



August 12, 2014

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 2014 Monthly Progress Report**

Dear Mr. Miller:

On behalf of Beazer East, Inc. (Beazer), attached is the July 2014 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: Rusty Kestle, EPA  
Kelsey Helton, FDEP  
John Mousa, 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, Community Technical Advisor  
Linda Paul, Koppers, Inc.  
Mitchell Brouman, TRMI  
Mike Slenska, TRMI  
Donna Kopach, TRMI  
Jim Erickson, Tetra Tech

**July 2014**  
**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: 2.3 gallons of NAPL were removed from Upper Hawthorn wells during the past month (2 recovery events). A total of 572 gallons have been removed since the start of the NAPL recovery program on June 19, 2004. Table 1 provides details of the NAPL recovery volumes by well and date.
- In addition, NAPL was removed from 25 temporary injection points (TIPs) installed in the Former Process Area as part of the In-Situ Geochemical Stabilization (ISGS) program (Table 2). This is a pilot demonstration for full scale design. Location 360N 380E was added in July. Three NAPL recovery events were conducted during the month, resulting in a total of 170.25 gallons removed.
- NAPL was removed from four Upper Hawthorn recovery wells installed in the Former Process Area as part of the ISGS program (Table 3). Two NAPL recovery events were conducted during the month, resulting in 28.5 gallons removed.
- A total of 4,577,241 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 102.5 gallons per minute (gpm). The recovery for each component is listed below.
  - Surficial Aquifer
    - Perimeter Extraction Wells: 591,455 gallons
    - Former North Lagoon Drain: 373,480 gallons
    - Former Drip Track Drain: 516,820 gallons
    - Former Process Area Drain: 488,550 gallons
    - Former South Lagoon Drain: 467,980 gallons
  - Upper Floridan Extraction Wells
    - FW-6: 17,960 gallons
    - FW-21B: 130,854 gallons
    - FW-31BE: 1,000,010 gallons
    - FW-32BE: 535,054 gallons

Approximately 337.2 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 2,614,300 gallons. The remaining portion of the water, from Upper Floridan Aquifer wells, was treated and used for on-Property irrigation.

The Former South Lagoon and Former Process groundwater drain pumps were turned off for approximately 13.5 hours to pump and clean clarifiers and to treat backwash water.

### **3. Plans, Reports, Deliverables and Procedures Completed:**

- *Remedial Action Work Plan (RAWP) Off-Property Soil Replacement Block I* was submitted on July 7, 2014.
- *Remedial Action Work Plan (RAWP) Off-Property Soil Replacement Block J* was submitted on July 25, 2014.
- *2014 Addendum to Updated Off-Site Soil Data Summary and Fingerprinting Evaluation (2009-2013)* was submitted on July 31, 2014.
- Off-Property soil replacement at Blocks A-J of the Stephen Foster Neighborhood.
- ISGS technical meeting July 10, 2014.
- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) July 15, 2014.
- Periodic maintenance checks and inspections.
- Treatment-plant component maintenance and repair as needed (caustic pump, carbon vessel gaskets and gauges, sludge pump diverter valve).
- Replace flow meter parts on EW-16.
- Pull and repair EW-8 and EW-3 pumps.
- Replace FW-6 pumps and repair piping.
- Replace treatment system flow meter.
- Replace EW-10 pump.
- Replace flow meter part on EEW-3.
- Irrigation Breakthrough sampling on July 2 and July 16, 2014.
- On-property irrigation using treated groundwater from FW-6, FW-21B, FW-31BE, and FW-32BE.
- Continuation of design for OU5 Block K south of the Beazer Property.

### **4. Upcoming Actions:**

- RAWP for Block K
- Off-Property Remedial Action at Blocks J and K.
- 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.
- Third quarter and annual groundwater sampling event: August 11-22, 2014.

### **5. Schedule Status:**

- The current remedial design schedule is attached.
- No significant delays were encountered during the reporting period.

### **6. Plan/Schedule Modifications:**

- The schedule has been updated to reflect the current focus on Design Tracks #1 (Off-Property Soil Replacement) and #3 (ISGS)..

**7. Community Involvement:**

- Tetra Tech's Community Coordinator has been in touch with many residents and property owners in the Stephen Foster neighborhood, and has been working closely with the city's community coordinators for the Stephen Foster soil replacement work.
- Future community involvement activities will be coordinated with EPA.

