

Field & Technical Services

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April 24, 2020

Mr. John Sager Wisconsin Department of Natural Resources 1701 North Fourth Street Superior, WI 54880 Telephone #715-392-7822

RE: Former Koppers Inc. Facility, Superior Wisconsin WDNR DNR BRRTs No: 0216000484 WDNR Facility ID: 816009810

Subject: 2018 On-Property Corrective Measures Monitoring & Maintenance Report

Dear Mr. Sager:

Field and Technical Services LLC (FTS), on behalf of Beazer East, Inc. (Beazer), and in accordance with the Operation and Maintenance Plan, On-Property Corrective Measures (O&M Plan; Arcadis, revised September 2011), is submitting this On-Property Corrective Measures Annual Monitoring & Maintenance Report for 2018, for the Former Koppers Inc. Facility in Superior, Wisconsin (the Site). This report documents the monitoring and maintenance activities conducted during 2018 for the completed on-property corrective measures (i.e., surface covers and Outfall 001 drainage ditch liner system; Figure 1).

The 2018 monitoring activities included the following:

- Monitoring the two collection sumps beneath the restored Outfall 001 drainage ditch for the presence of dense, non-aqueous phase liquid (DNAPL; performed on October 3, 2018); and
- Visually inspecting the surface covers and Outfall 001 drainage ditch liner system (performed on October 3, 2018).

Table 1 summarizes the DNAPL collection sump monitoring results. As indicated in Table 1, DNAPL has not been detected in either of the collection sumps to date.

The October 3, 2018 inspection observations and photographs are presented in a Site Inspection Form in Attachment 1. No issues were observed in Areas A, F1, F2, G, H, or S or at Outfall 001 drainage ditch during the October 2018 inspection.

April 24, 2020

If you have questions regarding this submittal or require additional information, please call me at (412) 429-2694 or Jane Patarcity of Beazer at (412) 208-8813.

Sincerely,

Field and Technical Services

Angela M Satche

Angela Gatchie Project Manager

Attachments

cc: Jane Patarcity, Beazer Linda Paul, Koppers David Bessingpas, Arcadis Terry Peterson, TRP



TABLE



Table 1Summary of Outfall 001 Drainage Ditch Sump DNAPL Monitoring/Removal Data 1Former Koppers Inc. Facility - Superior, WI

Date	Depth to Water (ft)	Depth to DNAPL (ft)	Depth to Sump Bottom (ft)	DNAPL Thickness (ft)	DNAPL Volume Removed (gal)	e Notes/Comments			
East Sump						·			
1/31/11	11.65		20.76			No DNAPL detected with interface probe or visible on PVC			
2/25/11	10.01		20.78			No DNAPL detected with interface probe or visible on PVC; silt on PVC			
3/28/11	Not measured - i	ce present at 11.	60 feet below top	of riser pipe					
4/12/11	12.55		20.82			No DNAPL detected with interface probe or visible on PVC; silt on probe tip			
5/19/11	12.80		20.78			No DNAPL detected with interface probe or visible on PVC; silt on probe tip			
6/30/11	12.96		20.79			No DNAPL detected with interface probe or visible on PVC; silt on probe tip			
9/9/11	13.11		20.79			No DNAPL detected with interface probe or visible on PVC; silt on probe tip			
10/21/11	13.20		20.85			No DNAPL detected with interface probe or visible on PVC			
6/26/12	13.03		21.85 ²			No DNAPL detected with interface probe or visible on PVC			
9/25/12	13.47		20.83			No DNAPL detected with interface probe or visible on PVC; silt on probe tip			
5/1/13	Not measured - i	ce present at 13.2		of riser pipe					
8/21/13	13.40		20.83			No DNAPL detected with interface probe or visible on PVC			
6/26/14	13.49		20.84			No DNAPL detected with interface probe or visible on PVC; silt on probe tip			
7/16/15	13.10		20.90			No DNAPL detected with interface probe or visible on PVC; silt on probe tip			
12/06/16	12.46		20.82			No DNAPL detected with interface probe or visible on PVC; silt on probe tip			
10/05/17	11.95		20.20			No DNAPL detected with interface probe or visible on PVC; silt on probe tip			
10/03/18	13.11		20.76			No DNAPL detected with interface probe or visible on PVC; silt on probe tip			
West Sump					-				
1/31/11	10.20		20.90			No DNAPL detected with interface probe or visible on PVC			
2/25/11	Not measured - i								
3/28/11	Not measured - i								
4/12/11	Not measured - i	ce present at 10.		of riser pipe					
5/19/11	10.62		20.89			No DNAPL detected with interface probe or visible on PVC			
6/30/11	10.75		21.54 ²			No DNAPL detected with interface probe or visible on PVC			
9/9/11	11.05		21.54 ²			No DNAPL detected with interface probe or visible on PVC			
10/21/11	11.07		20.93			No DNAPL detected with interface probe or visible on PVC			
6/26/12	10.84		20.90			No DNAPL detected with interface probe or visible on PVC			
9/25/12	11.54		20.92			No DNAPL detected with interface probe or visible on PVC			
5/1/13	10.23		20.91			No DNAPL detected with interface probe or visible on PVC			
8/21/13	11.59		20.85			No DNAPL detected with interface probe or visible on PVC			
6/26/14	11.07		20.92		No DNAPL detected with interface probe or visible on PVC				
7/16/15	11.21		20.94			No DNAPL detected with interface probe or visible on PVC			
12/06/16	11.22		20.88			No DNAPL detected with interface probe or visible on PVC			
10/05/17	10.48		20.00			No DNAPL detected with interface probe or visible on PVC			
10/03/18	11.89		21.62			No DNAPL detected with interface probe or visible on PVC			

