

November 14, 2018

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

Subject: October 2018 Monthly Progress Report

Dear Mr. Miller:

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

Sincerely,

Gregory W. Council, P.E.

Principal Engineer

cc: Tracie Vaught, FDEP

Rusty Kestle, USEPA
Robin Hallbourg, ACEPD
Agustin (Gus) Olmos, ACEPD
Kristie Williams, City of Gainesville

Yvette Carter, City of Gainesville

Rick Hutton, GRU

Carrie McCoy, Black & Veatch

John Herbert, GeoHydro Consultants

Patricia Cline, Community Technical Advisor

Linda Paul, Koppers, Inc.

Mitchell Brourman, TRMI

Mike Slenska, TRMI

Donna Kopach, TRMI

Jim Erickson, Tetra Tech

Wayne Reiber, Cabot Corporation

Steve Clark, FTS

John Helton, FTS

Bryan Cotter, Water and Air Research, Community Technical Advisor

Mark Taylor, Weston Solutions

VIA EMAIL

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

1. Compliance Actions:

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

2. Sampling/Test Results and Data:

- Instantaneous flow rates and totalizer volumes were measured in each extraction well.
- The bi-weekly passive NAPL recovery program continues at Upper Hawthorn monitoring wells and temporary injection points (TIPs) installed as part of the In-Situ Geochemical Stabilization (ISGS) program. Two NAPL recovery events were conducted during the month for the monitoring wells and three were conducted for the TIPs.
- Table 1 provides DNAPL collection data for wells at the Former North Lagoon and Drip Track. The
 only monitored TIP outside the Former Process Area and Former South Lagoon is at the Drip Track
 (Table 1). Process Area and South Lagoon recovery data will be included in forthcoming
 performance monitoring submittals.
- A total of 4,140,884 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 92.8 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer

Perimeter Extraction Wells: 565,246 gallons
Former North Lagoon Drain: 502,210 gallons
Former Drip Track Drain: 519,640 gallons
Former Process Area Drain: 506,950 gallons
Former South Lagoon Drain: 520,290 gallons

Upper Floridan Extraction Wells

FW-6: 23,045 gallons
FW-21B: 191,815 gallons
FW-31BE: 793,710 gallons
FW-32BE: 517,978 gallons

Approximately 453.2 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 measured to be 2,642,000 gallons. A portion of the water, from Upper Floridan Aquifer wells, was treated and used for on-Property irrigation.

The Former Process Area groundwater drain pump was turned off for approximately 9 hours to pump and clean clarifiers and to treat backwash water.

3. Plans, Reports, Deliverables and Procedures Completed:

- Submitted Former North Lagoon and Drip Track Preliminary Design and Design Investigation Workplan on October 29, 2018.
- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) October 16, 2018.
- Periodic maintenance checks and inspections.
- Treatment-plant component maintenance and repair as needed (caustic pump, carbon vessel gaskets and gauges, sludge pump diverter valve, bag filter vessel). Jetted clarifier effluent line, pressure washed clarifier, cleaned oil from sump, installed and calibrated process flow meters, and installed chemical pump output channels.
- Sampled irrigation breakthrough water October 30, 2018.
- Sampled stormwater rinsate water on October 1, 2018.
- Investigated FW-31 VFD and installed a new one.
- Repaired/rebuilt KIFCO cart (part of irrigation system).
- Repaired FW-6 compressor.
- Repaired EW-14 pump and flow meter.
- Cleaned EW-14 pump head.
- Installed new modem at weather station.
- On-property irrigation using treated groundwater from FW-21B, FW-31BE, and FW-32BE.

4. Upcoming Actions:

- Fourth quarter sampling event December 17-18, 2018.
- NAPL collection at Upper Hawthorn monitoring wells: bi-weekly.
- NAPL collection at temporary Upper Hawthorn ISGS injection points: bi-weekly.
- Routine inspection, operation, maintenance, and monitoring.

5. Schedule Status:

Minor modifications were made to the project schedule.

6. Community Involvement:

Future community involvement activities will be coordinated with EPA.

