



July 16, 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: **June 2014 Monthly Progress Report**

Dear Mr. Miller:

On behalf of Beazer East, Inc. (Beazer), attached is the June 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

**June 2014**  
**MONTHLY PROGRESS REPORT**  
**Cabot/Koppers Superfund Site**  
**Gainesville, Florida**

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**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: 2.4 gallons of NAPL were removed from Upper Hawthorn wells during the past month (2 recovery events). A total of 570 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 23 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. Two NAPL recovery events were conducted during the month, resulting in a total of 100.4 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 28.8 gallons removed.
- A total of 4,167,502 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 96 gallons per minute (gpm). The recovery for each component is listed below.
  - Surficial Aquifer
    - Perimeter Extraction Wells: 584,616gallons
    - Former North Lagoon Drain: 444,820 gallons
    - Former Drip Track Drain: 502,520 gallons
    - Former Process Area Drain: 492,420 gallons
    - Former South Lagoon Drain: 475,030 gallons
  - Upper Floridan Extraction Wells
    - FW-6: 45,075 gallons
    - FW-21B: 186,217 gallons
    - FW-31BE: 914,100 gallons
    - FW-32BE: 522,704 gallons

Approximately 334.7 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 2,498,000 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 6 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 A* was submitted on June 12, 2014.
- Off-Property soil replacement at Blocks A-H of the Stephen Foster Neighborhood.
- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) June 17, 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-9
- Pull and clean EW-16 flow meter
- Pull and repair EW-8 pump and flow meters.
- Pull and repair FW-6 pump.
- Replace irrigation flow meter.
- Shipped 7 drums spent PPE, 6 drums rinse water, 2 drums hydraulic oil/DNAPL/soil, 18 drums treatment sludge and 11 drums DNAPL on June 18, 2014.
- Irrigation Breakthrough sampling on June 4 and June 19, 2014.
- On-property irrigation using treated groundwater from FW-6, FW-21B, FW-31BE, and FW-32BE.
- Commencement of surveying and design for OU5 Block J//K south of the Beazer Property
- Second quarter groundwater sampling event: June 2 -6, 2014
- ISGS core sampling June 23 – 27, 2014.
- Abandonment of old, unused irrigation wells at properties A11 and D08.

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

- RAWPs for Blocks I, C08 and J/K
- Off-Property Remedial Action at Blocks A, I, J/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.
- ISGS technical meeting July 10, 2014.
- Third quarter and annual groundwater sampling event: planned for August 11-15, 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 adjusted to reflect the current focus on RD/RA for OU-5 (Design Track #1) and completion of the ISGS design (Design Track #3). Tasks on other design tracks have been adjusted to later dates.

**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) May 2014	DNAPL Volume (gal) 6/16/2014	DNAPL Volume (gal) 6/25/2014	Total This Month (gal) June 2014
HG-9S	0	Stain	Stain	0
HG-10S	0	Stain	Trace	0
HG-10D	0	Stain	Stain	0
HG-11S	1.35	0.4	0.3	0.7
HG-12S	1.4	0.4	0.4	0.8
HG-12D	0	ND	ND	0
HG-15S	1.15	0.35	0.3	0.65
HG-16S	0.25	0.25	Stain	0.25
HG-16D	0	Stain	Stain	0
MW-22B	0	Stain	Stain	0
Total	4.15	1.4	1	2.4
Cumulative Total	567.26			569.66

