

November 11, 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: October 2014 Monthly Progress Report

Dear Mr. Miller:

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

Josh Hayes, J.M. Waller

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

October 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: 2.8 gallons of NAPL were removed from Upper Hawthorn wells during the past month (3 recovery events). A total of 579 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. Two NAPL recovery events were conducted during the month, resulting in a total of 112.4 gallons removed.
- NAPL was removed from five Upper Hawthorn recovery wells installed in the Former Process Area as part of the ISGS program (Table 3). Three NAPL recovery events were conducted during the month, resulting in 41.4 gallons removed.
- A total of 4,170,644 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 93.4 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 690,323 gallons
 - Former North Lagoon Drain: 458,120 gallons
 - Former Drip Track Drain: 470,262 gallons
 - Former Process Area Drain: 430,760 gallons
 - Former South Lagoon Drain: 474,340 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 42,278 gallons
 - FW-21B: 105,562 gallons
 - FW-31BE: 1,000,850 gallons
 - FW-32BE: 498,149 gallons

Approximately 345 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 3,376,300 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 7.5 hours to pump and clean clarifiers and to treat backwash water.

3. Plans, Reports, Deliverables and Procedures Completed:

- Off-Property soil replacement at Blocks A-K of the Stephen Foster Neighborhood.
- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) September 28, 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, bag filter vessel).
- Cleaned EW-2 flow meter twice.
- Cleaned EW-16.
- Replaced Former Process pump.
- Cleaned Former Process flow meter.
- Shipped 6 drums spent PPE, 32 drums spent carbon, 22 drums treatment sludge, and 12 drums DNAPL on October 28, 2014.
- Irrigation Breakthrough sampling on Oct 7, 2014.
- Stormwater sampling event Oct 31, 2014.
- On-property irrigation using treated groundwater from FW-6, FW-21B, FW-31BE, and FW-32BE.

4. Upcoming Actions:

- Completion of Off-Property Soil Replacement project on Nov 14, 2014.
- Pre-final inspection of the project on Nov 18, 2014.
- 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.
- Fourth quarter sampling event: Dec 1 5, 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 minor adjustments.

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)	DNAPL Volume (gal)	DNAPL Volume (gal)	DNAPL Volume (gal)	Total This Month (gal)
	September 2014	10/2/2014	10/16/2014	10/31/2014	October 2014
HG-9S	0	Stain	Stain	Stain	0
HG-10S	0	Stain	Stain	Stain	0
HG-10D	0	Stain	Stain	Stain	0
HG-11S	0.6	0.3	0.3	0.3	0.9
HG-12S	0.6	0.35	0.3	0.3	0.95
HG-12D	0	ND	ND	ND	0
HG-15S	0.4	0.25	0.2	0.25	0.7
HG-16S	0.45	Stain	Stain	0.25	0.25
HG-16D	0	Stain	Stain	Stain	0
MW-22B	0	Stain	Stain	Stain	0
Total	2.05	0.9	0.8	1.1	2.8
Cumulative Total	575.86				578.66

ND - No DNAPL Detected

Table 2. DNAPL Recovery Temporary Injection Points (TIPs)

Well ID	Total Last Month (gal) (2 events)	DNAPL Volume (gal)	DNAPL Volume (gal)	Total This Month (gal)
	September 2014	10/14/2014	10/23/2014	October 2014
220N 180E	4.9	2.5	2.3	4.8
280N 380E	6.7	3.2	3.2	6.4
300N 180E	10.6	5.1	4.8	9.9
300N 420E	6.7	3.5	3.5	7
320N 220E	6	2.9	3.2	6.1
320N 300E	5.8	2.7	3.1	5.8
340N 340E	9.4	5.6	5.5	11.1
360N 280E	7.5	3.7	3.3	7
380N 340E	11.7	5.5	5.6	11.1
400N 380E	2.2	1.2	1.4	2.6
460N 340E	2.9	1.4	1.5	2.9
420N 340E *	8.8	4.0	4.4	8.4
220N 340E	1.8	1.2	1	2.2
240N 380E	2.9	1.4	1.5	2.9
340N 180E	0.5	1.5	1.8	3.3
320N 140E	1.2	0.7	0.6	1.3
300N 260E	2.2	1.0	1	2
360N 140E	0.4	0.3	0.3	0.55
400N 140E	0.5	0.2	0.2	0.4
200N 220E	1.4	0.8	0.8	1.55
280N 220E	2.1	1.0	1	2
360N 220E	2.5	1.4	1.3	2.7
280N 300E	2.7	1.4	1.4	2.8
360N 380E	8	3.5	3.3	6.8
Drip Track	0.8	0.3	0.5	0.8
Total	110.2			112.4

