



October 28, 2009

Principal Counsel
Maryland Department of the Environment
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Baltimore, Maryland 21230

Director, Water Management Administration
Maryland Department of the Environment
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Subject: BBSS Quarterly CD Progress Report – October, 2009

Pursuant to item 52 of the October 1, 2007 Consent Decree among Constellation Power Source Generation, Inc. (CPSG), BBSS, Inc. (BBSS) and the Maryland Department of the Environment (MDE), CPSG hereby submits the Quarterly CD Progress Report for the third quarter of 2009.

Key tasks that were addressed during this quarter include the following:

Site Remediation

As in prior quarters, CPSG has been continuing its ongoing groundwater monitoring and assessment of site conditions.

To prepare for installation of a planned sixth recovery well, CPSG had applied for a water appropriations permit. Notices to adjacent property owners were mailed out in June, and the required legal notice was published in September in the Annapolis Capital. MDE has issued the final permit with an effective date of October 1, 2009.

In addition, CPSG has reviewed data needs and has proposed certain monitoring changes to MDE. Following a meeting in May 2009 to discuss the *Alternatives Analysis and Proposed Remediation Report* submitted in May 2008, CPSG sent a letter to MDE on June 15, 2009 requesting appropriate adjustments to site monitoring based upon data developed over the past couple of years. CPSG is awaiting approval of or comments on this request. Specifically requested was:

1. Authorization to reduce the well sampling frequency in certain wells from monthly to quarterly. As provided for in the approved *Pollution Prevention Plan Requirements for Gravel Pit Reclamation, BBSS's Waugh Chapel Pit, 77-SP-0096 and Turner Pit 94-SP-0468 (October 11, 2007)*, after an exceedence in a particular well, sampling of that well continues on a monthly basis "until the Department agrees that the sampling frequency may be reduced." Consistent with this plan, CPSG has been conducting monthly sampling of a number of wells, which has produced a significant quantity of data. This data collection, conducted since September 2006 in some wells, has confirmed exceedances and facilitated the identification of groundwater quality trends in those wells. At this

point, conditions are not changing at a rate such that there value to be gained from continued monthly sampling, as demonstrated by the attached graphs. Therefore, CPSG now proposes quarterly data collection to reduce the generation of unnecessary data while continuing to closely monitor site conditions.

2. Approval to focus the locations of proposed monitoring. CPSG had originally proposed to install wells MW-23, MW-31 and MW-32 pursuant to its November 30, 2007 *Plan for Characterization of Water Impact*. However, data collected since that time has confirmed that these proposed wells are not in the paths of contaminant migration as it is now understood. With this information, CPSG proposes to drop these proposed wells from the monitoring plan. Also, as a result of the realignment of Evergreen Road at its intersection with Route 3 under current development plans, the originally indicated location for well MW-29 may have to be shifted southward.

In addition, pursuant to CPSG's July 2, 2009 email (also as a follow-up to the May, 2009 meeting with MDE), CPSG indicated that it would initiate the analytical methodology consistent with MDE's clarification that it preferred that the data be analyzed for total metals. Consistent with this email, CPSG has analyzed BBSS groundwater samples for total metals instead of dissolved metals beginning with the July 2009 sampling event.

Alternative Water Supply

Engineering work continued throughout the reporting period for the expansion of the Anne Arundel water piping network required to provide an alternative water supply to the recipients listed with Appendix B of the Consent Decree. While our work continued to focus on the large diameter piping that will provide county water to those properties located on either side of Route 3 to the South and East of the BBSS site, progress was interrupted by the bankruptcy of our prime engineering contractor. Significant delays were incurred as the bankruptcy process prohibited access to engineering plans, work in progress or key personnel. Work was resumed after selection of a qualified engineer and CPSG has been working diligently to minimize the impact of the disruption on the overall waterline installation schedule.

In addition, the work required to abandon wells that were no longer connected to homes in the Summerfield and Waugh Chapel Rd. areas progressed during the quarter. A drilling contractor was selected to perform the abandonment for those wells not slated for possible use in groundwater monitoring. All well abandonment activities are being performed in accordance with state and county requirements.

If you have any questions, please contact me at 410-787-5471 or Steve Mange at 410-470-2630.

Sincerely,



Jack Murosko, P.G.
Program Manager

Attachments: Graphs

cc: C. Coates, MDE – email notification only
R. Scrivener, BBSS
K. Topovski, Anne Arundel County



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Subject: Reporting Requirements Under Paragraph 51 of the Consent Decree Effective October 1, 2007 and the Pollution Prevention Plan and Remedial Response Contingency Plan associated with the following BBSS Mining Permits: Waugh Chapel Pit 77-SP-0096 and Turner Pit 04-SP-0468

In compliance with the reporting requirements under Paragraph 51 of the Consent Decree Effective October 1, 2007, and the Pollution Prevention and Remedial Response Contingency Plans, Constellation hereby submits on behalf of defendants the following documents:

- Summary tables of groundwater and surface water quality developed from the laboratory reports.
- Quarterly Groundwater Monitoring Report for the third quarter 2009 prepared by URS. The URS monitoring report includes:
 - Tables presenting groundwater conditions and groundwater recovery data
 - Figures showing well locations and groundwater capture
 - Graphs depicting groundwater elevations, and
 - Resampling reports

We have summarized the sampling data in table format and highlighted exceedances of levels indicated in Appendix A of the Consent Decree. The laboratory reports generated for each well are provided as separate lab reports in Adobe pdf format on the enclosed compact disc.

Please note that the September lab data report includes surface water analysis as required by the Pollution Prevention and Remedial Response Contingency Plans. Surface water data is also submitted quarterly as required by State Discharge Permit No. 03-DP-3431 (NPDES MD 0068993) associated with the groundwater treatment system discharge.

Quarterly Report Transmittal

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Please also note that because of considerable overlap in data, tables, figures and graphs, we have directed that URS combine the Capture Zone Assessment Report and the Groundwater Monitoring Report as previously provided separately into a single comprehensive report as attached.

We continue to await MDE approval of the *Alternatives Analysis and Proposed Remediation Report* submitted in May 2008, as well as a response to our a letter to MDE on June 15, 2009 requesting a modification to the monitoring plan. Please let us know if we can provide any additional information that may be needed for MDE's evaluation.

Please contact me at 410-787-5471 or Steve Mange at 410-470-2630 if you have any questions regarding these reports.

Sincerely,

A handwritten signature in black ink, appearing to read "Jack Murosko". The signature is fluid and cursive, with a large initial "J" and "M".