**Table 1. DNAPL Recovery - Hawthorn Group Monitoring Wells**

Well ID	Total Last Month (gal) (2 event) June 2014	DNAPL Volume (gal) 7/9/2014	DNAPL Volume (gal) 7/27/2014	Total This Month (gal) July 2014
HG-9S	0	Stain	Stain	0
HG-10S	0	Stain	Stain	0
HG-10D	0	Stain	Stain	0
HG-11S	0.7	0.3	0.4	0.7
HG-12S	0.8	0.35	0.4	0.75
HG-12D	0	ND	ND	0
HG-15S	0.65	0.4	0.25	0.65
HG-16S	0.25	0.2	Stain	0.2
HG-16D	0	Stain	Stain	0
MW-22B	0	Stain	Stain	0
Total	2.4	1.25	1.05	2.3
Cumulative Total	569.66			571.96

ND - No DNAPL Detected

**Table 2. DNAPL Recovery Temporary Injection Points (TIPs)**

Well ID	Total Last Month (gal) (2 events) June 2014	DNAPL Volume (gal) 7/2/2014	DNAPL Volume (gal) 7/16/2014	DNAPL Volume (gal) 7/30/2014	Total This Month (gal) July 2014
220N 180E	5.3	1.3	2.3	3.2	6.8
280N 380E	6.3	3.1	3.4	3.3	9.8
300N 180E	10.3	5.1	5	4.7	14.8
300N 420E	8.2	3.6	3.5	2.9	10
320N 220E	6.4	3.2	3.4	3.2	9.8
320N 300E	6.6	3.2	3.2	3.1	9.5
340N 340E	11.3	5.6	5.8	5.9	17.3
360N 280E	7.8	3.7	3.7	3.7	11.1
380N 340E	14.7	6.3	6.9	6	19.2
400N 380E	1.2	0.9	1.3	0.8	3
460N 340E	2.4	1.6	1.4	1.5	4.5
420N 340E *	2.1	3.2	4.2	4	11.4
220N 340E	1.1	0.9	1	0.8	2.7
240N 380E	3	1.7	1.5	1.5	4.7
340N 180E	1.2	0.7	0.9	0.3	1.9
320N 140E	1.3	0.6	0.7	0.5	1.8
300N 260E	1.6	1.1	0.9	1.1	3.1
360N 140E	0.7	0.2	0.2	0.2	0.6
400N 140E	0.5	0.1	Trace	0.1	0.2
200N 220E	1.3	0.5	1.2	1.1	2.8
280N 220E	2.4	1.1	1.2	1.1	3.4
360N 220E	2.4	1.3	1.4	1.2	3.9
280N 300E	2.3	1.2	1.2	1.2	3.6
360N 380E	NP	1.75	1	9.5	12.25
Drip Track	0	0	1.7	0.4	2.1
<b>Total</b>	<b>100.4</b>	<b>51.95</b>	<b>57</b>	<b>61.3</b>	<b>170.25</b>

NP - Not Pumped

\* Inside ISGS Pilot Test Area

**Table 3. DNAPL ISGS Recovery Data - DNAPL Recovery Wells**

Well ID	Total Last Month (gal) (2 events) June 2014	DNAPL Volume (gal) 7/10/2014	DNAPL Volume (gal) 7/23/2014	Total This Month (gal) July 2014
M-38BE	0	NR		0
M-39BE	NR	NR		NR
M-40BE	NR	NR		NR
M-41BE	NR	NR		NR
M-42BE	NR	NR		NR
HG-36SE *	NR	0.3	NR	0.3
HG-37SE	6.3	2.9	2.6	5.5
HG-38SE	10.4	5.4	5.2	10.6
HG-39SE	6.3	3.2	2.8	6
HG-40SE	5.8	3.1	3.0	6.1
<b>Total</b>	<b>28.8</b>	<b>14.9</b>	<b>13.6</b>	<b>28.5</b>