ND - No DNAPL Detected

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

Well ID	Total Last Month (gal) (2 events) May 2014	DNAPL Volume (gal) 6/3/2014	DNAPL Volume (gal) 6/18/2014	Total This Month (gal) June 2014
220N 180E	5.7	2.7	2.6	5.3
280N 380E	7.2	3.1	3.2	6.3
300N 180E	11.7	5.1	5.2	10.3
300N 420E	8.5	4.5	3.7	8.2
320N 220E	7.6	3.1	3.3	6.4
320N 300E	7.6	3.4	3.2	6.6
340N 340E	11.9	5.8	5.5	11.3
360N 280E	8.1	3.8	4	7.8
380N 340E	16.5	7.6	7.1	14.7
400N 380E	3.7	0.5	0.7	1.2
460N 340E	2.9	1.3	1.1	2.4
420N 340E *	3.7	1.1	1	2.1
220N 340E	2.3	0.5	0.6	1.1
240N 380E	4.1	1.4	1.6	3
340N 180E	2.1	0.5	0.7	1.2
320N 140E	1.7	0.6	0.7	1.3
300N 260E	1	0.8	0.8	1.6
360N 140E	2.3	0.5	0.2	0.7
400N 140E	4.8	0.3	0.2	0.5
200N 220E	4.4	0.3	1	1.3
280N 220E	8.6	1.2	1.2	2.4
360N 220E	6.2	1.2	1.2	2.4
280N 300E	5.3	1.2	1.1	2.3
Drip Track	N/A	N/A	0	0
Total	137.9	50.5	49.9	100.4

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) May 2014	DNAPL Volume (gal) 6/11/2014	DNAPL Volume (gal) 6/25/2014	Total This Month (gal) June 2014
M-38BE	0	Stain	NR	0
M-39BE	NR	NR	NR	NR
M-40BE	NR	NR	NR	NR
M-41BE	NR	NR	NR	NR
M-42BE	NR	NR	NR	NR
HG-36SE *	NR	NR	NR	NR
HG-37SE	7.9	3.2	3.1	6.3
HG-38SE	10.1	5.1	5.3	10.4
HG-39SE	6.7	3.1	3.2	6.3
HG-40SE	6.4	2.9	2.9	5.8
Total	31.1	14.3	14.5	28.8