Jack Murosko, P.G.
Program Manager

Enclosures

cc: C. Coates, MDE – email notification only
R. Scrivener, BBSS

Table 1 - BBSS - Third Quarter, 2009, Groundwater, Total Metals

Well	Sample Date	Lab ID	Al , tot (mg/L)	As , tot (mg/L)	B , tot (mg/L)	Ba , tot (mg/L)	Be , tot (mg/L)	Ca , tot (mg/L)	Cd , tot (mg/L)	Cr , tot (mg/L)	Fe , tot (mg/L)	Hg , tot (mg/L)	K , tot (mg/L)	Li , tot (mg/L)	Mg , tot (mg/L)	Mn , tot (mg/L)	Na , tot (mg/L)	Ni , tot (mg/L)	Sb , tot (mg/L)	Se , tot (mg/L)	Tl , tot (mg/L)	Zn , tot (mg/L)
MW-01	8-Jul-09	9070809-003	0.4	0.004	0.02	0.061	<0.002	46	<0.002	<0.002	120	<0.001	6.2	<0.01	9.4	0.68	33	<0.002	<0.002	<0.002	<0.001	<0.02
MW-01	10-Aug-09	9081010-002	0.051	0.005	<0.05	0.051	<0.002	43	<0.002	<0.002	100	<0.001	5.6	<0.01	8.5	0.62	31	<0.002	<0.002	<0.002	<0.001	<0.02
MW-01	15-Sep-09	9091507-004	0.47	0.005	0.026	0.056	<0.002	48	<0.002	<0.002	120	<0.001	6.7	<0.01	9.1	0.61	37	<0.002	<0.002	<0.002	<0.001	<0.02
MW-02	14-Jul-09	9071407-001	<0.05	<0.002	0.023	0.067	<0.002	45	<0.002	<0.002	44	<0.001	8.1	<0.01	9.5	0.34	52	0.003	<0.002	<0.002	<0.001	0.033
MW-02	10-Aug-09	9081010-001	<0.05	<0.002	<0.05	0.032	<0.002	9.8	<0.002	<0.002	8.1	<0.001	4	<0.01	2.4	0.093	41	<0.002	<0.002	<0.002	<0.001	<0.02
MW-02	15-Sep-09	9091507-003	<0.05	<0.002	0.016	0.023	<0.002	9.3	<0.002	<0.002	1.6	<0.001	3.8	<0.01	1.8	0.043	54	<0.002	<0.002	<0.002	<0.001	<0.02
MW-03	8-Jul-09	9070809-002	43	0.005	0.23	0.012	0.0046	19	0.004	0.065	24	<0.001	5	0.079	13	2.6	14	0.12	<0.002	<0.002	<0.001	0.1
MW-03	6-Aug-09	9080610-002	36	0.004	0.13	0.014	0.0039	19	0.004	0.047	30	<0.001	5.7	0.119	13	2.5	14	0.11	<0.002	<0.002	<0.001	0.092
MW-03	15-Sep-09	9091507-002	75	0.003	0.28	0.020	0.0024	31	0.003	0.024	36	<0.001	8.1	0.18	17	1.8	25	0.099	<0.002	<0.002	<0.001	0.083
MW-07	15-Jul-09	9071519-002	0.31	<0.002	0.23	0.027	<0.002	31	<0.002	<0.002	0.52	<0.001	13	0.102	20	0.28	60	0.055	<0.002	<0.002	0.003	0.084
MW-07	11-Aug-09	9081109-002	0.39	0.003	0.28	0.030	<0.002	41	<0.002	0.002	0.95	<0.001	12	0.089	21	0.26	55	0.055	<0.002	<0.002	0.003	0.078
MW-07	16-Sep-09	9091614-006	0.26	<0.002	0.18	0.026	<0.002	27	<0.002	<0.002	0.28	<0.001	10	0.051	19	0.22	51	0.053	<0.002	<0.002	0.003	0.11
MW-08	15-Jul-09	9071519-005	0.54	<0.002	0.11	0.064	<0.002	20	<0.002	<0.002	0.28	<0.001	5.3	0.181	7.7	0.03	25	0.002	<0.002	0.002	<0.001	<0.02
MW-08	11-Aug-09	9081109-004	0.58	<0.002	0.26	0.060	<0.002	21	<0.002	<0.002	0.28	<0.001	5.9	0.186	7.7	0.03	24	0.003	<0.002	<0.002	<0.001	<0.02
MW-08	16-Sep-09	9091614-004	0.64	<0.002	0.16	0.089	<0.002	19	<0.002	<0.002	0.66	<0.001	6	0.23	7.6	0.03	27	0.003	<0.002	0.002	<0.001	<0.02
MW-09	15-Jul-09	9071519-004	0.34	<0.002	0.01	0.019	<0.002	2.4	<0.002	<0.002	0.65	<0.001	2.8	<0.01	1.5	0.015	17	0.003	<0.002	<0.002	<0.001	<0.02
MW-09	10-Aug-09	9081010-004	0.47	<0.002	<0.05	0.024	<0.002	2.8	<0.002	0.002	0.98	<0.001	3.3	<0.01	1.8	0.019	19	0.003	<0.002	<0.002	<0.001	<0.02
MW-09	16-Sep-09	9091614-002	0.69	<0.002	0.012	0.040	<0.002	4.1	<0.002	<0.002	0.55	<0.001	3.2	<0.01	3.1	0.031	58	0.004	<0.002	<0.002	<0.001	0.027
MW-10	15-Jul-09	9071519-003	0.067	<0.002	0.042	0.055	<0.002	16	<0.002	<0.002	4.7	<0.001	2.6	0.024	5	0.17	10	0.02	<0.002	<0.002	<0.001	0.049
MW-10	10-Aug-09	9081010-003	0.085	<0.002	0.47	0.056	<0.002	25	<0.002	<0.002	7.8	<0.001	2.5	0.019	7.2	0.2	10	0.021	<0.002	<0.002	<0.001	0.042
MW-10	15-Sep-09	9091507-005	0.063	<0.002	0.056	0.063	<0.002	17	<0.002	<0.002	2.8	<0.001	3.1	0.021	5.7	0.13	11	0.019	<0.002	<0.002	<0.001	0.05
MW-11	3-Sep-09	9090315-003	1.8	<0.002	0.028	0.045	<0.002	14	<0.002	<0.002	0.34	<0.001	5.1	0.012	6.3	0.34	8	0.06	<0.002	<0.002	<0.001	0.16
MW-12	2-Sep-09	9090221-003	0.12	<0.002	0.019	0.024	<0.002	49	<0.002	<0.002	18	<0.001	9.5	<0.01	14	0.31	28	0.007	<0.002	<0.002	<0.001	<0.02
MW-13	15-Jul-09	9071519-001	11	0.005	2.7	0.110	<0.002	160	0.004	0.003	1.5	<0.001	54	3.49	40	0.67	210	0.097	<0.002	0.009	0.006	0.2
MW-13	11-Aug-09	9081109-001	16	0.007	3.3	0.130	<0.002	150	0.006	0.004	2	<0.001	53	3.62	41	0.61	200	0.099	<0.002	0.009	0.007	0.21
MW-13	16-Sep-09	9091614-005	12	0.008	2	0.150	<0.002	110	0.004	0.005	2.3	<0.001	40	2.56	32	0.42	160	0.095	<0.002	0.009	0.006	0.17
MW-15	14-Jul-09	9071407-002	0.3	<0.002	0.012	0.040	<0.002	11	<0.002	0.003	1.6	<0.001	3.1	<0.01	3.4	0.06	78	0.006	<0.002	<0.002	<0.001	<0.02
MW-15	11-Aug-09	9081109-003	0.42	<0.002	0.099	0.040	<0.002	12	<0.002	0.004	1.5	<0.001	3	<0.01	3.6	0.053	60	0.01	<0.002	<0.002	<0.001	<0.02
MW-15	16-Sep-09	9091614-001	1.3	0.004	0.02	0.036	<0.002	13	<0.002	0.012	4.1	<0.001	3.3	<0.01	3.8	0.04	41	0.01	<0.002	<0.002	<0.001	<0.02
MW-16	3-Sep-09	9090315-004	<0.5	<0.002	0.62	0.066	<0.002	4.5	<0.002	<0.002	0.67	<0.001	3	<0.01	3.9	0.022	9.6	0.004	<0.002	<0.002	<0.001	<0.02
MW-17	15-Sep-09	9091507-001	0.89	0.004	0.009	0.045	<0.002	11	<0.002	0.01	9.9	<0.001	3.7	<0.01	5.7	0.16	25	0.007	<0.002	<0.002	<0.001	<0.02
MW-18	2-Sep-09	9090221-001	1.6	<0.002	<0.005	0.011	<0.002	2.4	<0.002	<0.002	0.66	<0.001	0.91	<0.01	1.2	0.033	4.2	0.046	<0.002	<0.002	0.001	0.13
MW-19	3-Sep-09	9090315-001	0.59	<0.002	0.071	0.063	<0.002	7.2	<0.002	<0.002	0.13	<0.001	4.6	<0.01	7.2	0.07	25	0.015	<0.002	<0.002	<0.001	<0.02
MW-20	7-Jul-09	9070712-001	19	0.005	0.88	0.030	<0.002	79	0.003	0.004	1.3	<0.001	15	1.1	20	0.43	250	0.09	<0.002	<0.002	0.002	0.14
MW-20	5-Aug-09	9080513-001	21	0.003	0.96	0.029	<0.002	53	0.002	0.004	2.4	<0.001	18	1.15	21	0.39	83	0.088	<0.002	<0.002	0.0018	0.096
MW-20	9-Sep-09	9090922-001	19	0.003	0.96	0.025	<0.002	48	0.003	0.004	1.5	<0.001	15	1.01	20	0.35	81	0.088	<0.002	<0.002	0.0015	0.086
MW-21	7-Jul-09	9070712-002	15	0.004	7.8	0.045	<0.002	250	<0.002	0.003	8.4	<0.001	110	6.42	120	0.84	370	0.039	<0.002	0.002	0.002	0.026
MW-21	5-Aug-09	9080513-002	15	0.003	8.2	0.050	<0.002	250	<0.002	0.003	8.6	<0.001	110	6.47	120	0.76	360	0.039	<0.002	<0.004	0.003	0.026
MW-21	9-Sep-09	9090922-002	15	0.003	8.4	0.039	<0.002	240	<0.002	0.003	8.8	<0.001	110	5.76	120	0.75	370	0.037	<0.002	0.002	0.002	0.027
MW-22	7-Jul-09	9070712-003	11	0.003	2.5	0.034	<0.002	100	0.002	<0.002	4.8	<0.001	32	1.89	40	0.76	130	0.077	<0.002	0.004	0.006	0.092
MW-22	5-Aug-09	9080513-003	11	<0.004	3.7	0.032	<0.002	110	0.002	<0.004	6.2	<0.001	32	1.72	38	0.76	120	0.075	<0.002	<0.004	0.005	0.11
MW-22	9-Sep-09	9090922-003	11	0.002	2.9	0.027	<0.002	100	0.002	<0.002	6.7	<0.001	29	1.57	39	0.72	120	0.076	<0.002	0.003	0.004	0.082

