

April 15, 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

Subject: March 2014 Monthly Progress Report

Dear Mr. Miller:

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

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

John Herbert, GeoHydro Consultants

Patricia Cline, Community Technical Advisor

Linda Paul, Koppers, Inc. Mitchell Brourman, TRMI

Mike Slenska, TRMI

Donna Kopach, TRMI

Jim Erickson, Tetra Tech

VIA EMAIL

March 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: 1.15 gallons of NAPL were removed from Upper Hawthorn wells during the past month (1 recovery event on March 5, 2014). A total of 563 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 17 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. Recovery at TIPs 320N 140E and 300N 260E started in March, 2014. One NAPL recovery event was conducted during the month, with an additional removal at 420N 340E, resulting in a total of 122.6 gallons removed.
- NAPL was removed from one Surficial Aquifer well and five Upper Hawthorn recovery wells installed in the Former Process Area as part of the ISGS program (Table 3). One NAPL recovery event was conducted during the month, resulting in 28.5 gallons removed.
- A total of 3,953,795 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 89 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 628,928 gallons
 - Former North Lagoon Drain: 258,670 gallons
 - Former Drip Track Drain: 526,620 gallons
 - Former Process Area Drain: 496,090 gallons
 - Former South Lagoon Drain: 444,270 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 31,941 gallons
 - FW-21B: 168,568 gallons
 - FW-31BE: 941,350 gallons
 - FW-32BE: 497,870 gallons

Approximately 327.7 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 2,448,000 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 7 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 E was submitted on March 7, 2014 and Remedial Action Work Plan (RAWP) Off-Property Soil Replacement Block E Addendum was submitted on March 24, 2014.
- Off-Property soil replacement at Blocks G, H, and E of the Stephen Foster Neighborhood.
- Began ISGS Pilot Test in Process Area
- Remedial Design/Remedial Action Status Update Call (EPA/Beazer) March 31, 2014.
- Surveying at properties in the Stephen Foster Neighborhood.
- Interviews of Stephen Foster neighborhood property owners and residents.
- Periodic maintenance checks and inspections.
- Treatment-plant component maintenance and repair as needed.
- Pull and clean FW-31BE flow meter
- Repair pump and compressor for FW-6
- Remove failed North Lagoon pump to order replacement
- Troubleshoot filter feed pump at treatment facility.
- On-property irrigation using treated groundwater from FW-6, FW-21B, FW-31BE, and FW-32BE.
- Remediation agreement proposals sent to property owners in C and D blocks.

4. Upcoming Actions:

- Continuation of landscape surveys and interviews in the Stephen Foster neighborhood.
- RAWPs for Blocks D, C, B, A and I.
- Off-Property Remedial Action at Block D, beginning April 8, 2014.
- Off-Property Remedial Action at Block C.
- Completion of ISGS Pilot Test.
- NAPL collection at Upper Hawthorn monitoring wells: bi-weekly.
- NAPL collection at temporary Upper Hawthorn ISGS injection points: bi-weekly.
- Second quarter groundwater sampling event: planned for June 2 -6, 2014.
- Routine inspection, operation, maintenance, and monitoring.

5. Schedule Status:

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

6. Plan/Schedule Modifications:

Minor schedule modifications were made to the schedule submitted last month.

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 events) February 2014	DNAPL Volume (gal) 3/5/2014	Total This Month (gal) March 2014
HG-9S	0	Stain	0
HG-10S	0	ND	0
HG-10D	0	Stain	0
HG-11S	0.7	0.4	0.4
HG-12S	0.65	0.35	0.35
HG-12D	0	ND	0
HG-15S	0.55	0.4	0.4
HG-16S	0.4	Stain	0
HG-16D	0	Stain	0
MW-22B	0	Stain	0
Total	2.3	1.15	1.15
Cumulative Total	561.96		563.11

ND - No DNAPL Detected

Table 2. DNAPL Recovery Temporary Injection Points (TIPs)