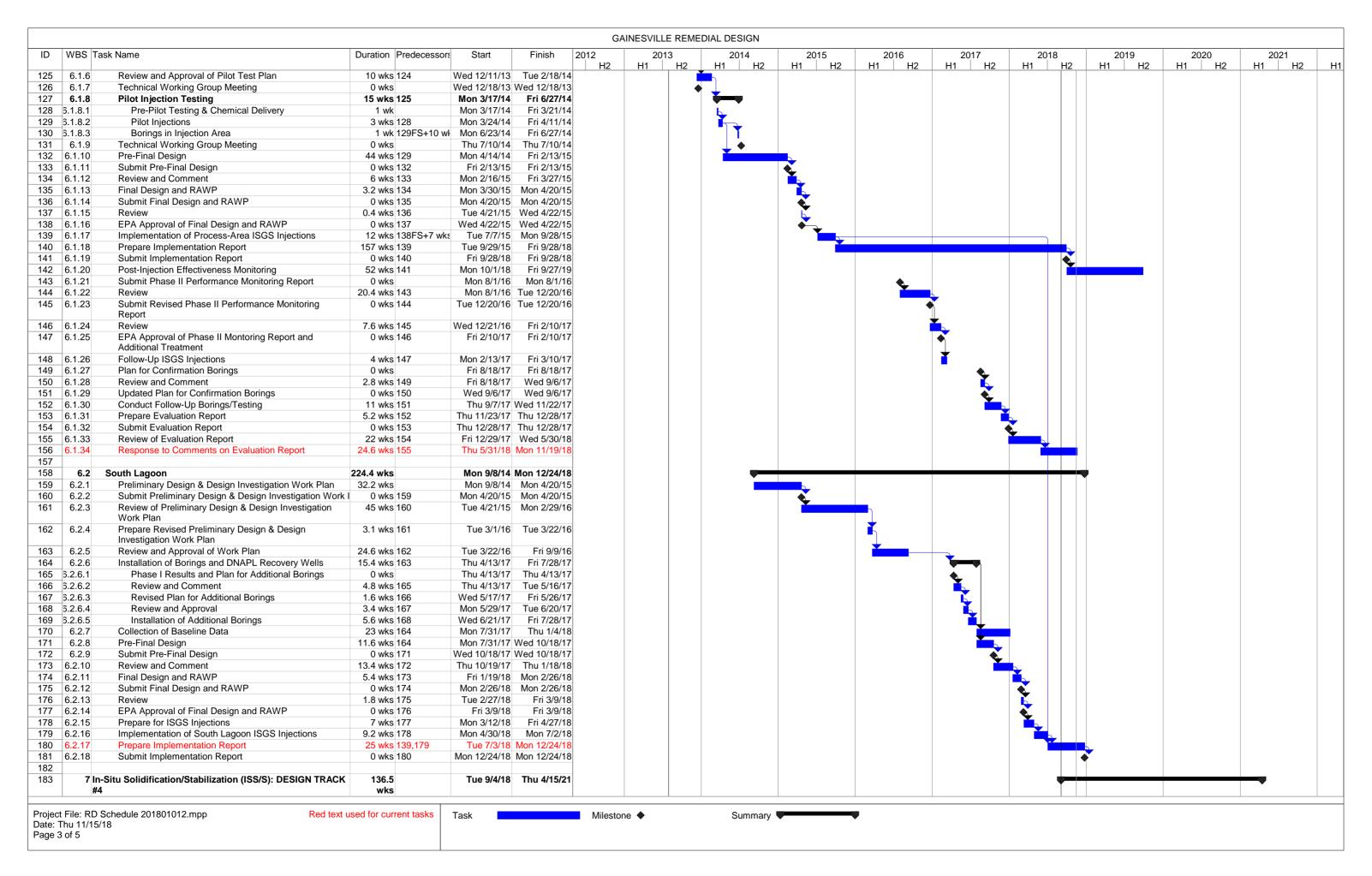
Table 1. DNAPL recovery volume (gal) at wells and at Drip Track TIP: October 2018

