



January 16, 2015

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: **December 2014 Monthly Progress Report**

Dear Mr. Miller:

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

**December 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: 2.1 gallons of NAPL were removed from Upper Hawthorn wells during the past month (2 recovery events). A total of 583 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 26 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. Three NAPL recovery events were conducted during the month, resulting in a total of 161.7 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). Two NAPL recovery events were conducted during the month, resulting in 27.5 gallons removed.
- A total of 4,476,222 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 100.3 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 672,877 gallons
 - Former North Lagoon Drain: 491,980 gallons
 - Former Drip Track Drain: 519,300 gallons
 - Former Process Area Drain: 512,080 gallons
 - Former South Lagoon Drain: 514,140 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 45,023 gallons
 - FW-21B: 141,624 gallons
 - FW-31BE: 1,041,350 gallons
 - FW-32BE: 537,848 gallons

Approximately 349.7 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 3,884,000 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 8 hours to pump and clean clarifiers and to treat backwash water.

3. Plans, Reports, Deliverables and Procedures Completed:

- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) Dec 18, 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/repared plant sump pump.
- Cleaned EW-16 pump and flow meter.
- Irrigation Breakthrough sampling on Dec 8, 2014.
- Fourth quarter sampling Dec 1 - 5, 2014.
- 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.
- Routine inspection, operation, maintenance, and monitoring.
- First quarter sampling event: Feb 16 - 20, 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 schedule changes.

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) November 2014	DNAPL Volume (gal) 12/11/2014	DNAPL Volume (gal) 12/24/2014	Total This Month (gal) December 2014
HG-9S	0	Stain	ND	0
HG-10S	0	Stain	Stain	0
HG-10D	0	Stain	Stain	0
HG-11S	0.75	0.3	0.3	0.6
HG-12S	0.6	0.4	0.4	0.8
HG-12D	0	ND	ND	0
HG-15S	0.45	0.4	0.3	0.7
HG-16S	0	Stain	Stain	0
HG-16D	0	Stain	Stain	0
MW-22B	0	Stain	ND	0
Total	1.8	1.1	1	2.1
Cumulative Total	580.46			582.56

ND - No DNAPL Detected

Table 2. DNAPL Recovery Temporary Injection Points (TIPs)

Well ID	Total Last Month (gal) (2 events) November 2014	DNAPL Volume (gal) 12/3/2014	DNAPL Volume (gal) 12/17/2014	DNAPL Volume (gal) 12/30/2014	Total This Month (gal) December 2014
220N 180E	4.5	2.3	2.3	2.1	6.7
280N 380E	6.3	3.1	3.3	3.3	9.7
300N 180E	9.5	4.6	4.5	4.6	13.7
300N 420E	7	3.4	3.5	3.3	10.2
320N 220E	7.1	2.8	2.8	2.8	8.4
320N 300E	6.5	3.1	3.2	2.9	9.2
340N 340E	11.5	5.5	5.3	5.1	15.9
360N 280E	7.3	3.7	3.8	3.5	11
380N 340E	11	6.1	5.2	5.4	16.7
400N 380E	2.7	1.4	1.3	1.4	4.1
460N 340E	2.9	1.6	1.4	1.2	4.2
420N 340E *	8.4	3.8	3.8	3.5	11.1
220N 340E	2	0.9	0.8	1	2.7
240N 380E	3	1.5	1.5	1.2	4.2
340N 180E	1.7	0.7	0.8	0.8	2.3
320N 140E	1.2	0.5	0.6	0.7	1.8
300N 260E	2	1.1	1.1	1	3.2
360N 140E	0.55	0.3	0.2	0.2	0.7
400N 140E	0.4	0.1	0.1	0.2	0.4
200N 220E	1.55	0.9	0.8	0.9	2.6
280N 220E	2.2	1.0	1	1.1	3.1
360N 220E	2.9	1.3	1.4	1.3	4
280N 300E	2.9	1.5	1.5	1.4	4.4
360N 380E	6.7	3.5	3.3	3.2	10
507N 260E	1	0.2	0.1	0.1	0.4
Drip Track	1.3	0.5	0.2	0.3	1
Total	114.1				161.7

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) November 2014	DNAPL Volume (gal) 12/10/2014	DNAPL Volume (gal) 12/23/2014	Total This Month (gal) December 2014
M-38BE	0	NR	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 *	2.5	1.3	1.3	2.6
HG-37SE	4.9	2.3	2.1	4.4
HG-38SE	10.1	5.2	4.6	9.8
HG-39SE	5.7	2.8	2.8	5.6
HG-40SE	5.6	2.6	2.5	5.1
Total	28.8			27.5

NR - No Recovery

* Inside ISGS Pilot Test Area

