



August 9, 2016

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: **July 2016 Monthly Progress Report**

Dear Mr. Kestle :

On behalf of Beazer East, Inc. (Beazer), attached is the July 2016 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
Bryan Cotter, Water and Air Research, Community Technical Advisor

JULY 2016
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.
- NAPL recovery was restarted in the Process Area in November 2015 following ISGS injections. The data are currently being analyzed and will be transmitted separately.
- A total of 4,135,582 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 92.6 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 580,462 gallons
 - Former North Lagoon Drain: 441,290 gallons
 - Former Drip Track Drain: 492,900 gallons
 - Former Process Area Drain: 480,770 gallons
 - Former South Lagoon Drain: 490,400 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 8,020 gallons
 - FW-21B: 171,660 gallons
 - FW-31BE: 977,580 gallons
 - FW-32BE: 492,500 gallons

Approximately 392.6 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 2,472,000 gallons. 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 8.5 hours to pump and clean clarifiers and to treat backwash water.

3. Plans, Reports, Deliverables and Procedures Completed:

- On July 5, 2016, Beazer submitted the report entitled *Preliminary Design: Design Track 2*.
- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) July 12, 2016.
- 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). This included repairing chemical feed lines and cleaning polymer tanks and lines.

- Irrigation Breakthrough sampling on July 20, 2016.
- Composite Rinsate Sampling on July 6, 2016.
- Swapped EW-17 and EW-3 pumps.
- Replaced FW-6 pump and flow meter.
- 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 in Process Area: bi-weekly.
- Routine inspection, operation, maintenance, and monitoring.
- Third quarter sampling event: August 15-26, 2016.

5. Schedule Status:

- Minor modifications were made to the project schedule.

6. Community Involvement:

- Future community involvement activities will be coordinated with EPA.