Table 1 - BBSS - Third Quarter, 2009, Groundwater, Total Metals

Well	Sample Date	Lab ID	Al , tot (mg/L)	As , tot (mg/L)	B , tot (mg/L)	Ba , tot (mg/L)	Be , tot (mg/L)	Ca , tot (mg/L)	Cd , tot (mg/L)	Cr , tot (mg/L)	Fe , tot (mg/L)	Hg , tot (mg/L)	K , tot (mg/L)	Li , tot (mg/L)	Mg , tot (mg/L)	Mn , tot (mg/L)	Na , tot (mg/L)	Ni , tot (mg/L)	Sb , tot (mg/L)	Se , tot (mg/L)	Tl , tot (mg/L)	Zn , tot (mg/L)
MW-24	8-Jul-09	9070809-001	0.26	0.049	22	0.039	<0.002	680	0.003	<0.002	65	<0.001	430	26.3	300	2.6	1600	0.01	<0.002	0.002	<0.001	<0.02
MW-24	6-Aug-09	9080610-001	0.99	0.067	26	0.043	<0.002	710	0.004	0.007	69	<0.001	480	27.4	320	2.7	1600	0.01	<0.002	0.004	<0.001	<0.02
MW-24	3-Sep-09	9090315-002	2.6	0.081	26	0.048	<0.002	1300	0.006	0.015	110	<0.001	470	24	340	3.3	1900	0.016	<0.002	0.008	<0.001	<0.02
MW-25	2-Sep-09	9090221-002	4.1	0.007	0.011	0.067	<0.002	25	<0.002	0.017	13	<0.001	4	<0.01	17	0.046	16	0.046	<0.002	0.002	<0.001	0.05
MW-26	8-Jul-09	9070809-004	1.5	<0.002	0.011	0.083	<0.002	10	<0.002	0.013	7.5	<0.001	3.8	<0.01	6.8	0.024	50	0.006	<0.002	<0.002	<0.001	0.024
MW-26	6-Aug-09	9080610-003	1.6	<0.002	0.012	0.079	<0.002	11	<0.002	0.015	8.7	<0.001	3.8	0.012	6.5	0.024	60	0.006	<0.002	<0.002	<0.001	0.027
MW-26	16-Sep-09	9091614-003	1.6	0.003	0.015	0.08	<0.002	11	<0.002	0.014	7.3	<0.001	3.9	<0.01	6.7	0.025	71	0.006	<0.002	<0.002	<0.001	0.026
RW-01	16-Jul-09	9071611-005	13	0.005	2.7	0.052	<0.002	100	0.003	0.006	3.7	<0.001	35	3.8	39	0.38	150	0.22	<0.002	<0.002	0.007	0.28
RW-01	12-Aug-09	9081211-005	16	0.005	3	0.052	<0.002	120	0.003	0.006	3.7	<0.001	38	3.41	43	0.38	170	0.22	<0.002	<0.002	0.007	0.26
RW-01	10-Sep-09	9091016-005	12	0.004	2	0.053	<0.002	110	0.003	0.006	3.6	<0.001	40	3.33	42	0.39	160	0.24	<0.002	<0.002	0.007	0.29
RW-02	16-Jul-09	9071611-004	10	<0.002	2.9	0.052	<0.002	49	<0.002	0.004	2.6	<0.001	19	1.44	17	0.18	53	0.089	<0.002	<0.002	0.005	0.24
RW-02	12-Aug-09	9081211-004	7	<0.002	0.81	0.053	<0.002	30	<0.002	0.004	2.5	<0.001	18	1.36	14	0.18	51	0.089	<0.002	<0.002	0.005	0.23
RW-02	10-Sep-09	9091016-004	9	0.002	0.91	0.056	<0.002	34	<0.002	0.004	2.9	<0.001	20	1.36	15	0.2	54	0.1	<0.002	<0.002	0.005	0.27
RW-03	16-Jul-09	9071611-003	8.6	0.002	1.3	0.047	<0.002	38	<0.002	0.003	2.7	<0.001	20	1.51	15	0.18	58	0.076	<0.002	<0.002	0.005	0.22
RW-03	12-Aug-09	9081211-003	6	0.002	1.2	0.048	<0.002	37	<0.002	0.004	2.7	<0.001	23	1.41	16	0.19	63	0.08	<0.002	<0.002	0.006	0.22
RW-03	10-Sep-09	9091016-003	7.5	0.002	0.97	0.050	<0.002	40	<0.002	0.003	2.8	<0.001	24	1.33	17	0.19	63	0.083	<0.002	<0.002	0.005	0.23
RW-04	16-Jul-09	9071611-002	4.1	0.003	1.3	0.030	<0.002	31	<0.002	<0.002	2.5	<0.001	19	0.972	11	0.11	42	0.068	<0.002	<0.002	0.005	0.29
RW-04	12-Aug-09	9081211-002	3.1	0.004	1.1	0.030	<0.002	30	<0.002	<0.002	2.4	<0.001	19	0.805	11	0.11	42	0.071	<0.002	<0.002	0.005	0.29
RW-04	10-Sep-09	9091016-002	3.1	0.004	1	0.030	<0.002	30	<0.002	<0.002	2.7	<0.001	20	0.839	11	0.11	42	0.071	<0.002	<0.002	0.005	0.3
RW-05	16-Jul-09	9071611-001	2	0.004	0.23	0.039	<0.002	11	<0.002	<0.002	2.5	<0.001	4.8	0.126	3.8	0.051	17	0.073	<0.002	<0.002	0.003	0.36
RW-05	12-Aug-09	9081211-001	1.7	0.004	0.18	0.043	<0.002	10	<0.002	<0.002	2.4	<0.001	4.8	0.11	4	0.053	17	0.077	<0.002	<0.002	0.003	0.36
RW-05	10-Sep-09	9091016-001	1.8	0.005	0.19	0.043	<0.002	11	<0.002	<0.002	2.6	<0.001	5.7	0.124	4.4	0.054	19	0.082	<0.002	<0.002	0.003	0.38

Comparison Standards:

0.01

2

0.004

0.005

0.1

0.002

0.006

0.05

0.002

Notes : Table 1 metals results reported as milligrams per liter (mg/l)

< - Not detected above the indicated value

Yellow-shaded cells denote exceedances of Consent Decree Appendix A Groundwater Parameters (comparison values at bottom of table)

Table 2 - BBSS - Third Quarter, 2009, Groundwater - Inorganics

Well	Sample Date	Lab ID	Alkalinity mg/L	Chloride mg/L	Total Cyanide mg/L	Fluoride mg/L	Hardness mg/L	Nitrite mg/L	Nitrate mg/L	pH SU	Sulfate mg/L	TDS mg/L	Turbidity NTU
MW-01	8-Jul-09	9070809-003	227	110	<0.05	<0.2	150	<0.2	<0.2	6.2	4	380	540
MW-01	10-Aug-09	9081010-002	119	74	<0.05	<0.2	230	<0.2	<0.2	6.1	12	310	540
MW-01	15-Sep-09	9091507-004	152	76	<0.05	<0.2	160	<0.2	<0.2	6.4	7	330	610
MW-02	14-Jul-09	9071407-001	122	92	<0.05	<0.2	150	<0.2	0.3	5.8	10	180	47
MW-02	10-Aug-09	9081010-001	40.5	77	<0.05	<0.2	34	<0.2	0.5	5.4	15	180	7.1
MW-02	15-Sep-09	9091507-003	16	91	<0.05	<0.2	30	<0.2	0.2	5.3	22	220	5
MW-03	8-Jul-09	9070809-002	<5	14	<0.05	<0.2	100	<0.2	<0.2	2.8	660	920	7.4
MW-03	6-Aug-09	9080610-002	<5	18	<0.05	0.3	100	<0.2	<0.2	2.9	1600	740	6
MW-03	15-Sep-09	9091507-002	<5	32	<0.05	<0.2	150	<0.2	<0.2	2.9	440	670	9.7
MW-07	15-Jul-09	9071519-002	<5	120	<0.05	<0.2	160	<0.2	4.0	3.6	160	450	3.4
MW-07	11-Aug-09	9081109-002	<5	120	<0.05	<0.2	190	<0.2	5.7	3.7	160	370	9.1
MW-07	16-Sep-09	9091614-006	<5	100	<0.05	<0.2	140	<0.2	6.0	3.7	160	420	3.4
MW-08	15-Jul-09	9071519-005	<5	51	<0.05	<0.2	81	<0.2	4.1	4.3	72	250	19
MW-08	11-Aug-09	9081109-004	<5	58	<0.05	<0.2	85	<0.2	4.3	4.4	77	170	21
MW-08	16-Sep-09	9091614-004	<5	60	<0.05	<0.2	80	<0.2	4.1	4.2	73	180	40
MW-09	15-Jul-09	9071519-004	<5	20	<0.05	<0.2	12	<0.2	0.3	4.4	27	230	31
MW-09	10-Aug-09	9081010-004	<5	30	<0.05	<0.2	14	<0.2	0.3	4.3	31	49	55
MW-09	16-Sep-09	9091614-002	<5	110	<0.05	<0.2	23	<0.2	0.5	4.4	30	190	36
MW-10	15-Jul-09	9071519-003	<5	17	<0.05	<0.2	61	<0.2	0.4	4.4	78	200	4
MW-10	10-Aug-09	9081010-003	<5	16	<0.05	<0.2	100	<0.2	0.6	4.7	100	170	3.1
MW-10	15-Sep-09	9091507-005	<5	18	<0.05	<0.2	67	<0.2	0.7	5	74	170	2.9
MW-11	3-Sep-09	9090315-003	<5	12	<0.05	<0.2	61	<0.2	1	4.4	85	130	0.5
MW-12	2-Sep-09	9090221-003	158	47	<0.05	<0.2	180	<0.2	<0.2	6.3	48	280	34
MW-13	15-Jul-09	9071519-001	<5	350	<0.05	0.2	560	<0.2	0.7	3.7	850	1700	110
MW-13	11-Aug-09	9081109-001	<5	400	<0.05	<0.2	540	<0.2	0.7	3.8	990	1700	120
MW-13	16-Sep-09	9091614-005	<5	300	<0.05	<0.2	160	<0.2	0.9	3.6	780	1300	140
MW-15	14-Jul-09	9071407-002	7	120	<0.05	<0.2	28	<0.2	1.1	4.9	40	170	180
MW-15	11-Aug-09	9081109-003	5	110	<0.05	<0.2	44	<0.2	0.8	5.1	49	190	240
MW-15	16-Sep-09	9091614-001	8	74	<0.05	<0.2	47	<0.2	1.3	5.3	40	230	660
MW-16	3-Sep-09	9090315-004	<5	15	<0.05	<0.2	27	<0.2	2.3	4.3	33	130	61
MW-17	15-Sep-09	9091507-001	13	57	<0.05	<0.2	52	<0.2	1.2	5.5	15	180	490
MW-18	2-Sep-09	9090221-001	<5	9	<0.05	<0.2	11	<0.2	<0.2	3.9	47	70	5.9
MW-19	3-Sep-09	9090315-001	<5	60	<0.05	<0.2	48	<0.2	0.6	4	32	150	5.3