NR - No Recovery

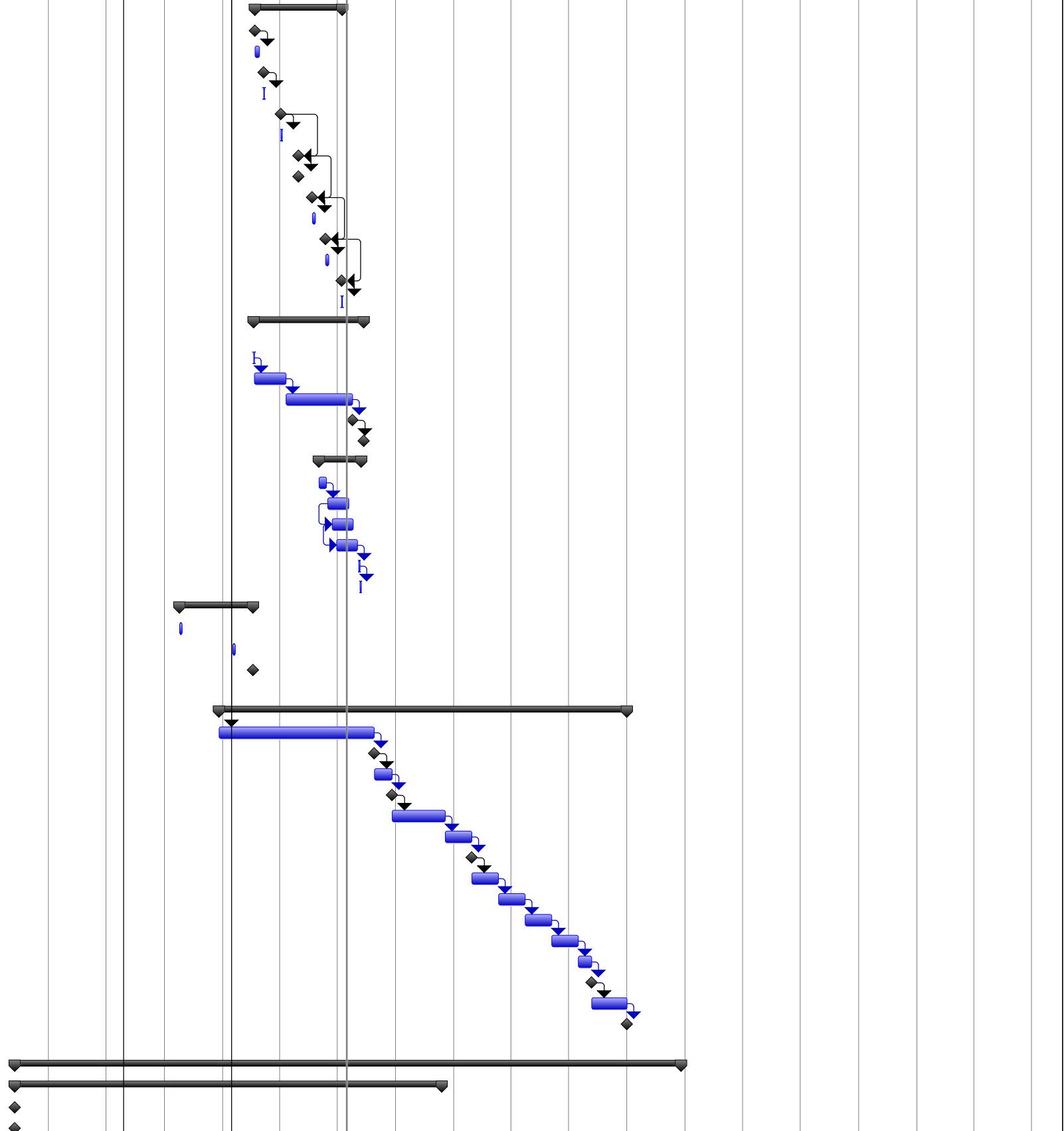
\* Inside ISGS Pilot Test Area





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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
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	15 wks	71	Fri 4/11/14	Thu 7/24/14																																																					
73	4.7.4	Beazer Submit Report Addendum	0 wks	72	Thu 7/24/14	Thu 7/24/14																																																					
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>9.8 wks</b>		<b>Mon 6/2/14</b>	<b>Thu 8/7/14</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	5 wks	78SS+1 wk	Mon 6/30/14	Fri 8/1/14																																																					
80	4.8.5	RAWP	2 days	79	Mon 8/4/14	Tue 8/5/14																																																					
81	4.8.6	Final Design and RAWP Approval	2 days	80	Wed 8/6/14	Thu 8/7/14																																																					
82	4.9	<b>Community Meetings</b>	<b>16.4 wks</b>		<b>Fri 10/25/13</b>	<b>Tue 2/18/14</b>																																																					
83	4.9.1	Community Meeting: Landscaping Workshop - City (Oct 26)	2 days		Fri 10/25/13	Mon 10/28/13																																																					
84	4.9.2	Community Meeting (Jan 18 2014)	2 days		Fri 1/17/14	Mon 1/20/14																																																					
85	4.9.3	Community Meeting (Feb 18 2014)	0 wks		Tue 2/18/14	Tue 2/18/14																																																					
86																																																											
87	5	<b>Cutoff Wall and Stormwater Controls: DESIGN TRACK #2</b>	<b>92 wks</b>		<b>Thu 12/26/13</b>	<b>Thu 10/1/15</b>																																																					
88	5.1	Pre-Design Work Plan	35 wks	15	Thu 12/26/13	Thu 8/28/14																																																					
89	5.2	Submit Pre-Design Work Plan	0 wks	88	Thu 8/28/14	Thu 8/28/14																																																					
90	5.3	Review and Approval	4 wks	89	Thu 8/28/14	Thu 9/25/14																																																					