Notes:

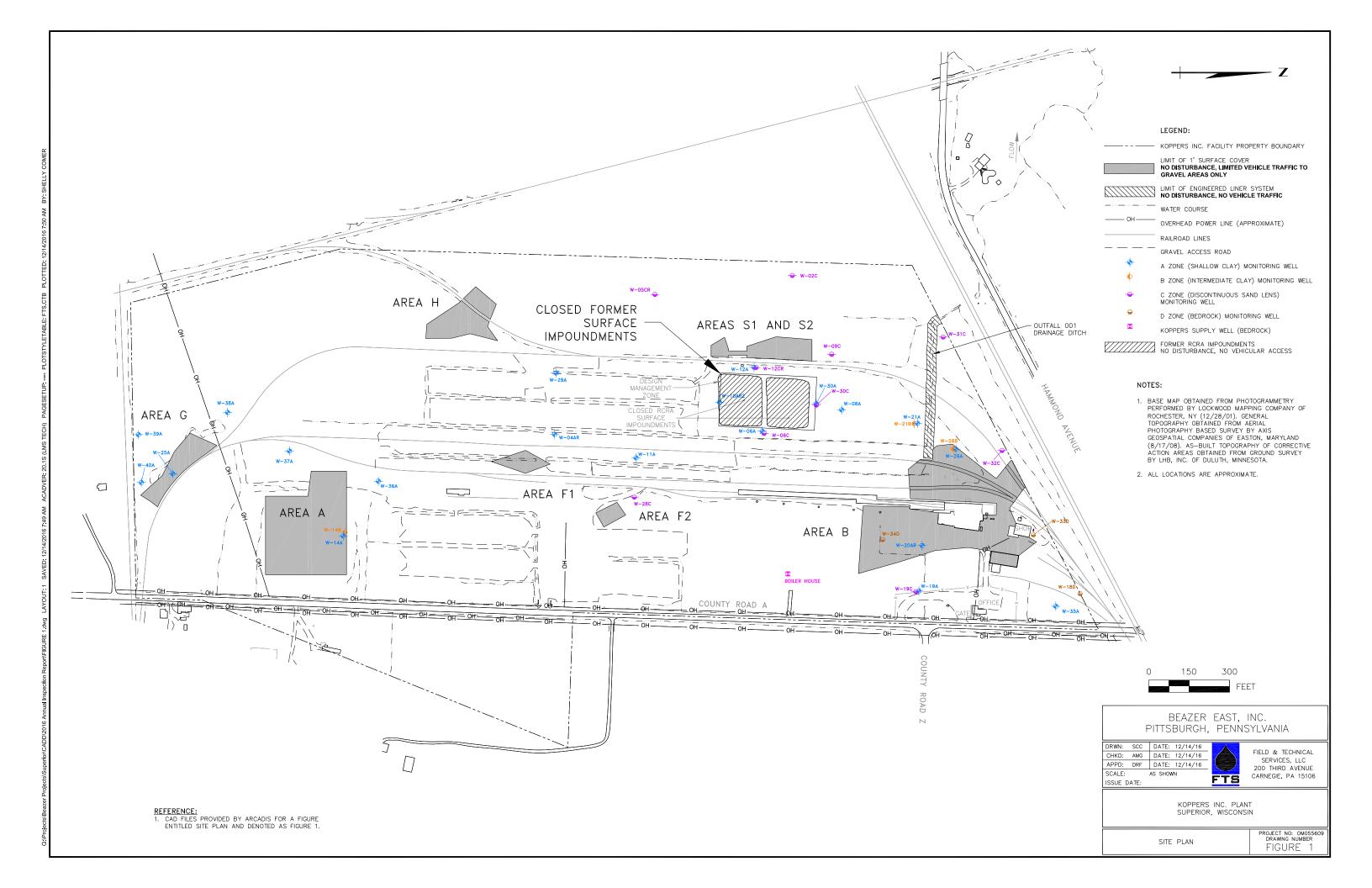
1. Measurements obtained using an oil/water interface probe affixed to 3/4-inch PVC pipe.

