



August 16, 2018

Scott Miller
Remedial Project Manager
Superfund Remedial Branch, Section C
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street SW
Atlanta, GA 30303-8909

VIA EMAIL

Subject: **July 2018 Monthly Progress Report**

Dear Mr. Miller:

On behalf of Beazer East, Inc. (Beazer), attached is the July 2018 Monthly Progress Report for the Koppers portion of the Cabot/Koppers Superfund Site in Gainesville, Florida. If you have any questions or comments, please contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Gregory W. Council'.

Gregory W. Council, P.E.
Principal Engineer

cc: Tracie Vaught, FDEP
Rusty Kestle, USEPA
Robin Hallbourg, ACEPD
Agustin (Gus) Olmos, ACEPD
Kristie Williams, City of Gainesville
Yvette Carter, City of Gainesville
Rick Hutton, GRU
Carrie McCoy, Black & Veatch
John Herbert, GeoHydro Consultants
Patricia Cline, Community Technical Advisor
Linda Paul, Koppers, Inc.
Mitchell Brouman, TRMI
Mike Slenska, TRMI
Donna Kopach, TRMI
Jim Erickson, Tetra Tech
Wayne Reiber, Cabot Corporation
Steve Clark, FTS
John Helton, FTS
Bryan Cotter, Water and Air Research, Community Technical Advisor
Mark Taylor, Weston Solutions

TETRA TECH

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**JULY 2018
MONTHLY PROGRESS REPORT
Cabot/Koppers Superfund Site
Gainesville, Florida**

1. Compliance Actions:

- Beazer's Operation and Maintenance (O&M) Contractor performed routine treatment plant O&M services for the groundwater extraction and pretreatment system.
- Remedial Design and Remedial Action activities are presently being conducted.

2. Sampling/Test Results and Data:

- Instantaneous flow rates and totalizer volumes were measured in each extraction well.
- The bi-weekly passive NAPL recovery program continues at Upper Hawthorn monitoring wells and temporary injection points (TIPs) installed as part of the In-Situ Geochemical Stabilization (ISGS) program. Two NAPL recovery events were conducted during the month for the monitoring wells and two were conducted for the TIPs.
- Table 1 provides DNAPL collection data for wells at the Former North Lagoon and Drip Track. The only monitored TIP outside the Former Process Area and Former South Lagoon is at the Drip Track (Table 1). Process Area and South Lagoon recovery data will be included in forthcoming performance monitoring submittals.
- A total of 3,907,203 gallons of groundwater were recovered by the Surficial Aquifer drains and extraction well system (both Surficial Aquifer and UFA) during the past month (system run time of 720 hours). The average recovery rate for the month was approximately 90.4 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 574,643 gallons
 - Former North Lagoon Drain: 466,030 gallons
 - Former Drip Track Drain: 493,000 gallons
 - Former Process Area Drain: 355,860 gallons
 - Former South Lagoon Drain: 474,690 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 23,917 gallons
 - FW-21B: 170,125 gallons
 - FW-31BE: 923,760 gallons
 - FW-32BE: 425,178 gallons

Approximately 445.9 million gallons have been recovered from the Surficial Aquifer extraction wells and four drains since the start of the Surficial Aquifer containment system in January 1995.

For the month, the total volume of water treated and discharged to the GRU wastewater system was measured to be 2,464,000 gallons. A portion of the water, from Upper Floridan Aquifer wells, was treated and used for on-Property irrigation.

The Former Process Area groundwater drain pump was turned off for approximately 5 hours to pump and clean clarifiers and to treat backwash water. The Former South Lagoon pump was turned off due to ISGS injections and was restarted in July.

3. Plans, Reports, Deliverables and Procedures Completed:

- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) July 24, 2018.
- Periodic maintenance checks and inspections.
- Treatment-plant component maintenance and repair as needed (caustic pump, carbon vessel gaskets and gauges, sludge pump diverter valve, bag filter vessel). Jetted clarifier lines, repaired plant pH meter, flushed chemical lines, cleaned flow meters, and repaired plant air lines.
- Sampled Irrigation breakthrough water July 30, 2018.
- Sampled Stormwater rinsate on July 2, 2018.
- Sampled Carbon breakthrough July 19, 2018.
- Repaired FW-6 compressor motor.
- Upgraded FW-6 well house ventilation including new vent fan.
- Investigated fire hydrant operations.
- Relocated radio and NEMA box and re-wire outfall sensor.
- Replaced Former Process trench pump head.
- On-property irrigation using treated groundwater from FW-21B, FW-31BE, and FW-32BE. South Lagoon ISGS treatment completed July 1.