Table 2 - BBSS - Third Quarter, 2009, Groundwater - Inorganics

Well	Sample Date	Lab ID	Alkalinity mg/L	Chloride mg/L	Total Cyanide mg/L	Fluoride mg/L	Hardness mg/L	Nitrite mg/L	Nitrate mg/L	pH SU	Sulfate mg/L	TDS mg/L	Turbidity NTU
MW-20	7-Jul-09	9070712-001	<5	150	<0.05	<0.2	280	<0.2	1.5	3.6	360	850	4.9
MW-20	5-Aug-09	9080513-001	<5	170	<0.05	<0.2	230	<0.2	1.4	3.6	400	740	1.5
MW-20	9-Sep-09	9090922-001	<5	150	<0.05	0.3	200	<0.2	1.5	3.6	340	670	3.3
MW-21	7-Jul-09	9070712-002	<5	640	<0.05	<0.2	1100	<0.2	<0.2	3.8	1700	3200	2.7
MW-21	5-Aug-09	9080513-002	<5	630	<0.05	<0.2	1100	<0.2	<0.2	3.8	1700	2900	4.8
MW-21	9-Sep-09	9090922-002	<5	550	<0.05	<0.2	1100	<0.2	<0.2	3.8	1600	2800	4.9
MW-22	7-Jul-09	9070712-003	<5	220	<0.05	<0.2	420	<0.2	7.6	3.2	680	1300	3.3
MW-22	5-Aug-09	9080513-003	<5	210	<0.05	0.2	370	<0.2	<0.2	3.9	740	1100	3.8
MW-22	9-Sep-09	9090922-003	<5	200	<0.05	0.2	410	<0.2	<0.2	3.9	670	1000	2.7
MW-24	8-Jul-09	9070809-001	297	2800	<0.05	0.9	2900	<0.2	<0.2	6.6	3300	9700	170
MW-24	6-Aug-09	9080610-001	254	2900	<0.05	<20	3090	<20	<20	6.7	3600	9500	210
MW-24	3-Sep-09	9090315-002	241	1500	<0.05	0.9	4600	<0.2	<0.2	6.5	1700	9800	420
MW-25	2-Sep-09	9090221-002	<5	25	<0.05	<0.2	130	<0.2	0.9	4.7	130	250	890
MW-26	8-Jul-09	9070809-004	5	120	<0.05	<0.2	54	<0.2	1.2	4.7	20	260	920
MW-26	6-Aug-09	9080610-003	5.5	130	<0.05	<0.2	53	<0.2	1.2	4.9	30	230	870
MW-26	16-Sep-09	9091614-003	3460	140	<0.05	<0.2	56	<0.2	1.0	4.9	24	250	800
RW-01	16-Jul-09	9071611-005	<5	260	<0.05	<0.2	410	<0.2	<0.2	3.7	730	1300	<0.2
RW-01	12-Aug-09	9081211-005	<5	260	<0.05	<0.2	460	<0.2	<0.2	3.6	700	1300	0.3
RW-01	10-Sep-09	9091016-005	3240	260	<0.05	<0.2	200	<0.2	<0.2	3.6	700	1300	<0.2
RW-02	16-Jul-09	9071611-004	<5	74	<0.05	<0.2	190	<0.2	<0.2	3.6	290	550	<0.2
RW-02	12-Aug-09	9081211-004	<5	75	<0.05	<0.2	130	<0.2	<0.2	3.5	290	510	<0.2
RW-02	10-Sep-09	9091016-004	<5	78	<0.05	<0.2	150	<0.2	<0.2	3.5	300	560	0.4
RW-03	16-Jul-09	9071611-003	<5	78	<0.05	<0.2	160	<0.2	<0.2	3.7	290	530	<0.2
RW-03	12-Aug-09	9081211-003	<5	81	<0.05	<0.2	160	<0.2	<0.2	3.6	290	510	0.2
RW-03	10-Sep-09	9091016-003	<5	82	<0.05	<0.2	170	<0.2	<0.2	3.5	300	510	0.4
RW-04	16-Jul-09	9071611-002	<5	56	<0.05	<0.2	120	<0.2	<0.2	3.6	220	400	0.3
RW-04	12-Aug-09	9081211-002	<5	54	<0.05	<0.2	120	<0.2	<0.2	3.6	200	390	<0.2
RW-04	10-Sep-09	9091016-002	<5	57	<0.05	<0.2	120	<0.2	<0.2	3.7	220	340	0.6
RW-05	16-Jul-09	9071611-001	<5	29	<0.05	<0.2	43	<0.2	0.3	3.5	91	200	<0.2
RW-05	12-Aug-09	9081211-001	17	31	<0.05	<0.2	42	<0.2	<0.2	3.5	90	160	0.3
RW-05	10-Sep-09	9091016-001	<5	32	<0.05	<0.2	46	<0.2	<0.2	3.6	99	190	0.5

Comparison Standards:

0.2 4 1 10 250

Notes: Results reported as milligrams per liter (mg/l) except where noted
 pH reported in Standard Units (S.U.)
 Turbidity reported in Nephelometric Turbidity Units (NTU)
 < - Not detected above the indicated value
 Yellow-shaded cells denote exceedances of Consent Decree Appendix A Groundwater Parameters (comparison values at bottom of table)

Table 3 - BBSS - Third Quarter, 2009, Surface Water

Surface Water Location	Sample Date	Lab ID	Hardness mg/L	pH SU	Sulfate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L
SW-01	17-Sep-09	9091704-002	44	6.9	12	130	11
SW-02	17-Sep-09	9091704-001	71	6.6	47	170	11

Notes: Results reported as milligrams per liter (mg/l) except where noted
pH reported in Standard Units (S.U.)



October 8, 2009

Constellation Power Source Generation, Inc.
1005 Brandon Shores Road
Baltimore, Maryland 21226

Attn: Mr. Jack E. Murosko

Re: Quarterly Groundwater Monitoring Report
3rd Quarter 2009 – September Event
BBSS Ash Fill Site

Dear Mr. Murosko:

This document has been prepared to meet the reporting requirements under Paragraph 51 of the Consent Decree Effective October 1, 2007, the Pollution Prevention Plan Requirements for Gravel Pit Reclamation, BBSS's Waugh Chapel Pit 77-SP-0096, and Turner Pit 94-SP-0468, and the Remedial Response Contingency Plan. Paragraph 51 requires a quarterly assessment of the groundwater capture zone. The Pollution Prevention Plan (P2 Plan) requires quarterly groundwater sampling of monitoring wells and surface water.

Chemical Data

Groundwater monitoring data for the BBSS ash fill site for the quarter ending September 30, 2009 are included by attachment. Monitoring information includes sampling locations, date and time of sampling, static water levels, chemical test methods, and analytical results.

Water samples were collected from 21 monitoring wells, five recovery wells, and two surface water sampling locations. These samples were analyzed for selected metals and water quality parameters.

Table 1 (attached) presents field measurements including the date and time of sampling, total gallons purged, and pH, temperature, and conductivity readings. Well and sample locations are shown in Figure 1 (attached).

Water Level Data

Table 2 (attached) summarizes historic groundwater levels recorded over the past four years. Table 3 (in text) lists the monitoring points included in the capture zone assessment. Line plots showing water levels measured in monitoring wells are presented in Figures 2 and 3 (attached). Line plots for the recovery wells and piezometers are presented in Figure 4 (attached). Water levels are measured from the top of each well casing on a monthly basis and the data is entered into a spreadsheet to calculate the ground water elevation for each well relative to feet mean sea level.

TABLE 3
Monitoring Points Measured
on a Monthly Basis

MW-1	MW-10	MW-17	MW-24	RW-4
MW-2	MW-11	MW-18	MW-25	RW-5
MW-3	MW-12	MW-19	MW-26	SW-1
MW-7	MW-13	MW-20	RW-1	SW-2
MW-8	MW-15	MW-21	RW-2	
MW-9	MW-16	MW-22	RW-3	

Capture Zone Assessment

Water level measurements from the BBSS well network were entered into a spreadsheet and water table elevations relative to mean sea level were calculated. These data and the Maryland State Plane coordinates for each well were imported into Surfer 8.0® for contouring of the potentiometric (water table) surface. Figure 5 (attached) shows the potentiometric surface for September 2009.

The potentiometric surface map is used to identify the limits of the capture zone developed by the pumping wells. A flow vector field was added to the map to assist in locating inflection points. Inflection points in the water table indicate where the groundwater flow direction changes from its natural flow path (controlled by the local hydraulic gradient) to that influenced by the drawdown of the remediation wells. The capture zone is visually traced on the map using the inflection points. The inferred capture zone for September 2009 groundwater measurements is presented in Figure 5.

Water levels over the last three months appear relatively stable. Based on the potentiometric surface in the vicinity of the five recovery wells and the capture zone assessment, capture is being maintained downgradient of the Turner Pit.

Flow Measurements

The pumping flow rates were tabulated to provide information about the effectiveness of the pumping program. Steady pumping with little down-time is important in maintaining the capture zone. The average flow rates and the percentage of time in days when wells were pumping are noted in Table 4.

The system continued to run nearly continuously during the 3rd quarter of 2009 (July, August, and September). The system was down for less than two days between July 21 and July 23 due to an electrical outage. On September 22 the system was shutdown for approximately 3 hours so that an emergency electrical cutoff switch could be installed. Flow totals from the main and the individual flow meter were used to calculate the average pumping rate for each well for the quarter (Table 4).

TABLE 4
Pumping Rate Summary

Recovery Well	Average Rate (gpm)	Percentage of Time Well Operational		
		July	August	September
RW-1	25.4	93.2	100	99.7
RW-2	21.7	93.2	100	99.7
RW-3	19.7	93.2	100	99.7
RW-4	20.1	93.2	100	99.7
RW-5	18.6	93.2	100	99.7
Total	105.5			

Please contact us with any questions concerning the data presented.

Sincerely,

URS Corporation



Christopher Beza
Project Manager, P.G.

