



November 10, 2015

Rusty Kestle
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: **October 2015 Monthly Progress Report**

Dear Mr. Kestle :

On behalf of Beazer East, Inc. (Beazer), attached is the October 2015 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: Kelsey Helton, FDEP
Robin Hallbourg, ACEPD
Agustin (Gus) Olmos, 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
Wayne Reiber, Cabot Corporation
Steve Clark, FTS
John Helton, FTS

**October 2015
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.
- Note that recent ISGS injections affect the NAPL recovery amounts presented below. See Section 3 and Tables 1 and 2.
- The bi-weekly passive NAPL recovery program continues at Upper Hawthorn monitoring wells: 1.1 gallons of NAPL were removed from Upper Hawthorn wells during the past month (3 recovery events). Note that no recovery was conducted at HG-11S and HD-15S due to the ISGS operations. A total of 599.81 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 the temporary injection point (TIP) installed in the Former Drip Track Area (Table 2). Two NAPL recovery events were conducted during the month, resulting in a total of 0.6 gallons removed. Note that NAPL was not collected from the remainder of the TIPs due to ISGS operations in the Former Process Area.
- NAPL was not removed from five Upper Hawthorn recovery wells installed in the Former Process Area as part of the ISGS program due to the recent ISGS operations.
- A total of 3,980,849 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 89.2 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 595,859 gallons
 - Former North Lagoon Drain: 482,500 gallons
 - Former Drip Track Drain: 512,950 gallons
 - Former Process Area Drain: 457,990 gallons
 - Former South Lagoon Drain: 352,150 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 26,484 gallons
 - FW-21B: 79,960 gallons
 - FW-31BE: 962,040 gallons
 - FW-32BE: 510,916 gallons

Approximately 371.2 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 2,370,000 gallons. This volume does not correspond to what was expected based on the volumes from individual surficial aquifer wells. The issue is currently being

investigated. A portion of the water, from Upper Floridan Aquifer wells, was treated and used for on-Property irrigation.

- The Former South Lagoon groundwater drain pumps were turned off for approximately 6 hours to pump and clean clarifiers and to treat backwash water. The Process Area pumps were turned back on Sept 30, 2015 at the end of the ISGS injection. The pump at FW-21B became inoperable on Oct 19, 2015. The pump will be replaced.

3. Plans, Reports, Deliverables and Procedures Completed:

- Installed borings and collected sampler for geotechnical sampling in accordance with the *Pre-Design Investigation Work Plan- Design Track 2*.
- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) October 19, 2015.
- 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).
- Irrigation Breakthrough and TSE sampling on October 21, 2015.
- Stormwater Rinsate Sampling on October 8, 2015.
- Replaced EW-10 and EW-14 jet pump with a submersible pump.
- Repaired EW-14 plumbing.
- Cleaned flow meters.
- Cleaned EW-8 pump and meter.
- Installed South Lagoon trench pump.
- Installed new jet pump for EW-9.
- Shipped 6 drums PPE, 9 drums treatment sludge, 43 drums spent carbon and 2 drums of DNAPL on October 13, 2015.
- On-property irrigation using treated groundwater from FW-6, FW-21B, FW-31BE, and FW-32BE.

4. Upcoming Actions:

- NAPL collection at Upper Hawthorn monitoring wells: bi-weekly.
- NAPL collection at temporary Upper Hawthorn ISGS injection points: bi-weekly.
- NAPL collection program will restart in Process Area in November.
- Routine inspection, operation, maintenance, and monitoring.
- Third quarter sampling event: November 30 - December 4, 2015.
- Soil and Sediment Sampling in the Material Storage Yard will start Nov 9, 2015.
- The pump at FW-21B will be replaced.

5. Schedule Status:

- The current remedial design schedule is attached.

6. Plan/Schedule Modifications:

- Minor modifications were made to the project schedule.

7. Community Involvement:

- 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) September 2015	DNAPL Volume (gal) 10/1/2015	DNAPL Volume (gal) 10/15/2015	DNAPL Volume (gal) 10/29/2015	Total This Month (gal) October 2015
HG-9S	0	Stain	Stain	Stain	0
HG-10S	0	Stain	Stain	Stain	0
HG-10D	0	Stain	Stain	Stain	0
HG-11S	0	*	*	*	0
HG-12S	0.6	0.4	0.2	0.3	0.9
HG-12D	0	ND	ND	ND	0
HG-15S	0	*	*	*	0
HG-16S	0	Stain	0.2	Stain	0.2
HG-16D	0	Stain	Stain	Stain	0
MW-22B	0	Stain	Stain	Stain	0
Total	0.6	0.4	0.4	0.3	1.1
Cumulative Total	598.71				599.81

ND - No DNAPL Detected

* Not collected due to recent ISGS injections in the area.

Table 2. DNAPL Recovery Temporary Injection Points (TIPs)

Well ID	Total Last Month (gal) (2 events) September 2015	DNAPL Volume (gal) 10/7/2015	DNAPL Volume (gal) 10/22/2015	Total This Month (gal) October 2015
220N/180E	0	*	*	0
280N/380E	0	*	*	0
300N/180E	0	*	*	0
300N/420E	0	*	*	0
320N/220E	0	*	*	0
320N/300E	0	*	*	0
340N/340E	0	*	*	0
360N/280E	0	*	*	0
380N/340E	0	*	*	0
400N/380E	0	*	*	0
460N/340E	0	*	*	0
420N/345E	0	*	*	0
220N/340E	0	*	*	0
240N/380E	0	*	*	0
340N/180E	0	*	*	0
320N/140E	0	*	*	0
300N/260E	0	*	*	0
360N/140E	0	*	*	0
400N/140E	0	*	*	0
200N/220E	0	*	*	0
280N/220E	0	*	*	0
360N/220E	0	*	*	0
280N/300E	0	*	*	0
360N/380E	0	*	*	0
507N/260E	0	*	*	0
Drip Track	0.6	0.3	0.3	0.6
Total	0.6			0.6

NP - Not Pumped

* Not collected due to recent ISGS injections in the area.