4. Upcoming Actions:

- Third quarter sampling event August 13-17, 2018.
- NAPL collection at Upper Hawthorn monitoring wells: bi-weekly.
- NAPL collection at temporary Upper Hawthorn ISGS injection points: bi-weekly.
- Routine inspection, operation, maintenance, and monitoring.
- Submittal of Pre-Final Design for Design Track 2.

5. Schedule Status:

- Minor modifications were made to the project schedule.

6. Community Involvement:

- Future community involvement activities will be coordinated with EPA.

Table 1. DNAPL recovery volume (gal) at wells and at Drip Track TIP: July 2018

Date	Well	Volume (gal)
7/6/2018	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.4
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
7/19/2018	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.4
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
7/10/2018	Drip Track	0.6
7/24/2018	Drip Track	0.5

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2012		2013		2014		2015		2016		2017		2018		2019		2020		2021	
							H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
1	1	Consent Decree for RD/RA	23.8 wks		Thu 2/7/13	Wed 7/24/13																				
2	1.1	US DOJ Lodges Donsent Decree with Court	0 days		Thu 2/7/13	Thu 2/7/13																				
3	1.2	Public Comment on Consent Decree	4.6 wks		Wed 2/13/13	Fri 3/15/13																				
4	1.3	Beazer Submittal: Project Coordinators, Supervising Contractor, Quality Management Plan	0 days		Fri 2/15/13	Fri 2/15/13																				
5	1.4	Court Enters Consent Decree Final	0 days		Tue 7/9/13	Tue 7/9/13																				
6	1.5	EPA Issues Authorization to Proceed with Remedial Design	0 days		Wed 7/24/13	Wed 7/24/13																				
7																										
8	2	Remedial Design Work Plan (RDWP)	22.3 wks		Wed 7/24/13	Thu 12/26/13																				
9	2.1	Prepare RDWP	43 days	6	Wed 7/24/13	Fri 9/20/13																				
10	2.2	Beazer Submit RDWP	0 wks	9	Fri 9/20/13	Fri 9/20/13																				
11	2.3	EPA Review and Comment RDWP	6.8 wks	10	Mon 9/23/13	Thu 11/7/13																				
12	2.4	Beazer Respond to Comments	4.3 wks	11	Fri 11/8/13	Mon 12/9/13																				
13	2.5	Beazer Submit Responses and RDWP Version 2	0 wks	12	Mon 12/9/13	Mon 12/9/13																				
14	2.6	EPA Review	2.6 wks	13	Mon 12/9/13	Thu 12/26/13																				
15	2.7	EPA Approval RDWP	0 wks	14	Thu 12/26/13	Thu 12/26/13																				
16																										
17	3	Supporting Plans for RD/RA	100.8 wks		Fri 9/20/13	Thu 8/27/15																				
18	3.5	Beazer Submit Health & Safety Plan	0 wks	10	Fri 9/20/13	Fri 9/20/13																				
19	3.2	Materials Management Plan	5 wks	10	Tue 4/1/14	Mon 5/5/14																				
20	3.6	Stormwater Management Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/14																				