Enclosures

cc: Ms. Barbara Cook – GeoEnvironmental Group, LLC
Mr. Rob Scrivener – Reliable

TABLES / FIGURES

TABLE 1
Groundwater & Surface Water Sampling Field Measurements
BBSS Fill Site

Parameter	MW-1	MW-2	MW-3	MW-7	MW-8	MW-9	MW-10	MW-11
Date of Sampling	9/15/2009	9/15/2009	9/15/2009	9/16/2009	9/16/2009	9/16/2009	9/15/2009	9/3/2009
Time of Sampling	12:30	10:46	10:00	14:40	12:50	10:45	13:30	13:50
Purged Volume (gallons)	25	20	8	25	20	20	40	38
pH (standard units)	6.65	5.49	2.74	3.83	4.46	4.38	4.67	4.10
Temperature (°C)	16.5	16.4	14.9	16.7	15.7	15.3	16.3	16.2
Conductivity (µmhos/cm)	812	335	1,235	911	372	270	196	261

Parameter	MW-12	MW-13	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20
Date of Sampling	9/2/2009	9/16/2009	9/15/2009	9/3/2009	9/15/2009	9/2/2009	9/3/2009	9/9/2009
Time of Sampling	11:45	14:00	9:45	14:50	9:00	9:00	11:00	10:35
Purged Volume (gallons)	40	20	20	20	20	15	32	50
pH (standard units)	6.18	4.03	5.38	4.50	5.12	3.92	4.23	3.66
Temperature (°C)	16.4	16.5	16.5	16.0	13.7	16.3	16.1	15.1
Conductivity (µmhos/cm)	597	2,850	501	158	181	124	281	1,197

Notes:

Sampling Technician: Matt Ridley of URS

TABLE 1 (Continued)
Groundwater & Surface Water Sampling Field Measurements
BBSS Fill Site

Parameter	MW-21	MW-22	MW-24	MW-25	MW-26	SW-1	SW-2
Date of Sampling	9/9/2009	9/9/2009	9/3/2009	9/2/2009	9/16/2009	9/17/2009	9/17/2009
Time of Sampling	12:00	14:00	12:30	10:06	11:30	13:40	13:10
Purged Volume (gallons)	50	50	6	8	6	na	na
pH (standard units)	3.77	3.84	6.53	4.65	4.84	6.75	6.25
Temperature (°C)	16.1	15.1	18.2	17.8	15.2	19.8	19.5
Conductivity (µmhos/cm)	3,870	1,330	10,260	310	545	213	287

Notes:

Sampling Technician: Matt Ridley of URS

NA - Not applicable (surface water sample)

TABLE 2
Groundwater & Surface Water Elevations
BBSS Fill Site

Date	MW-1	MW-2	MW-3	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14*
July 25, 2005	79.44	82.02	83.97	65.32	66.58	69.01	70.88	68.49	76.63	65.34	69.48
August 23, 2005	79.18	81.89	83.74	65.10	66.21	68.52	70.03	68.39	76.55	65.03	69.50
September 13, 2005	77.66	80.95	83.08	64.91	65.53	67.31	69.19	67.84	75.77	64.84	69.54
October 19, 2005	77.38	80.82	82.87	64.77	64.97	66.77	69.18	67.77	75.52	64.38	69.41
November 30, 2005	77.42	80.89	82.83	64.18	64.92	66.75	69.25	67.81	75.48	64.32	69.20
December 9, 2005	78.90	80.80	82.00	64.08	64.78	66.39	68.15	67.95	75.24	64.18	67.87
January 30, 2006	79.03	80.85	82.34	64.33	64.91	66.48	68.44	68.10	75.30	63.72	68.12
February 23, 2006	78.95	80.75	82.31	63.94	64.87	66.49	68.37	67.99	75.22	63.80	68.15
March 8, 2006	78.50	80.89	82.40	63.82	64.66	66.34	68.36	68.20	75.68	63.68	67.86
April 26, 2006	77.90	80.76	81.56	63.77	64.04	65.63	67.57	67.91	74.84	63.34	67.24
May 30, 2006	77.58	80.36	81.13	63.50	63.59	65.19	67.18	67.78	74.45	63.04	66.79
June 12, 2006	77.88	80.22	81.04	63.37	63.74	65.11	66.14	67.44	74.85	62.97	66.74
July 26, 2006	78.15	80.65	81.44	63.17	64.13	65.51	66.58	67.79	75.25	62.77	67.16
August 30, 2006	77.50	79.79	79.80	62.57	63.46	64.91	65.94	67.04	74.55	62.10	66.46
September 22, 2006	79.17	80.89	82.39	62.42	63.06	65.00	68.45	67.18	75.25	62.02	66.47
October 24, 2006		81.32	81.59	62.35	63.24	65.11	67.84	67.91	75.55	62.12	66.52
November 28, 2006		81.52	82.49	62.72	63.58	65.43	68.69	68.21	76.26	62.47	67.32
December 1, 2006	79.11	80.90	82.07	62.72	63.84	65.68	68.15	68.36	76.00	62.79	67.02
January 15, 2007	79.82	81.39	82.18	62.67	63.78	65.64	67.93	68.43	76.02	62.58	67.05
February 28, 2007	79.62	81.00	81.74	62.44	63.43	65.28	67.61	68.08	75.44	62.34	66.74
March 15, 2007	80.85	82.37	81.68	62.57	63.56	65.45	67.37	68.46	76.10	62.57	66.78
April 24, 2007		82.36	82.26	62.73	63.94	65.89	67.77	68.56	76.43	62.70	66.76
May 18, 2007	79.87	81.39	82.53	62.82	64.15	66.20	68.00	68.58	76.05	62.92	65.84
June 18, 2007	79.40	81.14	82.24	62.69	63.84	65.89	68.21	67.88	75.90	62.67	66.99
July 25, 2007	79.08	80.46	81.74	62.74	63.66	65.56	67.86	67.45	75.45	62.92	66.66
August 20, 2007	84.92	80.87	81.48	62.19	63.26	66.16	67.48	67.46	75.15	62.25	66.59
September 17, 2007	78.00	79.89	81.16	61.87	62.79	64.69	66.94	67.39	75.05	61.64	66.21
October 18, 2007	77.80	80.09	81.00	61.67	62.60	64.51	66.80	67.09	74.96	61.54	65.94
November 12, 2007	79.25	80.61	80.99	61.47	62.31	64.14	66.14	66.76	74.77	61.15	66.00
December 3, 2007	78.72	80.12	80.84	61.91	62.15	63.94	66.17	68.04	75.00	61.21	66.03
January 24, 2008	78.90	80.32	81.08	61.07	62.09	63.87	65.56	67.46	74.75	60.92	65.92
February 18, 2008	82.77	80.87	81.15	61.32	62.09	63.89	65.68	67.74	75.04	60.91	65.69
March 8, 2008	79.90	80.87	81.14	60.99	62.11	63.96	65.65	67.89	75.40	60.87	65.64
April 16, 2008	79.79	80.76	81.07	60.88	62.02	63.89	65.55	67.78	75.29	60.76	65.52
May 22, 2008	81.23	82.44	81.79	61.83	62.82	65.00	65.88	68.65	76.14	61.49	66.25
June 12, 2008	79.59	82.02	83.06	63.24	63.69	66.01	66.79	68.39	76.20	62.17	66.62
July 21, 2008	79.09	81.16	82.51	62.54	64.02	65.97	67.46	68.48	76.35	62.39	66.73
August 19, 2008	78.37	80.62	81.99	62.39	63.44	65.56	67.36	68.19	75.62	62.12	66.53
September 18, 2008	77.89	80.37	82.09	61.74	62.78	64.87	66.92	68.01	75.13	61.59	66.09
October 8, 2008	78.18	80.58	81.45	61.72	62.71	64.74	66.86	68.01	75.23	61.49	66.06
November 15, 2008	77.62	80.25	81.05	61.73	62.31	64.24	66.36	68.39	75.00	62.04	
December 9, 2008	77.25	79.96	80.79	61.02	62.14	64.04	66.15	68.32	74.90	61.08	
January 9, 2009	77.07	79.75	80.73	61.24	62.14	64.01	66.06	68.35	74.81	61.08	
February 7, 2009	76.00	78.65	80.59	61.28	62.00	63.88	66.01	68.39	74.45	60.92	
March 19, 2009	74.92	77.60	80.19	60.72	61.80	63.63	65.48	68.28	74.34	60.89	
April 7, 2009	76.42	78.77	79.91	60.71	61.70	63.51	65.38	68.22	74.27	60.59	
May 6, 2009	77.70	80.06	80.44	60.82	62.09	64.01	65.68	68.30	74.35	60.72	
June 11, 2009	77.80	80.12	80.77	60.49	62.39	64.64	66.03	68.18	74.94	61.00	
July 14, 2009	77.18	79.22	81.51	61.30	62.74	64.84	66.48	68.33	75.07	61.24	
August 12, 2009	76.41	79.26	81.01	61.17	62.33	64.43	66.32	68.13	74.95	60.97	
September 2, 2009	77.56	80.27	80.79	60.92	62.09	64.18	66.16	67.58	74.77	60.77	

