	2.3	2.3	2.3	2.3	2.2
Arsenic	0.35 ug/L	2.0 ug/L	2.6	2.7	2.5	2.4	2.4	2.4
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	0.72 [1]	<0.56	0.94 [1]	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	0.67 [1]	<0.21	0.75 [1]	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.6 [1]	1.7 [1]	1.6 [1]	1.7 [1]	1.6 [1]	1.6 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.9	3.0	2.8	2.8	2.7	2.7
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.10 [1]	0.13 [1]	0.12 [1]	0.15 [1]	0.14 [1]	0.13 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	23	<0.83	24	<0.83	<0.83

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LAB #			Y162108-13	Y162108-14	Y162108-15	Y162108-16	Y162108-17	Y162108-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	150519-0224-B ET	150519-0256-B ET	150519-0331-B ET	150519-0406-B ET	150519-0432-B ET	150519-0509-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.2	2.3	2.2	2.2	2.2	2.2
Arsenic	0.35 ug/L	2.0 ug/L	2.4	2.8	2.5	2.4	2.3	2.4
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	0.069 [1]	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	0.064 [1]	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.7 [1]	1.7 [1]	1.6 [1]	1.6 [1]	1.6 [1]	1.6 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.8	2.8	2.6	2.6	2.4	2.5
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.18 [1]	0.25 [1]	0.15 [1]	0.15 [1]	0.16 [1]	0.15 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162108-19	Y162108-20	-	-	-	-
MATRIX	Method	Reporting	Water	Water	-	-	-	-
SAMPLE ID	Detection Limit	Limit	150519-0548-B ET	150519-0626-B ET	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.2	2.1	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.5	2.4	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.6 [1]	1.6 [1]	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	2.6	2.6	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.15 [1]	0.14 [1]	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	-	-	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

From:	Scott Quinlan
Sent:	Sunday, May 22, 2016 8:45 AM
To:	Jerry.K.Miles@dom.com; michael.a.glagola@dom.com; kenneth.roller@dom.com; Jason.E.Williams@dom.com; doug.wight@dom.com; jeffrey.r.marcell@dom.com; mike.surface@dom.com; rwilliams@gloverconstruction.com; alan.eudy@gmail.com; stephen.smiddy@proact-usa.com; jeremy.goble@proact-usa.com
Cc:	John Klamut; John DeBarbieri; William Moore; Tim Lonas; Brian Bullock; Zachary Belcastro; Jovonna Kirkling
Subject:	5/20/2016 Day Shift Mobile Lab Process Monitoring Summary Reports - Possum Pt
Attachments:	160520-Summary Day.pdf

All:

Attached is the mobile lab Summary Report for the metals as measured from the inline process monitoring samples at the treatment system on Friday, May 20th (7-am to 7-pm).

Please note there was a >1-hr delay between the 10:29am and 12:35pm samples as well as the 6:42pm and next shift sample (9:26pm) due to the required daily calibration of the ICP-MS equipment.

Water was recycled or system was shut down when sample period exceeded one hour.

We will follow up with the Friday, May 20th night shift Summary Report as soon as we finalize a couple details with Glover/ProAct.

Please contact me with any questions. Thanks.

Sincerely,

Scott C. Quinlan, P.E. – PA, FL, MN, NV
Director – Energy Water Resources Engineering and Planning

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SUMMARY REPORT

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

GAI Consultants
385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

GAI NOTE:
>1 hr delay after 10:29am sample was due to calibration of the ICP-MS equipment. At 11:00am water was recycled back to the head of the treatment system until 12:30pm.

LAB #			Y162111-01	Y162111-02	Y162111-03	Y162111-04	Y162111-05	Y162111-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160520-0724-B ET	160520-0805-B ET	160520-0840-B ET	160520-0918-B ET	160520-0954-B ET	160520-1029-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.5 [3]	2.4 [3]	2.3 [3]	2.4 [3]	2.3 [3]	2.4 [3]
Arsenic	0.35 ug/L	2.0 ug/L	2.8	2.8	2.8	2.8	2.8	2.7
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	0.045 [2]	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86 [3]	<0.86 [3]	<0.86 [3]	<0.86 [3]	<0.86 [3]	<0.86 [3]
Copper	0.56 ug/L	2.0 ug/L	<0.56 [3]	<0.56 [3]	<0.56 [3]	<0.56 [3]	<0.56 [3]	<0.56 [3]
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.7 [2] [3]	1.7 [2] [3]	1.7 [2] [3]	1.7 [2] [3]	1.7 [2] [3]	1.7 [2] [3]
Selenium	0.26 ug/L	2.0 ug/L	3.0	2.8	2.9	3.1	3.2	3.1
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.14 [2]	0.12 [2]	0.13 [2]	0.13 [2]	0.12 [2]	0.12 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162111-07	Y162111-08	Y162111-09	Y162111-10	Y162111-11	Y162111-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160520-1235-B ET	160520-1310-B ET	160520-1349-B ET	160520-1423-B ET	160520-1505-B ET	160520-1544-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.7	2.8	2.8	2.8	2.9	2.8
Arsenic	0.35 ug/L	2.0 ug/L	3.5 [1]	2.7 [1]	2.6 [1]	2.5 [1]	2.5 [1]	2.3 [1]
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	1.0 [2]
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	0.11 [1] [2]	<0.048
Nickel	0.26 ug/L	2.0 ug/L	2.0	1.9 [2]	1.9 [2]	1.9 [2]	1.8 [2]	1.8 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.6 [1]	3.4 [1]	3.3 [1]	3.4 [1]	3.7 [1]	3.6 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.17 [2]	0.13 [2]	0.14 [2]	0.14 [2]	0.23 [2]	0.14 [2]
Zinc	0.83 ug/L	2.0 ug/L	1.9 [2]	1.3 [2]	<0.83	<0.83	0.98 [2]	<0.83

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Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

GAI NOTE:
>1 hr delay after 6:42pm sample was due to calibration of the ICP-MS equipment. At 6:57am treatment system was shut down. At 8:50pm treatment system was started up in recycle mode (back to head of treatment system) until the next sample was collected at 9:26pm.

LAB #			Y162111-13	Y162111-14	Y162111-15	Y162111-16	Y162111-17	-
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	-
SAMPLE ID	Detection Limit	Limit	160520-1623-B ET	160520-1701-B ET	160520-1736-B ET	160520-1813-B ET	160520-1842-B ET	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.8	2.8	2.9	2.9	2.9	-
Arsenic	0.35 ug/L	2.0 ug/L	2.3 [1]	2.3 [1]	2.2 [1]	2.4 [1]	2.2 [1]	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	-
Nickel	0.26 ug/L	2.0 ug/L	1.7 [2]	1.7 [2]	1.7 [2]	1.8 [2]	1.8 [2]	-
Selenium	0.26 ug/L	2.0 ug/L	3.5 [1]	3.6 [1]	3.5 [1]	3.6 [1]	3.4 [1]	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	-
Thallium	0.051 ug/L	0.40 ug/L	0.14 [2]	0.15 [2]	0.14 [2]	0.14 [2]	0.14 [2]	-
Zinc	0.83 ug/L	2.0 ug/L	0.87 [2]	0.92 [2]	<0.83	1.9 [2]	0.98 [2]	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = Resuts may be biased low because of low continuing calibration verification (CCV).
4 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

