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2025 Annual Inspection Report

For Compliance with the EPA Coal Combustion Residuals (CCR) Rule 40 CFR §257.83(b)

Former B.C. Cobb Power Plant Ponds 0-8 and Bottom Ash Pond

May 15, 2025

Prepared for: Muskegon Environmental Redevelopment Group, LLC (MERG) Muskegon, Michigan

Prepared by: HDR MICHIGAN, Inc. 1000 Oakbrook Drive, Suite 200 Ann Arbor, Michigan 48104

Contents

1	Introc	luction and Purpose	1
	1.1	Site Location	1
	1.2	Site Description	2
	1.3	Previous Assessments and Inspections	4
2	Visua	Inspection Observations 2.1.1 South Embankment 2.1.2 West Embankment 2.1.3 North Embankment	5 5 6
		2.1.4 Intake/Outlet Structures	6
3	40 CF	⁻ R §257.83(b)(2) Reporting	7
4	Closu	ıre 1	0
5	Refer	ences 1	1
6	Appe	ndices1	1

Tables

Table 1-1. List of Previous Assessments and Inspections	4
Table 3-1. Monitoring Well Details	.7

Figures

Figure 1. Site Vicinity Map	. 2
Figure 2. Aerial Image of Impoundment	. 3
Figure 3. B.C. Cobb Site Terminology	. 5

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1 Introduction and Purpose

HDR MICHIGAN, Inc. (HDR) has prepared this 2025 Annual Inspection Report for Ponds 0-8 and Bottom Ash Pond at the Former B.C. Cobb Power Plant (B.C. Cobb) following the requirements of the Federal Coal Combustion Residuals (CCR) Rule to demonstrate compliance of the Former B.C. Cobb Power Plant in Muskegon, Michigan.

On April 17, 2015, the United States Environmental Protection Agency (EPA) issued the final rule (Ref. [3]) for disposal of Coal Combustion Residuals (CCR) under Subtitle D of the Resource Conservation and Recovery Act (RCRA). CCR Rule 40 CFR §257.73(b) requires that owners or operators of an existing CCR surface impoundment that either 1) has a height of five feet or more and a storage volume of 20 acre-feet or more; or 2) has a height of 20 feet or more perform periodic structural stability assessments (40 CFR §257.73(d)) and periodic safety factor assessments (40 CFR §257.73(e)).

Additionally, CCR Rule 40 CFR §257.83(b)(1) states that if the existing CCR surface impoundment is subject to the periodic structural stability assessment requirements under 40 CFR §257.73(d), then the impoundment must additionally be inspected on a periodic basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. This report presents the 2025 Annual Inspection for Ponds 0-8 and Bottom Ash Pond.

The 2025 Annual Inspection Report presented herein addresses the specific requirements of 40 CFR §257.83(b). This Annual Inspection Report was prepared by Mr. Bryce Burkett, P.E., and was reviewed in accordance with HDR's internal review policy by Ms. Lara Zawaideh, P.E., both of HDR. Mr. Burkett is a registered Professional Engineer in the State of Michigan.

1.1 Site Location

B.C. Cobb is a former electrical power generation facility located along North Causeway (M-120) in Muskegon, Michigan which was previously owned by Consumers Energy Company (CEC). The Muskegon Environmental Redevelopment Group, LLC (MERG) acquired the B.C. Cobb ponds in 2020 and has dewatered and removed CCR material from the ponds as part of pond remediation and closure efforts. The latitude and longitude of B.C. Cobb are approximately 43.254355 N and 86.241224 W. The site is located north of Muskegon, Michigan and south of the intersection of North Causeway (M-120) and the Muskegon River, as shown in the vicinity map, Figure 1.



Figure 1. Site Vicinity Map

1.2 Site Description

B.C. Cobb began operations in the 1940s with five coal-burning units, later converting three of those units to natural gas until operations were ceased by CEC in 2016. The CCR unit, which includes Ponds 0-8 and the Bottom Ash Pond, were National Pollutant Discharge Elimination System (NPDES) treatment units. Historically, CCR was deposited in the ponds by utilizing sluicing methods. Bottom ash slurry was directed into the Bottom Ash Pond, with Bottom Ash Pond overflow directed into either Ponds 5 or 6. Fly ash from the power plant was directed into Ponds 7 and 8. The ponded CCR was routed through the remaining ponds in series. Each pond allowed a portion of CCR particles to settle out before the overflow was transferred to the next pond. The overflow from Pond 4 was discharged to a National Pollutant Discharge Elimination System (NPDES) outfall located on the Discharge Channel which consisted of a 24-inch diameter high density polyethylene (HDPE) pipe. The NPDES outfall was made inactive prior to the 2017 Annual Inspection (Ref. [7]) and portions were reportedly grouted (Ref. [8]). A portion of the NPDES outfall has since been reactivated to provide outflow for treated water during current excavation activities. Additionally, two 18-inch diameter HDPE outflow pipes also connected Pond 4 to the Discharge Channel to serve as emergency outflow pipes, which have also been decommissioned. Further details of the outfall structures are discussed in Section 2.1.4.

The site is near several water bodies. The site is adjacent to the North Branch of the Muskegon River on the West Embankment, and the Veterans Memorial Pond is to the

northeast of the North Embankment. The Discharge Channel is adjacent to the South Embankment and discharges into the North Branch of the Muskegon River.