Well ID	Total Last Month (gal) (1 event Plus 420N 340E)	DNAPL Volume (gal)	DNAPL Volume (gal)	Total This Month (gal)
	February 2014	3/10/2014	3/27/2014	March 2014
220N 180E	6.1	3.2	NP	3.2
280N 380E	6.5	3.4	NP	3.4
300N 180E	19.6	5.1	NP	5.1
300N 420E	6.9	2.5	NP	2.5
320N 220E	7	3	NP	3
320N 300E	6.6	3.1	NP	3.1
340N 340E	11.3	6.2	NP	6.2
360N 280E	8	3.6	NP	3.6
380N 340E	13.9	6	NP	6
400N 380E	12.8	6.2	NP	6.2
460N 340E	5.3	2.2	NP	2.2
420N 340E	45.5	23.8	41.3	65.1
220N 340E	2.2	0.7	NP	0.7
240N 380E	3.4	1.3	NP	1.3
340N 180E*	1.1	0.5	NP	0.5
320N 140E**	N/A	5.1	NP	5.1
300N 260E**	N/A	5.4	NP	5.4
Total	156.2	70.8	41.3	122.6

^{*340}N 180E Started recovery in Feb. 2014

NP - Not Pumped

^{**} Started recoverty in March 2014

Table 3. DNPL ISGS Recovery Data - DNPL Recovery Wells

Well ID	Total Last Month (gal) (2 events)	DNAPL Volume (gal)	Total This Month (gal)
	February 2014	3/4/2014	March 2014
M-38BE	1.5	Stain	0
M-39BE	NR	NR	NR
M-40BE	NR	NR	NR
M-41BE	NR	NR	NR
M-42BE	NR	NR	NR
HG-36SE	33	15.2	15.2
HG-37SE	6.7	3.1	3.1
HG-38SE	10.4	5.1	5.1
HG-39SE	5.2	2.5	2.5
HG-40SE	5.6	2.6	2.6
Total	62.4	28.5	28.5