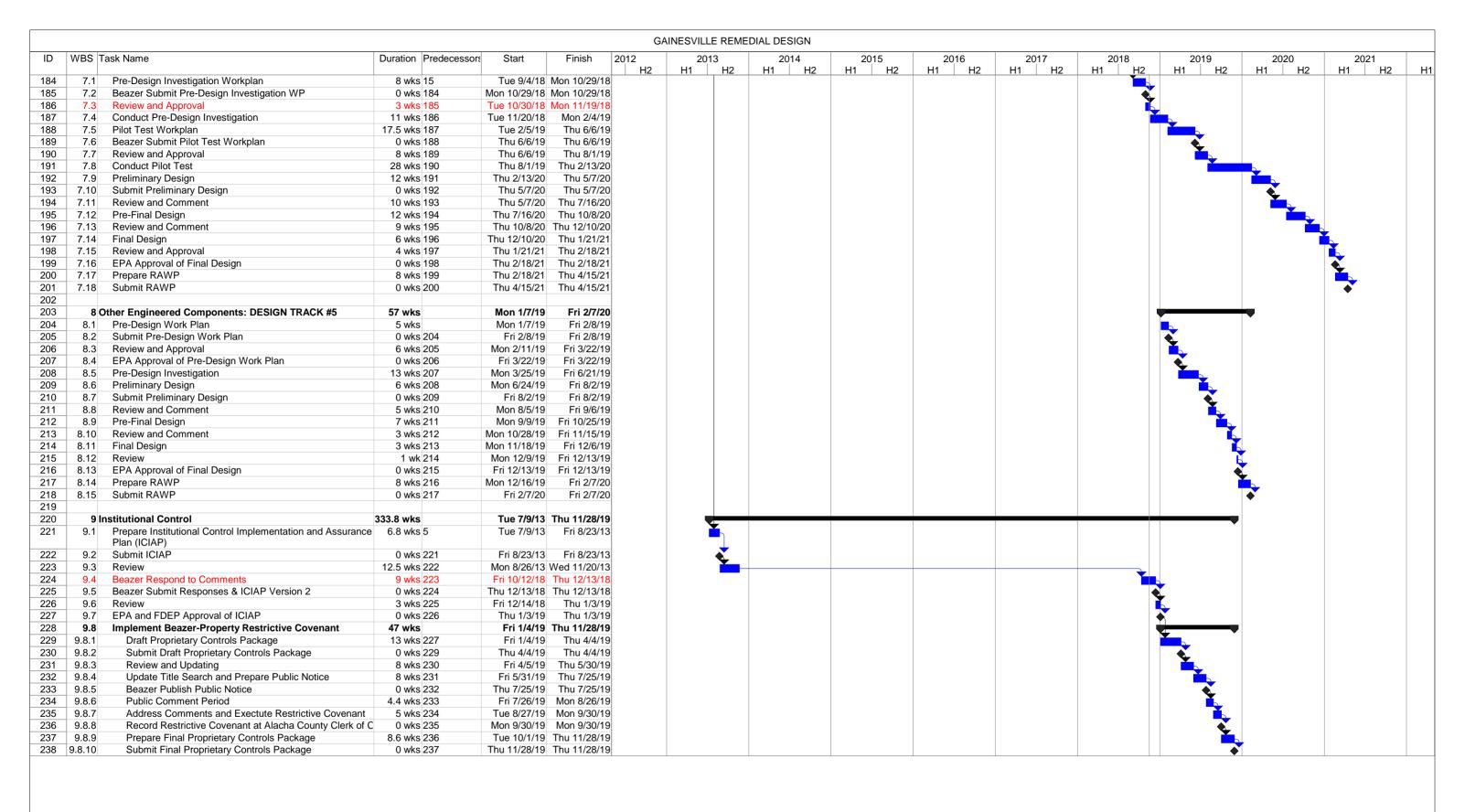
Date	Well	Volume (gal)					
	HG-10S	Stain					
	HG-10D	Stain					
	HG-12S	0.4					
10/11/2018	HG-12D	ND					
	HG-16S	Stain					
	HG-16D	Stain					
	MW-22B	Stain					
	HG-10S	Stain					
	HG-10D	Stain					
10/25/2018	HG-12S	0.5					
	HG-12D	ND					
	HG-16S	Stain					
	HG-16D	Stain					
	MW-22B	Stain					
10/2/2018	Drip Track	0.4					
10/16/2018	Drip Track	0.5					
10/30/2018	Drip Track	0.6					