From:	Scott Quinlan
Sent:	Monday, May 23, 2016 2:47 PM
To:	Jerry.K.Miles@dom.com; michael.a.glagola@dom.com; kenneth.roller@dom.com; Jason.E.Williams@dom.com; doug.wight@dom.com; jeffrey.r.marcell@dom.com; mike.surface@dom.com; rwilliams@gloverconstruction.com; alan.eudy@gmail.com; stephen.smiddy@proact-usa.com; jeremy.goble@proact-usa.com
Cc:	John Klamut; John DeBarbieri; William Moore; Tim Lonas; Brian Bullock; Zachary Belcastro; Jovonna Kirkling
Subject:	5/20/2016 Night Shift Thru 5/21/2016 Day Shift Mobile Lab Process Monitoring Summary Reports - Possum Pt
Attachments:	160520-Summary Night.pdf; 160521-Summary Day.pdf; 160521-Summary Night.pdf
Importance:	High

All:

Attached are the mobile lab Summary Reports for the metals as measured from the inline process monitoring samples at the treatment system on Friday, May 20th (7-pm) to Sunday, May 22nd (7-am).

<u>For Friday, May 20, 2016 night shift</u>:

Please note there was a >1-hr delay between the 12:21am and 1:23am samples on Saturday, May 21, 2016 as a result of repairing the inline process monitoring sample tap. Additional long delays occurred between the 1:23am, 4:44am, and the next shift's samples due to argon gas supply replenishment and re-calibration of the ICP-MS equipment. Although a selenium concentration for the 1:23am sample was above the Enhanced Treatment threshold, the associated water was held in the temporary storage tank until after re-analyzing the sample with the re-calibrated ICP-MS equipment. The re-analyzed sample showed the selenium level to be acceptable. The held water was subsequently discharged to 503 and Enhanced Treatment (i.e., Cation Exchange) was not activated.

Water was recycled or system was shut down when sample period exceeded one hour.

<u>For Saturday, May 21, 2016 day shift</u>:

Cation Exchange Unit #2 resin / bed screen was repaired and the unit was flushed at various times throughout the day shift while the treatment system was in recycle mode. As such, Enhanced Treatment did not need to be de-activated based on composite samples after the Activated Alumina. A high copper spike was identified in a DRAFT Summary Report for the 1:21pm sample and was re-analyzed due to high %RDL. The re-analyzed sample did not show an elevated copper concentration and hence system continued to operate without need for Enhanced Treatment (i.e., Cation Exchange). A >1-hr delay between the 6:41pm sample and next shift's (8:54pm) sample was due to calibration of the ICP-MS equipment. During this time

the filling rate of temporary storage was reduced to capture metals at the start (6:41pm) and end (8:54pm) of filling.

For Saturday, May 21, 2016 night shift

There were no delays or unusual events.

Please contact me with any questions. Thanks.

Sincerely,

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385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

GAI NOTE:
>1 hr delay after 12:21am sample was due to break at the inline Process Monitoring sample tap. From 12:24am to 12:52am the treatment system was shut down to repair the tap.

LAB #			Y162112-01	Y162112-02	Y162112-03	Y162112-04	Y162112-05	Y162112-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160520-2126-B ET	160520-2153-B ET	160520-2233-B ET	160520-2322-B ET	160520-2355-B ET	160521-0021-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.7	2.6	2.4	2.4	2.3	2.3
Arsenic	0.35 ug/L	2.0 ug/L	3.2	3.0	2.5	2.4	2.3	2.5
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048 [1] [3]	<0.048 [1] [3]	<0.048 [1]	<0.048 [1]	<0.048 [1]	<0.048 [1]
Nickel	0.26 ug/L	2.0 ug/L	2.0	1.9 [2]	1.9 [2]	1.9 [2]	1.8 [2]	1.9 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.1	3.1	3.0	3.1	3.1	3.2
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.16 [2]	0.16 [2]	0.18 [2]	0.17 [2]	0.16 [2]	0.16 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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Project: Possum Point Power Station
Project Number: 150132.00

GAI NOTE:
>1 hr delay after 1:23am sample was due to argon gas supply replenishment and calibration of ICP-MS equipment. At 1:23am water was recycled back to the head of the treatment system until 5:05am. Enhanced Treatment (i.e., Cation Exchange) was recommended at approximately 4:41am per the DRAFT Summary Report which showed an apparent selenium level of 5.8-ug/L in the 1:23-am sample which exceeded column A threshold of Table 8 in the O&M Manual. However, the associated treated water was held with intent to recycle back to Pond D so that Enhanced Treatment did not need to be activated. Later after another calibration of the ICP-MS equipment for the day shift the selenium level for the 1:23am sample was re-analyzed to 2.8-ug/L (as reported below). Therefore, from 9:30am to 10:50am the treated water that was being filled in the temporary storage tank was discharged to 503 in lieu of recycling back to Pond D.

LAB #								
MATRIX	Method	Reporting	Water	Water	-	-	-	-
SAMPLE ID	Detection Limit	Limit	160521-0123-B ET	160521-0444-B ET	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.6	2.5	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.4	2.2	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	0.041 [2]	<0.040	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048 [1]	<0.048 [1]	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.9 [2]	1.9 [2]	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	2.8	3.0	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.23 [2]	0.20 [2]	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	-	-	-	-

Special Notes

1 = Estimated value because of quality control sample exceedances.
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = Resuts may be biased low because of low continuing calibration verification (CCV).
4 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

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Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

GAI NOTE:
Cation Exchange Unit #2 resin bed / screen was repaired and unit was flushed in recycle mode (treated water was sent back to head of treatment system) from 10:10am to 10:50am, 11:30am to 12:08pm, 12:46pm to 13:21pm, and 14:10 to 14:48pm. As such, Enhanced Treatment was not de-activated based on composite samples after the Activated Alumina.

LAB #			Y162113-01	Y162113-02	Y162113-03	Y162113-04	Y162113-05	Y162113-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160521-0854-B ET	160521-0930-B ET	160521-1010-B ET	160521-1050-B ET	160521-1130-B ET	160521-1208-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.5	2.2	2.1	2.3	2.3	2.2
Arsenic	0.35 ug/L	2.0 ug/L	3.0	2.3	2.3	2.4	2.5	2.5
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [2]	1.8 [2]	1.8 [2]	1.8 [2]	1.9 [2]	1.8 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.1	2.9	3.2	3.1	3.2	3.6
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.21 [2]	0.18 [2]	0.14 [2]	0.17 [2]	0.16 [2]	0.15 [2]
Zinc	0.83 ug/L	2.0 ug/L	1.5 [2]	<0.83	<0.83	<0.83	<0.83	<0.83

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Project: Possum Point Power Station
Project Number: 150132.00

GAI NOTE:
1:21pm sample was re-analyzed following initial draft Summary Report which showed a copper spike of 8.3-ug/L due to high %RDL. Re-analyzed sample result below was within the %RDL requirements.