NR - No Recovery

WBS Task Name	Duration Predecessors	Start	Finish	1Q13 2Q13	3Q13	4Q13	1Q14	2Q14	3Q14	4Q14	1Q15	2Q15	3Q15	4Q15	1Q16	2Q16	3Q16	4Q16	1Q17
1 Consent Decree for RD/RA	23.8 wks	Thu 2/7/13	Wed 7/24/13	J F M A M J	JAS	OND	J F M	A M J	J A S	OND	J F M	A M J	JAS	OND	J F M	A M J	JAS	OND	J F M
		Thu 2/7/13		•															
1.1 US DOJ Lodges Donsent Decree with Court 1.2 Public Comment on Consent Decree	0 days 4.6 wks		Thu 2/7/13	•															
		Wed 2/13/13	Fri 3/15/13																
1.3 Beazer Submittal: Project Coordinators, Supervising Contractor, Quality Management Plan	0 days	Fri 2/15/13	Fri 2/15/13	•															
1.4 Court Enters Consent Decree Final	0 days	Tue 7/9/13	Tue 7/9/13		_														
1.5 EPA Issues Authorization to Proceed with Remedial Design	0 days	Wed 7/24/13																	
	, .																		
2 Remedial Design Work Plan (RDWP)	22.3 wks	Wed 7/24/13	Thu 12/26/13																
2.1 Prepare RDWP	43 days 6	Wed 7/24/13	Fri 9/20/13			_													
2.2 Beazer Submit RDWP	0 wks 9	Fri 9/20/13	Fri 9/20/13																
2.2 Beazer Submit RDWP 2.3 EPA Review and Comment RDWP	6.8 wks 10	Mon 9/23/13	Thu 11/7/13		`														
2.4 Beazer Respond to Comments	4.3 wks 11	Fri 11/8/13																	
2.5 Beazer Submit Responses and RDWP Version 2	0 wks 12	Mon 12/9/13																	
2.6 EPA Review	2.6 wks 13	Mon 12/9/13					·												
2.7 EPA Approval RDWP	0 wks 14	Thu 12/26/13																	
Zii Zii Ni ppiotal (2011)	o mo i i	1110 12/20/10	1110 12/20/10																
3 Supporting Plans for RD/RA	32.2 wks	Fri 9/20/13	Mon 5/5/14		_														
3 Supporting Plans for RD/RA 3.5 Beazer Submit Health & Safety Plan	0 wks 10	Fri 9/20/13	Fri 9/20/13			+													
3.2 Materials Management Plan	5 wks 10	Tue 4/1/14	Mon 5/5/14				+												
3.6 Stormwater Management Plan	5 wks 19FF	Tue 4/1/14	Mon 5/5/14																
3.6 Stormwater Management Plan 3.7 Noise and Dust Control Plan	5 wks 19FF	Tue 4/1/14	Mon 5/5/14																
3.5 Equipment Decontamination Plan	5 wks 19FF	Tue 4/1/14 Tue 4/1/14	Mon 5/5/14																
3.5 Equipment Decontamination Plan 3.6 Quality Assurance Project Plan (update)	4 wks	Mon 2/24/14	Fri 3/21/14																
		Mon 3/24/14					-												
3.7 Data Management Plan	3 wks 23	101011 3/24/14	Fri 4/11/14				T	•											
4 Off-Property Soil Replacement (OU-5): DESIGN TRACK #1	58 wks	Tue 4/30/13	Mon 6/9/14																
	0 wks	Tue 4/30/13	Tue 4/30/13																
	23 wks	Thu 5/2/13		•															
, , ,	0 wks					_													
•		Thu 5/30/13		•															
4.4 Sampling for Refinement of Remediation Parcels (July 2013)	18.8 wks	Fri 7/19/13	Wed 11/27/13																
4.4.1 Proposal for Sampling (July 2013)	0 wks	Fri 7/19/13	Fri 7/19/13																
4.4.2 EPA Approval of Sampling	0 wks	Mon 7/22/13	Mon 7/22/13																
4.4.2 EPA Approval of Sampling 4.4.3 Sample Collection	2 days	Tue 7/30/13																	
4.4.4 Analysis and Validation	6.2 wks 33	Thu 8/1/13																	
4.4.5 Data Summary Report	10.8 wks 34		Wed 11/27/13																
4.4.6 Beazer Submit Data Summary and Fingerprinting Report	0 wks 35	Wed 11/27/13			"														
4.5 Pilot Home Soil Replacement	10.3 wks	Thu 9/26/13			.	·													
4.5.1 Survey	1.8 wks	Thu 9/26/13			`	<u> </u>													
4.5.2 Design & Interview	3 wks 38	Wed 10/9/13				**													
4.5.3 Borrow Sampling	2 wks	Thu 10/10/13																	
4.5.4 Sample Analysis	2 wks 40	Thu 10/24/13																	
4.5.5 Pilot Plan	6 wks	Thu 9/26/13																	
4.5.6 Submit Pilot Plan	0 wks 42,41	Wed 11/6/13																	
4.5.7 Review	1 wk 43	Thu 11/7/13																	
4.5.8 EPA Approval of Pilot Plan	0 wks 44		Wed 11/13/13 Wed 11/13/13																
4.5.9 Permitting	2 wks 45FF	Thu 10/31/13																	
4.5.10 Pilot Implementation	3.3 wks 46,45	Thu 10/31/13																	
4.6 Remedial Design Details	12.4 wks 35	Thu 11/14/13																	
4.7 Submit RD Details	0 wks 48	Fri 2/21/14	Fri 2/21/14																
4.8 Review and Comment	0.8 wks 49	Mon 2/24/14	Thu 2/27/14																
4.9 Surveying & Interviews	34 wks	Mon 9/16/13	Fri 5/9/14		_		•												
4.9 Surveying & Interviews 4.10 Parcel Designs & Remediation Agreements	25 wks	Mon 12/2/13	Fri 5/23/14		'														
4.11 Final Design and RAWP	15.4 wks	Fri 2/21/14	Mon 6/9/14		 														