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)	DNAPL Volume (gal)	DNAPL Volume (gal)	DNAPL Volume (gal)	Total This Month (gal)
	September 2014	10/1/2014	10/15/2014	10/29/2014	October 2014
M-38BE	0	NR	NR	NR	0
M-39BE	NR	NR	NR	NR	NR
M-40BE	NR	NR	NR	NR	NR
M-41BE	NR	NR	NR	NR	NR
M-42BE	NR	NR	NR	NR	NR
HG-36SE *	2.8	1.2	1	1.1	3.3
HG-37SE	5.1	2.4	2.4	2.5	7.3
HG-38SE	9.2	4.7	4.9	4.9	14.5
HG-39SE	5.9	2.8	2.8	2.8	8.4
HG-40SE	5.6	2.6	2.6	2.7	7.9
Total	28.6				41.4

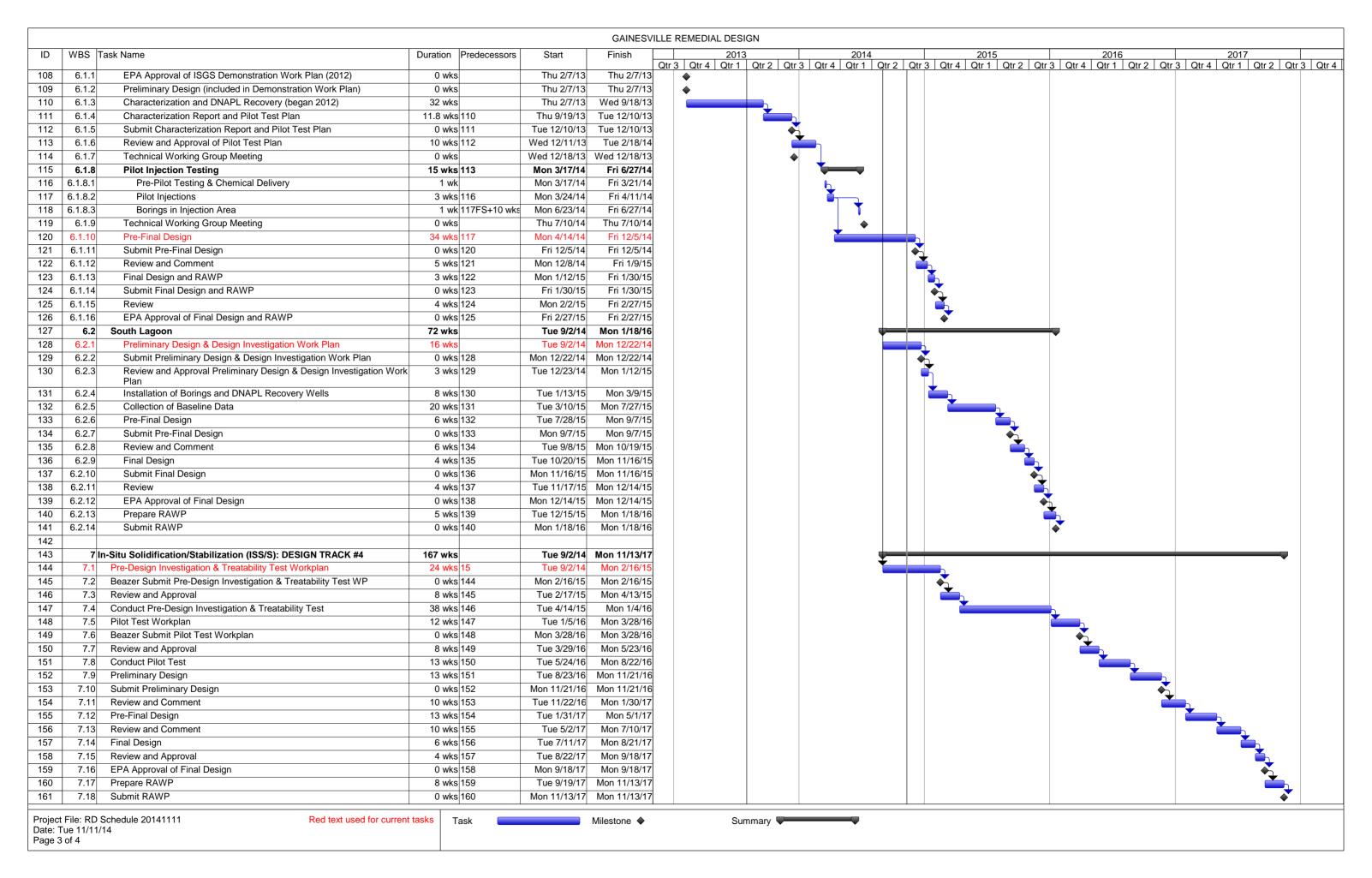
NR - No Recovery

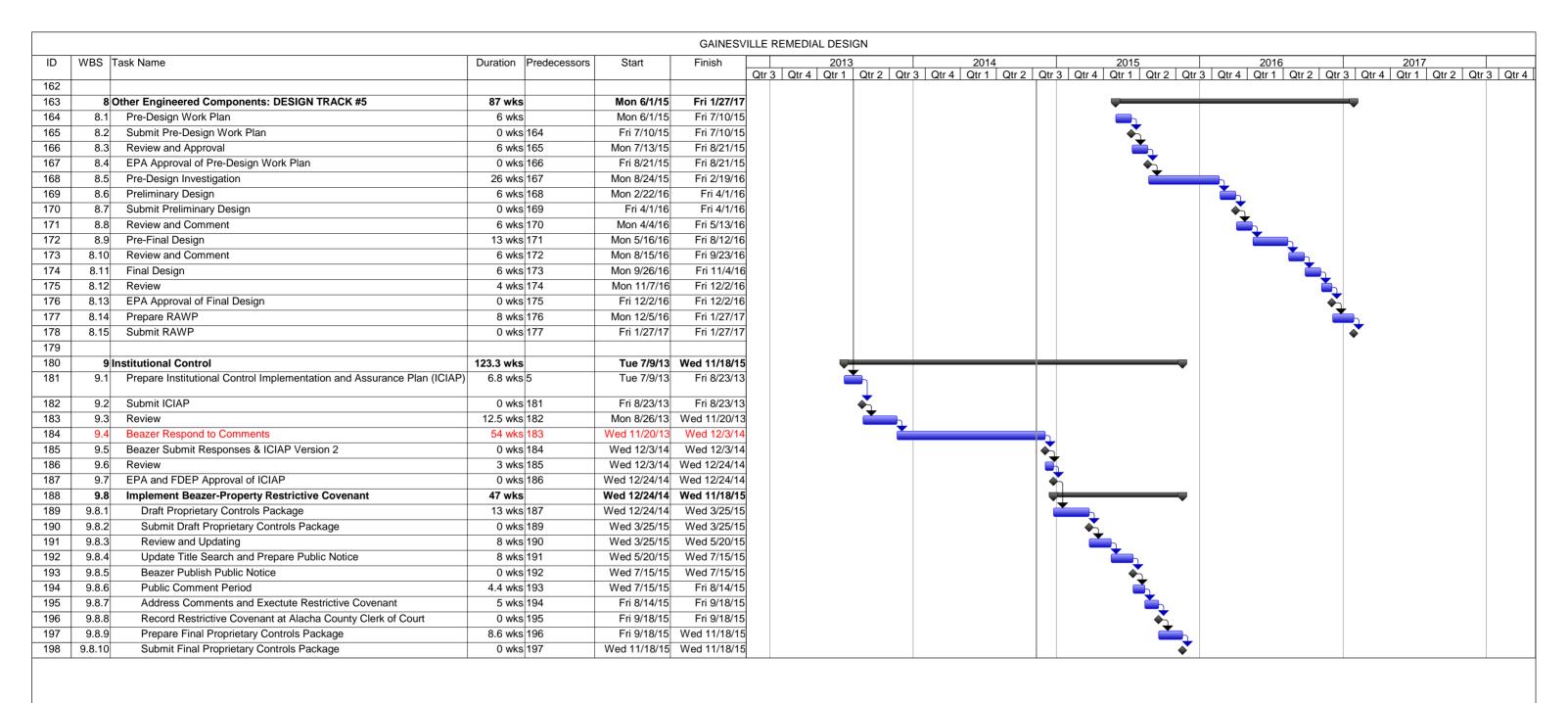
^{*} Inside ISGS Pilot Test Area

				GAINESVI	LLE REMEDIAL DESIGN				
ID	WBS Task Name	Duration Predecessors	Start	Finish	2013	2014	2015	2016	2017
1	1 Consent Decree for RD/RA	23.8 wks	Thu 2/7/13	Wed 7/24/13	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 Q	tr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3
2	1.1 US DOJ Lodges Donsent Decree with Court	0 days	Thu 2/7/13	Thu 2/7/13	•				
3	1.2 Public Comment on Consent Decree	4.6 wks	Wed 2/13/13	Fri 3/15/13					
4	1.3 Beazer Submittal: Project Coordinators, Supervising Contractor, Quality Management Plan	0 days	Fri 2/15/13		•				
5	1.4 Court Enters Consent Decree Final	0 days	Tue 7/9/13	Tue 7/9/13	◆ ¬				
6 7	1.5 EPA Issues Authorization to Proceed with Remedial Design	0 days	Wed 7/24/13	Wed 7/24/13	•				
3	2 Remedial Design Work Plan (RDWP)	22.3 wks	Wed 7/24/13						