LAB #			Y162113-07	Y162113-08	Y162113-09	Y162113-10	Y162113-11	Y162113-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160521-1246-B ET	160521-1321-B ET	160521-1410-B ET	160521-1448-B ET	160521-1538-B ET	160521-1617-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.4	2.2	2.4	2.2	2.4	2.3
Arsenic	0.35 ug/L	2.0 ug/L	2.7	2.6	2.7	2.6	2.6	2.5
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [2]	1.9 [2]	1.9 [2]	1.9 [2]	1.9 [2]	2.0
Selenium	0.26 ug/L	2.0 ug/L	3.8	3.6 [1]	4.0 [1]	3.7 [1]	3.9 [1]	3.8 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.15 [2]	0.15 [2]	0.14 [2]	0.15 [2]	0.15 [2]	0.16 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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Project Number: 150132.00

GAI NOTE:
>1 hr delay between 6:41pm sample and the next shift sample at 8:54pm was due to calibration of the ICP-MS equipment. Filling rate of Temporary Storage Tank "ET-2" was reduced over a period from 6:41pm to 8:54pm to capture metals levels at start and end of filling.

LAB #			Y162113-13	Y162113-14	Y162113-15	Y162113-16	-	-
MATRIX	Method	Reporting	Water	Water	Water	Water	-	-
SAMPLE ID	Detection Limit	Limit	160521-1654-B ET	160521-1728-B ET	160521-1803-B ET	160521-1841-B ET	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.3	2.2	2.1	2.2	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.5	2.4	2.3	2.4	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.7 [2]	1.8 [2]	1.8 [2]	1.8 [2]	-	-
Selenium	0.26 ug/L	2.0 ug/L	3.6 [1]	3.5 [1]	3.6 [1]	3.7 [1]	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.17 [2]	0.15 [2]	0.16 [2]	0.15 [2]	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	-	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
4 = Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.

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SUMMARY REPORT

2525 Advance Road
Madison, WI 53718
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GAI Consultants
385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162114-01	Y162114-02	Y162114-03	Y162114-04	Y162114-05	Y162114-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160521-2054-B ET	160521-2133-B ET	160521-2217-B ET	160521-2257-B ET	160521-2338-B ET	160522-0014-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.3	2.4	2.5	2.0	2.3	2.3
Arsenic	0.35 ug/L	2.0 ug/L	2.7	2.8	2.9	2.6	2.8	2.7
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.7 [1]	1.8 [1]	1.8 [1]	1.1 [1]	1.7 [1]	1.7 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.1	3.3	3.3	2.9	3.2	3.2
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.14 [1]	0.13 [1]	0.12 [1]	<0.051	0.12 [1]	0.12 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	7.5	2.0	<0.83	<0.83	<0.83

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Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162114-07	Y162114-08	Y162114-09	Y162114-10	Y162114-11	Y162114-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160522-0044-B ET	160522-0106-B ET	160522-0137-B ET	160522-0203-B ET	160522-0232-B ET	160522-0308-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.4	2.3	2.4	2.3	2.3	2.4
Arsenic	0.35 ug/L	2.0 ug/L	2.9	2.7	2.7	2.9	3.0	3.1
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1]	1.8 [1]	1.8 [1]	1.8 [1]	1.8 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.1	3.0	3.3	3.2	3.3	3.4
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.14 [1]	0.14 [1]	0.13 [1]	0.12 [1]	0.12 [1]	0.12 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162114-13	Y162114-14	Y162114-15	Y162114-16	Y162114-17	Y162114-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160522-0347-B ET	160522-0418-B ET	160522-0446-B ET	160522-0532-B ET	160522-0607-B ET	160522-0645-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.4	2.4	2.3	2.5	2.4	2.3
Arsenic	0.35 ug/L	2.0 ug/L	3.0	3.0	2.9	2.9	3.1	2.9
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1]	1.9 [1]	1.8 [1]	1.9 [1]	1.8 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.3	3.1	3.0	3.1	3.1	3.1
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.11 [1]	0.13 [1]	0.14 [1]	0.13 [1]	0.12 [1]	0.13 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

From:	Scott Quinlan
Sent:	Wednesday, May 25, 2016 2:37 PM
To:	Jerry.K.Miles@dom.com; michael.a.glagola@dom.com; kenneth.roller@dom.com; Jason.E.Williams@dom.com; doug.wight@dom.com; jeffrey.r.marcell@dom.com; mike.surface@dom.com; rwilliams@gloverconstruction.com; alan.eudy@gmail.com; stephen.smiddy@proact-usa.com; jeremy.goble@proact-usa.com
Cc:	John Klamut; John DeBarbieri; William Moore; Tim Lonas; Brian Bullock; Zachary Belcastro; Jovonna Kirkling
Subject:	5/22/2016 Day Shift thru 5/23/2016 Night Shift Mobile Lab Process Monitoring Summary Reports - Possum Pt
Attachments:	160522-Summary Day.pdf; 160522-Summary Night.pdf; 160523-Summary Day.pdf; 160523-Summary Night.pdf

All:

Attached are the mobile lab Summary Reports for the metals as measured from the inline process monitoring samples at the treatment system from Sunday, May 22nd (7-am) to Tuesday, May 24th (7-am).

For Sunday, May 22, 2016 day shift:
Please note there was a >1-hr delay between the 6:47pm and next shift (8:57pm) samples due to calibration of the ICP-MS equipment.

For Sunday, May 22, 2016 night shift:
Please note there was a >1-hr delay between the 6:40am and next shift (9:35am) samples due to calibration of the ICP-MS equipment.

For Monday, May 23, 2016 day shift:
Please note there was a >1-hr delay between the 2:36pm and 5:55pm samples due to a thunderstorm event.

For Monday, May 23, 2016 night shift:
Please note there was a >1-hr delay between the 6:29am and next shift (8:29am) samples due to calibration of the ICP-MS equipment.

Water was recycled or system was shut down when sample period exceeded one hour. The delay in issuing the Summary Reports was a result of tracking down this information for the Sunday calibration from 6:47pm to 8:57pm.

Please contact me with any questions. Thanks.

Sincerely,

Scott C. Quinlan, P.E. – PA, FL, MN, NV
Director – Energy Water Resources Engineering and Planning

GAI Consultants
600 Cranberry Woods Drive, Suite 400, Cranberry Township, PA 16066

D 412.399.5385 | **M** 412.584.4508 | **F** 724.770.2011 |

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SUMMARY REPORT

2525 Advance Road
Madison, WI 53718
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GAI Consultants
385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162201-01	Y162201-02	Y162201-03	Y162201-04	Y162201-05	Y162201-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160522-0738-B ET	160522-0815-B ET	160522-0846-B ET	160522-0918-B ET	160522-0955-B ET	160522-1030-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.3	2.3	2.4	2.2	2.3	2.5
Arsenic	0.35 ug/L	2.0 ug/L	3.7	3.4	3.4	2.9	3.1	3.0
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [2]	1.8 [2]	1.8 [2]	1.2 [2]	1.9 [2]	1.9 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.2 [1]	3.4 [1]	3.6 [1]	3.2 [1]	3.6 [1]	3.5 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.11 [2]	0.13 [2]	0.12 [2]	<0.051	0.13 [2]	0.12 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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LAB #			Y162201-07	Y162201-08	Y162201-09	Y162201-10	Y162201-11	Y162201-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160522-1105-B ET	160522-1138-B ET	160522-1215-B ET	160522-1250-B ET	160522-1325-B ET	160522-1400-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.4	2.3	2.3	2.3	2.3	2.3
Arsenic	0.35 ug/L	2.0 ug/L	3.1	3.0	3.0	3.0	3.5	3.0
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [2]	1.8 [2]	1.8 [2]	1.8 [2]	1.8 [2]	1.9 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.5 [1]	3.6 [1]	3.4 [1]	3.4 [1]	3.3 [1]	3.5 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.12 [2]	0.12 [2]	0.13 [2]	0.13 [2]	0.13 [2]	0.13 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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Project Number: 150132.00