TABLE 2 (Continued)
Groundwater & Surface Water Elevations
BBSS Fill Site

Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	SW-1	SW-2
July 25, 2005	76.84	67.72	94.25	83.41	89.18	86.94	85.70	84.12	93.22	68.57
August 23, 2005	76.78	67.61	94.04	83.24	88.77	86.77	85.60	84.00	93.17	68.48
September 13, 2005	75.83	67.46	93.40	83.07	88.00	86.13	85.02	83.74	93.16	68.50
October 19, 2005	75.49	67.21	93.16	83.20	87.56	85.57	84.47	83.52	93.24	68.68
November 30, 2005	75.44	67.22	93.10	83.03	87.61	85.53	84.36	83.05	93.19	68.61
December 9, 2005	75.64	66.69	92.79	83.29	86.92	85.09	83.98	82.93	93.14	68.57
January 30, 2006	75.80	66.82	92.84	83.38	87.10	85.19	84.17	83.23	93.33	68.71
February 23, 2006	75.71	66.80	92.77	83.39	87.02	85.16	84.28	83.31	93.29	68.68
March 8, 2006	75.50	66.54	92.98	83.53	86.57	85.06	84.15	83.23	94.30	68.44
April 26, 2006	74.21	66.32	92.54	83.28	86.38	84.46	83.37	82.38	93.11	68.37
May 30, 2006	73.21	65.46	91.77	82.76	85.62	84.05	83.07	82.02	93.13	68.41
June 12, 2006	74.11	65.55	91.47	83.10	86.05	84.05	82.92	81.91	93.02	68.34
July 26, 2006	74.47	65.88	91.87	83.35	86.45	84.42	83.34	82.30	92.98	68.28
August 30, 2006	73.79	65.18	91.18	82.91		83.92	82.68	81.68	93.02	68.33
September 22, 2006	75.11	65.39	91.99	84.01	85.58	84.14	83.09	82.18	93.38	68.84
October 24, 2006	75.66	65.47	92.22	83.20	85.53	84.32	83.52	82.53	93.00	68.49
November 28, 2006	76.38	66.28	94.07	83.59	86.19	84.97	83.70	83.02	93.12	68.54
December 1, 2006		65.86	92.99	83.45	85.97	84.42	83.72	82.98	92.95	68.88
January 15, 2007		65.63	93.14	83.65	86.38	84.49	83.74	83.02	93.42	68.66
February 28, 2007		65.32	92.74	83.50	86.05	84.42	83.61	82.62	93.32	68.61
March 15, 2007		65.41	92.96	83.79	86.22	84.26	83.39	82.68	93.38	68.64
April 24, 2007		65.75	93.29	84.10	86.50	84.59	83.72	83.03	93.32	68.58
May 18, 2007		64.77	92.32	83.35	86.61	84.69	83.90	83.13	93.23	68.50
June 18, 2007		65.57	92.94	82.95	86.59	84.65	83.77	82.83	93.53	68.73
July 25, 2007		65.18	92.52	82.74	86.45	84.44	83.57	82.68	94.42	68.99
August 20, 2007	74.40	64.69	91.96	82.69	85.85	84.12	83.30	82.37	94.43	69.01
September 17, 2007	74.25	64.62	91.87	82.60	85.80	83.84	82.97	82.13	94.43	69.00
October 18, 2007	74.15	64.41	91.69	82.41	85.63	83.64	82.62	81.91	94.43	69.08
November 12, 2007	74.66	63.96	91.26	82.23	85.25	83.48	82.64	81.97	94.81	69.39
December 3, 2007	74.05	64.22	91.57	83.10	85.11	83.12	82.50	81.93	94.82	71.80
January 24, 2008	74.02	63.72	90.97	82.62	84.64	83.22	82.57	81.95	94.43	69.07
February 18, 2008	74.45	63.76	91.72	83.30	84.73	83.09	82.49	82.45	94.82	69.07
March 8, 2008	74.21	63.72	91.67	83.25	84.68	83.02	82.49	81.97	94.93	69.10
April 16, 2008	74.30	63.64	91.64	83.17	84.55	83.04	82.43	81.84	94.95	69.13
May 22, 2008	75.67	66.72	93.21	84.40	84.97	83.46	82.87	82.52	92.32	69.19
June 12, 2008	76.23	66.07	93.12	83.32	85.75	84.24	83.62	83.02	94.88	69.68
July 21, 2008	75.59	66.27	93.33	83.60	85.97	84.51	83.80	83.02	94.77	69.43
August 19, 2008	74.92	65.53	92.48	82.85	86.44	84.40	83.67	82.82	95.03	69.69
September 18, 2008	74.53	64.86	92.15	82.79	86.00	84.05	83.22	82.41	94.62	69.39
October 8, 2008	74.86	64.64	92.05	82.87	85.93	84.01	83.24	82.40	95.33	69.59
November 14, 2008	74.47	64.15	91.66	83.02	85.47	82.99	82.80	82.02	95.08	69.29
December 9, 2008	73.44	63.99	91.57	82.81	85.28	83.48	82.69	81.93	94.93	69.09
January 9, 2009	73.26	63.82	91.55	82.80	85.26	83.05	82.41	81.77	95.13	69.39
February 7, 2009	73.38	63.50	91.47	82.82	85.23	83.02	82.32	81.50	95.18	69.44
March 19, 2009	72.33	63.16	91.24	82.75	84.60	82.66	81.98	81.18	95.08	69.41
April 7, 2009	71.53	63.05	91.12	82.65	84.52	82.62	81.91	80.98	94.92	69.31
May 6, 2009	72.83	63.18	91.22	82.76	84.63	82.62	81.96	81.38	94.94	69.29
June 11, 2009	73.34	63.32	92.06	83.28	84.80	83.05	82.30	81.83	94.66	69.04
July 14, 2009	73.66	63.66	92.39	83.70	85.11	83.40	82.74	82.15	94.93	69.28
August 12, 2009	73.31	63.57	92.28	83.47	85.01	83.45	82.67	81.83	95.13	69.48
September 2, 2009	73.16	63.72	91.71	82.55	85.27	83.30	82.52	81.63	95.23	69.58

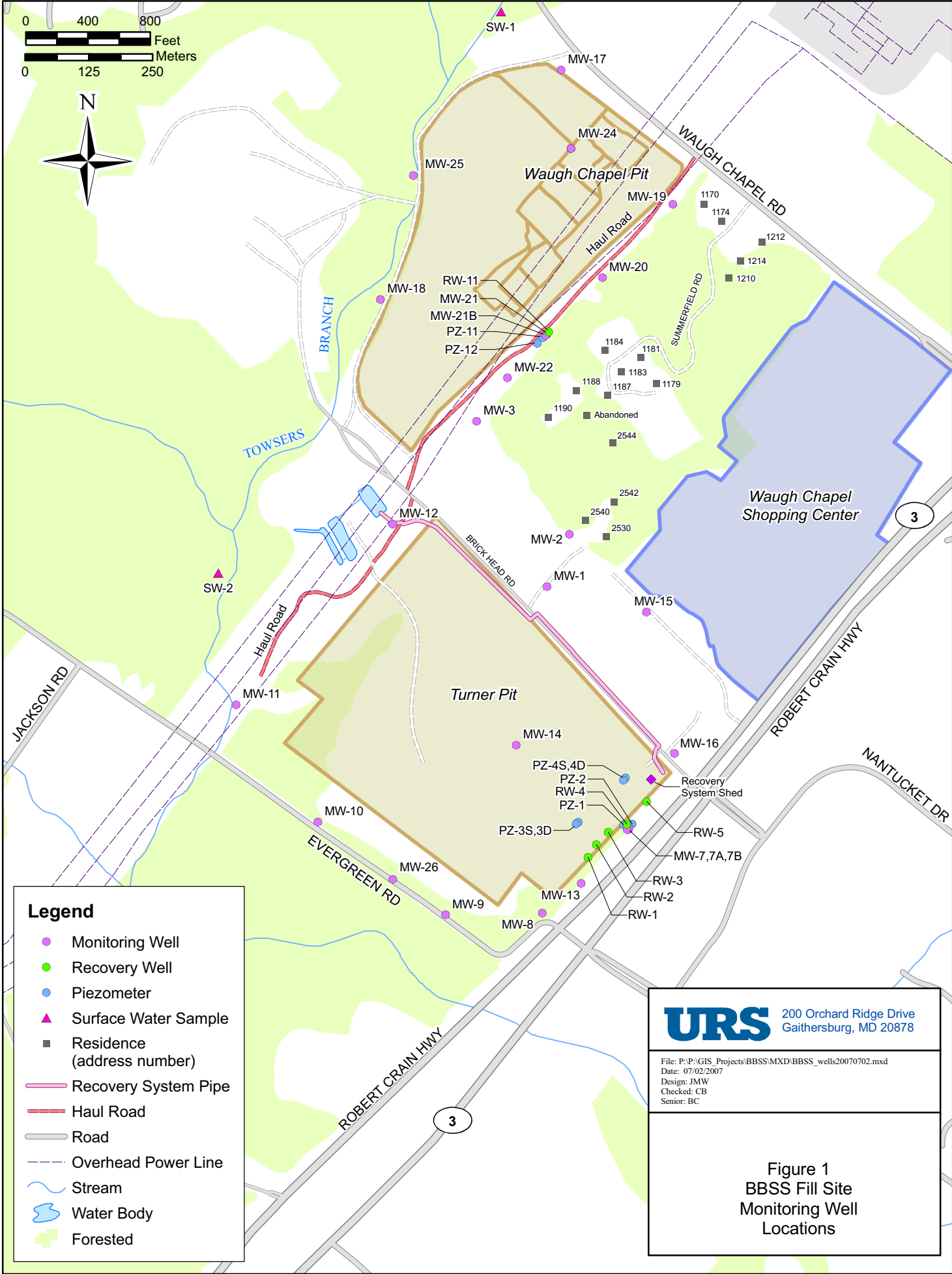
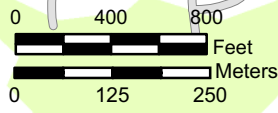
TABLE 2 (Continued)
Groundwater & Surface Water Elevations
BBSS Fill Site

	MW-24	MW-25	MW-26
January 15, 2007	104.34	90.55	66.81
February 28, 2007	103.81	89.87	66.24
March 15, 2007	104.04	90.50	66.40
April 24, 2007	104.24	90.84	66.87
May 18, 2007	104.15	90.39	67.55
June 18, 2007	103.96	90.20	67.60
July 25, 2007	103.79	89.92	66.92
August 20, 2007	103.78	89.82	66.62
September 17, 2007	103.71	89.73	65.72
October 18, 2007	103.54	89.54	65.02
November 12, 2007	103.62	89.31	65.81
December 3, 2007	103.61	90.20	64.15
January 24, 2008	103.88	89.84	64.32
February 18, 2008	103.62	90.23	64.30
March 8, 2008	103.62	90.19	64.33
April 16, 2008	103.04	90.12	64.21
May 19, 2008	103.95		64.48
May 22, 2008	104.00	90.95	65.28
June 12, 2008	104.19	90.37	66.95
July 21, 2008	103.98	90.52	67.22
August 19, 2008	103.60	90.14	66.73
September 18, 2008	103.66	90.16	65.87
October 15, 2008	103.72	90.21	65.74
November 14, 2008	103.78	89.91	64.22
December 9, 2008	103.64	89.78	64.68
January 9, 2009	103.51	89.74	64.50
February 7, 2009	103.86	89.72	64.37
March 19, 2009	103.54	89.61	64.00
April 7, 2009	103.71	89.45	63.89
May 6, 2009	103.89	89.60	64.00
June 11, 2009	104.04	90.38	64.57
July 14, 2009	104.06	90.50	65.29
August 12, 2009	103.95	90.37	65.12
September 2, 2009	103.90	89.52	64.83

