



June 3, 2016

Rusty Kestle
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: **May 2016 Monthly Progress Report**

Dear Mr. Kestle :

On behalf of Beazer East, Inc. (Beazer), attached is the May 2016 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: Kelsey Helton, FDEP
Robin Hallbourg, ACEPD
Agustin (Gus) Olmos, ACEPD
Kristie Williams, City of Gainesville
Yvette Carter, City of Gainesville
Rick Hutton, GRU
Carrie McCoy, Black & Veatch
Josh Hayes, J.M. Waller
John Herbert, GeoHydro Consultants
Patricia Cline
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
Claire Marcussen, Skeo, Community Technical Advisor

MAY 2016
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.
- NAPL recovery was restarted in the Process Area in November following ISGS injections. The data are currently being analyzed and will be transmitted separately.
- A total of 4,146,450 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 744 hours). The average recovery rate for the month was approximately 92.9 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 560,472 gallons
 - Former North Lagoon Drain: 492,710 gallons
 - Former Drip Track Drain: 483,900 gallons
 - Former Process Area Drain: 453,950 gallons
 - Former South Lagoon Drain: 495,250 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 18,729 gallons
 - FW-21B: 139,228 gallons
 - FW-31BE: 997,060 gallons
 - FW-32BE: 505,151 gallons

Approximately 388.1 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 2,409,000 gallons. A portion of the water, from Upper Floridan Aquifer wells, was treated and used for on-Property irrigation.

The Former South Lagoon groundwater drain pumps were turned off for approximately 8 hours to pump and clean clarifiers and to treat backwash water.

3. Plans, Reports, Deliverables and Procedures Completed:

- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) May 17, 2016.
- 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).
- Irrigation Breakthrough sampling on May 25, 2016.
- Second quarter groundwater sampling on May 9 through May 13, 2016.

- Repaired EW-6 pump and cleaned EW-6 flowmeter.
- Repaired treatment plant roof.
- Shipped 3 drums PPE, 27 drums treatment sludge, and 4 drums DNAPL on May 31, 2016.
- On-property irrigation using treated groundwater from FW-6, FW-21B, FW-31BE, and FW-32BE.

4. Upcoming Actions:

- NAPL collection at Upper Hawthorn monitoring wells: bi-weekly.
- NAPL collection at temporary Upper Hawthorn ISGS injection points: bi-weekly.
- NAPL collection in Process Area: bi-weekly.
- Routine inspection, operation, maintenance, and monitoring.
- Third quarter sampling event: August 15-26, 2016.

5. Schedule Status:

- Minor modifications were made to the project schedule.

6. Community Involvement:

- Future community involvement activities will be coordinated with EPA.