21	3.7	Noise and Dust Control Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/14																				
22	3.5	Equipment Decontamination Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/14																				
23	3.6	Beazer update QAPP	33.8 wks		Mon 1/5/15	Thu 8/27/15																				
24	3.7	Beazer Submit Revised QAPP	0 wks	23	Thu 8/27/15	Thu 8/27/15																				
25																										
26	4	Off-Property Soil Replacement (OU-5): DESIGN TRACK #1	121.4 wks		Tue 4/30/13	Thu 8/27/15																				
27	4.1	Initial Identification of Remediation & Evaluation Parcels	0 wks		Tue 4/30/13	Tue 4/30/13																				
28	4.2	Obtain Access Agreements for Surveys & Sampling	23 wks		Thu 5/2/13	Wed 10/9/13																				
29	4.3	Community Information Session	0 wks		Thu 5/30/13	Thu 5/30/13																				
30	4.4	Sampling for Refinement of Remediation Parcels (July 2013)	18.8 wks		Fri 7/19/13	Wed 11/27/13																				
31	4.4.1	Proposal for Sampling (July 2013)	0 wks		Fri 7/19/13	Fri 7/19/13																				
32	4.4.2	EPA Approval of Sampling	0 wks		Mon 7/22/13	Mon 7/22/13																				
33	4.4.3	Sample Collection	2 days		Tue 7/30/13	Wed 7/31/13																				
34	4.4.4	Analysis and Validation	6.2 wks	33	Thu 8/1/13	Thu 9/12/13																				
35	4.4.5	Data Summary Report	10.8 wks	34	Fri 9/13/13	Wed 11/27/13																				
36	4.4.6	Beazer Submit Data Summary and Fingerprinting Repor	0 wks	35	Wed 11/27/13	Wed 11/27/13																				
37	4.5	Pilot Home Soil Replacement	10.3 wks		Thu 9/26/13	Fri 12/6/13																				
38	4.5.1	Survey	1.8 wks		Thu 9/26/13	Tue 10/8/13																				
39	4.5.2	Design & Interview	3 wks	38	Wed 10/9/13	Tue 10/29/13																				
40	4.5.3	Borrow Sampling	2 wks		Thu 10/10/13	Wed 10/23/13																				
41	4.5.4	Sample Analysis	2 wks	40	Thu 10/24/13	Wed 11/6/13																				
42	4.5.5	Pilot Plan	6 wks		Thu 9/26/13	Wed 11/6/13																				
43	4.5.6	Submit Pilot Plan	0 wks	42,41	Wed 11/6/13	Wed 11/6/13																				
44	4.5.7	Review	1 wk	43	Thu 11/7/13	Wed 11/13/13																				
45	4.5.8	EPA Approval of Pilot Plan	0 wks	44	Wed 11/13/13	Wed 11/13/13																				
46	4.5.9	Permitting	2 wks	45FF	Thu 10/31/13	Wed 11/13/13																				
47	4.5.10	Pilot Implementation	3.3 wks	46,45	Thu 11/14/13	Fri 12/6/13																				
48	4.6	Blocks A-I Remediation Design	42.4 wks		Mon 9/16/13	Tue 7/8/14																				
49	4.6.1	Remedial Design Details	12.4 wks	35	Thu 11/28/13	Fri 2/21/14																				
50	4.6.2	Submit RD Details	0 wks	49	Fri 2/21/14	Fri 2/21/14																				
51	4.6.3	Review and Comment	0.8 wks	50	Mon 2/24/14	Thu 2/27/14																				
52	4.6.4	Surveying & Interviews	34 wks		Mon 9/16/13	Fri 5/9/14																				
53	4.6.5	Parcel Designs & Remediation Agreements	28 wks		Mon 12/2/13	Fri 6/13/14																				