TABLE 2 (Continued)
Groundwater & Surface Water Elevations
BBSS Fill Site

Date	RW-1	RW-2	RW-3	RW-4	RW-5	PZ3S*	PZ4S*	PZ3D*	PZ4D*
March 8, 2006	55.46	59.37	59.06	59.76	60.80	63.47	64.65	63.61	64.01
April 26, 2006	54.52	62.64	58.46	58.98	63.71	63.39	64.91	63.39	64.30
May 30, 2006	54.29	60.39	58.51	58.25	59.72	63.39	64.52	63.07	64.01
June 12, 2006	54.07	61.96	62.11	58.89	59.67	63.28	64.44	62.94	63.92
July 26, 2006	55.06	59.19	58.01	58.49	62.97	63.73	64.93	63.32	64.30
August 30, 2006	54.07	57.83	57.71	57.80	59.10	63.21	64.72	62.67	62.63
September 22, 2006	54.28	58.04	57.66	57.85	59.17	63.13	65.71	62.73	63.01
October 24, 2006	54.36	58.43	58.50	58.30	59.72	61.22	63.89	63.22	62.03
November 28, 2006	54.76	58.54	58.60	57.40	59.77	61.91	64.40	62.61	62.48
December 1, 2006	55.02	58.54	58.61	58.50	59.84	62.67	63.55	62.57	63.28
January 15, 2007	54.54	58.52	57.88	58.10	59.57	62.66	63.71	62.40	63.03
February 28, 2007	54.57	58.19	58.11	58.15	59.54	62.27	63.60	64.77	62.68
March 26, 2007	54.32	58.24	58.21	58.30	59.62	62.53	63.71	64.86	62.74
May 18, 2007	54.37	58.24	58.46	58.55	59.72	62.12	63.68	64.50	62.78
June 18, 2007	54.67	57.86	57.96	58.42	59.82	62.32	63.86	64.70	63.02
July 25, 2007	54.52	57.78	57.89	58.35	59.43	62.02	63.41	64.41	62.64
August 20, 2007	51.49	57.84	57.81	58.40	59.47	61.57	62.51	61.82	62.35
September 17, 2007	51.25	57.49	57.39	57.49	58.91	61.52	62.46	61.74	62.28
October 18, 2007	50.92	57.34	57.21	57.30	58.89	61.37	62.27	61.57	62.12
November 12, 2007	51.07	57.31	57.19	57.29	58.84	62.02	62.71	62.19	62.62
December 3, 2007	50.82	57.79	56.99	57.09	58.72	61.82	62.58	62.09	62.49
January 24, 2008	50.77	57.76	56.91	57.05	58.69	61.79	62.56	62.04	62.45
February 18, 2008	50.72	57.74	56.90	57.02	58.61	61.71	62.50	62.00	62.42
March 8, 2008	50.78	57.76	56.76	57.10	58.62	61.74	62.50	62.02	62.44
April 16, 2008	50.74	57.77	56.79	57.10	58.63		62.50		62.44
May 22, 2008	49.79	57.42	57.61	57.90	62.68		64.01		63.31
June 12, 2008	49.77	57.39	57.61	57.89	62.66		63.76		63.51
July 21, 2008	51.35	58.04	58.23	57.96	59.72		63.24		62.63
August 19, 2008	51.07	57.44	57.83	57.60	59.32		62.45		62.65
September 18, 2008	50.85	57.36	57.72	57.90	59.16		62.36		62.54
October 8, 2008	50.82	57.35	57.61	57.82	59.09		62.33		62.50
November 15, 2008	50.77	57.64	57.36	57.90	59.08				
December 9, 2008	50.79	57.69	57.41	57.89	59.11				
January 9, 2009	50.76	57.65	57.31	57.80	59.01				
February 7, 2009	50.72	57.62	57.29	57.75	58.99				
March 19, 2009	50.67	57.64	57.13	57.70	58.87				
April 7, 2009	50.68	57.66	57.15	57.70	58.86				
May 6, 2009	50.71	57.69	57.22	57.80	58.92				
June 11, 2009	50.57	57.53	57.21	57.78	58.91				
July 14, 2009	50.59	57.56	57.26	57.85	58.94				
August 12, 2009	50.52	57.51	57.21	57.80	58.87				
September 2, 2009	50.61	57.54	57.26	57.52	58.92				

* Monitoring well MW-14 and Piezometers PZ3S,D and PZ4S,D abandoned in October/November 08



Legend

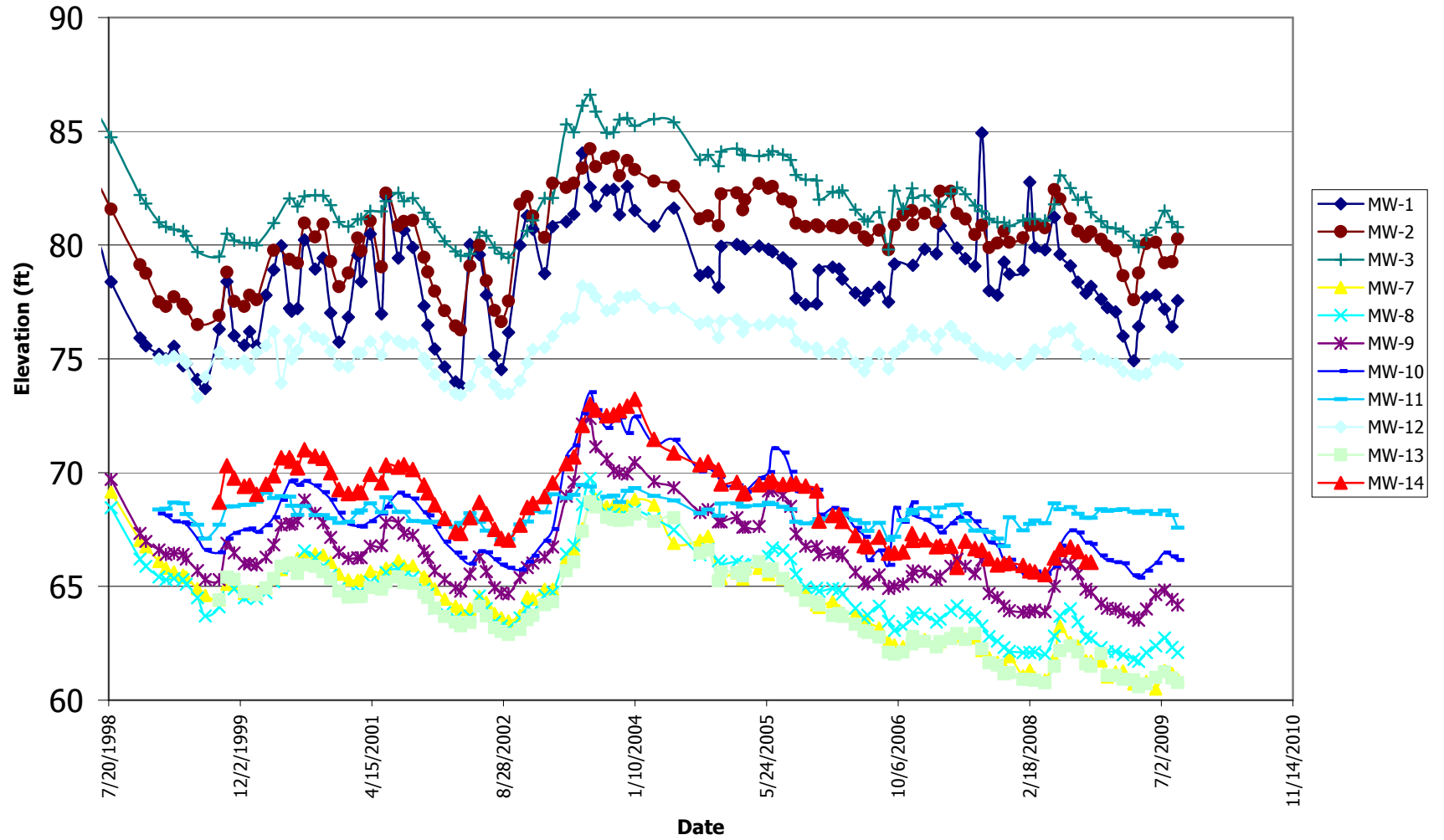
- Monitoring Well
- Recovery Well
- Piezometer
- ▲ Surface Water Sample
- Residence (address number)
- Recovery System Pipe
- Haul Road
- Road
- - - Overhead Power Line
- ~ Stream
- Water Body
- + Forested