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2013												2014				2015				2016				2017				2018				2019			
							Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4								
1		1 Consent Decree for RD/RA	23.8 wks		Thu 2/7/13	Wed 7/24/13	[Gantt bar from Q1 2013 to Q3 2013]																																			
2	1.1	US DOJ Lodges Donsent Decree with Court	0 days		Thu 2/7/13	Thu 2/7/13	[Milestone]																																			
3	1.2	Public Comment on Consent Decree	4.6 wks		Wed 2/13/13	Fri 3/15/13	[Gantt bar from Q1 2013 to Q1 2013]																																			
4	1.3	Beazer Submittal: Project Coordinators, Supervising Contractor, Quality Management Plan	0 days		Fri 2/15/13	Fri 2/15/13	[Milestone]																																			
5	1.4	Court Enters Consent Decree Final	0 days		Tue 7/9/13	Tue 7/9/13	[Milestone]																																			
6	1.5	EPA Issues Authorization to Proceed with Remedial Design	0 days		Wed 7/24/13	Wed 7/24/13	[Milestone]																																			
7																																										
8		2 Remedial Design Work Plan (RDWP)	22.3 wks		Wed 7/24/13	Thu 12/26/13	[Gantt bar from Q3 2013 to Q4 2013]																																			
9	2.1	Prepare RDWP	43 days	6	Wed 7/24/13	Fri 9/20/13	[Gantt bar from Q3 2013 to Q3 2013]																																			
10	2.2	Beazer Submit RDWP	0 wks	9	Fri 9/20/13	Fri 9/20/13	[Milestone]																																			
11	2.3	EPA Review and Comment RDWP	6.8 wks	10	Mon 9/23/13	Thu 11/7/13	[Gantt bar from Q3 2013 to Q4 2013]																																			
12	2.4	Beazer Respond to Comments	4.3 wks	11	Fri 11/8/13	Mon 12/9/13	[Gantt bar from Q4 2013 to Q1 2014]																																			
13	2.5	Beazer Submit Responses and RDWP Version 2	0 wks	12	Mon 12/9/13	Mon 12/9/13	[Milestone]																																			
14	2.6	EPA Review	2.6 wks	13	Mon 12/9/13	Thu 12/26/13	[Gantt bar from Q4 2013 to Q1 2014]																																			
15	2.7	EPA Approval RDWP	0 wks	14	Thu 12/26/13	Thu 12/26/13	[Milestone]																																			
16																																										
17		3 Supporting Plans for RD/RA	100.8 wks		Fri 9/20/13	Thu 8/27/15	[Gantt bar from Q3 2013 to Q4 2015]																																			
18	3.5	Beazer Submit Health & Safety Plan	0 wks	10	Fri 9/20/13	Fri 9/20/13	[Milestone]																																			
19	3.2	Materials Management Plan	5 wks	10	Tue 4/1/14	Mon 5/5/14	[Gantt bar from Q1 2014 to Q1 2014]																																			
20	3.6	Stormwater Management Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/14	[Gantt bar from Q1 2014 to Q1 2014]																																			
21	3.7	Noise and Dust Control Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/14	[Gantt bar from Q1 2014 to Q1 2014]																																			
22	3.5	Equipment Decontamination Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/14	[Gantt bar from Q1 2014 to Q1 2014]																																			
23	3.6	Beazer update QAPP	33.8 wks		Mon 1/5/15	Thu 8/27/15	[Gantt bar from Q1 2015 to Q4 2015]																																			
24	3.7	Beazer Submit Revised QAPP	0 wks	23	Thu 8/27/15	Thu 8/27/15	[Milestone]																																			
25																																										
26		4 Off-Property Soil Replacement (OU-5): DESIGN TRACK #1	121.4 wks		Tue 4/30/13	Thu 8/27/15	[Gantt bar from Q1 2013 to Q4 2015]																																			
27	4.1	Initial Identification of Remediation & Evaluation Parcels	0 wks		Tue 4/30/13	Tue 4/30/13	[Milestone]																																			
28	4.2	Obtain Access Agreements for Surveys & Sampling	23 wks		Thu 5/2/13	Wed 10/9/13	[Gantt bar from Q1 2013 to Q2 2013]																																			
29	4.3	Community Information Session	0 wks		Thu 5/30/13	Thu 5/30/13	[Milestone]																																			
30	4.4	Sampling for Refinement of Remediation Parcels (July 2013)	18.8 wks		Fri 7/19/13	Wed 11/27/13	[Gantt bar from Q3 2013 to Q4 2013]																																			
31	4.4.1	Proposal for Sampling (July 2013)	0 wks		Fri 7/19/13	Fri 7/19/13	[Milestone]																																			