ID W	RS T	ask Name	Duration	Predecessors	Start	Finish 2012	2013		2014	2015	2016	2017	2018	2019	2020	2021	\neg
עון	D3 I	ask Name	Duration	rieuecessois	Start	H2		H2	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2	H1 H2	
1	_	Consent Decree for RD/RA	23.8 wks			Wed 7/24/13											
	1.1	US DOJ Lodges Donsent Decree with Court	0 days		Thu 2/7/13		•										
	1.2	Public Comment on Consent Decree Beazer Submittal: Project Coordinators, Supervising	4.6 wks 0 days		Wed 2/13/13 Fri 2/15/13												
4	1.3	Contractor, Quality Management Plan	0 uays		111 2/13/13	F11 2/ 13/ 13	•										
5	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			Wed 7/24/13												
7			, .				1										
8	2 R	lemedial Design Work Plan (RDWP)	22.3 wks		Wed 7/24/13	Thu 12/26/13		_									
9	2.1	Prepare RDWP	43 days		Wed 7/24/13	Fri 9/20/13		ь 1									
10	2.2	Beazer Submit RDWP	0 wks	9	Fri 9/20/13	Fri 9/20/13											
	2.3	EPA Review and Comment RDWP	6.8 wks			Thu 11/7/13											
	2.4	Beazer Respond to Comments	4.3 wks			Mon 12/9/13											
	2.5	Beazer Submit Responses and RDWP Version 2	0 wks			Mon 12/9/13											
	2.6	EPA Review	2.6 wks			Thu 12/26/13		🦫	-								
	2.7	EPA Approval RDWP	0 wks	14	Thu 12/26/13	Thu 12/26/13		•									
16		house and an Diana fan DD/DA	400.0		F-: 0/00/40	Th 0/07/45	<u> </u>										
17		Supporting Plans for RD/RA	100.8 wks			Thu 8/27/15		\star									
	3.5	Beazer Submit Health & Safety Plan Materials Management Plan	0 wks 5 wks		Fri 9/20/13 Tue 4/1/14			•	★								
	3.6	Stormwater Management Plan	5 wks		Tue 4/1/14 Tue 4/1/14												
	3.7	Noise and Dust Control Plan	5 wks		Tue 4/1/14												
	3.5	Equipment Decontamination Plan	5 wks		Tue 4/1/14												
	3.6	Beazer update QAPP	33.8 wks			Thu 8/27/15											
	3.7	Beazer Submit Revised QAPP	0 wks	23	Thu 8/27/15	Thu 8/27/15				•							
25										,							
26	4 C	Off-Property Soil Replacement (OU-5): DESIGN TRACK #1	121.4 wks		Tue 4/30/13	Thu 8/27/15				_							
27	4.1	Initial Identification of Remediation & Evaluation Parcels	0 wks		Tue 4/30/13	Tue 4/30/13	•										
	4.2	Obtain Access Agreements for Surveys & Sampling	23 wks			Wed 10/9/13											
	4.3	Community Information Session	0 wks			Thu 5/30/13	•										
30	4.4	Sampling for Refinement of Remediation Parcels (July	18.8 wks		Fri 7/19/13	Wed 11/27/13	_										
		2013)			= : = / : = / : =	= 1 = // a // a											
	.4.1	Proposal for Sampling (July 2013)	0 wks			Fri 7/19/13	•										
	.4.2	EPA Approval of Sampling	0 wks			Mon 7/22/13	•										
	.4.3 .4.4	Sample Collection Analysis and Validation	2 days 6.2 wks			Wed 7/31/13 Thu 9/12/13											
	.4.4	Data Summary Report	10.8 wks			Wed 11/27/13		—									
	.4.6	Beazer Submit Data Summary and Fingerprinting Report			Wed 11/27/13												
	4.5	Pilot Home Soil Replacement	10.3 wks			Fri 12/6/13											
	.5.1	Survey	1.8 wks			Tue 10/8/13	'										
	.5.2	Design & Interview	3 wks		Wed 10/9/13	Tue 10/29/13											
	.5.3	Borrow Sampling	2 wks		Thu 10/10/13												
41 4.	.5.4	Sample Analysis	2 wks	40	Thu 10/24/13	Wed 11/6/13		\									
	.5.5	Pilot Plan	6 wks		Thu 9/26/13	Wed 11/6/13											
	.5.6	Submit Pilot Plan	0 wks		Wed 11/6/13												
	.5.7	Review	1 wk			Wed 11/13/13		₩									
	.5.8	EPA Approval of Pilot Plan	0 wks		Wed 11/13/13			•									
	.5.9	Permitting	2 wks		Thu 10/31/13			!!!									
	5.10	Pilot Implementation	3.3 wks		Thu 11/14/13		_										
	4.6 6.1	Blocks A-I Remediation Design	42.4 wks		Mon 9/16/13			<u> </u>									
	.6.1 .6.2	Remedial Design Details Submit RD Details	12.4 wks 0 wks		Thu 11/28/13	Fri 2/21/14 Fri 2/21/14			<u> </u>								
	.6.3	Review and Comment	0.8 wks			Thu 2/27/14			*								
	.6.4	Surveying & Interviews	34 wks		Mon 9/16/13												
	.6.5	Parcel Designs & Remediation Agreements	28 wks			Fri 6/13/14											
	.6.6	Final Design and RAWP	19.6 wks		Fri 2/21/14												
55 4.6.		Submit Pre-Final Designs & RAWP: Blocks G & H	0 wks		Fri 2/21/14				•								
56 4.6.		Final Design and RAWP Approval: Blocks G-H	1 wk			Thu 2/27/14			Y								
57 4.6.		Submit Pre-Final Designs & RAWP: Blocks E&F	0 wks		Fri 3/7/14				<u>*</u>								
58 4.6.		Final Design and RAWP Approval: Blocks E&F	1 day		Fri 3/7/14	Fri 3/7/14			T								
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.		Final Design and RAWP Approval: Block D	2 days		Thu 4/3/14												
61 4.6.		Submit Pre-Final Designs & RAWP: Block C		59FF+4 wks	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			•								\perp