URS 200 Orchard Ridge Drive
Gaithersburg, MD 20878

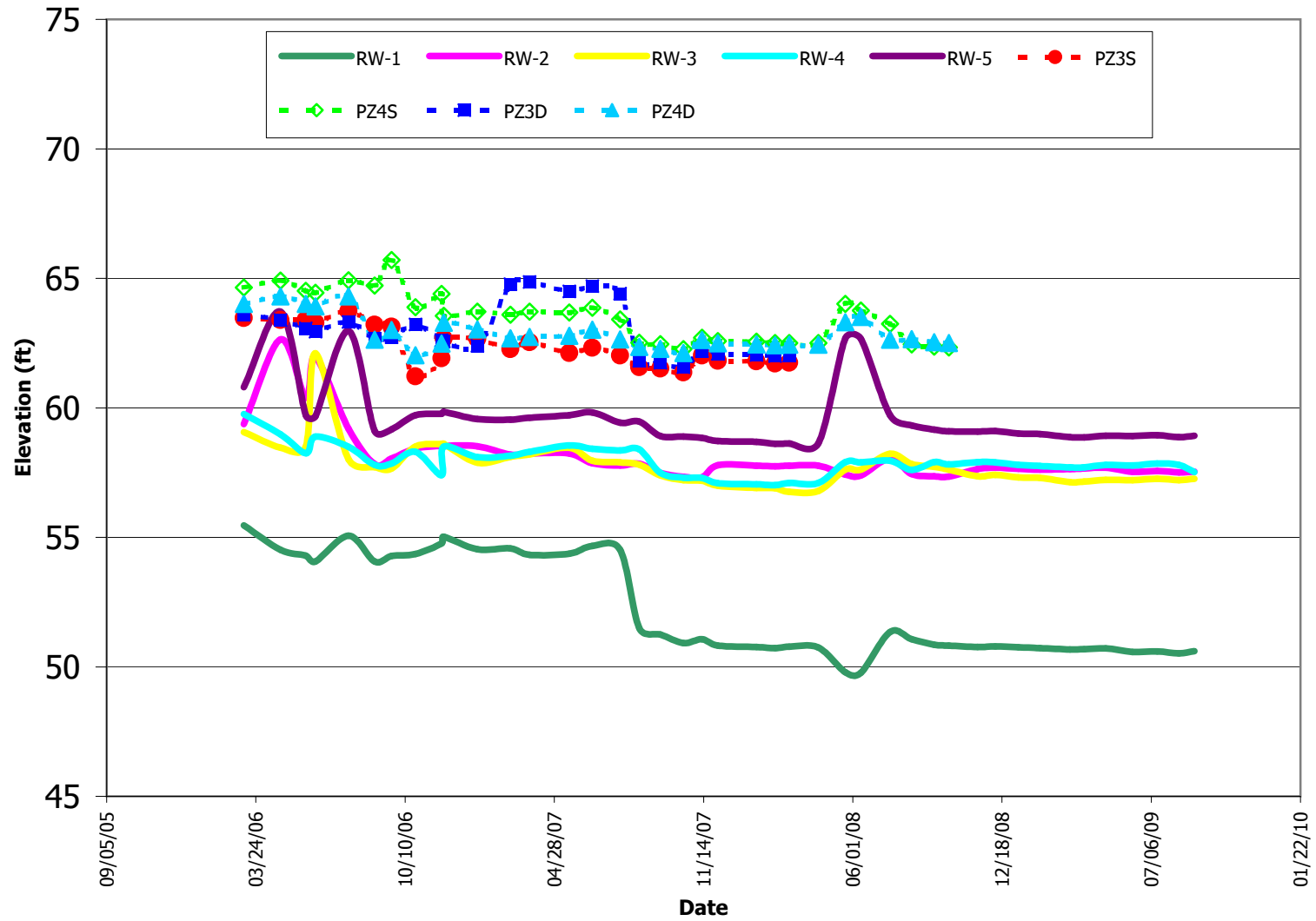
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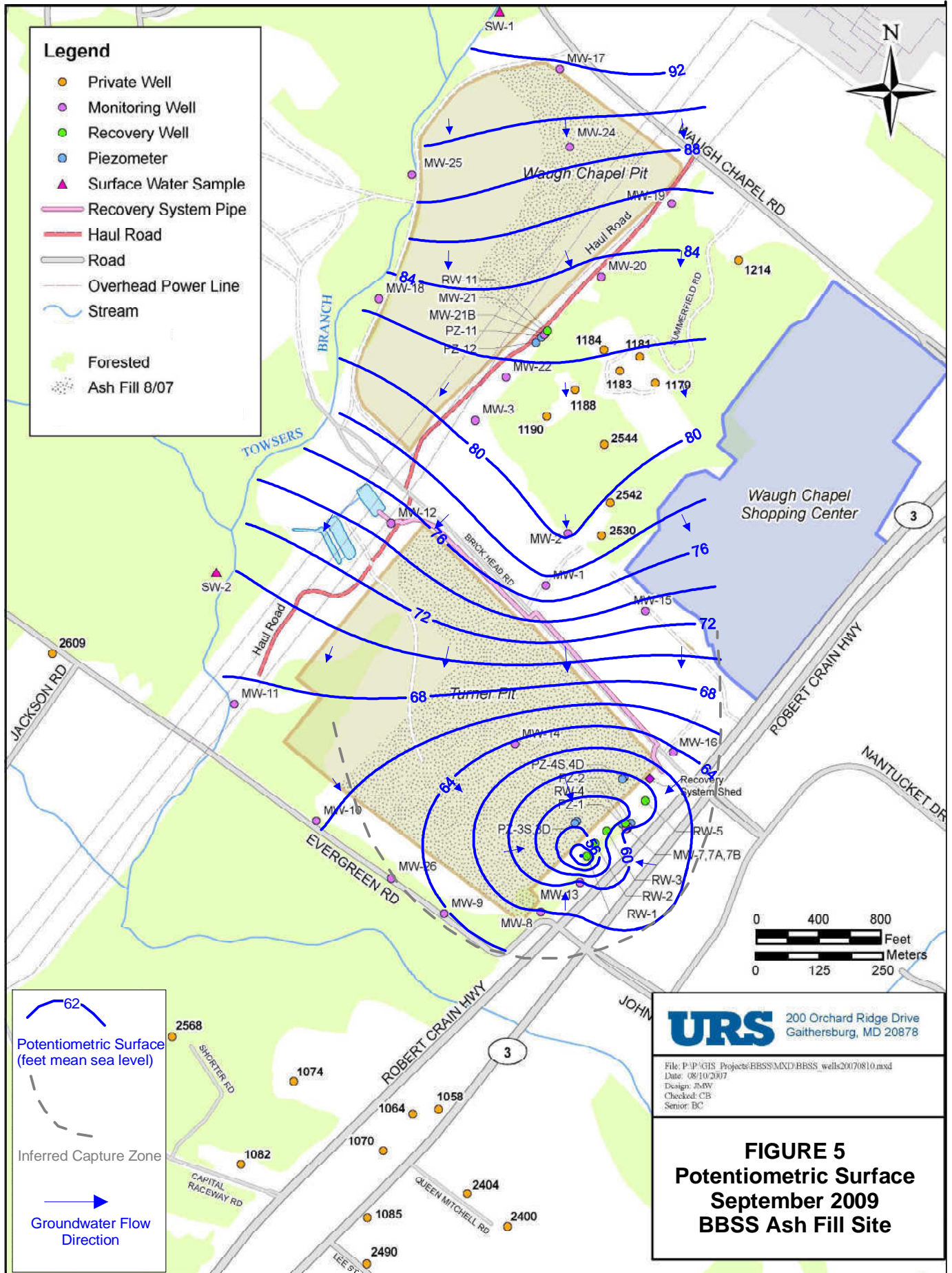
Figure 1
BBSS Fill Site
Monitoring Well
Locations

FIGURE 2
GROUNDWATER ELEVATIONS
BBSS FILL SITE



**FIGURE 4
GROUNDWATER ELEVATIONS
BBSS FILL SITE**





- Legend**
- Private Well
 - Monitoring Well
 - Recovery Well
 - Piezometer
 - ▲ Surface Water Sample
 - Recovery System Pipe
 - Haul Road
 - Road
 - Overhead Power Line
 - Stream
 - Forested
 - Ash Fill 8/07

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Potentiometric Surface
(feet mean sea level)

--- Inferred Capture Zone

→ Groundwater Flow Direction

URS 200 Orchard Ridge Drive
Gaithersburg, MD 20878

File: P:\P\GIS Projects\BBSS\MXD\BBSS_wells20070810.mxd
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Design: JMW
Checked: CB
Senior: BC

FIGURE 5
Potentiometric Surface
September 2009
BBSS Ash Fill Site



August 26, 2009

Constellation Power Source Generation, Inc.
1005 Brandon Shores Road
Baltimore, Maryland 21226

Attn: Mr. Jack E. Murosko

Re: Monitoring Report
August Event
BBSS Ash Fill Site

Dear Mr. Murosko:

Based on the July 2009 resampling results, wells where analytes exceeded site action levels were resampled on a monthly basis as required by the Pollution Prevention Plan for the site. A list of these wells is presented below. Additionally, downgradient perimeter wells (MW-1, MW-2, MW-8, MW-9, MW-10, MW-13, MW-15 and MW-26) were sampled in response to an MDE request. Additionally, all recovery wells are sampled on a monthly basis.

MW-1	MW-9	MW-21*	RW-2
MW-2	MW-10	MW-22*	RW-3
MW-3*	MW-13*	MW-24	RW-4
MW-7*	MW-15	MW-26	RW-5
MW-8	MW-20*	RW-1	

* indicates exceedance of site action level(s)

Monitoring well data are attached. Please contact us with any questions concerning the data presented.

Sincerely,

URS

Christopher Beza, P.G.
Project Manager

Enclosures

cc: Ms. Barbara Cook – GeoEnvironmental Group, LLC
Mr. Rob Scrivener – Reliable



August 13, 2009

Constellation Power Source Generation, Inc.
1005 Brandon Shores Road
Baltimore, Maryland 21226

Attn: Mr. Jack E. Murosko

Re: Monitoring Report
July Event
BBSS Ash Fill Site

Dear Mr. Murosko:

Based on the July 2009 sampling results, wells where analytes exceeded site action levels were resampled on a monthly basis as required by the Pollution Prevention Plan for the site. A list of these wells is presented below. Additionally, downgradient perimeter wells (MW-1, MW-2, MW-8, MW-9, MW-10, MW-13, MW-15 and MW-26) were sampled in response to an MDE request. Additionally, all recovery wells are sampled on a monthly basis.

MW-1	MW-9	MW-21*	RW-2
MW-2	MW-10	MW-22*	RW-3
MW-3*	MW-13*	MW-24	RW-4
MW-7*	MW-15	MW-26	RW-5
MW-8	MW-20*	RW-1	

* indicates exceedance of site action level(s)

Monitoring well data are attached. Please contact us with any questions concerning the data presented.

Sincerely,

URS

Christopher Beza, P.G.
Project Manager

Enclosures

cc: Ms. Barbara Cook – GeoEnvironmental Group, LLC
Mr. Rob Scrivener – Reliable