LAB #			Y162201-13	Y162201-14	Y162201-15	Y162201-16	Y162201-17	Y162201-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160522-1445-B ET	160522-1521-B ET	160522-1558-B ET	160522-1632-B ET	160522-1710-B ET	160522-1742-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.3	2.4	2.4	2.3	2.2	2.4
Arsenic	0.35 ug/L	2.0 ug/L	3.0	3.3	3.2	3.1	3.0	3.3
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [2]	1.9 [2]	1.9 [2]	1.8 [2]	1.8 [2]	1.9 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.4	3.5	3.4	3.3	3.3	3.6
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.14 [2]	0.14 [2]	0.13 [2]	0.13 [2]	0.12 [2]	0.12 [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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GAI NOTE:
>1 hr delay between 6:47pm sample and the next shift sample (8:57pm) was due to calibration of the ICP-MS equipment. At 6:47pm water was recycled back to the head of the treatment system until 8:57pm.

LAB #			Y162201-19	Y162201-20	-	-	-	-
MATRIX	Method	Reporting	Water	Water	-	-	-	-
SAMPLE ID	Detection Limit	Limit	160522-1815-B ET	160522-1847-B ET	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.3	2.2	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	3.6	3.1	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.9 [2]	1.9 [2]	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	3.4	3.4	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.13 [2]	0.13 [2]	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	3.9	<0.83	-	-	-	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

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LAB #			Y162202-01	Y162202-02	Y162202-03	Y162202-04	Y162202-05	Y162202-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160522-2057-B ET	160522-2136-B ET	160522-2159-B ET	160522-2224-B ET	160522-2251-B ET	160522-2318-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.0 [1]	2.3 [1]	2.5 [1]	2.4 [1]	3.0 [1]	3.1 [1]
Arsenic	0.35 ug/L	2.0 ug/L	4.1 [1]	3.3 [1]	3.5 [1]	3.3 [1]	4.0 [1]	3.8 [1]
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	2.3 [1]	1.8 [1] [2]	1.9 [1] [2]	1.9 [1] [2]	2.3 [1]	2.3 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.8 [1]	3.3 [1]	3.5 [1]	3.6 [1]	3.9 [1]	3.9 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.20 [1] [2]	0.15 [1] [2]	0.15 [1] [2]	0.15 [1] [2]	0.21 [1] [2]	0.22 [1] [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162202-07	Y162202-08	Y162202-09	Y162202-10	Y162202-11	Y162202-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160522-2350-B ET	160523-0024-B ET	160523-0052-B ET	160523-0124-B ET	160523-0151-B ET	160523-0220-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.4 [1]	2.3 [1]	2.2 [1]	3.0 [1]	2.3 [1]	2.3 [1]
Arsenic	0.35 ug/L	2.0 ug/L	3.6 [1]	3.1 [1]	3.4 [1]	3.5 [1]	3.2 [1]	3.2 [1]
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1] [2]	1.9 [1] [2]	1.8 [1] [2]	2.2 [1]	1.9 [1] [2]	1.8 [1] [2]
Selenium	0.26 ug/L	2.0 ug/L	3.4 [1]	3.4 [1]	3.5 [1]	3.9 [1]	3.4 [1]	3.5 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.15 [1] [2]	0.15 [1] [2]	0.16 [1] [2]	0.21 [1] [2]	0.15 [1] [2]	0.14 [1] [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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LAB #			Y162202-13	Y162202-14	Y162202-15	Y162202-16	Y162202-17	Y162202-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160523-0250-B ET	160523-0322-B ET	160523-0353-B ET	160523-0422-B ET	160523-0455-B ET	160523-0532-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.1 [1]	2.2	2.3	2.2	2.3	2.2
Arsenic	0.35 ug/L	2.0 ug/L	3.9 [1]	3.1 [1]	3.3 [1]	3.1 [1]	3.4 [1]	3.3 [1]
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	2.2 [1]	1.8 [1] [2]	1.9 [1] [2]	1.8 [1] [2]	1.9 [1] [2]	1.8 [1] [2]
Selenium	0.26 ug/L	2.0 ug/L	4.1 [1]	3.4 [1]	3.6 [1]	3.4 [1]	3.5 [1]	3.4 [1]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.21 [1] [2]	0.16 [1] [2]	0.16 [1] [2]	0.15 [1] [2]	0.15 [1] [2]	0.16 [1] [2]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

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GAI NOTE:
>1 hr delay between 6:40am sample and the next shift sample (9:39am) was due to calibration of the ICP-MS equipment. At 6:40am water was recycled back to the head of the treatment system until 6:55am. From 6:55am to 9:30am the treatment system was shut down.

LAB #			Y162202-19	Y162202-20	-	-	-	-
MATRIX	Method	Reporting	Water	Water	-	-	-	-
SAMPLE ID	Detection Limit	Limit	160523-0605-B ET	160523-0640-B ET	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.2	2.9	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	3.7 [1]	4.1	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1] [2]	2.1	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	3.5 [1]	3.8 [1]	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.16 [1] [2]	0.22 [1] [2]	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	-	-	-	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.

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LAB #			Y162203-01	Y162203-02	Y162203-03	Y162203-04	Y162203-05	Y162203-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160523-0939-B ET	160523-1016-B ET	160523-1049-B ET	160523-1124-B ET	160523-1204-B ET	160523-1240-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.5	2.4	2.4	2.5	2.4	2.5
Arsenic	0.35 ug/L	2.0 ug/L	8.5	3.4	3.4	3.2	3.0	3.0
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1]	1.5 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.4	3.0	3.1	3.1	3.0	3.2
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.19 [1]	0.097 [1]	0.18 [1]	0.18 [1]	0.17 [1]	0.21 [1]
Zinc	0.83 ug/L	2.0 ug/L	1.6 [1]	<0.83	<0.83	<0.83	<0.83	8.6

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GAI NOTE:
>1 hr delay between 2:36pm and 5:55pm samples was due thunderstorm which required the treatment system to be shut down from 2:50pm to 5:39pm.