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	GAINESVILLE REMEDIAL DESIGN																					
							2013	2014	2015	2016	2017	2018																
							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	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	
1		1 Consent Decree for RD/RA	23.8 wks		Thu 2/7/13	Wed 7/24/13																						
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	Fri 2/15/13																						
5	1.4	Court Enters Consent Decree Final	0 days		Tue 7/9/13	Tue 7/9/13																						
6	1.5	EPA Issues Authorization to Proceed with Remedial Design	0 days		Wed 7/24/13	Wed 7/24/13																						
7																												
8		2 Remedial Design Work Plan (RDWP)	22.3 wks		Wed 7/24/13	Thu 12/26/13																						
9	2.1	Prepare RDWP	43 days	6	Wed 7/24/13	Fri 9/20/13																						
10	2.2	Beazer Submit RDWP	0 wks	9	Fri 9/20/13	Fri 9/20/13																						
11	2.3	EPA Review and Comment RDWP	6.8 wks	10	Mon 9/23/13	Thu 11/7/13																						
12	2.4	Beazer Respond to Comments	4.3 wks	11	Fri 11/8/13	Mon 12/9/13																						
13	2.5	Beazer Submit Responses and RDWP Version 2	0 wks	12	Mon 12/9/13	Mon 12/9/13																						
14	2.6	EPA Review	2.6 wks	13	Mon 12/9/13	Thu 12/26/13																						
15	2.7	EPA Approval RDWP	0 wks	14	Thu 12/26/13	Thu 12/26/13																						
16																												
17		3 Supporting Plans for RD/RA	100.8 wks		Fri 9/20/13	Thu 8/27/15																						
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	Mon 5/5/14																						
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																						
22	3.5	Equipment Decontamination Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/14																						
23	3.6	Beazer update QAPP	33.8 wks		Mon 1/5/15	Thu 8/27/15																						
24	3.7	Beazer Submit Revised QAPP	0 wks	23	Thu 8/27/15	Thu 8/27/15																						
25																												
26		4 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																						
28	4.2	Obtain Access Agreements for Surveys & Sampling	23 wks		Thu 5/2/13	Wed 10/9/13																						
29	4.3	Community Information Session	0 wks		Thu 5/30/13	Thu 5/30/13																						
30	4.4	4.4 Sampling for Refinement of Remediation Parcels (July 2013)	18.8 wks		Fri 7/19/13	Wed 11/27/13																						
31	4.4.1	Proposal for Sampling (July 2013)	0 wks		Fri 7/19/13	Fri 7/19/13																						
32	4.4.2	EPA Approval of Sampling	0 wks		Mon 7/22/13	Mon 7/22/13																						
33	4.4.3	Sample Collection	2 days		Tue 7/30/13	Wed 7/31/13																						
34	4.4.4	Analysis and Validation	6.2 wks	33	Thu 8/1/13	Thu 9/12/13																						
35	4.4.5	Data Summary Report	10.8 wks	34	Fri 9/13/13	Wed 11/27/13																						
36	4.4.6	Beazer Submit Data Summary and Fingerprinting Report	0 wks	35	Wed 11/27/13	Wed 11/27/13																						
37	4.5	4.5 Pilot Home Soil Replacement	10.3 wks		Thu 9/26/13	Fri 12/6/13																						
38	4.5.1	Survey	1.8 wks		Thu 9/26/13	Tue 10/8/13																						
39	4.5.2	Design & Interview	3 wks	38	Wed 10/9/13	Tue 10/29/13																						
40	4.5.3	Borrow Sampling	2 wks		Thu 10/10/13	Wed 10/23/13																						
41	4.5.4	Sample Analysis	2 wks	40	Thu 10/24/13	Wed 11/6/13																						
42	4.5.5	Pilot Plan	6 wks		Thu 9/26/13	Wed 11/6/13																						
43	4.5.6	Submit Pilot Plan	0 wks	42,41	Wed 11/6/13	Wed 11/6/13																						
44	4.5.7	Review	1 wk	43	Thu 11/7/13	Wed 11/13/13																						
45	4.5.8	EPA Approval of Pilot Plan	0 wks	44	Wed 11/13/13	Wed 11/13/13																						
46	4.5.9	Permitting	2 wks	45FF	Thu 10/31/13	Wed 11/13/13																						
47	4.5.10	Pilot Implementation	3.3 wks	46,45	Thu 11/14/13	Fri 12/6/13																						
48	4.6	4.6 Blocks A-I Remediation Design	42.4 wks		Mon 9/16/13	Tue 7/8/14																						
49	4.6.1	Remedial Design Details	12.4 wks	35	Thu 11/28/13	Fri 2/21/14																						
50	4.6.2	Submit RD Details	0 wks	49	Fri 2/21/14	Fri 2/21/14																						
51	4.6.3	Review and Comment	0.8 wks	50	Mon 2/24/14	Thu 2/27/14																						
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																						
54	4.6.6	4.6.6 Final Design and RAWP	19.6 wks		Fri 2/21/14	Tue 7/8/14																						
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 wk	Thu 5/22/14	Thu 5/22/14																						

Red text used for current tasks