32	4.4.2	EPA Approval of Sampling	0 wks		Mon 7/22/13	Mon 7/22/13	[Milestone]																																			
33	4.4.3	Sample Collection	2 days		Tue 7/30/13	Wed 7/31/13	[Gantt bar from Q3 2013 to Q3 2013]																																			
34	4.4.4	Analysis and Validation	6.2 wks	33	Thu 8/1/13	Thu 9/12/13	[Gantt bar from Q3 2013 to Q4 2013]																																			
35	4.4.5	Data Summary Report	10.8 wks	34	Fri 9/13/13	Wed 11/27/13	[Gantt bar from Q4 2013 to Q1 2014]																																			
36	4.4.6	Beazer Submit Data Summary and Fingerprinting Report	0 wks	35	Wed 11/27/13	Wed 11/27/13	[Milestone]																																			
37	4.5	Pilot Home Soil Replacement	10.3 wks		Thu 9/26/13	Fri 12/6/13	[Gantt bar from Q4 2013 to Q1 2014]																																			
38	4.5.1	Survey	1.8 wks		Thu 9/26/13	Tue 10/8/13	[Gantt bar from Q4 2013 to Q4 2013]																																			
39	4.5.2	Design & Interview	3 wks	38	Wed 10/9/13	Tue 10/29/13	[Gantt bar from Q4 2013 to Q1 2014]																																			
40	4.5.3	Borrow Sampling	2 wks		Thu 10/10/13	Wed 10/23/13	[Gantt bar from Q4 2013 to Q4 2013]																																			
41	4.5.4	Sample Analysis	2 wks	40	Thu 10/24/13	Wed 11/6/13	[Gantt bar from Q4 2013 to Q1 2014]																																			
42	4.5.5	Pilot Plan	6 wks		Thu 9/26/13	Wed 11/6/13	[Gantt bar from Q4 2013 to Q1 2014]																																			
43	4.5.6	Submit Pilot Plan	0 wks	42,41	Wed 11/6/13	Wed 11/6/13	[Milestone]																																			
44	4.5.7	Review	1 wk	43	Thu 11/7/13	Wed 11/13/13	[Gantt bar from Q4 2013 to Q1 2014]																																			
45	4.5.8	EPA Approval of Pilot Plan	0 wks	44	Wed 11/13/13	Wed 11/13/13	[Milestone]																																			
46	4.5.9	Permitting	2 wks	45FF	Thu 10/31/13	Wed 11/13/13	[Gantt bar from Q4 2013 to Q1 2014]																																			
47	4.5.10	Pilot Implementation	3.3 wks	46,45	Thu 11/14/13	Fri 12/6/13	[Gantt bar from Q4 2013 to Q1 2014]																																			
48	4.6	Blocks A-I Remediation Design	42.4 wks		Mon 9/16/13	Tue 7/8/14	[Gantt bar from Q4 2013 to Q1 2014]																																			
49	4.6.1	Remedial Design Details	12.4 wks	35	Thu 11/28/13	Fri 2/21/14	[Gantt bar from Q1 2014 to Q2 2014]																																			
50	4.6.2	Submit RD Details	0 wks	49	Fri 2/21/14	Fri 2/21/14	[Milestone]																																			
51	4.6.3	Review and Comment	0.8 wks	50	Mon 2/24/14	Thu 2/27/14	[Gantt bar from Q2 2014 to Q2 2014]																																			
52	4.6.4	Surveying & Interviews	34 wks		Mon 9/16/13	Fri 5/9/14	[Gantt bar from Q4 2013 to Q1 2014]																																			
53	4.6.5	Parcel Designs & Remediation Agreements	28 wks		Mon 12/2/13	Fri 6/13/14	[Gantt bar from Q4 2013 to Q1 2014]																																			
54	4.6.6	Final Design and RAWP	19.6 wks		Fri 2/21/14	Tue 7/8/14	[Gantt bar from Q1 2014 to Q2 2014]																																			
55	4.6.6.1	Submit Pre-Final Designs & RAWP: Blocks G & H	0 wks		Fri 2/21/14	Fri 2/21/14	[Milestone]																																			
56	4.6.6.2	Final Design and RAWP Approval: Blocks G-H	1 wk	55	Fri 2/21/14	Thu 2/27/14	[Gantt bar from Q2 2014 to Q2 2014]																																			
57	4.6.6.3	Submit Pre-Final Designs & RAWP: Blocks E&F	0 wks		Fri 3/7/14	Fri 3/7/14	[Milestone]																																			
58	4.6.6.4	Final Design and RAWP Approval: Blocks E&F	1 day	57	Fri 3/7/14	Fri 3/7/14	[Milestone]																																			
59	4.6.6.5	Submit Pre-Final Designs & RAWP: Block D	0 wks		Thu 4/3/14	Thu 4/3/14	[Milestone]																																			
60	4.6.6.6	Final Design and RAWP Approval: Block D	2 days	59	Thu 4/3/14	Fri 4/4/14	[Gantt bar from Q2 2014 to Q2 2014]																																			
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	[Milestone]																																			
62	4.6.6.8	Final Design and RAWP Approval: Block C	0 wks	61	Wed 4/30/14	Wed 4/30/14	[Milestone]																																			
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	[Milestone]																																			