91	5.4	EPA Approval of Pre-Design Work Plan	0 wks	90	Thu 9/25/14	Thu 9/25/14																																																					
92	5.5	Pre-Design Investigation	12 wks	91	Thu 9/25/14	Thu 12/18/14																																																					
93	5.6	Preliminary Design	6 wks	92	Thu 12/18/14	Thu 1/29/15																																																					
94	5.7	Submit Preliminary Design	0 wks	93	Thu 1/29/15	Thu 1/29/15																																																					
95	5.8	Review and Comment	6 wks	94	Thu 1/29/15	Thu 3/12/15																																																					
96	5.9	Pre-Final Design	6 wks	95	Thu 3/12/15	Thu 4/23/15																																																					
97	5.10	Review and Comment	6 wks	96	Thu 4/23/15	Thu 6/4/15																																																					
98	5.11	Final Design	6 wks	97	Thu 6/4/15	Thu 7/16/15																																																					
99	5.12	Review	3 wks	98	Thu 7/16/15	Thu 8/6/15																																																					
100	5.13	EPA Approval of Final Design	0 wks	99	Thu 8/6/15	Thu 8/6/15																																																					
101	5.14	Prepare RAWP	8 wks	100	Thu 8/6/15	Thu 10/1/15																																																					
102	5.15	Submit RAWP	0 wks	101	Thu 10/1/15	Thu 10/1/15																																																					
103																																																											
104	6	<b>In-Situ Geochemical Stabilization (ISGS): DESIGN TRACK #3</b>	<b>150.4 wks</b>		<b>Thu 2/7/13</b>	<b>Fri 12/25/15</b>																																																					
105	6.1	<b>Process Area</b>	<b>96.4 wks</b>		<b>Thu 2/7/13</b>	<b>Fri 12/12/14</b>																																																					
106	6.1.1	EPA Approval of ISGS Demonstration Work Plan (2012)	0 wks		Thu 2/7/13	Thu 2/7/13																																																					
107	6.1.2	Preliminary Design (included in Demonstration Work Plan)	0 wks		Thu 2/7/13	Thu 2/7/13																																																					