LAB #			Y162203-07	Y162203-08	Y162203-09	Y162203-10	Y162203-11	Y162203-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160523-1315-B ET	160523-1350-B ET	160523-1436-B ET	160523-1755-B ET	160523-1830-B ET	160523-1905-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.7	2.7	2.6	2.6	2.5	2.6
Arsenic	0.35 ug/L	2.0 ug/L	3.1	3.2	4.3	3.7	3.0	2.9
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1]	1.8 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.7 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.2	3.2	3.1	3.4	3.2	3.2
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.19 [1]	0.19 [1]	0.19 [1]	0.20 [1]	0.19 [1]	0.19 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	1.3 [1]	1.3 [1]	1.2 [1]	<0.83

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

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LAB #			Y162204-01	Y162204-02	Y162204-03	Y162204-04	Y162204-05	Y162204-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160523-1935-B ET	160523-2012-B ET	160523-2041-B ET	160523-2106-B ET	160523-2133-B ET	160523-2203-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.6	2.5	2.4	2.4	2.5	2.5
Arsenic	0.35 ug/L	2.0 ug/L	2.8	2.6	2.7	2.4	2.7	2.7
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.7 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.2	3.0	3.1	3.0	3.1	3.1
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.20 [1]	0.19 [1]	0.19 [1]	0.19 [1]	0.20 [1]	0.20 [1]
Zinc	0.83 ug/L	2.0 ug/L	0.93 [1]	<0.83	<0.83	<0.83	1.5 [1]	<0.83

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LAB #			Y162204-07	Y162204-08	Y162204-09	Y162204-10	Y162204-11	Y162204-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160523-2233-B ET	160523-2302-B ET	160523-2330-B ET	160524-0000-B ET	160524-0036-B ET	160524-0109-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.5	2.5	2.5	2.6	2.5	2.5
Arsenic	0.35 ug/L	2.0 ug/L	2.7	2.4	2.7	2.7	2.8	2.7
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.7 [1]	1.7 [1]	1.7 [1]	1.8 [1]	1.7 [1]	1.7 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.1	3.2	3.1	3.4	3.1	3.2
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.19 [1]	0.19 [1]	0.19 [1]	0.18 [1]	0.19 [1]	0.19 [1]
Zinc	0.83 ug/L	2.0 ug/L	1.3 [1]	<0.83	<0.83	<0.83	1.4 [1]	<0.83

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LAB #			Y162204-13	Y162204-14	Y162204-15	Y162204-16	Y162204-17	Y162204-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160524-0138-B ET	160524-0209-B ET	160524-0242-B ET	160524-0312-B ET	160524-0340-B ET	160524-0412-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.5	2.6	2.4	2.6	2.4	2.6
Arsenic	0.35 ug/L	2.0 ug/L	3.1	2.8	2.9	2.9	2.9	3.0
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1]	1.8 [1]	1.7 [1]	1.8 [1]	1.7 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.2	3.1	3.1	3.1	3.1	3.2
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.20 [1]	0.19 [1]	0.18 [1]	0.19 [1]	0.18 [1]	0.18 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	1.1 [1]	<0.83	0.97 [1]	<0.83

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GAI NOTE:
>1 hr delay between 6:29am sample and the next shift sample (8:29am) was due to calibration of the ICP-MS equipment. From 6:30am to 8:15am the treatment system was shut down.

LAB #			Y162204-19	Y162204-20	Y162204-21	Y162204-22	-	-
MATRIX	Method	Reporting	Water	Water	Water	Water	-	-
SAMPLE ID	Detection Limit	Limit	160524-0438-B ET	160524-0516-B ET	160524-0555-B ET	160524-0629-B ET	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.6	2.4	2.4	2.5	-	-
Arsenic	0.35 ug/L	2.0 ug/L	3.2	3.2	3.5	3.6	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1]	1.7 [1]	1.7 [1]	1.8 [1]	-	-
Selenium	0.26 ug/L	2.0 ug/L	3.1	3.1	3.1	3.2	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.19 [1]	0.19 [1]	0.19 [1]	0.19 [1]	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

From:	Scott Quinlan
Sent:	Wednesday, May 25, 2016 3:29 PM
To:	Jerry.K.Miles@dom.com; michael.a.glagola@dom.com; kenneth.roller@dom.com; Jason.E.Williams@dom.com; doug.wight@dom.com; jeffrey.r.marcell@dom.com; mike.surface@dom.com; rwilliams@gloverconstruction.com; alan.eudy@gmail.com; stephen.smiddy@proact-usa.com; jeremy.goble@proact-usa.com
Cc:	John Klamut; John DeBarbieri; William Moore; Tim Lonas; Brian Bullock; Zachary Belcastro; Jovonna Kirkling
Subject:	5/24/2016 Day/Night Shifts Mobile Lab Process Monitoring Summary Reports - Possum Pt
Attachments:	160524-Summary Night.pdf; 160524-Summary Day.pdf

All:

Attached are the mobile lab Summary Reports for the metals as measured from the inline process monitoring samples at the treatment system for the Tuesday, May 24th day and night shifts.

Please note there was a >1-hr delay between the 6:31am and 9:08am samples due to calibration of the ICP-MS equipment. During this time the filling rate of Temporary Storage Tank "ET-1" was reduced over a period from 5:51am to 9:08am to capture metals levels at start, partway, and end of filling.

Please contact me with any questions. Thanks.

Sincerely,

Scott C. Quinlan, P.E. – PA, FL, MN, NV
Director – Energy Water Resources Engineering and Planning

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Pace Analytical®
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SUMMARY REPORT

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

GAI Consultants
385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162206-01	Y162206-02	Y162206-03	Y162206-04	Y162206-05	Y162206-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160524-1905-B ET	160524-1939-B ET	160524-2014-B ET	160524-2041-B ET	160524-2112-B ET	160524-2142-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.2	3.1	3.3	3.3	3.2	3.2
Arsenic	0.35 ug/L	2.0 ug/L	2.5	2.6	2.6	2.9	2.7	2.7
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	0.65 [2]	0.57 [2]	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [2]	1.9 [2]	1.9 [2]	1.9 [2]	1.9 [2]	1.9 [2]
Selenium	0.26 ug/L	2.0 ug/L	1.1 [2] [3]	1.5 [2] [3]	1.9 [2] [3]	2.4 [3]	2.8 [3]	3.4 [3]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.28 [2]	0.26 [2]	0.26 [2]	0.26 [2]	0.25 [2]	0.24 [2]
Zinc	0.83 ug/L	2.0 ug/L	0.84 [2]	1.1 [2]	0.90 [2]	1.8 [2]	1.2 [2]	1.8 [2]

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LAB #			Y162206-07	Y162206-08	Y162206-09	Y162206-10	Y162206-11	Y162206-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160524-2211-B ET	160524-2244-B ET	160524-2317-B ET	160524-2348-B ET	160525-0019-B ET	160525-0049-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.1	3.2	3.2	3.2	3.2	3.2
Arsenic	0.35 ug/L	2.0 ug/L	2.8	3.1	2.7	2.9	2.8	2.9
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	0.80 [2]	<0.56	0.71 [2]	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.8 [2]	1.9 [2]	1.9 [2]	1.9 [2]	1.9 [2]	1.9 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.9 [3]	4.0 [3]	3.9 [3]	3.8 [3]	3.8 [3]	3.9 [3]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.24 [2]	0.23 [2]	0.25 [2]	0.23 [2]	0.24 [2]	0.22 [2]
Zinc	0.83 ug/L	2.0 ug/L	0.88 [2]	0.87 [2]	0.85 [2]	0.92 [2]	0.97 [2]	0.85 [2]