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		H1
							H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
54	4.6.6	Final Design and RAWP	19.6 wks		Fri 2/21/14	Tue 7/8/14																					
55	4.6.6.1	Submit Pre-Final Designs & RAWP: Blocks G & H	0 wks		Fri 2/21/14	Fri 2/21/14																					
56	4.6.6.2	Final Design and RAWP Approval: Blocks G-H	1 wk	55	Fri 2/21/14	Thu 2/27/14																					
57	4.6.6.3	Submit Pre-Final Designs & RAWP: Blocks E&F	0 wks		Fri 3/7/14	Fri 3/7/14																					
58	4.6.6.4	Final Design and RAWP Approval: Blocks E&F	1 day	57	Fri 3/7/14	Fri 3/7/14																					
59	4.6.6.5	Submit Pre-Final Designs & RAWP: Block D	0 wks		Thu 4/3/14	Thu 4/3/14																					
60	4.6.6.6	Final Design and RAWP Approval: Block D	2 days	59	Thu 4/3/14	Fri 4/4/14																					
61	4.6.6.7	Submit Pre-Final Designs & RAWP: Block C	0 wks	59FF+4 wks	Wed 4/30/14	Wed 4/30/14																					
62	4.6.6.8	Final Design and RAWP Approval: Block C	0 wks	61	Wed 4/30/14	Wed 4/30/14																					
63	4.6.6.9	Submit Pre-Final Designs & RAWP: Block B	0 wks	61FF+3.1 wk	Thu 5/22/14	Thu 5/22/14																					
64	6.6.10	Final Design and RAWP Approval: Block B	0.6 wks	63	Thu 5/22/14	Tue 5/27/14																					
65	6.6.11	Submit Pre-Final Designs & RAWP: Block A	0 wks	63FF+3 wks	Thu 6/12/14	Thu 6/12/14																					
66	6.6.12	Final Design and RAWP Approval: Block A	0.6 wks	65	Thu 6/12/14	Tue 6/17/14																					
67	6.6.13	Submit Pre-Final Designs & RAWP: Block I	0 wks	65FF+3.5 wk	Mon 7/7/14	Mon 7/7/14																					
68	6.6.14	Final Design and RAWP Approval: Block I	0.2 wks	67	Tue 7/8/14	Tue 7/8/14																					
69	4.7	Sampling for Refinement of Remediation Parcels (Feb 2014)	24.8 wks		Wed 2/19/14	Tue 8/12/14																					
70	4.7.1	Beazer & EPA Sampling	0.2 wks		Wed 2/19/14	Wed 2/19/14																					
71	4.7.2	Analysis and Validation	7.2 wks	70	Thu 2/20/14	Thu 4/10/14																					
72	4.7.3	Data Summary Report Addendum	16 wks	71	Fri 4/11/14	Thu 7/31/14																					
73	4.7.4	Beazer Submit Report Addendum	0 wks	72	Thu 7/31/14	Thu 7/31/14																					
74	4.7.5	Call to discuss Report Addendum	0 wks	73	Tue 8/12/14	Tue 8/12/14																					
75	4.8	Blocks J & K Remediation Design	12.2 wks		Mon 6/2/14	Mon 8/25/14																					
76	4.8.1	Access Agreements for Design	2 wks		Mon 6/2/14	Fri 6/13/14																					
77	4.8.2	Surveying & Interviews	5 wks	76	Mon 6/16/14	Fri 7/18/14																					