9	2.1 Prepare RDWP	43 days 6	Wed 7/24/13	Fri 9/20/13					
0	2.2 Beazer Submit RDWP	0 wks 9	Fri 9/20/13	Fri 9/20/13	•				
1	2.3 EPA Review and Comment RDWP	6.8 wks 10	Mon 9/23/13			F			
12	2.4 Beazer Respond to Comments	4.3 wks 11	Fri 11/8/13			<u> </u>			
13	2.5 Beazer Submit Responses and RDWP Version 2	0 wks 12	Mon 12/9/13			•1			
14	2.6 EPA Review	2.6 wks 13	Mon 12/9/13	I I		<u> </u>			
15 16	2.7 EPA Approval RDWP	0 wks 14	Thu 12/26/13	Thu 12/26/13					
7	3 Supporting Plans for RD/RA	32.2 wks	Fri 9/20/13	I I					
18	3.5 Beazer Submit Health & Safety Plan	0 wks 10	Fri 9/20/13	Fri 9/20/13	—				
19	3.2 Materials Management Plan	5 wks 10	Tue 4/1/14	I I					
20	3.6 Stormwater Management Plan	5 wks 19FF	Tue 4/1/14	Mon 5/5/14					
21	3.7 Noise and Dust Control Plan	5 wks 19FF	Tue 4/1/14	Mon 5/5/14					
2	3.5 Equipment Decontamination Plan	5 wks 19FF	Tue 4/1/14	Mon 5/5/14					
3	3.6 Quality Assurance Project Plan (update)	4 wks	Mon 2/24/14	Fri 3/21/14					
4	3.7 Data Management Plan	3 wks 23	Mon 3/24/14	Fri 4/11/14		*			
25									
26	4 Off-Property Soil Replacement (OU-5): DESIGN TRACK #1	69 wks	Tue 4/30/13		-	<u> </u>			
27	4.1 Initial Identification of Remediation & Evaluation Parcels	0 wks	Tue 4/30/13	I I	•				
28	4.2 Obtain Access Agreements for Surveys & Sampling	23 wks	Thu 5/2/13						
9	4.3 Community Information Session	0 wks	Thu 5/30/13		*				
0	4.4 Sampling for Refinement of Remediation Parcels (July 2013)	18.8 wks	Fri 7/19/13			-			