NR - No Recovery

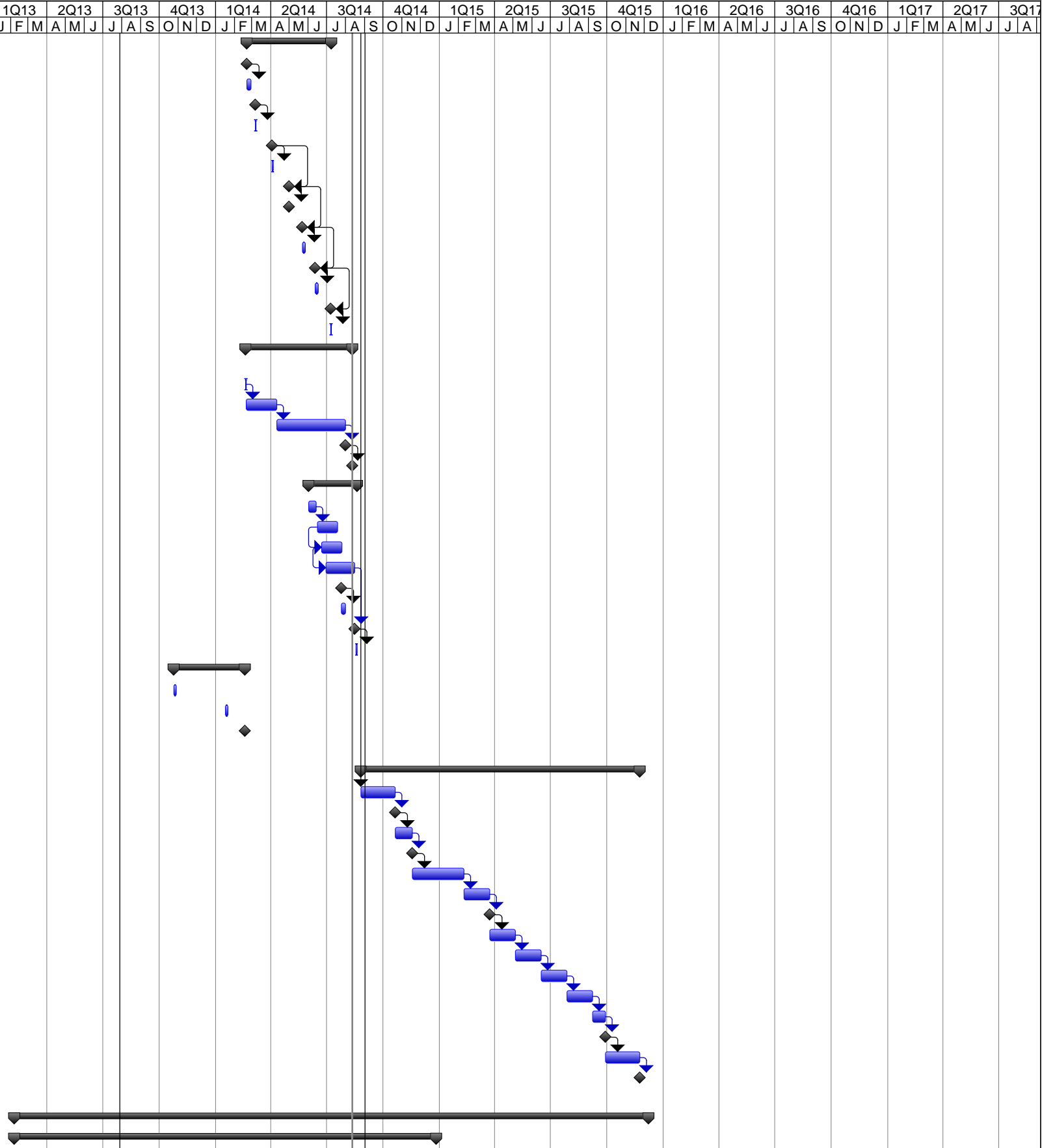
\* Inside ISGS Pilot Test Area





GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	1Q13	2Q13	3Q13	4Q13	1Q14	2Q14	3Q14	4Q14	1Q15	2Q15	3Q15	4Q15	1Q16	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17																																														
							J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
54	4.6.6	<b>Final Design and RAWP</b>	<b>19.6 wks</b>		<b>Fri 2/21/14</b>	<b>Tue 7/8/14</b>																																																																	
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 wks	Thu 5/22/14	Thu 5/22/14																																																																	
64	4.6.6.10	Final Design and RAWP Approval: Block B	0.6 wks	63	Thu 5/22/14	Tue 5/27/14																																																																	
65	4.6.6.11	Submit Pre-Final Designs & RAWP: Block A	0 wks	63FF+3 wks	Thu 6/12/14	Thu 6/12/14																																																																	
66	4.6.6.12	Final Design and RAWP Approval: Block A	0.6 wks	65	Thu 6/12/14	Tue 6/17/14																																																																	
67	4.6.6.13	Submit Pre-Final Designs & RAWP: Block I	0 wks	65FF+3.5 wks	Mon 7/7/14	Mon 7/7/14																																																																	
68	4.6.6.14	Final Design and RAWP Approval: Block I	0.2 wks	67	Tue 7/8/14	Tue 7/8/14																																																																	
69	4.7	<b>Sampling for Refinement of Remediation Parcels (Feb 2014)</b>	<b>24.8 wks</b>		<b>Wed 2/19/14</b>	<b>Tue 8/12/14</b>																																																																	
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	<b>Blocks J &amp; K Remediation Design</b>	<b>11.4 wks</b>		<b>Mon 6/2/14</b>	<b>Tue 8/19/14</b>																																																																	
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	Fri 8/15/14	Fri 8/15/14																																																																	
83	4.8.8	Final Design and RAWP Approval: Block K	2 days	82	Mon 8/18/14	Tue 8/19/14																																																																	
84	4.9	<b>Community Meetings</b>	<b>16.4 wks</b>		<b>Fri 10/25/13</b>	<b>Tue 2/18/14</b>																																																																	
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																																																																							
