

Field & Technical Services

200 Third Avenue + Carnegie, PA 15106 + Phone: 412-429-2694 + Fax: 412-279-4512

December 19, 2022

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: 2022 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 2022, for the Former Koppers Inc. Facility in Superior, Wisconsin (the Site). This report documents the monitoring and maintenance activities conducted during 2022 for the completed on-property corrective measures (i.e., surface covers and Outfall 001 drainage ditch liner system; Figure 1).

The 2022 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 6, 2022); and
- Visually inspecting the surface covers and Outfall 001 drainage ditch liner system (performed on October 4, 2022).

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 4, 2022 inspection observations and photographs are presented in a Site Inspection Form in Attachment 1. No major issues were observed in Areas A, B, F1, F2, G, H, or S or at Outfall 001 drainage ditch during the October 2022 inspection.

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 Statelus Angela Gatchie Project Manager

Attachments

Jane Patarcity, Beazer cc:

> Robert Tatsch, Koppers David Bessingpas, Arcadis

Terry Peterson, TRP



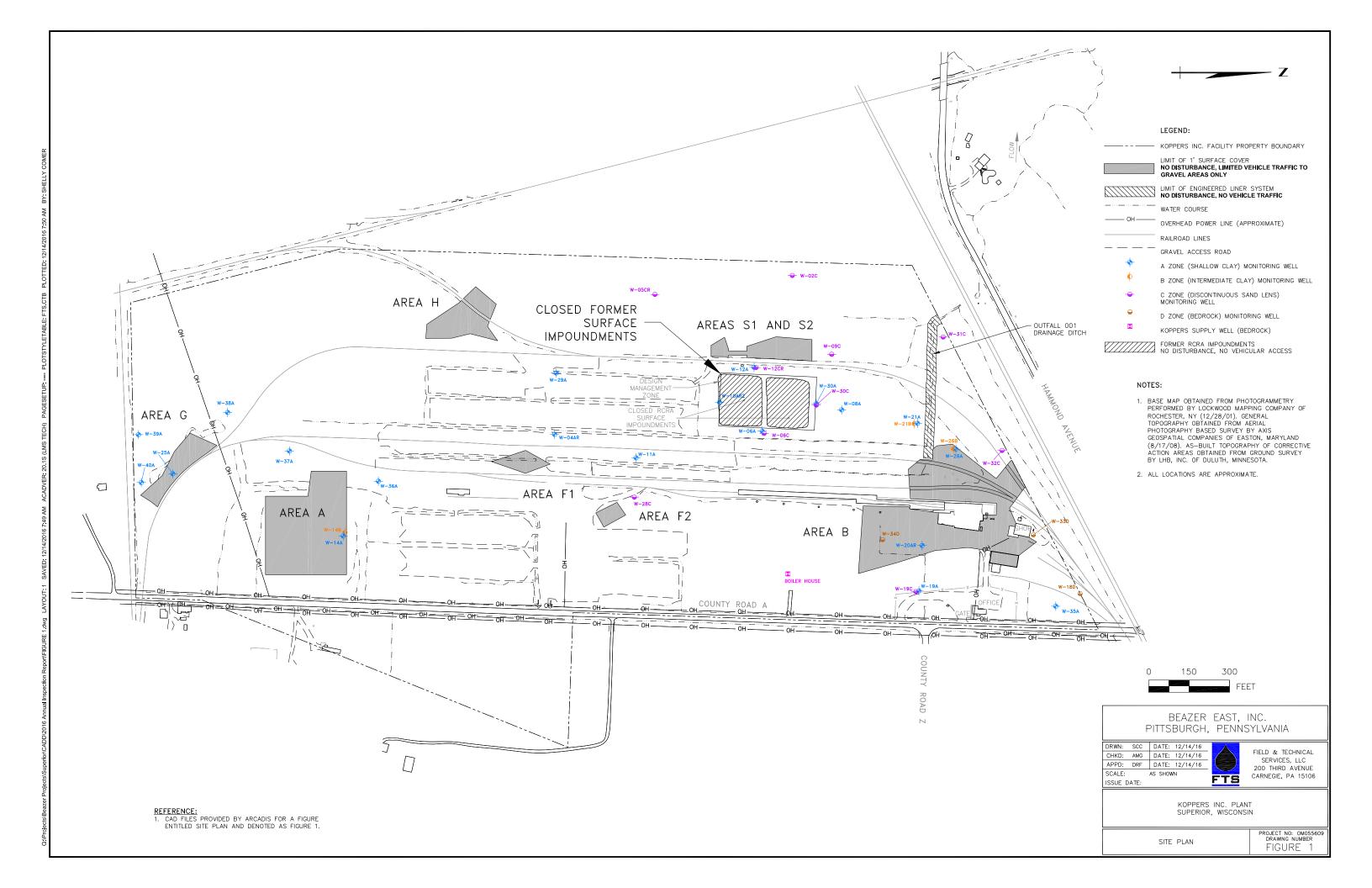
Table 1 Summary of Outfall 001 Drainage Ditch Sump DNAPL Monitoring/Removal Data ¹ Former Koppers Inc. Facility - Superior, WI