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162206-13	Y162206-14	Y162206-15	Y162206-16	Y162206-17	Y162206-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160525-0125-B ET	160525-0159-B ET	160525-0223-B ET	160525-0314-B ET	160525-0353-B ET	160525-0418-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.1	3.2	3.0	3.0	3.0	2.9
Arsenic	0.35 ug/L	2.0 ug/L	3.0	3.1	2.7	2.9	2.8	2.9
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	0.76 [2]	<0.56	0.69 [2]	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [2]	2.0	1.8 [2]	1.8 [2]	1.8 [2]	1.8 [2]
Selenium	0.26 ug/L	2.0 ug/L	3.9	4.0	3.7	3.8	3.9	3.7
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.24 [2]	0.24 [2]	0.24 [2]	0.23 [2]	0.22 [2]	0.22 [2]
Zinc	0.83 ug/L	2.0 ug/L	0.98 [2]	1.9 [2]	<0.83	1.1 [2]	0.84 [2]	1.5 [2]

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GAI NOTE:
>1 hr delay between 6:31am sample and the next shift sample at 9:08am was due to calibration of the ICP-MS equipment. Filling rate of Temporary Storage Tank "ET-1" was reduced over a period from 5:51am to 9:08am to capture metals levels at start and end of filling.

LAB #			Y162206-19	Y162206-20	Y162206-21	Y162206-22	-	-
MATRIX	Method	Reporting	Water	Water	Water	Water	-	-
SAMPLE ID	Detection Limit	Limit	160525-0445-B ET	160525-0520-B ET	160525-0551-B ET	160525-0631-B ET	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.9	2.9	3.2	3.1	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.8	3.1	3.1	3.2	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86 [1]	<0.86 [1]	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.8 [2]	1.8 [2]	1.9 [2]	1.9 [2]	-	-
Selenium	0.26 ug/L	2.0 ug/L	3.6	3.7	4.0	4.0	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.23 [2]	0.23 [2]	0.23 [2]	0.24 [2]	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	<0.83	<0.83	<0.83	-	-

Special Notes

1 = Estimated value because of quality control sample exceedances.
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = Resuts may be biased low because of low continuing calibration verification (CCV).

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162205-01	Y162205-02	Y162205-03	Y162205-04	Y162205-05	Y162205-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160524-0829-B ET	160524-0858-B ET	160524-0941-B ET	160524-1013-B ET	160524-1043-B ET	160524-1120-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.9	2.8	2.8	2.9	2.8	2.9
Arsenic	0.35 ug/L	2.0 ug/L	7.5	4.3	3.9	3.9	3.7	3.6
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [1]	1.8 [1]	1.8 [1]	2.0	1.9 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.7	3.4	3.6	3.8	3.7	3.6
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.25 [1]	0.23 [1]	0.22 [1]	0.23 [1]	0.24 [1]	0.24 [1]
Zinc	0.83 ug/L	2.0 ug/L	1.0 [1]	<0.83	<0.83	0.83 [1]	<0.83	0.90 [1]

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LAB #			Y162205-07	Y162205-08	Y162205-09	Y162205-10	Y162205-11	Y162205-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160524-1155-B ET	160524-1228-B ET	160524-1302-B ET	160524-1332-B ET	160524-1416-B ET	160524-1450-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.9	3.0	3.2	3.1	3.2	3.3
Arsenic	0.35 ug/L	2.0 ug/L	3.7	3.3	3.8	3.7	3.5	3.4
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [1]	1.8 [1]	1.9 [1]	1.9 [1]	2.0	2.0
Selenium	0.26 ug/L	2.0 ug/L	3.8	3.7	4.1	4.0	3.9	3.9
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.22 [1]	0.24 [1]	0.23 [1]	0.24 [1]	0.23 [1]	0.25 [1]
Zinc	0.83 ug/L	2.0 ug/L	0.90 [1]	<0.83	0.89 [1]	<0.83	0.89 [1]	<0.83

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LAB #				Y162205-13	Y162205-14	Y162205-15	Y162205-16	Y162205-17	Y162205-18
MATRIX	Method	Reporting		Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit		160524-1522-B ET	160524-1556-B ET	160524-1631-B ET	160524-1702-B ET	160524-1734-B ET	160524-1804-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)									
Antimony	0.19	ug/L	2.0 ug/L	3.3	3.5	3.3	3.4	3.4	3.4
Arsenic	0.35	ug/L	2.0 ug/L	3.6	3.2	3.2	3.0	3.0	2.8
Cadmium	0.040	ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86	ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56	ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21	ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048	ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26	ug/L	2.0 ug/L	2.0	2.0	2.0	2.0	2.0	2.0
Selenium	0.26	ug/L	2.0 ug/L	4.0	3.4	2.5	2.5	2.0	1.7 [1]
Silver	0.16	ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051	ug/L	0.40 ug/L	0.26 [1]	0.27 [1]	0.27 [1]	0.26 [1]	0.28 [1]	0.28 [1]
Zinc	0.83	ug/L	2.0 ug/L	0.88 [1]	0.96 [1]	0.92 [1]	<0.83	<0.83	<0.83

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Project Number: 150132.00

LAB #			Y162205-19	-	-	-	-	-
MATRIX	Method	Reporting	Water	-	-	-	-	-
SAMPLE ID	Detection Limit	Limit	160524-1834-B ET	-	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.2	-	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.7	-	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	-	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	-	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	-	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	-	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	-	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.9 [1]	-	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	1.3 [1]	-	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	-	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.27 [1]	-	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	1.2 [1]	-	-	-	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

From:	Scott Quinlan
Sent:	Thursday, May 26, 2016 2:37 PM
To:	Jerry.K.Miles@dom.com; michael.a.glagola@dom.com; kenneth.roller@dom.com; Jason.E.Williams@dom.com; doug.wight@dom.com; jeffrey.r.marcell@dom.com; mike.surface@dom.com; rwilliams@gloverconstruction.com; alan.eudy@gmail.com; stephen.smiddy@proact-usa.com; jeremy.goble@proact-usa.com
Cc:	John Klamut; John DeBarbieri; William Moore; Tim Lonas; Brian Bullock; Zachary Belcastro; Jovonna Kirkling
Subject:	5/25/2016 Day Shift thru 5/26/2016 Night Shift Mobile Lab Process Monitoring Summary Reports - Possum Pt
Attachments:	160525-Summary Night.pdf; 160525-Summary Day.pdf

All:

Attached are the mobile lab Summary Reports for the metals as measured from the inline process monitoring samples at the treatment system from Wednesday, May 25th (7-am) to Thursday, May 26th (7-am).

Please contact me with any questions. Thanks.