78	4.8.3	Preliminary Design	5 wks	77SS+1 wk	Mon 6/23/14	Fri 7/25/14																					
79	4.8.4	Pre-Final Design and Access	7 wks	78SS+1 wk	Mon 6/30/14	Fri 8/15/14																					
80	4.8.5	RAWP: Block J	0 wks		Fri 7/25/14	Fri 7/25/14																					
81	4.8.6	Final Design & RAWP Approval: Block J	1 wk	80	Fri 7/25/14	Thu 7/31/14																					
82	4.8.7	RAWP: Block K	0 days	79	Wed 8/20/14	Wed 8/20/14																					
83	4.8.8	Final Design and RAWP Approval: Block K	4 days	82	Wed 8/20/14	Mon 8/25/14																					
84	4.9	Community Meetings	16.4 wks		Fri 10/25/13	Tue 2/18/14																					
85	4.9.1	Community Meeting: Landscaping Workshop - City (Oct	2 days		Fri 10/25/13	Mon 10/28/13																					
86	4.9.2	Community Meeting (Jan 18 2014)	2 days		Fri 1/17/14	Mon 1/20/14																					
87	4.9.3	Community Meeting (Feb 18 2014)	0 wks		Tue 2/18/14	Tue 2/18/14																					
88	4.10	Implementation of Remedial Action	39 wks		Mon 2/17/14	Fri 11/14/14																					
89	4.11	Pre-Final Inspection	0 wks	88	Tue 11/18/14	Tue 11/18/14																					
90	4.12	Prepare Implementation Report	36.4 wks	88	Mon 11/17/14	Tue 7/28/15																					
91	4.13	Submit Implementation Report	0 wks	90	Tue 7/28/15	Tue 7/28/15																					
92	4.14	EPA Approval of Implementation Report	0 wks		Thu 8/27/15	Thu 8/27/15																					
93																											
94	5	Cutoff Wall and Stormwater Controls: DESIGN TRACK #2	204.5 wks		Wed 12/17/14	Thu 11/15/18																					
95	5.1	Pre-Design Work Plan	21.2 wks	15	Wed 12/17/14	Wed 5/13/15																					
96	5.2	Submit Pre-Design Work Plan	0 wks	95	Wed 5/13/15	Wed 5/13/15																					
97	5.3	Review and Comment	10 wks	96	Thu 5/14/15	Wed 7/22/15																					
98	5.4	Submit Response to Comments and Revised Plan	0 wks	97FS+5.2 wk	Thu 8/27/15	Thu 8/27/15																					
99	5.5	EPA Approval of Pre-Design Work Plan	0 wks	98FS+0.2 wk	Fri 8/28/15	Fri 8/28/15																					
100	5.6	Pre-Design Investigation	38 wks		Mon 8/31/15	Fri 5/20/16																					
101	5.6.1	Planning & Preparation	4 wks	99	Mon 8/31/15	Fri 9/25/15																					
102	5.6.2	Field Work	11 wks	101	Mon 9/28/15	Fri 12/11/15																					
103	5.6.3	Lab Work	26 wks	102FS-3 wks	Mon 11/23/15	Fri 5/20/16																					
104	5.7	Preliminary Design	8.3 wks	103FS-2 wks	Mon 5/9/16	Tue 7/5/16																					
105	5.8	Submit Preliminary Design	0 wks	104	Tue 7/5/16	Tue 7/5/16																					
106	5.9	Review and Comment	24 wks	105	Tue 7/5/16	Tue 12/20/16																					