31	4.4.1 Proposal for Sampling (July 2013)	0 wks	Fri 7/19/13		•				
32	4.4.2 EPA Approval of Sampling	0 wks	Mon 7/22/13		•				
3	4.4.3 Sample Collection	2 days	Tue 7/30/13						
34 35	4.4.4 Analysis and Validation	6.2 wks 33	Thu 8/1/13			_			
	4.4.5 Data Summary Report 4.4.6 Beazer Submit Data Summary and Fingerprinting Report	10.8 wks 34 0 wks 35	Fri 9/13/13						
6 7	, , , , ,	10.3 wks	Thu 9/26/13	Wed 11/27/13 Fri 12/6/13					
8	4.5 Pilot Home Soil Replacement 4.5.1 Survey	1.8 wks	Thu 9/26/13			7			
9	4.5.2 Design & Interview	3 wks 38	Wed 10/9/13						
0	4.5.3 Borrow Sampling	2 wks	Thu 10/10/13			,			
1	4.5.4 Sample Analysis	2 wks 40	Thu 10/24/13			<u> </u>			
2	4.5.5 Pilot Plan	6 wks	Thu 9/26/13						
13	4.5.6 Submit Pilot Plan	0 wks 42,41	Wed 11/6/13						
14	4.5.7 Review	1 wk 43	Thu 11/7/13						
5	4.5.8 EPA Approval of Pilot Plan	0 wks 44	Wed 11/13/13	Wed 11/13/13					
ŀ6	4.5.9 Permitting	2 wks 45FF	Thu 10/31/13			<u>u</u>			
7	4.5.10 Pilot Implementation	3.3 wks 46,45	Thu 11/14/13			 			
8	4.6 Blocks A-I Remediation Design	42.4 wks	Mon 9/16/13			 			
19	4.6.1 Remedial Design Details	12.4 wks 35	Thu 11/28/13						
50	4.6.2 Submit RD Details	0 wks 49	Fri 2/21/14	I I					
51	4.6.3 Review and Comment	0.8 wks 50	Mon 2/24/14						
52	4.6.4 Surveying & Interviews	34 wks	Mon 9/16/13	Fri 5/9/14					
53	4.6.5 Parcel Designs & Remediation Agreements	28 wks	Mon 12/2/13	Fri 6/13/14					