Date	Depth to Water (ft)	Depth to DNAPL (ft)	Depth to Sump Bottom (ft)	DNAPL Thickness (ft)	DNAPL Volume Removed (gal)	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		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		ce present at 13.	25 feet below top	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
10/16/19	12.20		20.76			No DNAPL detected with interface probe or visible on PVC
10/07/20	13.58		20.15			No DNAPL detected with interface probe or visible on PVC
10/06/21	12.62	-	20.80	-		No DNAPL detected with interface probe or visible on PVC
10/06/22	12.45		20.38			No DNAPL detected with interface probe or visible on PVC
West Sump						
1/31/11	10.20		20.90			No DNAPL detected with interface probe or visible on PVC
2/25/11			05 feet below top			
3/28/11			0 feet below top of			
4/12/11		ce present at 10.	00 feet below top	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
10/16/19	11.10		20.95	-		No DNAPL detected with interface probe or visible on PVC
10/07/20	12.63		20.52			No DNAPL detected with interface probe or visible on PVC
10/06/21	12.31		20.43	-		No DNAPL detected with interface probe or visible on PVC
10/06/22	12.26		20.54			No DNAPL detected with interface probe or visible on PVC

- Measurements obtained using an oil/water interface probe affixed to 3/4-inch PVC pipe.
 Probe advanced into horizontal portion of pipe.

FIGURE





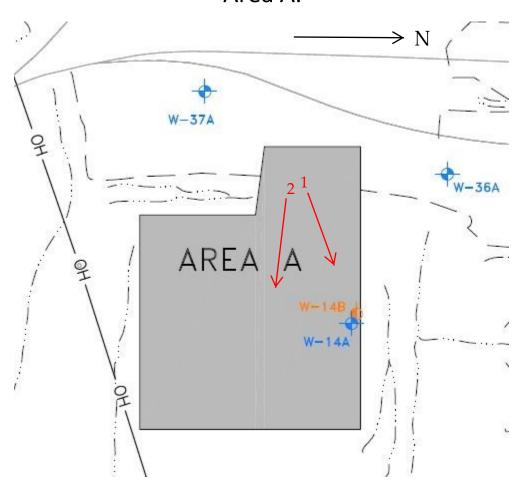
ATTACHMENT 1



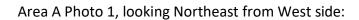
Site Inspection – 10/04/22

Former Koppers Inc. Facility – Superior, WI By Field & Technical Services

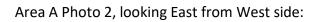
Area A:



Photographs:

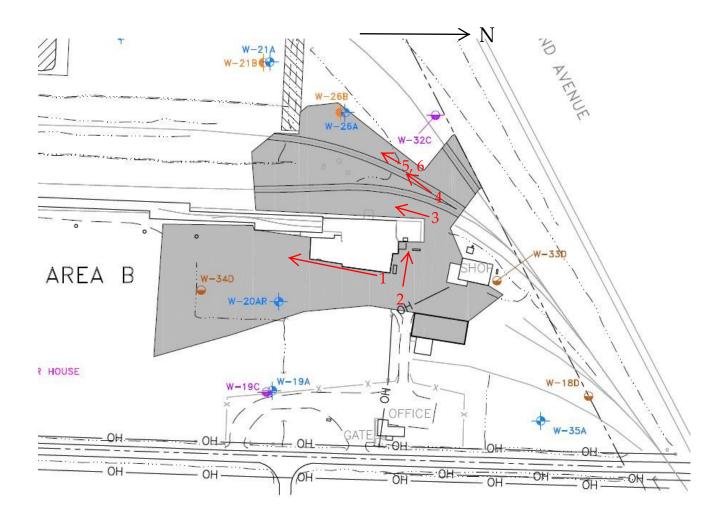






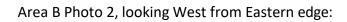


Area B:



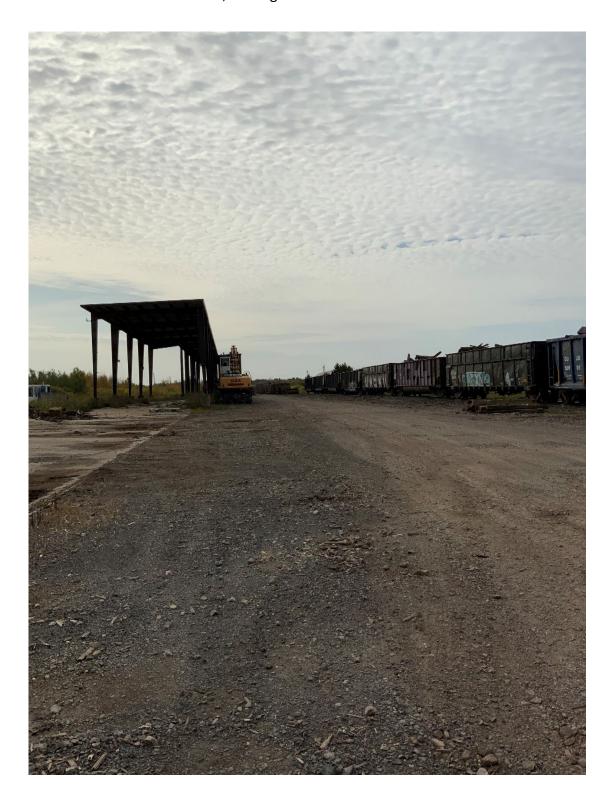
Area B Photo 1, looking South from North East central area:

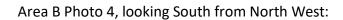






Area B Photo 3, looking South from North Central area:







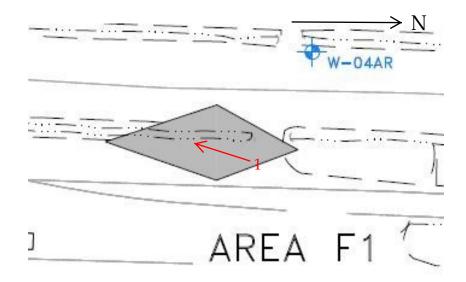
Area B Photo 5, Close up of photo 4:



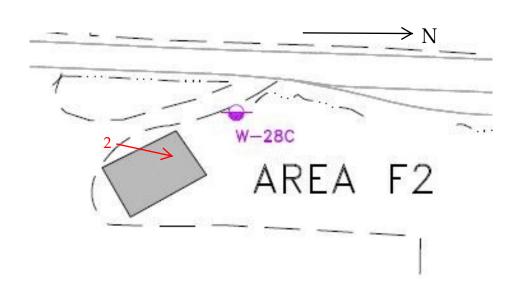
Area B Photo 6, Close up of photo 4:

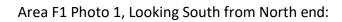


Area F1:



Area F2:

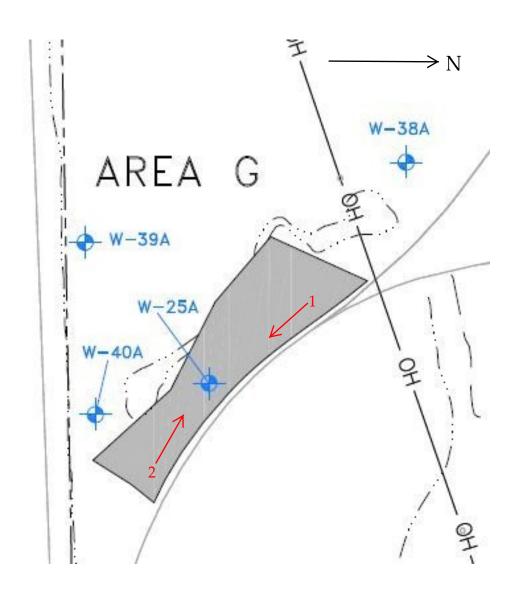






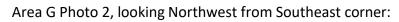


Area G:



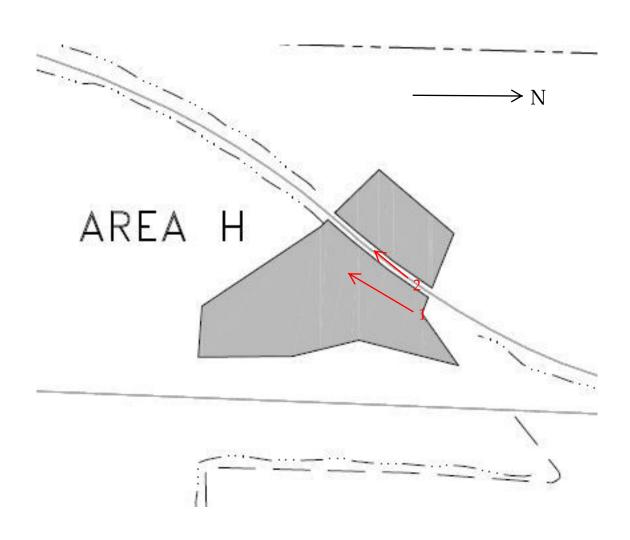
Area G Photo 1, looking Southeast from Northwest corner:



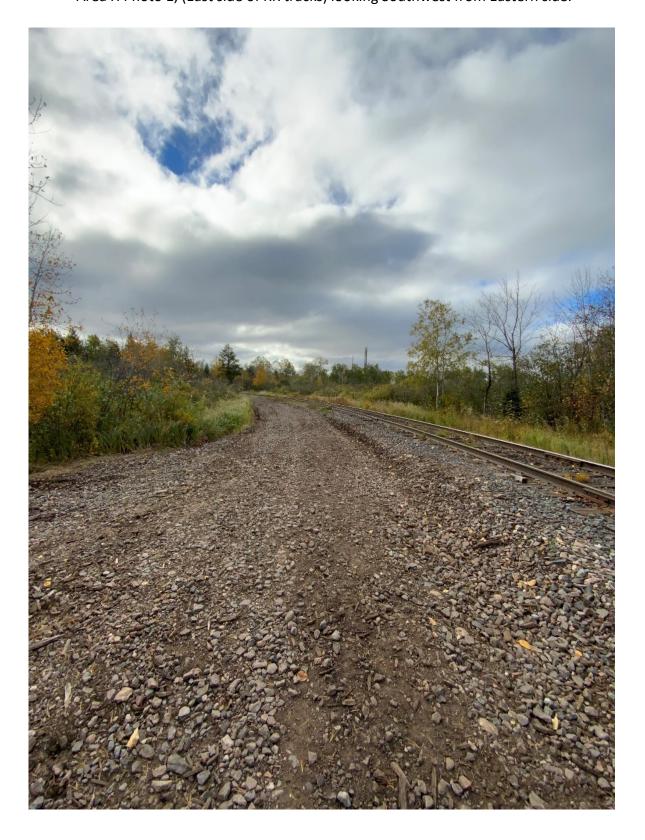




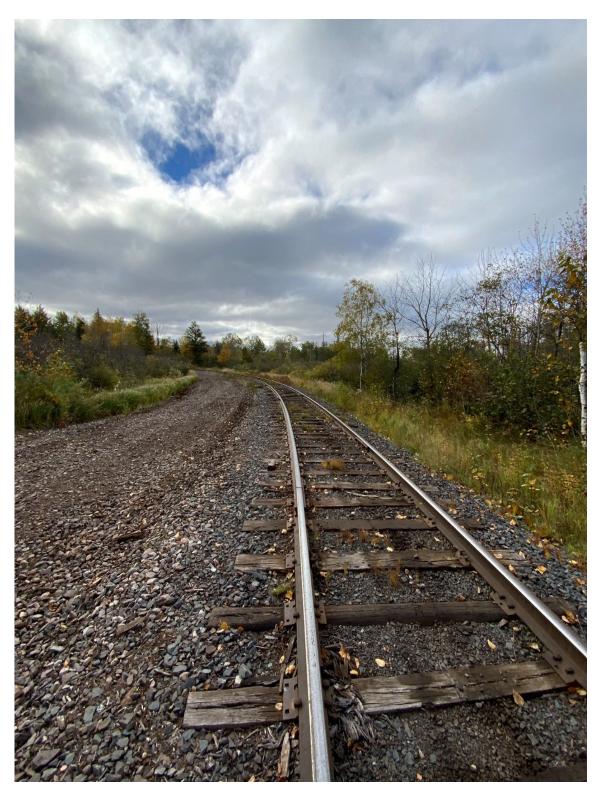
Area H:



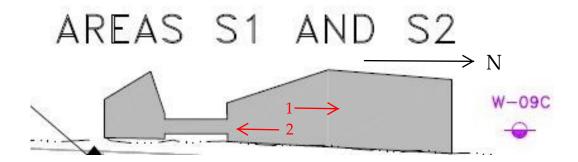
Area H Photo 1, (East side of RR tracks) looking Southwest from Eastern side:



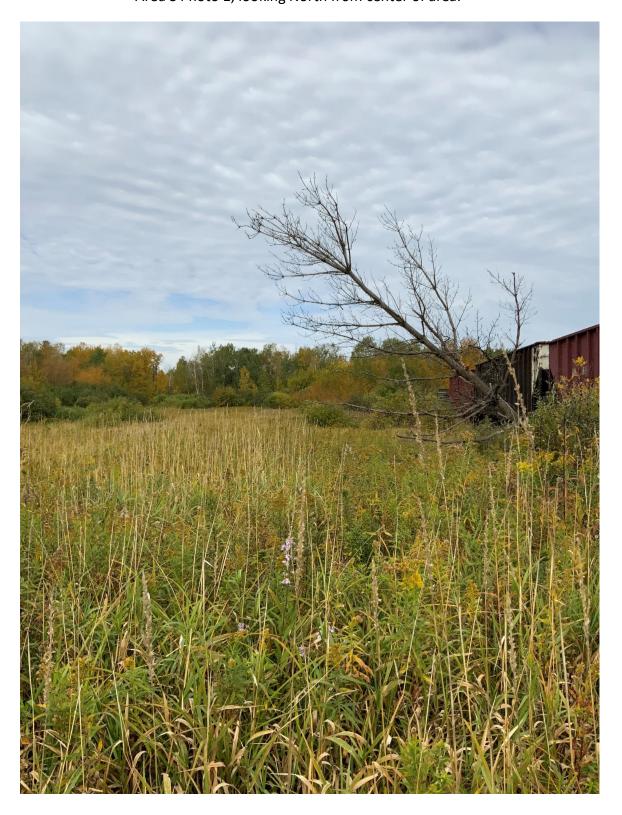




Area S1 and S2:



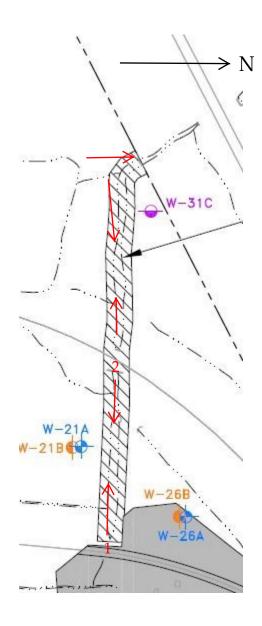
Area S Photo 1, looking North from center of area:

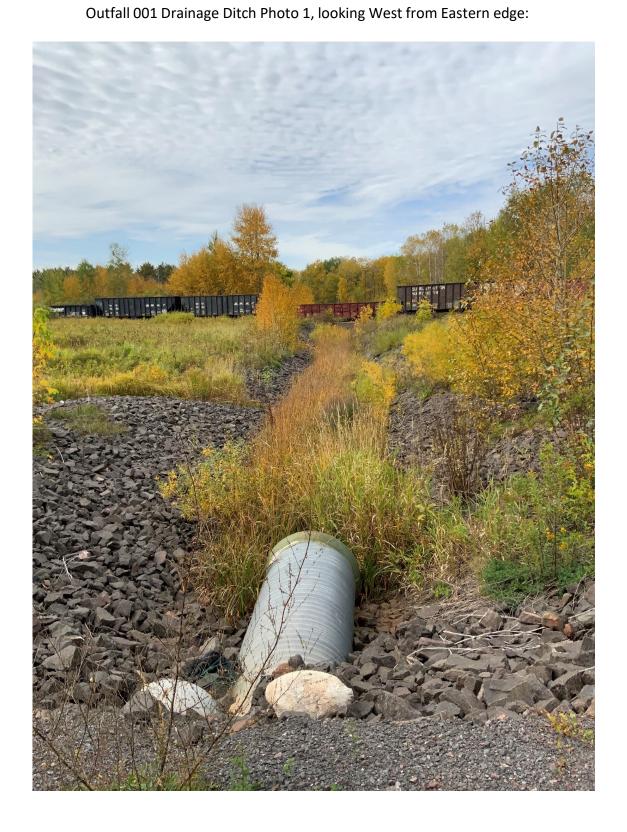


Area S Photo 2, looking South from center of area:



Outfall 001 and Drainage Ditch:





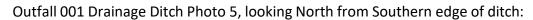
Outfall 001 Drainage Ditch Photo 2, looking West from center area:



Outfall 001 Drainage Ditch Photo 3, looking West from center area:









Post Construction Site Inspection Form Beazer East, Inc.