89	5	<b>Cutoff Wall and Stormwater Controls: DESIGN TRACK #2</b>	<b>65 wks</b>		<b>Tue 8/26/14</b>	<b>Mon 11/23/15</b>																																																																	
90	5.1	Pre-Design Work Plan	8 wks	15	Tue 8/26/14	Mon 10/20/14																																																																	
91	5.2	Submit Pre-Design Work Plan	0 wks	90	Mon 10/20/14	Mon 10/20/14																																																																	
92	5.3	Review and Approval	4 wks	91	Tue 10/21/14	Mon 11/17/14																																																																	
93	5.4	EPA Approval of Pre-Design Work Plan	0 wks	92	Mon 11/17/14	Mon 11/17/14																																																																	
94	5.5	Pre-Design Investigation	12 wks	93	Tue 11/18/14	Mon 2/9/15																																																																	
95	5.6	Preliminary Design	6 wks	94	Tue 2/10/15	Mon 3/23/15																																																																	
96	5.7	Submit Preliminary Design	0 wks	95	Mon 3/23/15	Mon 3/23/15																																																																	
97	5.8	Review and Comment	6 wks	96	Tue 3/24/15	Mon 5/4/15																																																																	
98	5.9	Pre-Final Design	6 wks	97	Tue 5/5/15	Mon 6/15/15																																																																	
99	5.10	Review and Comment	6 wks	98	Tue 6/16/15	Mon 7/27/15																																																																	
100	5.11	Final Design	6 wks	99	Tue 7/28/15	Mon 9/7/15																																																																	
101	5.12	Review	3 wks	100	Tue 9/8/15	Mon 9/28/15																																																																	
102	5.13	EPA Approval of Final Design	0 wks	101	Mon 9/28/15	Mon 9/28/15																																																																	
103	5.14	Prepare RAWP	8 wks	102	Tue 9/29/15	Mon 11/23/15																																																																	
104	5.15	Submit RAWP	0 wks	103	Mon 11/23/15	Mon 11/23/15																																																																	
105																																																																							
106	6	<b>In-Situ Geochemical Stabilization (ISGS): DESIGN TRACK #3</b>	<b>147.6 wks</b>		<b>Thu 2/7/13</b>	<b>Mon 12/7/15</b>																																																																	
107	6.1	Process Area	98.4 wks		Thu 2/7/13	Fri 12/26/14																																																																	





GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	1Q13		2Q13		3Q13		4Q13		1Q14		2Q14		3Q14		4Q14		1Q15		2Q15		3Q15		4Q15		1Q16		2Q16		3Q16		4Q16		1Q17		2Q17		3Q17									
							J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A		
162																																																				
163		<b>8 Other Engineered Components: DESIGN TRACK #5</b>	<b>87 wks</b>		<b>Mon 6/1/15</b>	<b>Fri 1/27/17</b>																																														
164	8.1	Pre-Design Work Plan	6 wks		Mon 6/1/15	Fri 7/10/15																																														
165	8.2	Submit Pre-Design Work Plan	0 wks	164	Fri 7/10/15	Fri 7/10/15																																														
166	8.3	Review and Approval	6 wks	165	Mon 7/13/15	Fri 8/21/15																																														
167	8.4	EPA Approval of Pre-Design Work Plan	0 wks	166	Fri 8/21/15	Fri 8/21/15																																														
168	8.5	Pre-Design Investigation	26 wks	167	Mon 8/24/15	Fri 2/19/16																																														
169	8.6	Preliminary Design	6 wks	168	Mon 2/22/16	Fri 4/1/16																																														
170	8.7	Submit Preliminary Design	0 wks	169	Fri 4/1/16	Fri 4/1/16																																														
171	8.8	Review and Comment	6 wks	170	Mon 4/4/16	Fri 5/13/16																																														
172	8.9	Pre-Final Design	13 wks	171	Mon 5/16/16	Fri 8/12/16																																														
173	8.10	Review and Comment	6 wks	172	Mon 8/15/16	Fri 9/23/16																																														
174	8.11	Final Design	6 wks	173	Mon 9/26/16	Fri 11/4/16																																														
175	8.12	Review	4 wks	174	Mon 11/7/16	Fri 12/2/16																																														
176	8.13	EPA Approval of Final Design	0 wks	175	Fri 12/2/16	Fri 12/2/16																																														
177	8.14	Prepare RAWP	8 wks	176	Mon 12/5/16	Fri 1/27/17																																														
178	8.15	Submit RAWP	0 wks	177	Fri 1/27/17	Fri 1/27/17																																														
179																																																				
180		<b>9 Institutional Control</b>	<b>109.3 wks</b>		<b>Tue 7/9/13</b>	<b>Wed 8/12/15</b>																																														
181	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks	5	Tue 7/9/13	Fri 8/23/13																																														
182	9.2	Submit ICIAP	0 wks	181	Fri 8/23/13	Fri 8/23/13																																														
183	9.3	Review	12.5 wks	182	Mon 8/26/13	Wed 11/20/13																																														
184	9.4	Beazer Respond to Comments	40 wks	183	Wed 11/20/13	Wed 8/27/14																																														
185	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks	184	Wed 8/27/14	Wed 8/27/14																																														
186	9.6	Review	3 wks	185	Wed 8/27/14	Wed 9/17/14																																														
187	9.7	EPA and FDEP Approval of ICIAP	0 wks	186	Wed 9/17/14	Wed 9/17/14																																														
188	9.8	<b>Implement Beazer-Property Restrictive Covenant</b>	<b>47 wks</b>		<b>Wed 9/17/14</b>	<b>Wed 8/12/15</b>																																														
189	9.8.1	Draft Proprietary Controls Package	13 wks	187	Wed 9/17/14	Wed 12/17/14																																														
190	9.8.2	Submit Draft Proprietary Controls Package	0 wks	189	Wed 12/17/14	Wed 12/17/14																																														
191	9.8.3	Review and Updating	8 wks	190	Wed 12/17/14	Wed 2/11/15																																														
192	9.8.4	Update Title Search and Prepare Public Notice	8 wks	191	Wed 2/11/15	Wed 4/8/15																																														
193	9.8.5	Beazer Publish Public Notice	0 wks	192	Wed 4/8/15	Wed 4/8/15																																														
194	9.8.6	Public Comment Period	4.4 wks	193	Wed 4/8/15	Fri 5/8/15																																														
195	9.8.7	Address Comments and Execute Restrictive Covenant	5 wks	194	Fri 5/8/15	Fri 6/12/15																																														
196	9.8.8	Record Restrictive Covenant at Alacha County Clerk of Court	0 wks	195	Fri 6/12/15	Fri 6/12/15																																														
197	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks	196	Fri 6/12/15	Wed 8/12/15																																														
198	9.8.10	Submit Final Proprietary Controls Package	0 wks	197	Wed 8/12/15	Wed 8/12/15																																														