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		H1
							H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2			
107	5.10	Pre-Final Design	65.6 wks	106	Fri 5/5/17	Mon 8/6/18																					
108	5.10.1	Supplemental Design Investigation Work Plan	0 wks		Fri 5/5/17	Fri 5/5/17																					
109	5.10.2	Review and Approval	3.1 wks	108	Fri 5/5/17	Fri 5/26/17																					
110	5.10.3	Supplemental Design Borings	5 wks	109	Mon 5/29/17	Fri 6/30/17																					
111	5.10.4	Design Updates	57 wks	110	Wed 7/5/17	Mon 8/6/18																					
112	5.10.5	Submittal of Pre-Final Design	0 wks	111	Mon 8/6/18	Mon 8/6/18																					
113	5.11	Review and Comment	3.5 wks	107,112	Tue 8/7/18	Thu 8/30/18																					
114	5.12	Final Design & RAWP	8 wks	113	Thu 8/30/18	Thu 10/25/18																					
115	5.13	Review	3 wks	114	Thu 10/25/18	Thu 11/15/18																					
116	5.14	EPA Approval of Final Design & RAWP	0 wks	115	Thu 11/15/18	Thu 11/15/18																					
117																											
118	6	In-Situ Geochemical Stabilization (ISGS): DESIGN TRACK #3	333.8 wks		Thu 2/7/13	Mon 7/1/19																					
119	6.1	Process Area	333.8 wks		Thu 2/7/13	Mon 7/1/19																					
120	6.1.1	EPA Approval of ISGS Demonstration Work Plan (2012)	0 wks		Thu 2/7/13	Thu 2/7/13																					
121	6.1.2	Preliminary Design (included in Demonstration Work Pla	0 wks		Thu 2/7/13	Thu 2/7/13																					
122	6.1.3	Characterization and DNAPL Recovery (began 2012)	32 wks		Thu 2/7/13	Wed 9/18/13																					
123	6.1.4	Characterization Report and Pilot Test Plan	11.8 wks	122	Thu 9/19/13	Tue 12/10/13																					
124	6.1.5	Submit Characterization Report and Pilot Test Plan	0 wks	123	Tue 12/10/13	Tue 12/10/13																					
125	6.1.6	Review and Approval of Pilot Test Plan	10 wks	124	Wed 12/11/13	Tue 2/18/14																					
126	6.1.7	Technical Working Group Meeting	0 wks		Wed 12/18/13	Wed 12/18/13																					
127	6.1.8	Pilot Injection Testing	15 wks	125	Mon 3/17/14	Fri 6/27/14																					
128	3.1.8.1	Pre-Pilot Testing & Chemical Delivery	1 wk		Mon 3/17/14	Fri 3/21/14																					
129	3.1.8.2	Pilot Injections	3 wks	128	Mon 3/24/14	Fri 4/11/14																					
130	3.1.8.3	Borings in Injection Area	1 wk	129FS+10 wk	Mon 6/23/14	Fri 6/27/14																					
131	6.1.9	Technical Working Group Meeting	0 wks		Thu 7/10/14	Thu 7/10/14																					
132	6.1.10	Pre-Final Design	44 wks	129	Mon 4/14/14	Fri 2/13/15																					
133	6.1.11	Submit Pre-Final Design	0 wks	132	Fri 2/13/15	Fri 2/13/15																					
134	6.1.12	Review and Comment	6 wks	133	Mon 2/16/15	Fri 3/27/15																					
135	6.1.13	Final Design and RAWP	3.2 wks	134	Mon 3/30/15	Mon 4/20/15																					
136	6.1.14	Submit Final Design and RAWP	0 wks	135	Mon 4/20/15	Mon 4/20/15																					
137	6.1.15	Review	0.4 wks	136	Tue 4/21/15	Wed 4/22/15																					
138	6.1.16	EPA Approval of Final Design and RAWP	0 wks	137	Wed 4/22/15	Wed 4/22/15																					
139	6.1.17	Implementation of Process-Area ISGS Injections	12 wks	138FS+7 wks	Tue 7/7/15	Mon 9/28/15																					
140	6.1.18	Prepare Implementation Report	26.1 wks	139,177	Tue 7/3/18	Tue 1/1/19																					
141	6.1.19	Submit Implementation Report	0 wks	140	Tue 1/1/19	Tue 1/1/19																					
142	6.1.20	Post-Injection Effectiveness Monitoring	52 wks	139,177	Tue 7/3/18	Mon 7/1/19																					
143	6.1.21	Submit Phase II Performance Monitoring Report	0 wks		Mon 8/1/16	Mon 8/1/16																					
144	6.1.22	Review	20.4 wks	143	Mon 8/1/16	Tue 12/20/16																					
145	6.1.23	Submit Revised Phase II Performance Monitoring Report	0 wks	144	Tue 12/20/16	Tue 12/20/16																					
146	6.1.24	Review	7.6 wks	145	Wed 12/21/16	Fri 2/10/17																					
147	6.1.25	EPA Approval of Phase II Monitoring Report and Additional Treatment	0 wks	146	Fri 2/10/17	Fri 2/10/17																					
148	6.1.26	Follow-Up ISGS Injections	4 wks	147	Mon 2/13/17	Fri 3/10/17																					
149	6.1.27	Plan for Confirmation Borings	0 wks		Fri 8/18/17	Fri 8/18/17																					
150	6.1.28	Review and Comment	2.8 wks	149	Fri 8/18/17	Wed 9/6/17																					
151	6.1.29	Updated Plan for Confirmation Borings	0 wks	150	Wed 9/6/17	Wed 9/6/17																					
152	6.1.30	Conduct Follow-Up Borings/Testing	11 wks	151	Thu 9/7/17	Wed 11/22/17																					
153	6.1.31	Prepare Evaluation Report	5.2 wks	152	Thu 11/23/17	Thu 12/28/17																					
154	6.1.32	Submit Evaluation Report	0 wks	153	Thu 12/28/17	Thu 12/28/17																					
155																											
156	6.2	South Lagoon	224.4 wks		Mon 9/8/14	Mon 12/24/18																					
157	6.2.1	Preliminary Design & Design Investigation Work Plan	32.2 wks		Mon 9/8/14	Mon 4/20/15																					
158	6.2.2	Submit Preliminary Design & Design Investigation Work	0 wks	157	Mon 4/20/15	Mon 4/20/15																					