Date: Wed 4/16/14 Page 1 of 4

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ID	WBS Task Name	Duration Predecessors	Start	Finish	1Q13 2Q13 J F M A M J	3Q13	3 4Q13 S O N D	1Q14 J F M	2Q14	3Q14	4Q14	1Q15	2Q15	3Q15 J A S	4Q15 O N D	1Q16 J F M	2Q16 A M J	3Q16	4Q16 1	Q17 2
54	4.11.1 Submit Pre-Final Designs & RAWP: Blocks G & H	0 wks	Fri 2/21/14	Fri 2/21/14		<u> </u>	5 5 1.1 2	•		3 17.13			.,,,,,,,	0 1 . 0	<u> </u>	0 1 . 1	7 1 1 1 1 1	77.110	1.1.	. ,
55	4.11.2 Final Design and RAWP Approval: Blocks G-H	1 wk 54	Fri 2/21/14	Thu 2/27/14																
56	4.11.3 Submit Pre-Final Designs & RAWP: Blocks E&F	0 wks	Fri 3/7/14	Fri 3/7/14]			\	1											
57	4.11.4 Final Design and RAWP Approval: Blocks E&F	1 day 56	Fri 3/7/14	Fri 3/7/14	1			I `	1											
58	4.11.5 Submit Pre-Final Designs & RAWP: Block D	0 wks	Thu 4/3/14		1															
9	4.11.6 Final Design and RAWP Approval: Block D	2 days 58	Thu 4/3/14						I											
60	4.11.7 Submit Pre-Final Designs & RAWP: Block C	0 wks 58FF+3 wks	Wed 4/23/14																	
1	4.11.8 Final Design and RAWP Approval: Block C	0.6 wks 60	Thu 4/24/14		1															
2	4.11.9 Submit Pre-Final Designs & RAWP: Block B	0 wks 60FF+2 wks	Wed 5/7/14		1)										
	4.11.10 Final Design and RAWP Approval: Block B	0.6 wks 62	Thu 5/8/14		1															
_	4.11.11 Submit Pre-Final Designs & RAWP: Block A	0 wks 62FF+2 wks	Wed 5/21/14		1				🔩											
	4.11.12 Final Design and RAWP Approval: Block A	0.6 wks 64	Thu 5/22/14		1					4										
	4.11.13 Submit Pre-Final Designs & RAWP: Block I 4.11.14 Final Design and RAWP Approval: Block I	0 wks 64FF+2 wks 0.6 wks 66	Wed 6/4/14 Thu 6/5/14		1					¥										
7 8		16.4 wks	Fri 10/25/13		1				"											
9	4.12 Community Meetings 4.12.1 Community Meeting: Landscaping Workshop - City (Oct 26)	2 days	Fri 10/25/13		1															
0	4.12.2 Community Meeting (Jan 18 2014)	2 days	Fri 1/17/14		1		'													
1	4.12.3 Community Meeting (Feb 18 2014)	0 wks	Tue 2/18/14		1															
2	4.12.3 Community weeding (1 cb 10 2014)	O WKS	Tuc 2/10/14	100 2/10/14																
3	5 Cutoff Wall and Stormwater Controls: DESIGN TRACK #2	77 wks	Thu 12/26/13	Thu 6/18/15					 											
4	5.1 Pre-Design Work Plan	20 wks 15	Thu 12/26/13	Thu 5/15/14				1					_							
5	5.2 Submit Pre-Design Work Plan	0 wks 74	Thu 5/15/14																	
6	5.3 Review and Approval	4 wks 75	Thu 5/15/14		1															
7	5.4 EPA Approval of Pre-Design Work Plan	0 wks 76	Thu 6/12/14	Thu 6/12/14						<u> </u>										
8	5.5 Pre-Design Investigation	12 wks 77	Thu 6/12/14	Thu 9/4/14						*										
9	5.6 Preliminary Design	6 wks 78	Thu 9/4/14	Thu 10/16/14																
0	5.7 Submit Preliminary Design	0 wks 79	Thu 10/16/14	Thu 10/16/14																
1	5.8 Review and Comment	6 wks 80	Thu 10/16/14	Thu 11/27/14																
32	5.9 Pre-Final Design	6 wks 81	Thu 11/27/14	Thu 1/8/15																
33	5.10 Review and Comment	6 wks 82	Thu 1/8/15	Thu 2/19/15																
34	5.11 Final Design	6 wks 83	Thu 2/19/15		1															
5	5.12 Review	3 wks 84	Thu 4/2/15		1															
6	5.13 EPA Approval of Final Design	0 wks 85	Thu 4/23/15		1															
7	5.14 Prepare RAWP	8 wks 86	Thu 4/23/15		I															
8	5.15 Submit RAWP	0 wks 87	Thu 6/18/15	Thu 6/18/15									•							