Sincerely,

Scott C. Quinlan, P.E. – PA, FL, MN, NV
Director – Energy Water Resources Engineering and Planning

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LAB #			Y162208-01	Y162208-02	Y162208-03	Y162208-04	Y162208-05	Y162208-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160525-1920-B ET	150525-2019-B ET	150525-2047-B ET	150525-2117-B ET	150525-2145-B ET	150525-2220-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.3	3.2	3.3	3.1	3.1	3.2
Arsenic	0.35 ug/L	2.0 ug/L	2.2	2.7	2.5	2.3	2.3	2.3
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	0.062 [1]	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	3.6	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.8 [1]	1.6 [1]	1.5 [1]	1.4 [1]	1.5 [1]
Selenium	0.26 ug/L	2.0 ug/L	1.3 [1] [2]	3.5 [2]	2.4 [2]	2.8 [2]	3.2 [2]	3.5 [2]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.29 [1]	0.22 [1]	0.28 [1]	0.28 [1]	0.27 [1]	0.27 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]

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SUMMARY REPORT

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Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162208-07	Y162208-08	Y162208-09	Y162208-10	Y162208-11	Y162208-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	150525-2249-B ET	150525-2320-B ET	150525-2357-B ET	150526-0025-B ET	150526-0055-B ET	150526-0126-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.2	3.2	3.2	3.2	3.1	3.1
Arsenic	0.35 ug/L	2.0 ug/L	2.3	2.2	2.2	2.4	2.4	2.4
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.4 [1]	1.5 [1]	1.5 [1]	1.4 [1]	1.5 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.6 [2]	3.4 [2]	3.3 [2]	3.3 [2]	3.3 [2]	3.2 [2]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.30 [1]	0.26 [1]	0.26 [1]	0.25 [1]	0.24 [1]	0.26 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]

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LAB #			Y162208-13	Y162208-14	Y162208-15	Y162208-16	Y162208-17	Y162208-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	150526-0200-B ET	150526-0234-B ET	150526-0309-B ET	150526-0344-B ET	150526-0414-B ET	150526-0458-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.2	3.1	3.1	3.1	3.0	3.0
Arsenic	0.35 ug/L	2.0 ug/L	2.2	2.3	2.5	2.8	2.4	2.8
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.5 [1]	1.5 [1]	1.5 [1]	1.4 [1]	1.5 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.6 [2]	3.4 [2]	3.3 [2]	3.5 [2]	3.4	3.7
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.26 [1]	0.26 [1]	0.24 [1]	0.25 [1]	0.26 [1]	0.24 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]

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LAB #			Y162208-19	Y162208-20	-	-	-	-
MATRIX	Method	Reporting	Water	Water	-	-	-	-
SAMPLE ID	Detection Limit	Limit	150526-0535-B ET	150526-0603-B ET	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.9	2.9	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.4	2.6	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.4 [1]	1.3 [1]	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	3.5	3.3	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.23 [1]	0.23 [1]	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83 [2]	<0.83 [2]	-	-	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = Resuts may be biased low because of low continuing calibration verification (CCV).

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162207-01	Y162207-02	Y162207-03	Y162207-04	Y162207-05	Y162207-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160525-0908-B ET	160525-0945-B ET	160525-1017-B ET	160525-1048-B ET	160525-1122-B ET	160525-1150-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.5 [1]	1.6 [1]	1.6 [1]	1.5 [1]	1.4 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.8	3.8	3.6 [2]	2.9 [2]	2.6 [2]	2.3 [2]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.26 [1]	0.26 [1]	0.28 [1]	0.27 [1]	0.26 [1]	0.26 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.0	3.1	3.2	3.2	3.1	3.1
Arsenic	0.35 ug/L	2.0 ug/L	3.6	3.1	2.9	2.8	2.7	2.7
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56

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LAB #			Y162207-07	Y162207-08	Y162207-09	Y162207-10	Y162207-11	Y162207-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160525-1222-B ET	160525-1256-B ET	160525-1326-B ET	160525-1403-B ET	160525-1432-B ET	160525-1505-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.6 [1]	1.6 [1]	1.5 [1]	1.6 [1]	1.6 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.0 [2]	1.7 [1] [2]	1.5 [1] [2]	1.4 [1] [2]	1.4 [1] [2]	1.3 [1] [2]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.27 [1]	0.28 [1]	0.29 [1]	0.28 [1]	0.28 [1]	0.29 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]	<0.83 [2]
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.3	3.3	3.4	3.3	3.4	3.4
Arsenic	0.35 ug/L	2.0 ug/L	2.6	2.5	2.2	2.3	2.3	2.2
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	0.36 [1]	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56

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LAB #			Y162207-13	Y162207-14	Y162207-15	Y162207-16	Y162207-17	Y162207-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160525-1534-B ET	160525-1612-B ET	160525-1642-B ET	160525-1713-B ET	160525-1741-B ET	160525-1813-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Lead	0.21 ug/L	2.0 ug/L	<0.21	0.23 [1]	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.5 [1]	1.5 [1]	1.5 [1]	1.5 [1]	1.5 [1]
Selenium	0.26 ug/L	2.0 ug/L	1.0 [1] [2]	0.99 [1] [2]	0.98 [1] [2]	0.87 [1] [2]	0.91 [1] [2]	0.96 [1] [2]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.27 [1]	0.30 [1]	0.31 [1]	0.29 [1]	0.30 [1]	0.28 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83 [2]	<0.83 [2]	<0.83 [2]	1.0 [1] [2]	0.94 [1] [2]	1.6 [1] [2]
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.4	3.3	3.4	3.3	3.4	3.3
Arsenic	0.35 ug/L	2.0 ug/L	2.1	2.2	2.1	2.2	2.1	2.2
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56

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Project Number: 150132.00

LAB #			Y162207-19	-	-	-	-	-
MATRIX	Method	Reporting	Water	-	-	-	-	-
SAMPLE ID	Detection Limit	Limit	160525-1845-B ET	-	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Lead	0.21 ug/L	2.0 ug/L	<0.21	-	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	-	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	-	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	1.1 [1] [2]	-	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	-	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.30 [1]	-	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	1.9 [1] [2]	-	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.5	-	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.1	-	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	-	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	-	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	-	-	-	-	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = Resuts may be biased low because of low continuing calibration verification (CCV).
3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

From:	Scott Quinlan
Sent:	Friday, May 27, 2016 12:08 PM
To:	Jerry.K.Miles@dom.com; michael.a.glagola@dom.com; kenneth.roller@dom.com; Jason.E.Williams@dom.com; doug.wight@dom.com; jeffrey.r.marcell@dom.com; mike.surface@dom.com; rwilliams@gloverconstruction.com; alan.eudy@gmail.com; stephen.smiddy@proact-usa.com; jeremy.goble@proact-usa.com
Cc:	John Klamut; John DeBarbieri; William Moore; Tim Lonas; Brian Bullock; Zachary Belcastro; Jovonna Kirkling; Jeff Jackson
Subject:	5/25/2016 Day Shift thru 5/26/2016 Night Shift Mobile Lab Process Monitoring Summary Reports - Possum Pt
Attachments:	160526 7 pm to AM Inline Process Summary Report.pdf; 160526 7am to 7 pm Inline Process Summary Report.pdf

All:

Attached are the mobile lab Summary Reports for the metals as measured from the inline process monitoring samples at the treatment system from Thursday, May 26th (7-am) to Friday, May 27th (am).

For Thursday, May 26th day shift:
Please note there was a >1-hr delay between 6:33 AM and 9:32 AM. Water was recycled during this period.

For Thursday, May 26th day shift:
Two process shutdowns were noted in logs. First was from 9:06 until 9:31 AM. Second was from 9:54 until 10:10 AM.

For Friday, May 27th night shift:
Final sample was taken at 3:23 AM proceeding system shutdown for Memorial Day Weekend.

For Friday, May 27th night shift:
We did not receive a final summary report from PACE. The provided summary is a composite of the sampling summary reports provided for each sample period.