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2012		2013		2014		2015		2016		2017		2018		2019		2020		2021	
							H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	
159	6.2.3	Review of Preliminary Design & Design Investigation Work Plan	45 wks	158	Tue 4/21/15	Mon 2/29/16																				
160	6.2.4	Prepare Revised Preliminary Design & Design Investigation Work Plan	3.1 wks	159	Tue 3/1/16	Tue 3/22/16																				
161	6.2.5	Review and Approval of Work Plan	24.6 wks	160	Tue 3/22/16	Fri 9/9/16																				
162	6.2.6	Installation of Borings and DNAPL Recovery Wells	15.4 wks	161	Thu 4/13/17	Fri 7/28/17																				
163	3.2.6.1	Phase I Results and Plan for Additional Borings	0 wks		Thu 4/13/17	Thu 4/13/17																				
164	3.2.6.2	Review and Comment	4.8 wks	163	Thu 4/13/17	Tue 5/16/17																				
165	3.2.6.3	Revised Plan for Additional Borings	1.6 wks	164	Wed 5/17/17	Fri 5/26/17																				
166	3.2.6.4	Review and Approval	3.4 wks	165	Mon 5/29/17	Tue 6/20/17																				
167	3.2.6.5	Installation of Additional Borings	5.6 wks	166	Wed 6/21/17	Fri 7/28/17																				
168	6.2.7	Collection of Baseline Data	23 wks	162	Mon 7/31/17	Thu 1/4/18																				
169	6.2.8	Pre-Final Design	11.6 wks	162	Mon 7/31/17	Wed 10/18/17																				
170	6.2.9	Submit Pre-Final Design	0 wks	169	Wed 10/18/17	Wed 10/18/17																				
171	6.2.10	Review and Comment	13.4 wks	170	Thu 10/19/17	Thu 1/18/18																				
172	6.2.11	Final Design and RAWP	5.4 wks	171	Fri 1/19/18	Mon 2/26/18																				
173	6.2.12	Submit Final Design and RAWP	0 wks	172	Mon 2/26/18	Mon 2/26/18																				
174	6.2.13	Review	1.8 wks	173	Tue 2/27/18	Fri 3/9/18																				
175	6.2.14	EPA Approval of Final Design and RAWP	0 wks	174	Fri 3/9/18	Fri 3/9/18																				
176	6.2.15	Prepare for ISGS Injections	7 wks	175	Mon 3/12/18	Fri 4/27/18																				
177	6.2.16	Implementation of South Lagoon ISGS Injections	9.2 wks	176	Mon 4/30/18	Mon 7/2/18																				
178	6.2.17	Prepare Implementation Report	25 wks	139,177	Tue 7/3/18	Mon 12/24/18																				
179	6.2.18	Submit Implementation Report	0 wks	178	Mon 12/24/18	Mon 12/24/18																				
180																										
181	7	In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4	126 wks		Mon 8/6/18	Fri 1/1/21																				
182	7.1	Pre-Design Investigation Workplan	4 wks	15	Mon 8/6/18	Fri 8/31/18																				
183	7.2	Beazer Submit Pre-Design Investigation WP	0 wks	182	Fri 8/31/18	Fri 8/31/18																				
184	7.3	Review and Approval	2 wks	183	Mon 9/3/18	Fri 9/14/18																				
185	7.4	Conduct Pre-Design Investigation	11 wks	184	Mon 9/17/18	Fri 11/30/18																				
186	7.5	Pilot Test Workplan	12 wks	185	Mon 12/3/18	Fri 2/22/19																				
187	7.6	Beazer Submit Pilot Test Workplan	0 wks	186	Fri 2/22/19	Fri 2/22/19																				
188	7.7	Review and Approval	8 wks	187	Mon 2/25/19	Fri 4/19/19																				
189	7.8	Conduct Pilot Test	28 wks	188	Mon 4/22/19	Fri 11/1/19																				
190	7.9	Preliminary Design	12 wks	189	Mon 11/4/19	Fri 1/24/20																				
191	7.10	Submit Preliminary Design	0 wks	190	Fri 1/24/20	Fri 1/24/20																				
192	7.11	Review and Comment	10 wks	191	Mon 1/27/20	Fri 4/3/20																				
193	7.12	Pre-Final Design	12 wks	192	Mon 4/6/20	Fri 6/26/20																				
194	7.13	Review and Comment	9 wks	193	Mon 6/29/20	Fri 8/28/20																				
195	7.14	Final Design	6 wks	194	Mon 8/31/20	Fri 10/9/20																				
196	7.15	Review and Approval	4 wks	195	Mon 10/12/20	Fri 11/6/20																				
197	7.16	EPA Approval of Final Design	0 wks	196	Fri 11/6/20	Fri 11/6/20																				
198	7.17	Prepare RAWP	8 wks	197	Mon 11/9/20	Fri 1/1/21																				
199	7.18	Submit RAWP	0 wks	198	Fri 1/1/21	Fri 1/1/21																				
200																										
201	8	Other Engineered Components: DESIGN TRACK #5	57 wks		Mon 8/6/18	Fri 9/6/19																				
202	8.1	Pre-Design Work Plan	5 wks		Mon 8/6/18	Fri 9/7/18																				
203	8.2	Submit Pre-Design Work Plan	0 wks	202	Fri 9/7/18	Fri 9/7/18																				
204	8.3	Review and Approval	6 wks	203	Mon 9/10/18	Fri 10/19/18																				
205	8.4	EPA Approval of Pre-Design Work Plan	0 wks	204	Fri 10/19/18	Fri 10/19/18																				
206	8.5	Pre-Design Investigation	13 wks	205	Mon 10/22/18	Fri 1/18/19																				
207	8.6	Preliminary Design	6 wks	206	Mon 1/21/19	Fri 3/1/19																				
208	8.7	Submit Preliminary Design	0 wks	207	Fri 3/1/19	Fri 3/1/19																				
209	8.8	Review and Comment	5 wks	208	Mon 3/4/19	Fri 4/5/19																				
210	8.9	Pre-Final Design	7 wks	209	Mon 4/8/19	Fri 5/24/19																				

