

Field & Technical Services

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

January 3, 2024

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: 2023 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 2023, for the Former Koppers Inc. Facility in Superior, Wisconsin (the Site). This report documents the monitoring and maintenance activities conducted during 2023 for the completed on-property corrective measures (i.e., surface covers and Outfall 001 drainage ditch liner system; Figure 1).

The 2023 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 4, 2023); and
- Visually inspecting the surface covers and Outfall 001 drainage ditch liner system (performed on October 4, 2023).

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, 2023 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 2023 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 Gatchie Project Manager

Attachments

cc: Jane Patarcity, Beazer

Robert Tatsch, Koppers David Bessingpas, Arcadis Terry Peterson, TRP



TABLE



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

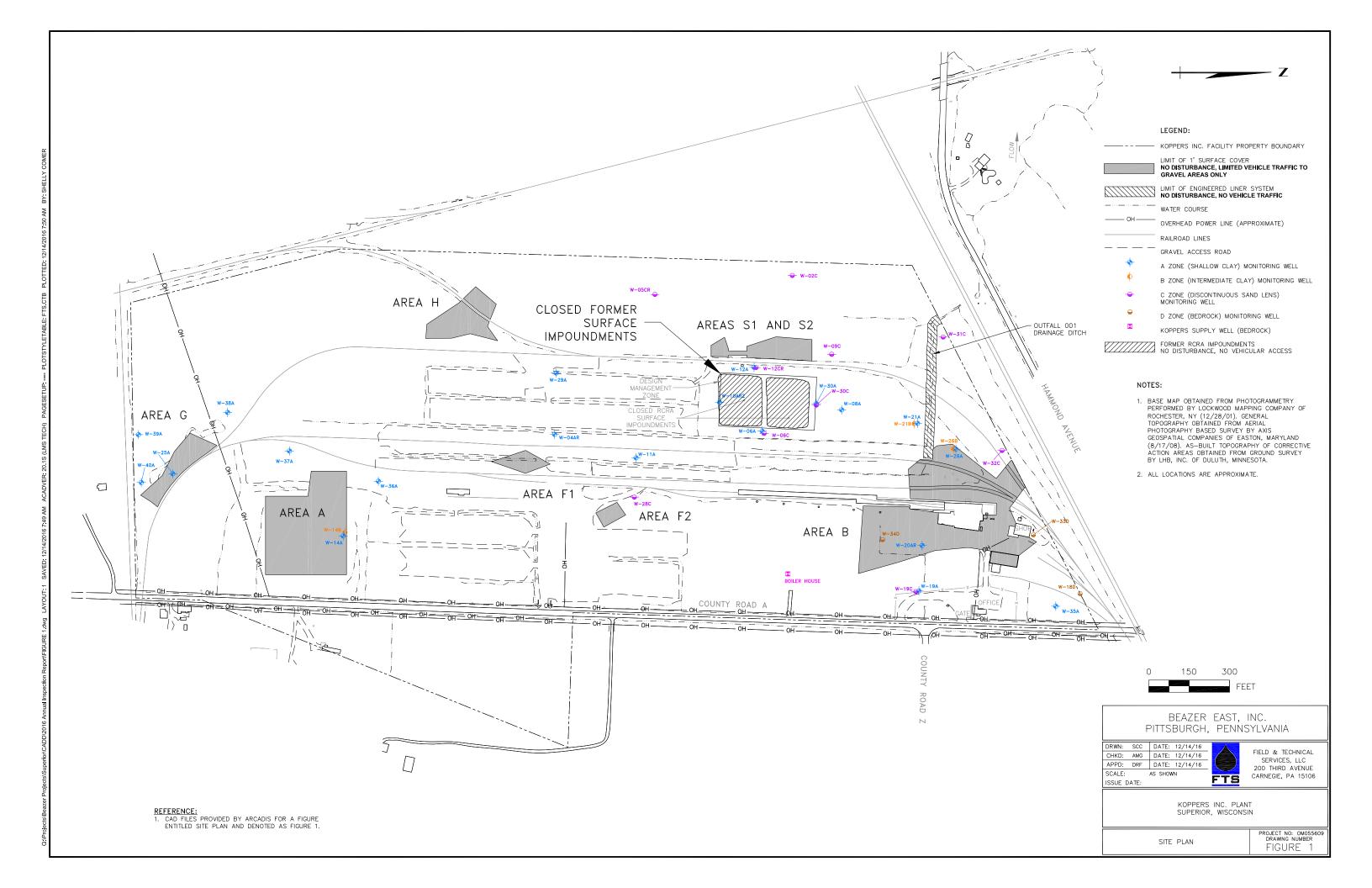
Date	Depth to Water (ft)	Depth to DNAPL (ft)	Depth to Sump Bottom (ft)	DNAPL Thickness (ft)	DNAPL Volume Removed (gal)	Notes/Comments
East Sump	•				•	
1/31/11	11.65		20.76	-		No DNAPL detected with interface probe or visible on PVC
2/25/11	10.01		20.78			No DNAPL detected with interface probe or visible on PVC; silt on PVC
3/28/11	Not measured - i	ce present at 11.6	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	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
10/04/23	12.10		16.00			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 10.0	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
10/04/23	12.04		20.50			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