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GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	Successors	2013				2014				2015				2016				2017				2018				2019			
								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	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
126	5.1.8.2	Pilot Injections	3 wks	125	Mon 3/24/14	Fri 4/11/14	129,127FS+10 wks																												
127	5.1.8.3	Borings in Injection Area	1 wk	126FS+10 wk	Mon 6/23/14	Fri 6/27/14																													
128	6.1.9	Technical Working Group Meeting	0 wks		Thu 7/10/14	Thu 7/10/14																													
129	6.1.10	Pre-Final Design	44 wks	126	Mon 4/14/14	Fri 2/13/15	130																												
130	6.1.11	Submit Pre-Final Design	0 wks	129	Fri 2/13/15	Fri 2/13/15	131																												
131	6.1.12	Review and Comment	6 wks	130	Mon 2/16/15	Fri 3/27/15	132																												
132	6.1.13	Final Design and RAWP	3.2 wks	131	Mon 3/30/15	Mon 4/20/15	133																												
133	6.1.14	Submit Final Design and RAWP	0 wks	132	Mon 4/20/15	Mon 4/20/15	134																												
134	6.1.15	Review	0.4 wks	133	Tue 4/21/15	Wed 4/22/15	135																												
135	6.1.16	EPA Approval of Final Design and RAWP	0 wks	134	Wed 4/22/15	Wed 4/22/15	136FS+7 wks																												
136	6.1.17	Implementation of Process-Area ISGS Injections	12 wks	135FS+7 wks	Tue 7/7/15	Mon 9/28/15	137,139																												
137	6.1.18	Prepare Implementation Report	26.1 wks	136	Tue 9/29/15	Tue 3/29/16	138																												
138	6.1.19	Submit Implementation Report	0 wks	137	Tue 3/29/16	Tue 3/29/16																													
139	6.1.20	Post-Injection Effectiveness Monitoring	52 wks	136	Tue 9/29/15	Mon 9/26/16																													
140	6.1.21	Submit Phase II Performance Monitoring Report	0 wks		Mon 8/1/16	Mon 8/1/16																													
141	6.2	South Lagoon	135.3 wks		Mon 9/8/14	Tue 4/11/17																													
142	6.2.1	Preliminary Design & Design Investigation Work Plan	32.2 wks		Mon 9/8/14	Mon 4/20/15	143																												
143	6.2.2	Submit Preliminary Design & Design Investigation Work Plan	0 wks	142	Mon 4/20/15	Mon 4/20/15	144																												
144	6.2.3	Review of Preliminary Design & Design Investigation Work Plan	45 wks	143	Tue 4/21/15	Mon 2/29/16	145																												
145	6.2.4	Prepare Revised Preliminary Design & Design Investigation Work Plan	3.1 wks	144	Tue 3/1/16	Tue 3/22/16	146																												
146	6.2.5	Review and Approval of Work Plan	21 wks	145	Tue 3/22/16	Tue 8/16/16	147																												
147	6.2.6	Installation of Borings and DNAPL Recovery Wells	17 wks	146	Tue 8/16/16	Tue 12/13/16	148,149																												
148	6.2.7	Collection of Baseline Data	17 wks	147	Tue 12/13/16	Tue 4/11/17																													
149	6.2.8	Pre-Final Design	6 wks	147	Tue 12/13/16	Tue 1/24/17	150																												
150	6.2.9	Submit Pre-Final Design	0 wks	149	Tue 1/24/17	Tue 1/24/17	151																												
151	6.2.10	Review and Comment	3 wks	150	Tue 1/24/17	Tue 2/14/17	152																												
152	6.2.11	Final Design and RAWP	4 wks	151	Tue 2/14/17	Tue 3/14/17	153																												
153	6.2.12	Submit Final Design and RAWP	0 wks	152	Tue 3/14/17	Tue 3/14/17	154																												
154	6.2.13	Review	3 wks	153	Tue 3/14/17	Tue 4/4/17	155																												
155	6.2.14	EPA Approval of Final Design and RAWP	0 wks	154	Tue 4/4/17	Tue 4/4/17																													
156																																			
157	7	In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4	152 wks		Mon 6/27/16	Fri 5/24/19																													
158	7.1	Pre-Design Investigation & Treatability Test Workplan	13 wks	15	Mon 6/27/16	Fri 9/23/16	159																												
159	7.2	Beazer Submit Pre-Design Investigation & Treatability Test WP	0 wks	158	Fri 9/23/16	Fri 9/23/16	160																												
160	7.3	Review and Approval	8 wks	159	Mon 9/26/16	Fri 11/18/16	161																												
161	7.4	Conduct Pre-Design Investigation & Treatability Test	34 wks	160	Mon 11/21/16	Fri 7/14/17	162																												
162	7.5	Pilot Test Workplan	12 wks	161	Mon 7/17/17	Fri 10/6/17	163																												
163	7.6	Beazer Submit Pilot Test Workplan	0 wks	162	Fri 10/6/17	Fri 10/6/17	164																												
164	7.7	Review and Approval	8 wks	163	Mon 10/9/17	Fri 12/1/17	165																												
165	7.8	Conduct Pilot Test	13 wks	164	Mon 12/4/17	Fri 3/2/18	166																												
166	7.9	Preliminary Design	13 wks	165	Mon 3/5/18	Fri 6/1/18	167																												
167	7.10	Submit Preliminary Design	0 wks	166	Fri 6/1/18	Fri 6/1/18	168																												
168	7.11	Review and Comment	10 wks	167	Mon 6/4/18	Fri 8/10/18	169																												
169	7.12	Pre-Final Design	13 wks	168	Mon 8/13/18	Fri 11/9/18	170																												
170	7.13	Review and Comment	10 wks	169	Mon 11/12/18	Fri 1/18/19	171																												
171	7.14	Final Design	6 wks	170	Mon 1/21/19	Fri 3/1/19	172																												
172	7.15	Review and Approval	4 wks	171	Mon 3/4/19	Fri 3/29/19	173																												
173	7.16	EPA Approval of Final Design	0 wks	172	Fri 3/29/19	Fri 3/29/19	174																												
174	7.17	Prepare RAWP	8 wks	173	Mon 4/1/19	Fri 5/24/19	175																												
175	7.18	Submit RAWP	0 wks	174	Fri 5/24/19	Fri 5/24/19																													
176																																			
177	8	Other Engineered Components: DESIGN TRACK #5	87 wks		Mon 4/18/16	Fri 12/15/17																													
178	8.1	Pre-Design Work Plan	6 wks		Mon 4/18/16	Fri 5/27/16	179																												
179	8.2	Submit Pre-Design Work Plan	0 wks	178	Fri 5/27/16	Fri 5/27/16	180																												
180	8.3	Review and Approval	6 wks	179	Mon 5/30/16	Fri 7/8/16	181																												
181	8.4	EPA Approval of Pre-Design Work Plan	0 wks	180	Fri 7/8/16	Fri 7/8/16	182																												
182	8.5	Pre-Design Investigation	26 wks	181	Mon 7/11/16	Fri 1/6/17	183																												
183	8.6	Preliminary Design	6 wks	182	Mon 1/9/17	Fri 2/17/17	184																												
184	8.7	Submit Preliminary Design	0 wks	183	Fri 2/17/17	Fri 2/17/17	185																												
185	8.8	Review and Comment	6 wks	184	Mon 2/20/17	Fri 3/31/17	186																												
186	8.9	Pre-Final Design	13 wks	185	Mon 4/3/17	Fri 6/30/17	187																												