39 90	6 In-Situ Geochemical Stabilization (ISGS): DESIGN TRACK #3	145.4 wks	Thu 2/7/13	Fri 11/20/15					Ц											
11	6.1 Process Area	91.4 wks	Thu 2/7/13		4															
2	6.1.1 EPA Approval of ISGS Demonstration Work Plan (2012)	0 wks	Thu 2/7/13		1 '						_									
3	6.1.2 Preliminary Design (included in Demonstration Work Plan)	0 wks	Thu 2/7/13		1 '															
4	6.1.3 Characterization and DNAPL Recovery (began 2012)	32 wks	Thu 2/7/13		1 '															
5	6.1.4 Characterization Report and Pilot Test Plan	11.8 wks 94	Thu 9/19/13																	
3	6.1.5 Submit Characterization Report and Pilot Test Plan	0 wks 95	Tue 12/10/13	Tue 12/10/13			•													
7	6.1.6 Review and Approval of Pilot Test Plan	10 wks 96	Wed 12/11/13	Tue 2/18/14]															
8	6.1.7 Technical Working Group Meeting	0 wks	Wed 12/18/13	Wed 12/18/13			•	$\parallel \parallel \perp$												
9	6.1.8 Pilot Injection Testing	4 wks 97	Mon 3/17/14		1				**											
	6.1.8.1 Pre-Pilot Testing & Chemical Delivery	1 wk	Mon 3/17/14	Fri 3/21/14	1				\downarrow											
	6.1.8.2 Pilot Injections	3 wks 100	Mon 3/24/14	Fri 4/11/14																
)2	6.1.9 Pre-Final Design	12 wks 101	Mon 4/14/14	Fri 7/4/14	1															
3	6.1.10 Submit Pre-Final Design	0 wks 102	Fri 7/4/14	Fri 7/4/14	1															
)4	6.1.11 Review and Comment	8 wks 103	Mon 7/7/14	Fri 8/29/14	1															
)5	6.1.12 Final Design and RAWP	4 wks 104	Mon 9/1/14	Fri 9/26/14	I						.									
)6	6.1.13 Submit Final Design and RAWP	0 wks 105	Fri 9/26/14	Fri 9/26/14	1					1	—									
07	6.1.14 Review 6.1.15 EPA Approval of Final Design and RAWP	6 wks 106	Mon 9/29/14		1															
08	1 1	0 wks 107	Fri 11/7/14	Fri 11/7/14							•									
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ID	WB	S Ta	sk Name	Duration	Predecessors	Start	Finish	1Q13 2Q13 3Q13 4Q13 1Q14 2Q14 3Q14 4Q14 1Q15 2Q15 3Q15 4Q15 1Q16 2Q16 3Q16 4Q16 1Q17 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 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 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 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 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 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 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 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 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 J J A S O N D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D 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 D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D 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 D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J J A S O N D D J F M A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M J A M
109	(6.2	South Lagoon	74 wks		Mon 6/23/14	Fri 11/20/15	
110	6.2	2.1	Preliminary Design & Design Investigation Work Plan	6 wks		Mon 6/23/14	Fri 8/1/14	
111		2.2	Submit Preliminary Design & Design Investigation Work Plan	0 wks	110	Fri 8/1/14	Fri 8/1/14	
112	6.2	2.3	Review and Approval Preliminary Design & Design Investigation Work Plan	6 wks	111	Mon 8/4/14	Fri 9/12/14	
113	6.2	2.4	Installation of Borings and DNAPL Recovery Wells	8 wks	112	Mon 9/15/14	Fri 11/7/14	