Red text used for current tasks



GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2013				2014				2015				2016				2017				2018				2019			
							Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
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 26)	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	103.6 wks		Wed 12/17/14	Fri 12/9/16																												
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	7 wks	103FS-2 wks	Mon 5/9/16	Fri 6/24/16																												
105	5.8	Submit Preliminary Design	0 wks	104	Fri 6/24/16	Fri 6/24/16																												
106	5.9	Review and Comment	4 wks	105	Mon 6/27/16	Fri 7/22/16																												
107	5.10	Pre-Final Design	4 wks	106	Mon 7/25/16	Fri 8/19/16																												
108	5.11	Review and Comment	5 wks	107	Mon 8/22/16	Fri 9/23/16																												
109	5.12	Final Design	4 wks	108	Mon 9/26/16	Fri 10/21/16																												
110	5.13	Review	3 wks	109	Mon 10/24/16	Fri 11/11/16																												
111	5.14	EPA Approval of Final Design	0 wks	110	Fri 11/11/16	Fri 11/11/16																												
112	5.15	Prepare RAWP	4 wks	111	Mon 11/14/16	Fri 12/9/16																												
113	5.16	Submit RAWP	0 wks	112	Fri 12/9/16	Fri 12/9/16																												
114																																		
115	6	In-Situ Geochemical Stabilization (ISGS): DESIGN TRACK #3	209.7 wks		Thu 2/7/13	Tue 2/14/17																												
116	6.1	Process Area	189.6 wks		Thu 2/7/13	Mon 9/26/16																												
117	6.1.1	EPA Approval of ISGS Demonstration Work Plan (2012)	0 wks		Thu 2/7/13	Thu 2/7/13																												
118	6.1.2	Preliminary Design (included in Demonstration Work Plan)	0 wks		Thu 2/7/13	Thu 2/7/13																												
119	6.1.3	Characterization and DNAPL Recovery (began 2012)	32 wks		Thu 2/7/13	Wed 9/18/13																												
120	6.1.4	Characterization Report and Pilot Test Plan	11.8 wks	119	Thu 9/19/13	Tue 12/10/13																												
121	6.1.5	Submit Characterization Report and Pilot Test Plan	0 wks	120	Tue 12/10/13	Tue 12/10/13																												
122	6.1.6	Review and Approval of Pilot Test Plan	10 wks	121	Wed 12/11/13	Tue 2/18/14																												
123	6.1.7	Technical Working Group Meeting	0 wks		Wed 12/18/13	Wed 12/18/13																												
124	6.1.8	Pilot Injection Testing	15 wks	122	Mon 3/17/14	Fri 6/27/14																												
125	6.1.8.1	Pre-Pilot Testing & Chemical Delivery	1 wk		Mon 3/17/14	Fri 3/21/14																												
126	6.1.8.2	Pilot Injections	3 wks	125	Mon 3/24/14	Fri 4/11/14																												
127	6.1.8.3	Borings in Injection Area	1 wk	126FS+10 wk	Mon 6/23/14	Fri 6/27/14																												