Date: Thu 11/15/18 Page 1 of 5

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4.8.4 P 4.8.5 R 4.8.6 F	Pre-Final Design and Access		Mon 6/16/14	Fri 7/18/14											
4.8.5 R 4.8.6 F		5 wks 77SS+1 wk	Mon 6/23/14	Fri 7/25/14	-			—							
4.8.6 F	RAWP: Block J	7 wks 78SS+1 wk	Mon 6/30/14	Fri 8/15/14	-			>							1
		0 wks	Fri 7/25/14		-			•							
	Final Design & RAWP Approval: Block J	1 wk 80		Thu 7/31/14				- [↓							
	RAWP: Block K	0 days 79	Wed 8/20/14		4			•							1
	Final Design and RAWP Approval: Block K	4 days 82	Wed 8/20/14												1
	,	16.4 wks	Fri 10/25/13					-							1
	Community Meeting: Landscaping Workshop - City (Oct :			Mon 10/28/13											
	Community Meeting (Jan 18 2014)	2 days		Mon 1/20/14											
	Community Meeting (Feb 18 2014)	0 wks		Tue 2/18/14	-		-	•							
	elementation of Remedial Action	39 wks	Mon 2/17/14		-				-						
	-Final Inspection		Tue 11/18/14					•	,						
	pare Implementation Report		Mon 11/17/14		-			Ĭ							1
	omit Implementation Report	0 wks 90	Tue 7/28/15						•						1
	A Approval of Implementation Report	0 wks	Thu 8/27/15	Thu 8/27/15					•						1
3				= 1 / 2/22//2											
	Wall and Stormwater Controls: DESIGN TRACK #2		Wed 12/17/14		-			1					₹		
	-Design Work Plan		Wed 12/17/14		-										
	omit Pre-Design Work Plan	0 wks 95	Wed 5/13/15		-				<u> </u>						
	view and Comment omit Response to Comments and Revised Plan	10 wks 96	Thu 5/14/15												
	A Approval of Pre-Design Work Plan	0 wks 97FS+5.2 wk 0 wks 98FS+0.2 wk							•						
									•						
	Planning & Proposition	38 wks	Mon 8/31/15						4						
	Planning & Preparation Field Work	4 wks 99	Mon 8/31/15 Mon 9/28/15						<u> </u>						
	Lab Work	11 wks 101 26 wks 102FS-3 wks													
	liminary Design	8.3 wks 103FS-2 wks			-				_	<u> </u>					
	omit Preliminary Design	0.3 WKS 103F3-2 WKS 0 WKS 104			-										
	view and Comment	24 wks 105	Tue 7/5/16	Tue 12/20/16	-					•					
	-Final Design	65.6 wks 106													1
	Supplemental Design Investigation Work Plan	0 wks	Fri 5/5/17 Fri 5/5/17	Fri 5/5/17											
	Supplemental Design Investigation Work Plan Review and Approval	3.1 wks 108	Fri 5/5/17	Fri 5/26/17							>				1
	Supplemental Design Borings	5 wks 109	Mon 5/29/17	Fri 6/30/17							•				1
	Design Updates	57 wks 110	Wed 7/5/17												1
	Submittal of Pre-Final Design	0 wks 111	Mon 8/6/18												1
	view and Comment	5.3 wks 107,112		Wed 9/12/18								1			1
	al Design & RAWP	12.5 wks 107,112	Wed 9/12/18												1
			Mon 12/10/18		-								\}		
	A Approval of Final Design & RAWP	0 wks 115		Fri 12/28/18 Fri 12/28/18									>		1
7															
8 6 In-Situ #3	I Geochemical Stabilization (ISGS): DESIGN TRACK	346.6 wks	Thu 2/7/13	Fri 9/27/19											
		346.6 wks	Thu 2/7/13										_		1
	EPA Approval of ISGS Demonstration Work Plan (2012)	0 wks	Thu 2/7/13		-	•									1
	Preliminary Design (included in Demonstration Work Plar		Thu 2/7/13			•									1
	Characterization and DNAPL Recovery (began 2012)	32 wks		Wed 9/18/13	-										1
	Characterization Report and Pilot Test Plan	11.8 wks 122	Thu 9/19/13					•							
4 6.1.5 S	Submit Characterization Report and Pilot Test Plan	0 wks 123	Tue 12/10/13	Tue 12/10/13											





Project File: RD Schedule 201801012.mpp Date: Thu 11/15/18

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Milestone •