Koppers Inc. Facility, Superior, Wisconsin

Inspection Date	e:10 - 04 - 20	22							
Weather Conditions: Partial clouds, GOS									
Inspector Name and Organization: Marie Ferrick FTS									
Inspector Signature: Marie Fernel									
Area A									
The state of the s	(check on	e) No	Yes	If yes, provide description and take photos					
Excessive ero	sion	X							
Evidence of exponding	cessive settling or	X	-	,					
	well-established	X							
Action Items:	NA								
		makinga 1	N/O vHo a	1120 Codo					
Photographs:	Photo:;;	looking	Fact	from West side					
	Photo:;	TOURING	Lusi 7	1011 11574 2101E					
	Photo: ;								
	,,								
Area B									
	(check one	e) No	Yes	If yes, provide description and take photos					
Excessive eros		e) No	Yes	Depression					
		e) No X	X	Depression Ditch filled with water,					
Evidence of ex ponding Areas lacking v	sion cessive settling or	X	Yes	Depression					
Evidence of ex ponding	cessive settling or vell-established	X	X	Depression Ditch filled with water,					
Evidence of ex ponding Areas lacking v vegetation Action Items:	cessive settling or vell-established	X	MF11.14.22	Depression Ditch filled with water, MF 11-14-22 Photos - 5 + 6 MF 11-14-22					
Evidence of ex ponding Areas lacking v vegetation Action Items:	cessive settling or vell-established NA Photo: 1 ; 10	X X X oking so	with from	Depression Ditch filled with water, MF 11.14-22 Photos F + 6 MF 11.14-22 M North East central area					
Evidence of ex ponding Areas lacking vegetation Action Items: Photographs:	cessive settling or vell-established NA Photo: 1; 10	X X Oking so Oking W	vth from	Depression Ditch filled with water, MF 11-14-22 photos F + 6 MF 11-14-22 M North East central area M Eastern expe					
Evidence of ex ponding Areas lacking vegetation Action Items: Photographs:	cessive settling or vell-established NA Photo: 1 ; 10 Photo: 3 ; 10	X X Oking So Oking W Oking So	with from	Depression Ditch filled with water, MFILLEY 22 MFILLEY 22 M North East central area m Eastern ege m North Central area					
Evidence of exponding Areas lacking vegetation Action Items: Photographs:	cessive settling or vell-established NA Photo: 1 ; 10 Photo: 2 ; 10 Photo: 3 ; 10 Photo: 4 ; 10	oking so oking woking so	with from	Depression Ditch filled with water, MF 11-14-22 photos 15 + 6 MF 11-14-22 M North East central area m Eastern ege m North Central area for North West					
Evidence of exponding Areas lacking vegetation Action Items: Photographs:	cessive settling or vell-established NA Photo: 1 ; 10 Photo: 2 ; 10 Photo: 3 ; 10 Photo: 4 ; 10 Photo: 5 ; 0	X X Oking So Oking W Oking So	wth from est from of ph	Depression Ditch filled with water, MFILLEY Photos + 6 MFILLEY 22 M North East central area m Eastern ege m North Central area Torn North West					

Area F-1

	(che	ck one)	No	Yes	If yes, provide description and take photos
Excessive ero	sion		X		
ponding	xcessive settling or		X		
Areas lacking vegetation	well-established		χ		
Action Items:	NA				
	Photo: 1	; <u>10</u>	okina	South F	rom North end east from Southwest MF10.4.2
			/1		ast Ton soundest on 10 112
	Photo:	.;			
Area F-2		ck one)	No	Yes	If yes, provide description and take photos
Excessive eros			X		
Evidence of ex ponding	cessive settling or		X		
Areas lacking v vegetation	well-established		X		
Action Items: _	NA	**************************************			
					east from southwest
	Photo:	i i			

Area G

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	X	4	
Evidence of excessive settling or ponding	X		
Areas lacking well-established vegetation	χ		

Action Items:	Λ')A					
Photographs:	Photo: _			Southeast			
	Photo: _	2	; looking	Northwest	from	Southeast	corner
	Photo: _		;			15 T TENEDON BANKS	
	Photo: _		;				
	Photo: _				***************************************		

Area H

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

Action Items: _	N	A		
Photographs:	Photo:	1	(East side of RR tracks) looking southwest from I (West side of RR tracks) looking southwest from	E. Sid
	Photo:	2	(West side of RR tracks) looking southwest from 1	w. sid-
	Photo:			
	Photo:	;		

Areas S-1 and S-2

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

Action Items:	NA	+						
Photographs:	Photo: _	1	_; _	looking	North	from	center of a	trea
	Photo: _	2	_; _	looking	South	from	center of	area
	Photo: _		;	0				
	Photo: _		_; _					
	Photo: _		_;_		***************************************			

Outfall 001 Drainage Ditch

(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	X		

Action Items:		NA			
Photographs:	Photo:	1	; _		West from Eastern edge
	Photo:	2	;	looking	west from center area
	Photo:	3	;	looking	west from center area
	Photo:	4	; _	100king	East from Western edge
	Photo:	5	;	looking	North from Southern edge of ditch
					J