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2013												2014				2015				2016				2017				2018				2019			
							tr	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4							
128	6.1.9	Technical Working Group Meeting	0 wks		Thu 7/10/14	Thu 7/10/14																																				
129	6.1.10	Pre-Final Design	44 wks	126	Mon 4/14/14	Fri 2/13/15																																				
130	6.1.11	Submit Pre-Final Design	0 wks	129	Fri 2/13/15	Fri 2/13/15																																				
131	6.1.12	Review and Comment	6 wks	130	Mon 2/16/15	Fri 3/27/15																																				
132	6.1.13	Final Design and RAWP	3.2 wks	131	Mon 3/30/15	Mon 4/20/15																																				
133	6.1.14	Submit Final Design and RAWP	0 wks	132	Mon 4/20/15	Mon 4/20/15																																				
134	6.1.15	Review	0.4 wks	133	Tue 4/21/15	Wed 4/22/15																																				
135	6.1.16	EPA Approval of Final Design and RAWP	0 wks	134	Wed 4/22/15	Wed 4/22/15																																				
136	6.1.17	Implementation of Process-Area ISGS Injections	12 wks	135FS+7 wks	Tue 7/7/15	Mon 9/28/15																																				
137	6.1.18	Prepare Implementation Report	26.1 wks	136	Tue 9/29/15	Tue 3/29/16																																				
138	6.1.19	Submit Implementation Report	0 wks	137	Tue 3/29/16	Tue 3/29/16																																				
139	6.1.20	Post-Injection Effectiveness Monitoring	52 wks	136	Tue 9/29/15	Mon 9/26/16																																				
140	6.2	South Lagoon	127.3 wks		Mon 9/8/14	Tue 2/14/17																																				
141	6.2.1	Preliminary Design & Design Investigation Work Plan	32.2 wks		Mon 9/8/14	Mon 4/20/15																																				
142	6.2.2	Submit Preliminary Design & Design Investigation Work Plan	0 wks	141	Mon 4/20/15	Mon 4/20/15																																				
143	6.2.3	Review of Preliminary Design & Design Investigation Work Plan	45 wks	142	Tue 4/21/15	Mon 2/29/16																																				
144	6.2.4	Prepare Revised Preliminary Design & Design Investigation Work Plan	3.1 wks	143	Tue 3/1/16	Tue 3/22/16																																				
145	6.2.5	Review and Approval of Work Plan	13 wks	144	Tue 3/22/16	Tue 6/21/16																																				
146	6.2.6	Installation of Borings and DNAPL Recovery Wells	17 wks	145	Tue 6/21/16	Tue 10/18/16																																				
147	6.2.7	Collection of Baseline Data	17 wks	146	Tue 10/18/16	Tue 2/14/17																																				
148	6.2.8	Pre-Final Design	6 wks	146	Tue 10/18/16	Tue 11/29/16																																				
149	6.2.9	Submit Pre-Final Design	0 wks	148	Tue 11/29/16	Tue 11/29/16																																				
150	6.2.10	Review and Comment	3 wks	149	Tue 11/29/16	Tue 12/20/16																																				
151	6.2.11	Final Design and RAWP	4 wks	150	Tue 12/20/16	Tue 1/17/17																																				
152	6.2.12	Submit Final Design and RAWP	0 wks	151	Tue 1/17/17	Tue 1/17/17																																				
153	6.2.13	Review	3 wks	152	Tue 1/17/17	Tue 2/7/17																																				
154	6.2.14	EPA Approval of Final Design and RAWP	0 wks	153	Tue 2/7/17	Tue 2/7/17																																				
155																																										
156	7	In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4	148 wks		Mon 5/30/16	Fri 3/29/19																																				
157	7.1	Pre-Design Investigation & Treatability Test Workplan	9 wks	15	Mon 5/30/16	Fri 7/29/16																																				
158	7.2	Beazer Submit Pre-Design Investigation & Treatability Test WP	0 wks	157	Fri 7/29/16	Fri 7/29/16																																				
159	7.3	Review and Approval	8 wks	158	Mon 8/1/16	Fri 9/23/16																																				
160	7.4	Conduct Pre-Design Investigation & Treatability Test	34 wks	159	Mon 9/26/16	Fri 5/19/17																																				
161	7.5	Pilot Test Workplan	12 wks	160	Mon 5/22/17	Fri 8/11/17																																				
162	7.6	Beazer Submit Pilot Test Workplan	0 wks	161	Fri 8/11/17	Fri 8/11/17																																				
163	7.7	Review and Approval	8 wks	162	Mon 8/14/17	Fri 10/6/17																																				
164	7.8	Conduct Pilot Test	13 wks	163	Mon 10/9/17	Fri 1/5/18																																				
165	7.9	Preliminary Design	13 wks	164	Mon 1/8/18	Fri 4/6/18																																				
166	7.10	Submit Preliminary Design	0 wks	165	Fri 4/6/18	Fri 4/6/18																																				
167	7.11	Review and Comment	10 wks	166	Mon 4/9/18	Fri 6/15/18																																				
168	7.12	Pre-Final Design	13 wks	167	Mon 6/18/18	Fri 9/14/18																																				
169	7.13	Review and Comment	10 wks	168	Mon 9/17/18	Fri 11/23/18																																				
170	7.14	Final Design	6 wks	169	Mon 11/26/18	Fri 1/4/19																																				
171	7.15	Review and Approval	4 wks	170	Mon 1/7/19	Fri 2/1/19																																				
172	7.16	EPA Approval of Final Design	0 wks	171	Fri 2/1/19	Fri 2/1/19																																				
173	7.17	Prepare RAWP	8 wks	172	Mon 2/4/19	Fri 3/29/19																																				
174	7.18	Submit RAWP	0 wks	173	Fri 3/29/19	Fri 3/29/19																																				
175																																										
176	8	Other Engineered Components: DESIGN TRACK #5	87 wks		Mon 4/18/16	Fri 12/15/17																																				
177	8.1	Pre-Design Work Plan	6 wks		Mon 4/18/16	Fri 5/27/16																																				
178	8.2	Submit Pre-Design Work Plan	0 wks	177	Fri 5/27/16	Fri 5/27/16																																				
179	8.3	Review and Approval	6 wks	178	Mon 5/30/16	Fri 7/8/16																																				
180	8.4	EPA Approval of Pre-Design Work Plan	0 wks	179	Fri 7/8/16	Fri 7/8/16																																				
181	8.5	Pre-Design Investigation	26 wks	180	Mon 7/11/16	Fri 1/6/17																																				
182	8.6	Preliminary Design	6 wks	181	Mon 1/9/17	Fri 2/17/17																																				
183	8.7	Submit Preliminary Design	0 wks	182	Fri 2/17/17	Fri 2/17/17																																				
184	8.8	Review and Comment	6 wks	183	Mon 2/20/17	Fri 3/31/17																																				
185	8.9	Pre-Final Design	13 wks	184	Mon 4/3/17	Fri 6/30/17																																				
186	8.10	Review and Comment	6 wks	185																																						