2. Probe advanced into horizontal portion of pipe.



FIGURE





ATTACHMENT 1



Site Inspection – 10/3/18

Former Koppers Inc. Facility – Superior, WI

By Field & Technical Services

Jena Lexie 10/5/2018

Photographs:



Area A Photo 1, looking Northeast from West side:

Area A Photo 2, looking East from West side:





Area B Photo 1, looking South from North East central area:

Area B Photo 2, looking West from Eastern edge:





Area B Photo 3, looking South from North Central area:

Area B Photo 4, looking South from North West along (ruts in grass along gravel):





Area B Photo 5, Close up of ruts from photo 4:

Area B Photo 6, Close up of ruts from photo 4:





Area F1 Photo 1, looking South from North end:

Area F2 Photo 1, Looking Northeast from Southwest:





Area G Photo 1, looking Southeast from Northwest corner:

Area G Photo 2, looking Northwest from Southeast corner:





Area H Photo 1, (East side of RR tracks) looking Southwest from Eastern side:

Area H Photo 2, (West side of RR tracks) looking Southwest from western side:





Area S Photo 1, looking North from center of area:

Area S Photo 2, looking South from center of area:





Outfall 001 Drainage Ditch Photo 1, looking West from eastern edge:



Outfall 001 Drainage Ditch Photo 2, looking west from center:

Post Construction Site Inspection Form Beazer East, Inc. Koppers Inc. Facility, Superior, Wisconsin

Inspection Date:
Weather Conditions: overast Lightrain 50
Inspector Name and Organization: Brenday Rick, FTS
Inspector Signature: Much MM

Area A

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	\times		
Evidence of excessive settling or ponding	X		
Areas lacking well-established vegetation	X		

Action Items: ________

Photographs:	Photo: _	l	_; _	Looking			west side of side area	
	Photo: _	2	_; _	Looking	Efron	W	rest side at green	_
	Photo: _		_; _					
	Photo: _		_; _					
	Photo: _		_;					_

Area B

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	\times		
Evidence of excessive settling or ponding		X	rats on Western area photos 576
Areas lacking well-established vegetation	X		

Action Items: ____

Enot North 150 King Photographs: Photo: _ Cen ha G 2 Photo: onkinc he Casten hos 3 w LOOKING section Photo: 1 Nord nuest Photo: 07. +6 Photo: 21 nA

Area F-1

P		(check one)	No	Yes	If yes, provide description and take photos
Excessive ero	sion		\times		
Evidence of exponding	cessive settl	ing or	Y		
Areas lacking vegetation	well-establisł	ned	X		
Action Items:	n	A			
Photographs:	Photo:/	; Lo	okths S	ionth fo	on North edge
	Photo:			-	
	Photo:	;			
	Photo:				
	Photo:				

Area F-2

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	\nearrow		
Evidence of excessive settling or ponding	\checkmark		
Areas lacking well-established vegetation	X		

Action Items: _____

Photographs:	Photo:l	Looking north east from south nest
	Photo:	;
	Photo:	;
	Photo:	
	Photo:	;

Area G

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	\times		
Evidence of excessive settling or ponding	×		
Areas lacking well-established vegetation	X		

Action Items: _____

Photographs:	Photo: _	(_; _	Looking SE from NW
	Photo: _	2	_;_	Lookn NW from SE
	Photo: _		_;_	
	Photo: _		_; _	
	Photo: _		;;	

Area H

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	X		
Evidence of excessive settling or ponding	X		
Areas lacking well-established vegetation	\checkmark		

Action Items: _____

Photographs:	Photo:		_;	Sh	from	BEash	Side	
	Photo:	2	_;	l(V/	hesten	Size	
	Photo:		_;					
	Photo:		_;					
	Photo:		_;			×		

Areas S-1 and S-2

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	\times		
Evidence of excessive settling or ponding	X		
Areas lacking well-established vegetation	X		

Action Items:

Photographs:	Photo:	1	_, _	horm	from	Conty	of	arey	
	Photo: _	2	_; _	South	11	cl) (ι/	
	Photo: _		_; _						
	Photo: _		;;						
	Photo: _		_; _						

Outfall 001 Drainage Ditch

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	Ý		
Evidence of excessive settling or ponding	×		
Areas lacking well-established vegetation	X		

Action Items: _____

Photographs:	Photo:	l	_; _	hest from easter edge
	Photo:	2	_; _	hest from centr
	Photo:		_; _	
	Photo:		_; _	
	Photo:		_; _	