The site will be closed until 4 am on Tuesday, May 31st.

Please contact me with any questions. Thanks and have a great Memorial Day weekend.

Sincerely,

Scott C. Quinlan, P.E. – PA, FL, MN, NV
Director – Energy Water Resources Engineering and Planning

GAI Consultants
600 Cranberry Woods Drive, Suite 400, Cranberry Township, PA 16066
D 412.399.5385 | **M** 412.584.4508 | **F** 724.770.2011 |

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162210-01	Y162210-02	Y162210-03	Y162210-04	Y162210-05	Y162210-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	150526-1908-B ET	150526-1941-B ET	150526-2016-B ET	150526-2049-B ET	150526-2121-B ET	150526-2155-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.5	3.6	3.4	3.5	3.3	3.36
Arsenic	0.35 ug/L	2.0 ug/L	2.0 [2]	2.0 [2]	1.9 [1] [2]	2.4 [2]	1.8 [1]	1.9 [1]
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	0.22 [1]	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [1]	1.9 [1]	1.9 [1]	1.9 [1]	1.8 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	1.3 [1] [2]	1.5 [1] [2]	1.7 [1] [2]	1.9 [1] [2]	1.8 [1] [2]	2.3 [2]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.36 [1]	0.31 [1]	0.31 [1]	0.32 [1]	0.30 [1]	0.29 [1]
Zinc	0.83 ug/L	2.0 ug/L	0.96 [1]	0.99 [1]	1.0 [1]	1.1 [1]	<0.83	0.99 [1]

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = Resuts may be biased low because of low continuing calibration verification (CCV).

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Project Number: 150132.00

LAB #			Y162210-07	Y162210-08	Y162210-09	Y162210-10	Y162210-11	Y162210-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	150526-2231-B ET	150526-2256-B ET	150526-2329-B ET	150526-2359-B ET	150527-0033-B ET	150527-0104-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.4	3.4	3.2	3.1	3.4	3.3
Arsenic	0.35 ug/L	2.0 ug/L	1.9 [1]	2.1	2.1	1.9 [1] [2]	2.3 [2]	2.2 [2]
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [1]	1.9 [1]	1.7 [1]	1.7 [1]	1.8 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.6 [2]	2.7 [2]	2.9 [2]	2.8 [2]	3.5 [2]	3.6 [2]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.29 [1]	0.29 [1]	0.27 [1]	0.27 [1]	0.27 [1]	0.28 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83	1.6 [1]	<0.83	0.85 [1]	<0.83	0.92 [1]

Special Notes

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3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.

DRAFT REPORT

Pace Analytical®
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SUMMARY REPORT

2525 Advance Road
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608.221.8700 Phone
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GAI Consultants
385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162210-13	Y162210-14	Y162210-15	Y162210-16	Y162210-17	-
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	-
SAMPLE ID	Detection Limit	Limit	150527-0135-B ET	150527-0206-B ET	150527-0240-B ET	150527-0303-B ET	150527-0323-B ET	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.3	3.2	3.2	3.2	3.0	-
Arsenic	0.35 ug/L	2.0 ug/L	2.2 [2]	2.2 [2]	2.2 [2]	2.2 [2]	2.0	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	-
Nickel	0.26 ug/L	2.0 ug/L	1.8 [1]	1.8 [1]	1.8 [1]	1.8 [1]	1.7 [1]	-
Selenium	0.26 ug/L	2.0 ug/L	3.7 [2]	3.7 [2]	3.8 [2]	3.7 [2]	3.6	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	-
Thallium	0.051 ug/L	0.40 ug/L	0.26 [1]	0.27 [1]	0.27 [1]	0.25 [1]	0.26 [1]	-
Zinc	0.83 ug/L	2.0 ug/L	<0.83	1.1 [1]	<0.83	1.1 [1]	<0.83	-

Special Notes

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LAB #			Y162209-01	Y162209-02	Y162209-03	Y162209-04	Y162209-05	Y162209-06
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	150526-0633-B ET	160526-0932-B ET	160526-1020-B ET	160526-1052-B ET	160526-1122-B ET	160526-1200-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.1	3.2	3.2	3.1	3.2	3.1
Arsenic	0.35 ug/L	2.0 ug/L	2.8	2.7	2.5 [2]	2.5	2.4	2.3
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.5 [1]	1.9 [1]	1.8 [1]	1.8 [1]	1.8 [1]	1.8 [1]
Selenium	0.26 ug/L	2.0 ug/L	3.5	4.0	3.8 [2]	3.7 [2]	3.6 [2]	3.2 [2]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.24 [1]	0.31 [1]	0.30 [1]	0.27 [1]	0.27 [1]	0.27 [1]
Zinc	0.83 ug/L	2.0 ug/L	<0.83 [2]	1.6 [1]	1.3 [1]	0.84 [1]	<0.83	1.3 [1]

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LAB #			Y162209-07	Y162209-08	Y162209-09	Y162209-10	Y162209-11	Y162209-12
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160526-1232-B ET	160526-1307-B ET	160526-1338-B ET	160526-1417-B ET	160526-1450-B ET	160526-1524-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.3	3.2	3.4	3.5	3.5	3.5
Arsenic	0.35 ug/L	2.0 ug/L	2.2	2.3 [2]	2.2 [2]	2.2 [2]	2.1 [2]	2.1 [2]
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [1]	1.9 [1]	1.9 [1]	1.9 [1]	1.9 [1]	1.9 [1]
Selenium	0.26 ug/L	2.0 ug/L	2.9 [2]	2.5 [2]	2.4 [2]	2.1 [2]	1.7 [1] [2]	1.9 [1] [2]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.30 [1]	0.31 [1]	0.30 [1]	0.32 [1]	0.31 [1]	0.31 [1]
Zinc	0.83 ug/L	2.0 ug/L	0.89 [1]	1.1 [1]	<0.83	<0.83	<0.83	1.2 [1]

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Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162209-13	Y162209-14	Y162209-15	Y162209-16	Y162209-17	Y162209-18
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	Water
SAMPLE ID	Detection Limit	Limit	160526-1557-B ET	160526-1635-B ET	160526-1708-B ET	160526-1736-B ET	160526-1805-B ET	160526-1836-B ET
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	3.5	3.6	3.6	3.6	3.5	3.5
Arsenic	0.35 ug/L	2.0 ug/L	2.0 [2]	2.2 [2]	1.9 [1] [2]	2.2 [2]	2.0 [2]	2.1 [2]
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048
Nickel	0.26 ug/L	2.0 ug/L	1.9 [1]	1.9 [1]	2.0	2.0	2.0	1.9 [1]
Selenium	0.26 ug/L	2.0 ug/L	1.5 [1] [2]	1.4 [1] [2]	1.4 [1] [2]	1.4 [1] [2]	1.4 [1] [2]	1.3 [1] [2]
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Thallium	0.051 ug/L	0.40 ug/L	0.31 [1]	0.31 [1]	0.32 [1]	0.32 [1]	0.31 [1]	0.32 [1]
Zinc	0.83 ug/L	2.0 ug/L	0.92 [1]	0.88 [1]	1.2 [1]	1.0 [1]	1.2 [1]	1.3 [1]

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