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2013				2014				2015				2016				2017				2018				2019			
							tr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
192																																		
193	9	Institutional Control	206.8 wks		Tue 7/9/13	Fri 6/23/17																												
194	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks	5	Tue 7/9/13	Fri 8/23/13																												
195	9.2	Submit ICIAP	0 wks	194	Fri 8/23/13	Fri 8/23/13																												
196	9.3	Review	12.5 wks	195	Mon 8/26/13	Wed 11/20/13																												
197	9.4	Beazer Respond to Comments	66 wks	196	Mon 4/6/15	Fri 7/8/16																												
198	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks	197	Fri 7/8/16	Fri 7/8/16																												
199	9.6	Review	3 wks	198	Mon 7/11/16	Fri 7/29/16																												
200	9.7	EPA and FDEP Approval of ICIAP	0 wks	199	Fri 7/29/16	Fri 7/29/16																												
201	9.8	Implement Beazer-Property Restrictive Covenant	47 wks		Mon 8/1/16	Fri 6/23/17																												
202	9.8.1	Draft Proprietary Controls Package	13 wks	200	Mon 8/1/16	Fri 10/28/16																												
203	9.8.2	Submit Draft Proprietary Controls Package	0 wks	202	Fri 10/28/16	Fri 10/28/16																												
204	9.8.3	Review and Updating	8 wks	203	Mon 10/31/16	Fri 12/23/16																												
205	9.8.4	Update Title Search and Prepare Public Notice	8 wks	204	Mon 12/26/16	Fri 2/17/17																												
206	9.8.5	Beazer Publish Public Notice	0 wks	205	Fri 2/17/17	Fri 2/17/17																												
207	9.8.6	Public Comment Period	4.4 wks	206	Mon 2/20/17	Tue 3/21/17																												
208	9.8.7	Address Comments and Execute Restrictive Covenant	5 wks	207	Wed 3/22/17	Tue 4/25/17																												
209	9.8.8	Record Restrictive Covenant at Alacha County Clerk of Court	0 wks	208	Tue 4/25/17	Tue 4/25/17																												
210	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks	209	Wed 4/26/17	Fri 6/23/17																												
211	9.8.10	Submit Final Proprietary Controls Package	0 wks	210	Fri 6/23/17	Fri 6/23/17																												