114		2.5	Collection of Baseline Data	26 wks		Mon 11/10/14	Fri 5/8/15	
115	6.2	2.6	Pre-Final Design	6 wks	114	Mon 5/11/15	Fri 6/19/15	
116	6.2	2.7	Submit Pre-Final Design	0 wks	115	Fri 6/19/15	Fri 6/19/15	
117	6.2	2.8	Review and Comment	6 wks	116	Mon 6/22/15	Fri 7/31/15	
118	6.2	2.9	Final Design	4 wks	117	Mon 8/3/15	Fri 8/28/15	
119	6.2.	.10	Submit Final Design	0 wks	118	Fri 8/28/15	Fri 8/28/15	
120	6.2	.11	Review	4 wks	119	Mon 8/31/15	Fri 9/25/15	
121	6.2.	.12	EPA Approval of Final Design	0 wks	120	Fri 9/25/15	Fri 9/25/15	
122	6.2.		Prepare RAWP	8 wks		Mon 9/28/15	Fri 11/20/15	
123	6.2.	.14	Submit RAWP	0 wks	122	Fri 11/20/15	Fri 11/20/15	
124		7 In	-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4	176 wko		Th.: 42/26/42	Th., 5/44/47	
125 126			Pre-Design Investigation & Treatability Test Workplan	176 wks	15	Thu 12/26/13 Thu 12/26/13	Thu 5/11/17 Thu 7/24/14	
127			Beazer Submit Pre-Design Investigation & Treatability Test WP	0 wks		Thu 7/24/14	Thu 7/24/14	
128			Review and Approval	8 wks		Thu 7/24/14	Thu 9/18/14	
129			Conduct Pre-Design Investigation & Treatability Test	40 wks		Thu 9/18/14	Thu 6/25/15	
130			Pilot Test Workplan	13 wks		Thu 6/25/15	Thu 9/24/15	
131			Beazer Submit Pilot Test Workplan	0 wks		Thu 9/24/15	Thu 9/24/15	
132	-	7.7	Review and Approval	8 wks	131	Thu 9/24/15	Thu 11/19/15	
133	-		Conduct Pilot Test	13 wks	132	Thu 11/19/15	Thu 2/18/16	
134	-	7.9	Preliminary Design	13 wks	133	Thu 2/18/16	Thu 5/19/16	
135	7.	.10	Submit Preliminary Design	0 wks	134	Thu 5/19/16	Thu 5/19/16	
136	7.	.11	Review and Comment	10 wks	135	Thu 5/19/16	Thu 7/28/16	
137	7.	.12	Pre-Final Design	13 wks	136	Thu 7/28/16	Thu 10/27/16	
138	7.		Review and Comment	10 wks	137	Thu 10/27/16	Thu 1/5/17	
139	7.	.14	Final Design	6 wks	138	Thu 1/5/17	Thu 2/16/17	
140			Review and Approval	4 wks		Thu 2/16/17	Thu 3/16/17	
141			EPA Approval of Final Design	0 wks		Thu 3/16/17	Thu 3/16/17	
142			Prepare RAWP	8 wks		Thu 3/16/17	Thu 5/11/17	
143	7.	.18	Submit RAWP	0 wks	142	Thu 5/11/17	Thu 5/11/17	
144		0.04	they Fredingered Commencents, DECION TRACK #5	07		Man C/4/45	F.: 4/07/47	
145			ther Engineered Components: DESIGN TRACK #5	87 wks 6 wks		Mon 6/1/15	Fri 1/27/17	
146 147			Pre-Design Work Plan Submit Pre-Design Work Plan	0 wks	146	Mon 6/1/15 Fri 7/10/15	Fri 7/10/15 Fri 7/10/15	
147			Review and Approval	6 wks		Mon 7/13/15	Fri 8/21/15	
149			EPA Approval of Pre-Design Work Plan	0 wks		Fri 8/21/15	Fri 8/21/15	
150			Pre-Design Investigation	26 wks		Mon 8/24/15	Fri 2/19/16	
151			Preliminary Design	6 wks		Mon 2/22/16	Fri 4/1/16	
152			Submit Preliminary Design	0 wks		Fri 4/1/16	Fri 4/1/16	
153			Review and Comment	6 wks		Mon 4/4/16	Fri 5/13/16	
154			Pre-Final Design	13 wks		Mon 5/16/16	Fri 8/12/16	
155			Review and Comment	6 wks		Mon 8/15/16	Fri 9/23/16	
156			Final Design	6 wks		Mon 9/26/16	Fri 11/4/16	
157			Review	4 wks		Mon 11/7/16	Fri 12/2/16	
158			EPA Approval of Final Design	0 wks		Fri 12/2/16	Fri 12/2/16	
159	8.	.14	Prepare RAWP	8 wks	158	Mon 12/5/16	Fri 1/27/17	
160	8.	.15	Submit RAWP	0 wks	159	Fri 1/27/17	Fri 1/27/17	
161								
162		9 Ins	stitutional Control	92.3 wks		Tue 7/9/13	Wed 4/15/15	
Project Date: V Page 3			chedule 20140415 Red text used for current t	asks Ta	nsk		Milestone ◆	Summary ————————————————————————————————————