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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	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
108	6.1.3	Characterization and DNAPL Recovery (began 2012)	32 wks		Thu 2/7/13	Wed 9/18/13	[Task bar from Thu 2/7/13 to Wed 9/18/13]																																																			
109	6.1.4	Characterization Report and Pilot Test Plan	11.8 wks	108	Thu 9/19/13	Tue 12/10/13	[Task bar from Thu 9/19/13 to Tue 12/10/13]																																																			
110	6.1.5	Submit Characterization Report and Pilot Test Plan	0 wks	109	Tue 12/10/13	Tue 12/10/13	[Task bar from Tue 12/10/13 to Tue 12/10/13]																																																			
111	6.1.6	Review and Approval of Pilot Test Plan	10 wks	110	Wed 12/11/13	Tue 2/18/14	[Task bar from Wed 12/11/13 to Tue 2/18/14]																																																			
112	6.1.7	Technical Working Group Meeting	0 wks		Wed 12/18/13	Wed 12/18/13	[Task bar from Wed 12/18/13 to Wed 12/18/13]																																																			
113	6.1.8	<b>Pilot Injection Testing</b>	<b>15 wks</b>	<b>111</b>	<b>Mon 3/17/14</b>	<b>Fri 6/27/14</b>	[Task bar from Mon 3/17/14 to Fri 6/27/14]																																																			
114	6.1.8.1	Pre-Pilot Testing & Chemical Delivery	1 wk		Mon 3/17/14	Fri 3/21/14	[Task bar from Mon 3/17/14 to Fri 3/21/14]																																																			
115	6.1.8.2	Pilot Injections	3 wks	114	Mon 3/24/14	Fri 4/11/14	[Task bar from Mon 3/24/14 to Fri 4/11/14]																																																			
116	6.1.8.3	Borings in Injection Area	1 wk	115FS+10 wks	Mon 6/23/14	Fri 6/27/14	[Task bar from Mon 6/23/14 to Fri 6/27/14]																																																			
117	6.1.9	Technical Working Group Meeting	0 wks		Thu 7/10/14	Thu 7/10/14	[Task bar from Thu 7/10/14 to Thu 7/10/14]																																																			
118	6.1.10	<b>Pre-Final Design</b>	<b>19 wks</b>	<b>115</b>	<b>Mon 4/14/14</b>	<b>Fri 8/22/14</b>	[Task bar from Mon 4/14/14 to Fri 8/22/14]																																																			
119	6.1.11	Submit Pre-Final Design	0 wks	118	Fri 8/22/14	Fri 8/22/14	[Task bar from Fri 8/22/14 to Fri 8/22/14]																																																			
120	6.1.12	Review and Comment	6 wks	119	Mon 8/25/14	Fri 10/3/14	[Task bar from Mon 8/25/14 to Fri 10/3/14]																																																			
121	6.1.13	Final Design and RAWP	4 wks	120	Mon 10/6/14	Fri 10/31/14	[Task bar from Mon 10/6/14 to Fri 10/31/14]																																																			
122	6.1.14	Submit Final Design and RAWP	0 wks	121	Fri 10/31/14	Fri 10/31/14	[Task bar from Fri 10/31/14 to Fri 10/31/14]																																																			
123	6.1.15	Review	6 wks	122	Mon 11/3/14	Fri 12/12/14	[Task bar from Mon 11/3/14 to Fri 12/12/14]																																																			
124	6.1.16	EPA Approval of Final Design and RAWP	0 wks	123	Fri 12/12/14	Fri 12/12/14	[Task bar from Fri 12/12/14 to Fri 12/12/14]																																																			
125	6.2	<b>South Lagoon</b>	<b>73 wks</b>		<b>Mon 8/4/14</b>	<b>Fri 12/25/15</b>	[Task bar from Mon 8/4/14 to Fri 12/25/15]																																																			
126	6.2.1	<b>Preliminary Design &amp; Design Investigation Work Plan</b>	<b>8 wks</b>		<b>Mon 8/4/14</b>	<b>Fri 9/26/14</b>	[Task bar from Mon 8/4/14 to Fri 9/26/14]																																																			
127	6.2.2	Submit Preliminary Design & Design Investigation Work Plan	0 wks	126	Fri 9/26/14	Fri 9/26/14	[Task bar from Fri 9/26/14 to Fri 9/26/14]																																																			
128	6.2.3	Review and Approval Preliminary Design & Design Investigation Work Plan	3 wks	127	Mon 9/29/14	Fri 10/17/14	[Task bar from Mon 9/29/14 to Fri 10/17/14]																																																			
129	6.2.4	Installation of Borings and DNAPL Recovery Wells	8 wks	128	Mon 10/20/14	Fri 12/12/14	[Task bar from Mon 10/20/14 to Fri 12/12/14]																																																			
130	6.2.5	Collection of Baseline Data	26 wks	129	Mon 12/15/14	Fri 6/12/15	[Task bar from Mon 12/15/14 to Fri 6/12/15]																																																			
131	6.2.6	Pre-Final Design	6 wks	130	Mon 6/15/15	Fri 7/24/15	[Task bar from Mon 6/15/15 to Fri 7/24/15]																																																			
132	6.2.7	Submit Pre-Final Design	0 wks	131	Fri 7/24/15	Fri 7/24/15	[Task bar from Fri 7/24/15 to Fri 7/24/15]																																																			