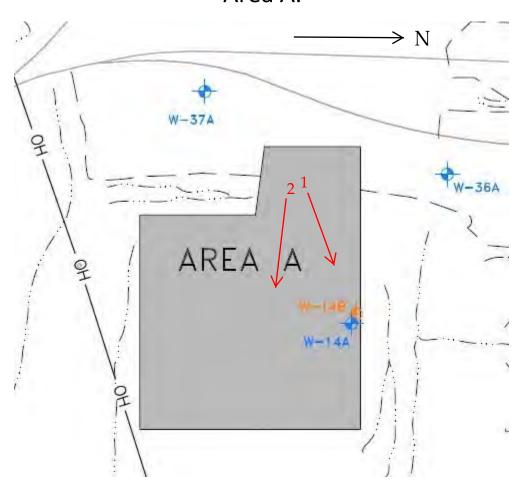
ATTACHMENT 1



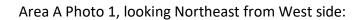
Site Inspection – 10/04/23

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

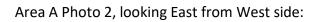
Area A:



Photographs:

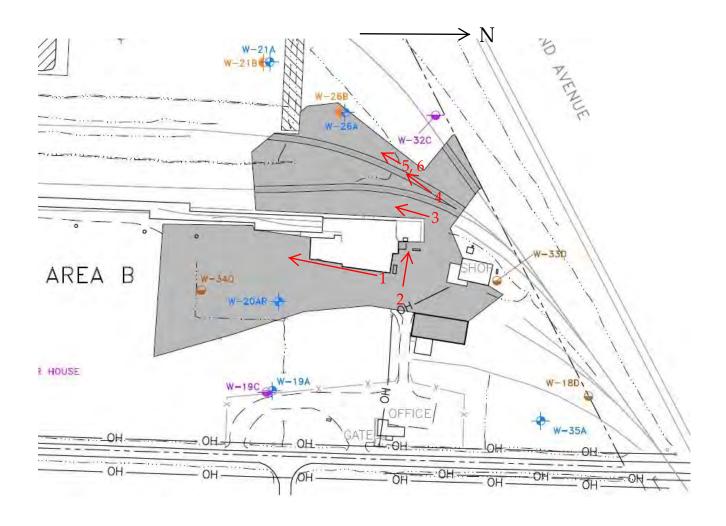




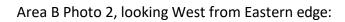




Area B:

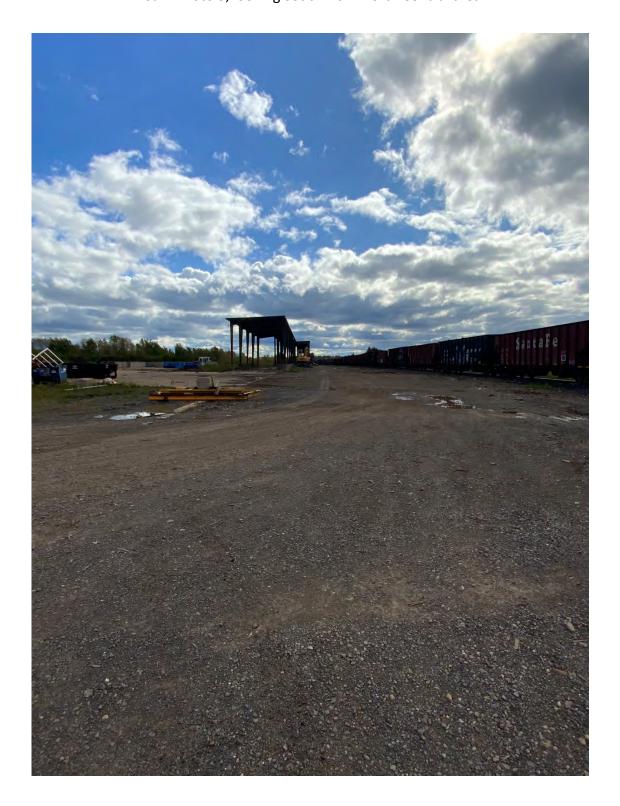


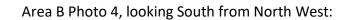


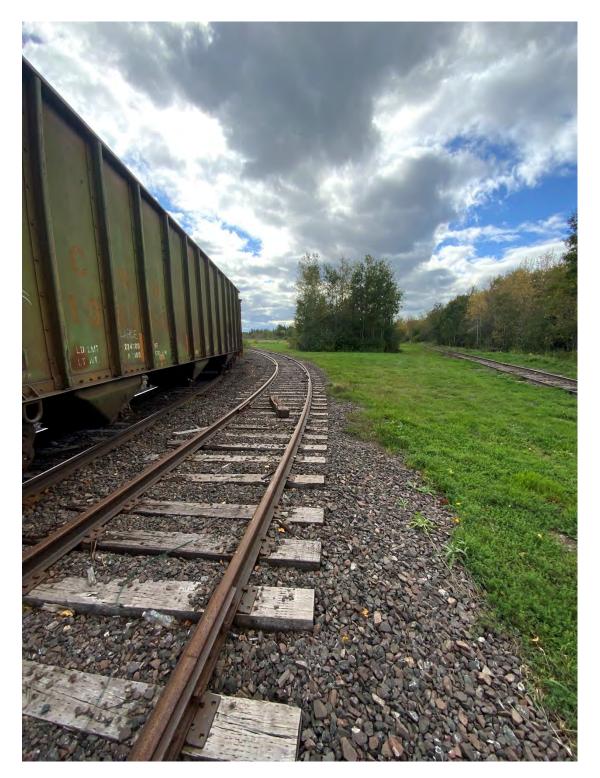




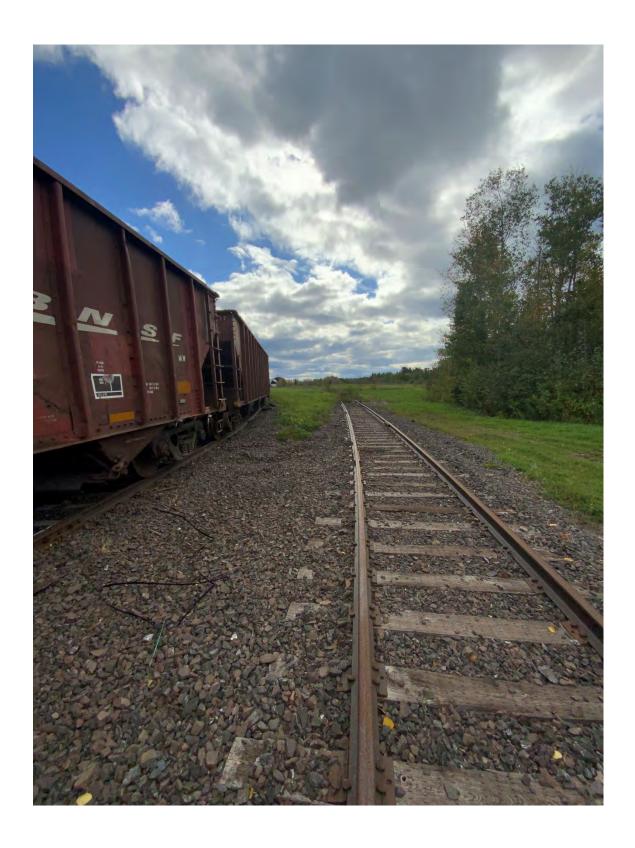
Area B Photo 3, looking South from North Central area:



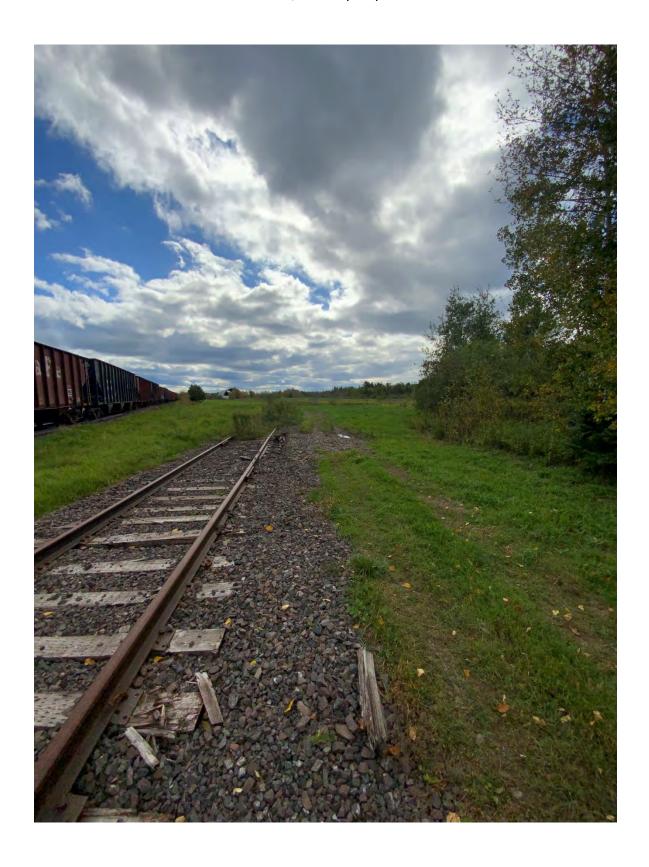




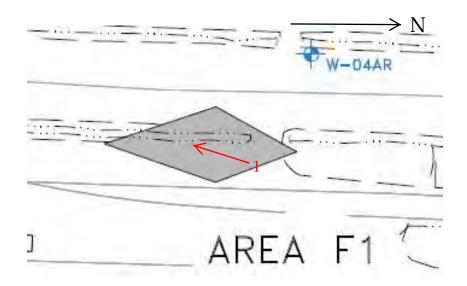
Area B Photo 5, Close up of photo 4:



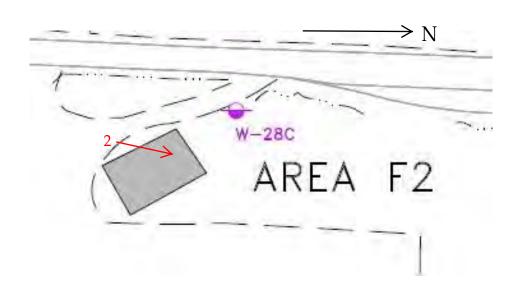
Area B Photo 6, Close up of photo 4:



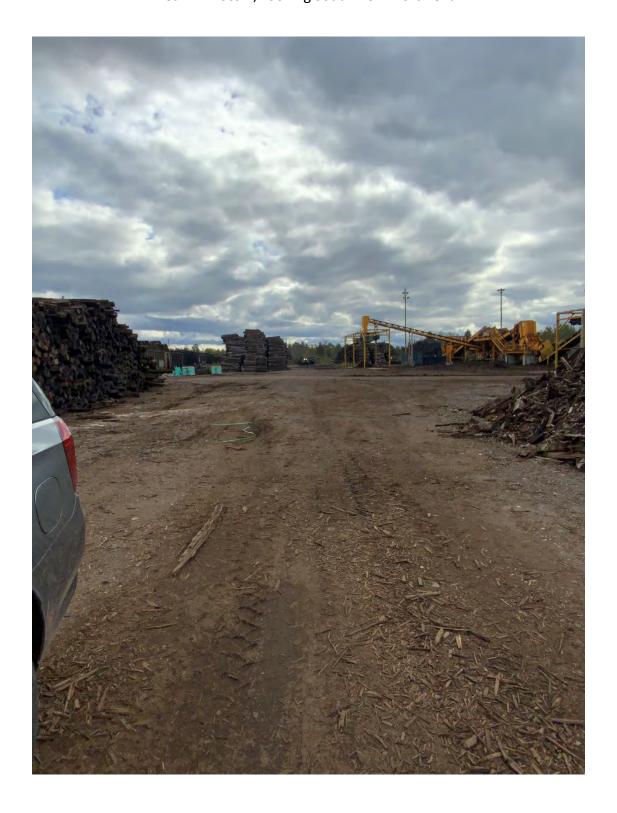
Area F1:

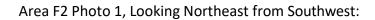


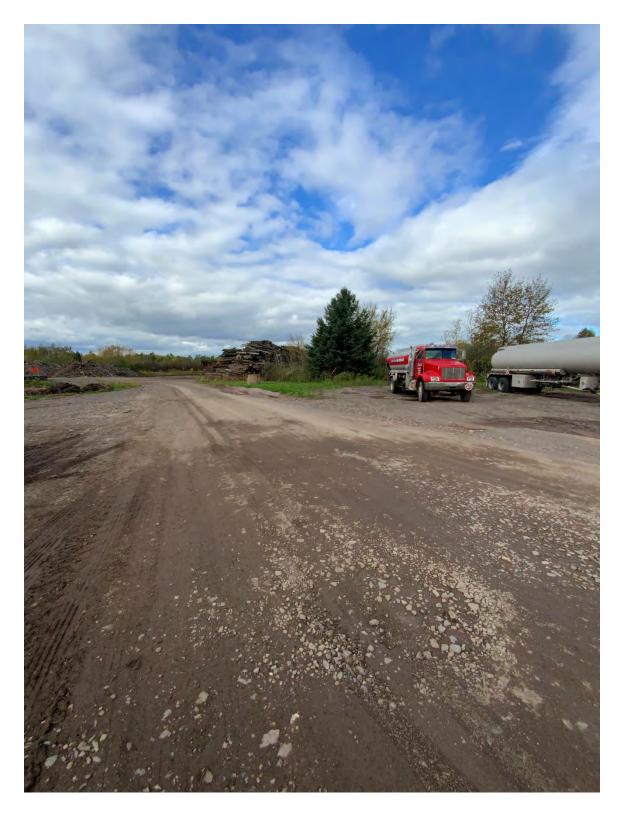
Area F2:



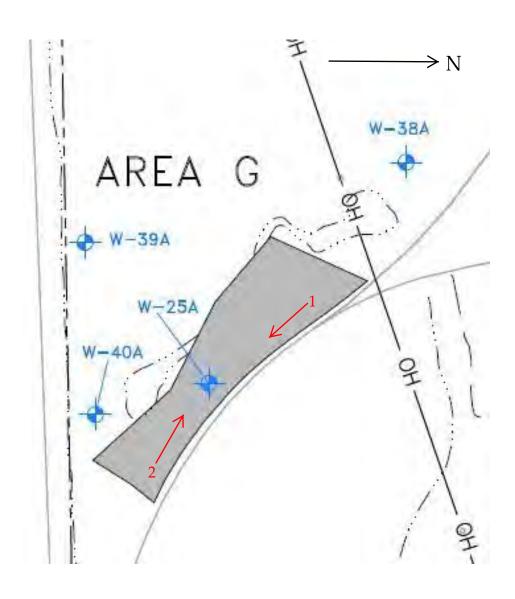
Area F1 Photo 1, Looking South from North end:







Area G:

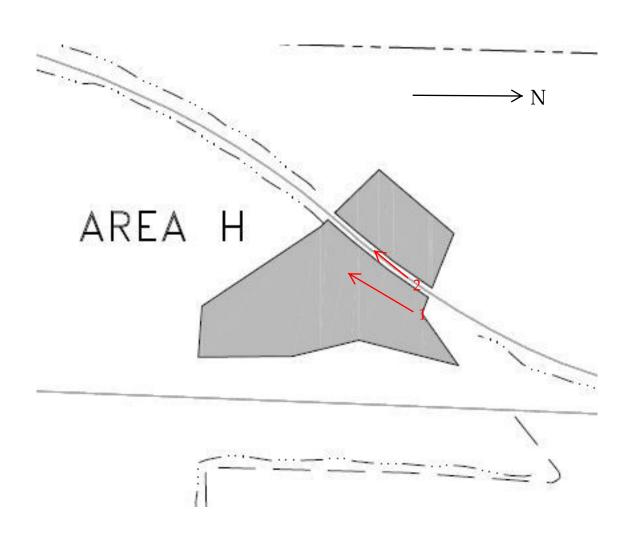


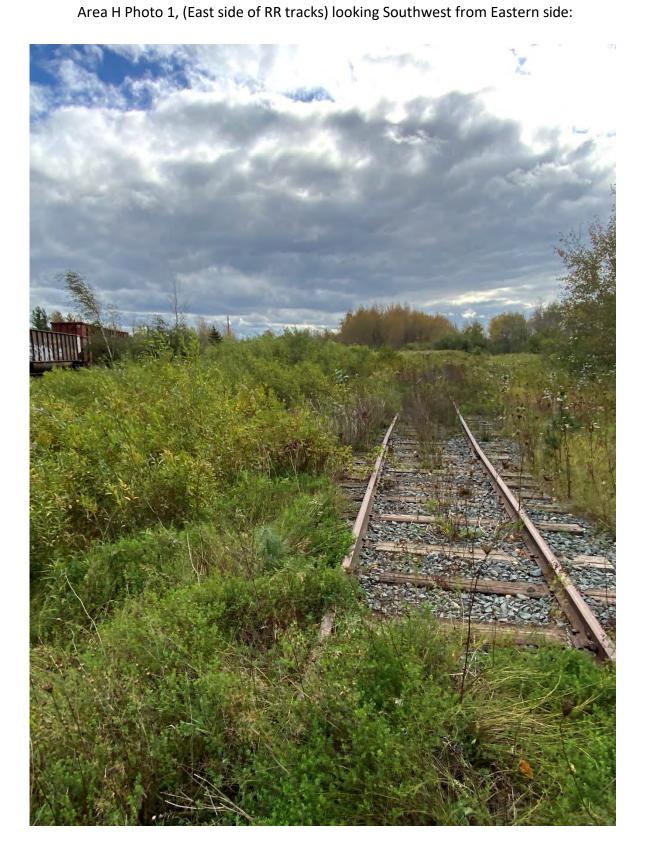


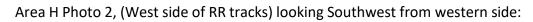
Area G Photo 2, looking Northwest from Southeast corner:



Area H:

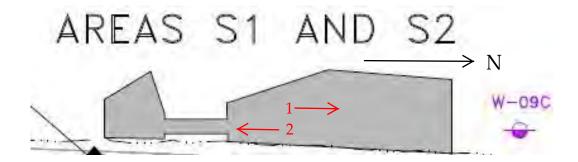








Area S1 and S2:



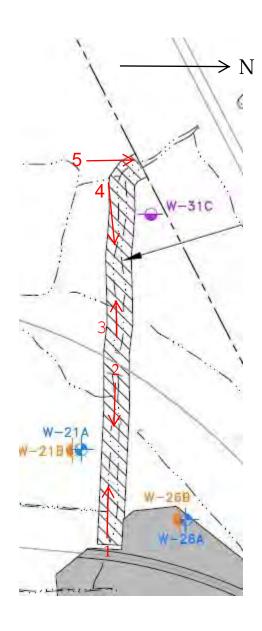




Area S Photo 2, looking South from center of area:



Outfall 001 and Drainage Ditch:

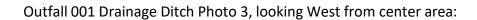


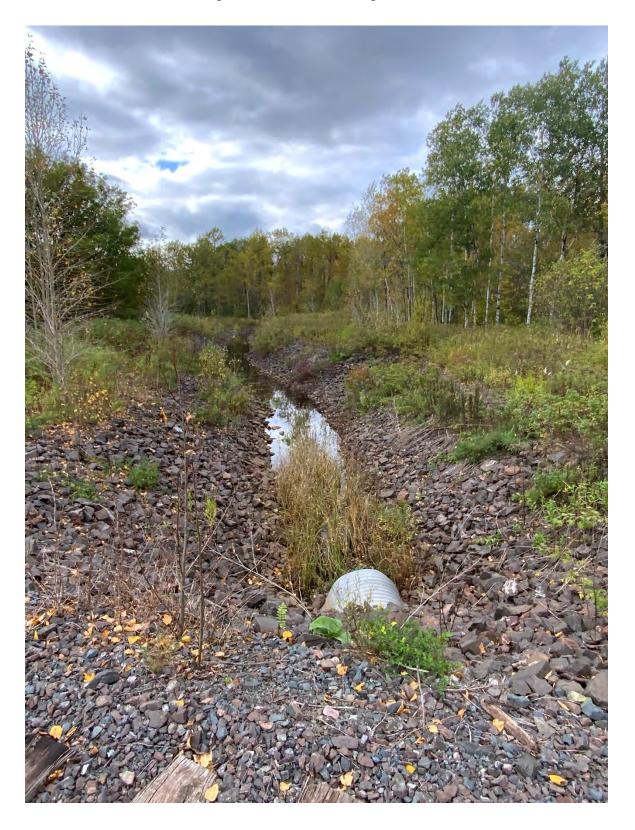
Outfall 001 Drainage Ditch Photo 1, looking West from Eastern edge:



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







Outfall 001 Drainage Ditch Photo 4, looking East from Western edge:



Outfall 001 Drainage Ditch Photo 5, looking North from Southern edge of ditch:



Post Construction Site Inspection Form Beazer East, Inc.

Koppers Inc. Facility, Superior, Wisconsin

Inspection Dat	te: 10/04/20	23		4				
Weather Cond	ditions: Good							
Inspector Nam	ne and Organization: $5h$	ane L	indquis	+ - FTS				
Inspector Sign	pature: <u>Ahane</u>	1-1	indolus	t				
Area A								
	(check one)	No	Yes	If yes, provide description and take photos				
Excessive ero	osion	X						
Evidence of e	excessive settling or	X						
	well-established	X						
Action Items:	NA							
Photographs:	10111111111111111111111111111111111111	oking Oking		ast from west side from west side				
	Photo:;	٥						
	Photo:;							
	Photo:;							
Area B								
	(check one)	No	Yes	If yes, provide description and take photos				
Excessive ero	sion	X						
Evidence of exponding	xcessive settling or	X						
Areas lacking vegetation	well-established	X						
Action Items:	NA							
Photographs:	Photo:;	ing So	wh fro	m Northeast central area				
	A COLOR OF THE PARTY OF THE PAR	o: 2 Looking West from Eastern edge						
	Photo: 3 ; LOOK	1		m North central area				
	Photo: 4; 00	king g	South F	rom Northwest				
	Photo: 5 ; Clos	re-up c	of phot	04				
	le C109	se-up	of pho	Page 1 of 4				

Area F-1

(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: _		Looking	south	from	North	end
	Photo:						
	Photo: _	_;_					
	Photo: _	_;_					
Area F-2							

(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	; Looking	Northeast from	Southwest
	Photo: _		.;		
	Photo:		1)		
	Photo: _		j		
	Photo:		,		

Area G

(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	Looking			Northwest	corner
	Photo: _	2	: Looking	Northwest	from	Southerst	- Corner
	Photo: _						
	Photo: _		r i				
	Photo: _		j				

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	X		

Action Items:	NA			
Photographs:	Photo:	1	: (East side of RR tracks) Looking Southwest from E. si	de
	Photo:	2	: (west side of RR tracks) Looking Southwest from W. si	de
	Photo:		.;	
	Photo:		<u>;</u>	
	Photo:			

Areas S-1 and S-2

(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	Looking	North from center of area
	Photo: _	2	: Looking	south from center of area
	Photo: _		_;	
	Photo: _		_i	
	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:	WA		
Photographs:	Photo:	1	: Looking West from Eastern edge
	Photo:	2	: Looking west from center area
	Photo:	3	: Looking West from center area
	Photo:	H	; Looking East from Westeren edge
	Photo:	5	: Looking North from Southern edge of difch
			σ