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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 0 N D	1Q17	2Q17
163	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks 5	Tue 7/9/13	Fri 8/23/13	J F M	A M J	JIAIS	OND	J F M	<u>A M J</u> 	J A S	O N E) J F M	I A M J	J A S	SOND	J F M	I A M J	J A S	OND	J F M	<u>A M ,</u>
164	9.2	Submit ICIAP	0 wks 163	Fri 8/23/13	Fri 8/23/13			*															
165	9.3	Review	12.5 wks 164	Mon 8/26/13	Wed 11/20/13																		
166	9.4	Beazer Respond to Comments	23 wks 165	Wed 11/20/13	Wed 4/30/14																		
167	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks 166	Wed 4/30/14	Wed 4/30/14																		
168	9.6	Review	3 wks 167	Wed 4/30/14	Wed 5/21/14																		
169	9.7	EPA and FDEP Approval of ICIAP	0 wks 168	Wed 5/21/14	Wed 5/21/14						😽												
170	9.8	Implement Beazer-Property Restrictive Covenant	47 wks	Wed 5/21/14	Wed 4/15/15										-								
171	9.8.1	Draft Proprietary Controls Package	13 wks 169	Wed 5/21/14	Wed 8/20/14																		
172	9.8.2	Submit Draft Proprietary Controls Package	0 wks 171	Wed 8/20/14	Wed 8/20/14							1											
173	9.8.3	Review and Updating	8 wks 172	Wed 8/20/14	Wed 10/15/14																		
174	9.8.4	Update Title Search and Prepare Public Notice	8 wks 173	Wed 10/15/14	Wed 12/10/14									\Box									
175	9.8.5	Beazer Publish Public Notice	0 wks 174	Wed 12/10/14	Wed 12/10/14								•	1									
176	9.8.6	Public Comment Period	4.4 wks 175	Wed 12/10/14	Fri 1/9/15									—									
177	9.8.7	Address Comments and Exectute Restrictive Covenant	5 wks 176	Fri 1/9/15	Fri 2/13/15																		
178	9.8.8	Record Restrictive Covenant at Alacha County Clerk of Court	0 wks 177	Fri 2/13/15	Fri 2/13/15									•									
179	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks 178	Fri 2/13/15	Wed 4/15/15																		
180	9.8.10	Submit Final Proprietary Controls Package	0 wks 179	Wed 4/15/15	Wed 4/15/15																		

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Summary **T**