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					GAINESV	/ILLE REMEDIAL DESIGN
ID	WBS Tas	sk Name	Duration Predecessors	Start	Finish	2013 2014 2015 2016 2017 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 3 Qtr 3 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 3 Qtr 3 Qtr 3 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 3 Qtr 3 Qtr 3 Qtr 3 Qtr 3 Qtr 4 Qtr 3 Qtr 3
54	4.6.6	Final Design and RAWP	19.6 wks	Fri 2/21/14	Tue 7/8/14	Q
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	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		
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		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						
89		toff Wall and Stormwater Controls: DESIGN TRACK #2	70 wks		Mon 12/28/15	
90		Pre-Design Work Plan	16 wks 15		Mon 12/15/14	
91		Submit Pre-Design Work Plan Review and Approval	0 wks 90		Mon 12/15/14	<u> </u>
92 93		EPA Approval of Pre-Design Work Plan	4 wks 91 0 wks 92	Tue 12/16/14 Mon 1/12/15]
93 94		Pre-Design Investigation	11 wks 93	Tue 1/13/15		<u> </u>
94 95		Pre-Design Investigation Preliminary Design	6 wks 94	Tue 1/13/15 Tue 3/31/15		<u> </u>
95 96		Submit Preliminary Design	0 wks 95	Mon 5/11/15		
96 97		Review and Comment	6 wks 96	Tue 5/12/15		
97 98		Pre-Final Design	5 wks 97	Tue 5/12/15 Tue 6/23/15		
99		Review and Comment	6 wks 98	Tue 6/23/15 Tue 7/28/15		
100		Final Design	5 wks 99	Tue 7/26/15		
101		Review	3 wks 100	Tue 10/13/15		」
102		EPA Approval of Final Design	0 wks 101	Mon 11/2/15		
103		Prepare RAWP	8 wks 102	Tue 11/3/15		
104	5.15	Submit RAWP	0 wks 103		Mon 12/28/15	
105						
106		Situ Geochemical Stabilization (ISGS): DESIGN TRACK #3	153.6 wks	Thu 2/7/13		
107	6.1	Process Area	107.4 wks	Thu 2/7/13	Fri 2/27/15	
	Гue 11/11/14	chedule 20141111 Red text used for curr	rent tasks Task		Milestone ◆	Summary ————————————————————————————————————





Project File: RD Schedule 20141111 Date: Tue 11/11/14

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