133	6.2.8	Review and Comment	6 wks	132	Mon 7/27/15	Fri 9/4/15	[Task bar from Mon 7/27/15 to Fri 9/4/15]																																																			
134	6.2.9	Final Design	4 wks	133	Mon 9/7/15	Fri 10/2/15	[Task bar from Mon 9/7/15 to Fri 10/2/15]																																																			
135	6.2.10	Submit Final Design	0 wks	134	Fri 10/2/15	Fri 10/2/15	[Task bar from Fri 10/2/15 to Fri 10/2/15]																																																			
136	6.2.11	Review	4 wks	135	Mon 10/5/15	Fri 10/30/15	[Task bar from Mon 10/5/15 to Fri 10/30/15]																																																			
137	6.2.12	EPA Approval of Final Design	0 wks	136	Fri 10/30/15	Fri 10/30/15	[Task bar from Fri 10/30/15 to Fri 10/30/15]																																																			
138	6.2.13	Prepare RAWP	8 wks	137	Mon 11/2/15	Fri 12/25/15	[Task bar from Mon 11/2/15 to Fri 12/25/15]																																																			
139	6.2.14	Submit RAWP	0 wks	138	Fri 12/25/15	Fri 12/25/15	[Task bar from Fri 12/25/15 to Fri 12/25/15]																																																			
140																																																										
141	7	<b>In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4</b>	<b>183 wks</b>		<b>Thu 12/26/13</b>	<b>Thu 6/29/17</b>	[Task bar from Thu 12/26/13 to Thu 6/29/17]																																																			
142	7.1	<b>Pre-Design Investigation &amp; Treatability Test Workplan</b>	<b>37 wks</b>	<b>15</b>	<b>Thu 12/26/13</b>	<b>Thu 9/11/14</b>	[Task bar from Thu 12/26/13 to Thu 9/11/14]																																																			
143	7.2	Beazer Submit Pre-Design Investigation & Treatability Test WP	0 wks	142	Thu 9/11/14	Thu 9/11/14	[Task bar from Thu 9/11/14 to Thu 9/11/14]																																																			
144	7.3	Review and Approval	8 wks	143	Thu 9/11/14	Thu 11/6/14	[Task bar from Thu 9/11/14 to Thu 11/6/14]																																																			
145	7.4	Conduct Pre-Design Investigation & Treatability Test	40 wks	144	Thu 11/6/14	Thu 8/13/15	[Task bar from Thu 11/6/14 to Thu 8/13/15]																																																			
146	7.5	Pilot Test Workplan	13 wks	145	Thu 8/13/15	Thu 11/12/15	[Task bar from Thu 8/13/15 to Thu 11/12/15]																																																			
147	7.6	Beazer Submit Pilot Test Workplan	0 wks	146	Thu 11/12/15	Thu 11/12/15	[Task bar from Thu 11/12/15 to Thu 11/12/15]																																																			
148	7.7	Review and Approval	8 wks	147	Thu 11/12/15	Thu 1/7/16	[Task bar from Thu 11/12/15 to Thu 1/7/16]																																																			
149	7.8	Conduct Pilot Test	13 wks	148	Thu 1/7/16	Thu 4/7/16	[Task bar from Thu 1/7/16 to Thu 4/7/16]																																																			
150	7.9	Preliminary Design	13 wks	149	Thu 4/7/16	Thu 7/7/16	[Task bar from Thu 4/7/16 to Thu 7/7/16]																																																			
151	7.10	Submit Preliminary Design	0 wks	150	Thu 7/7/16	Thu 7/7/16	[Task bar from Thu 7/7/16 to Thu 7/7/16]																																																			
152	7.11	Review and Comment	10 wks	151	Thu 7/7/16	Thu 9/15/16	[Task bar from Thu 7/7/16 to Thu 9/15/16]																																																			
153	7.12	Pre-Final Design	13 wks	152	Thu 9/15/16	Thu 12/15/16	[Task bar from Thu 9/15/16 to Thu 12/15/16]																																																			
154	7.13	Review and Comment	10 wks	153	Thu 12/15/16	Thu 2/23/17	[Task bar from Thu 12/15/16 to Thu 2/23/17]																																																			
155	7.14	Final Design	6 wks	154	Thu 2/23/17	Thu 4/6/17	[Task bar from Thu 2/23/17 to Thu 4/6/17]																																																			
156	7.15	Review and Approval	4 wks	155	Thu 4/6/17	Thu 5/4/17	[Task bar from Thu 4/6/17 to Thu 5/4/17]																																																			
157	7.16	EPA Approval of Final Design	0 wks	156	Thu 5/4/17	Thu 5/4/17	[Task bar from Thu 5/4/17 to Thu 5/4/17]																																																			
158	7.17	Prepare RAWP	8 wks	157	Thu 5/4/17	Thu 6/29/17	[Task bar from Thu 5/4/17 to Thu 6/29/17]																																																			
159	7.18	Submit RAWP	0 wks	158	Thu 6/29/17	Thu 6/29/17	[Task bar from Thu 6/29/17 to Thu 6/29/17]																																																			
160																																																										
161	8	<b>Other Engineered Components: DESIGN TRACK #5</b>	<b>87 wks</b>		<b>Mon 6/1/15</b>	<b>Fri 1/27/17</b>	[Task bar from Mon 6/1/15 to Fri 1/27/17]																																																			