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2012		2013		2014		2015		2016		2017		2018		2019		2020		2021	
							H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
211	8.10	Review and Comment	3 wks	210	Mon 5/27/19	Fri 6/14/19																				
212	8.11	Final Design	3 wks	211	Mon 6/17/19	Fri 7/5/19																				
213	8.12	Review	1 wk	212	Mon 7/8/19	Fri 7/12/19																				
214	8.13	EPA Approval of Final Design	0 wks	213	Fri 7/12/19	Fri 7/12/19																				
215	8.14	Prepare RAWP	8 wks	214	Mon 7/15/19	Fri 9/6/19																				
216	8.15	Submit RAWP	0 wks	215	Fri 9/6/19	Fri 9/6/19																				
217																										
218	9	Institutional Control	318 wks		Tue 7/9/13	Fri 8/9/19																				
219	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks	5	Tue 7/9/13	Fri 8/23/13																				
220	9.2	Submit ICIAP	0 wks	219	Fri 8/23/13	Fri 8/23/13																				
221	9.3	Review	12.5 wks	220	Mon 8/26/13	Wed 11/20/13																				
222	9.4	Beazer Respond to Comments	6 wks	221	Mon 7/16/18	Fri 8/24/18																				
223	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks	222	Fri 8/24/18	Fri 8/24/18																				
224	9.6	Review	3 wks	223	Mon 8/27/18	Fri 9/14/18																				
225	9.7	EPA and FDEP Approval of ICIAP	0 wks	224	Fri 9/14/18	Fri 9/14/18																				
226	9.8	Implement Beazer-Property Restrictive Covenant	47 wks		Mon 9/17/18	Fri 8/9/19																				
227	9.8.1	Draft Proprietary Controls Package	13 wks	225	Mon 9/17/18	Fri 12/14/18																				
228	9.8.2	Submit Draft Proprietary Controls Package	0 wks	227	Fri 12/14/18	Fri 12/14/18																				
229	9.8.3	Review and Updating	8 wks	228	Mon 12/17/18	Fri 2/8/19																				
230	9.8.4	Update Title Search and Prepare Public Notice	8 wks	229	Mon 2/11/19	Fri 4/5/19																				
231	9.8.5	Beazer Publish Public Notice	0 wks	230	Fri 4/5/19	Fri 4/5/19																				
232	9.8.6	Public Comment Period	4.4 wks	231	Mon 4/8/19	Tue 5/7/19																				
233	9.8.7	Address Comments and Execute Restrictive Covenant	5 wks	232	Wed 5/8/19	Tue 6/11/19																				
234	9.8.8	Record Restrictive Covenant at Alacha County Clerk of C	0 wks	233	Tue 6/11/19	Tue 6/11/19																				
235	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks	234	Wed 6/12/19	Fri 8/9/19																				
236	9.8.10	Submit Final Proprietary Controls Package	0 wks	235	Fri 8/9/19	Fri 8/9/19																				

Red text used for current tasks