There are no available original construction documents detailing the existing subgrade or embankment information at the site. Based on prior subsurface investigations performed by Golder Associates, Inc. (Golder), the perimeter embankments (collectively referring to the South, West, and North Embankments in this report) are assumed to be constructed with standard earthwork equipment and compacted and/or proof rolled before subsequent lifts based on field geotechnical testing results. The foundation material consists of native sand underlain by silty clay (Ref. [6]).

MERG initiated closure of the ponds in 2020 by installing a soil-bentonite wall in the South and West embankments adjacent to the Discharge Channel and the North Branch of the Muskegon River, respectively, to promote dewatering activities. Dewatering began in July 2020 to prepare for excavation and removal of waste CCR. Ash removal began in August 2020 and was completed in May 2022. Currently, the interior embankments separating the ponds have been excavated, while the perimeter embankments are still in place adjacent to the Discharge Channel and the Muskegon River.

Figure 2 presents an aerial view of the CCR impoundment as of October 2024, displaying the present condition of Ponds 0-8 and the Bottom Ash Pond.



Figure 2. Aerial Image of Impoundment

1.3 Previous Assessments and Inspections

In 2009 and 2012, AECOM performed Ash Dike Risk Assessments for the impoundment system. The previous assessments have been reviewed as part of this study. Additionally, Golder previously performed annual inspections for Ponds 0-8. The Bottom Ash Pond was exempt from the inspection due to the size requirements (Ref. [4]) detailed in CCR Rule 40 CFR §257.73(b). The annual inspections were performed in accordance with 40 CFR §257.83(b), including a visual site inspection and associated reporting. The previous annual reports have been reviewed as part of this study.

Table 1-1 lists the previous reports which provide details of the annual inspections along with the date of the visual inspection.

Document Name	Date of Inspection	Reference
Inspection Report, B.C. Cobb Generating Facility, Ash Dike Risk Assessment, Muskegon, MI	August 28, 2009	Ref. [1]
B.C. Cobb Ash Disposal Area, 2012 Ash Dike Risk Assessment, Final Inspection Report	May 24, 2012	Ref. [2]
B.C. Cobb Ponds 0-8 Annual RCRA CCR Surface Impoundment Inspection Report - January 2016	October 14, 2015	Ref. [5]
B.C. Cobb Generating Facility, Pond 0-8 Structural Stability and Safety Factor Assessment Report	May 19, 2016	Ref. [6]
B.C. Cobb Ponds 0-8 2017 Annual Surface Impoundment Inspection Report	May 17, 2017	Ref. [7]
B.C. Cobb Ponds 0-8 2018 Annual Surface Impoundment Inspection Report	May 9, 2018	Ref. [8]
B.C. Cobb Ponds 0-8 2019 Annual Surface Impoundment Inspection Report	May 21, 2019	Ref. [9]
2021 Annual Inspection Report, Former B.C. Cobb Power Plant Ponds 0-8 and Bottom Ash Pond	March 24, 2021	Ref. [11]
2022 Annual Inspection Report, Former B.C. Cobb Power Plant Ponds 0-8 and Bottom Ash Pond	April 29, 2022	Ref. [12]
2023 Annual Inspection Report, Former B.C. Cobb Power Plant Ponds 0-8 and Bottom Ash Pond	April 27, 2023	Ref. [13]
2024 Annual Inspection Report, Former B.C. Cobb Power Plant Ponds 0-8 and Bottom Ash Pond	April 12, 2024	Ref. [14]

Table 1-1. List of Previous Assessments and Inspections

Prior to the 2023 annual inspection, no reports of structural instability of the perimeter embankments during previous inspections. In January 2023, MERG recognized sloughing on the interior slope of the North Embankment of the impoundment, likely due to wind/wave action during storm events. Additionally, minor sloughing at the toe of the other perimeter embankments were observed. MERG promptly began slope reinforcement repairs of the perimeter embankments, and those repairs are anticipated to be complete in May 2023. Further details of the repairs are discussed in Section 2.

2 Visual Inspection Observations

The visual inspection site visit was conducted on May 5, 2025, by Bryce Burkett, P.E. of HDR. The weather on May 5 was clear with temperatures ranging from 50 to 60 degrees. No noticeable rainfall had occurred within the 24 hours prior to the inspection.

The visual inspection was conducted in accordance with the CCR Final Rule to identify signs of distress or malfunction of the CCR unit and appurtenant structures and consisted of observations of features and conditions readily discernible by external visual inspection through reasonable efforts. Relevant photographs with the corresponding photograph locations are provided in Appendix A and the Inspection Checklist Form is provided in Appendix B. A discussion of the embankment conditions is presented in the following subsections and the terminology describing the embankment sections is shown in Figure 3.



Figure 3. B.C. Cobb Site Terminology

2.1.1 South Embankment

The South Embankment separates the impoundment to the north and the Discharge Channel to the south. The South Embankment appeared to be in good condition (Photos 5 and 6) and no evidence of movement, settlement, cracking, distress, erosion, seepage,

animal burrows, or other adverse conditions was observed in the crest and interior and exterior slopes, except as noted herein.

- The interior slope of the South Embankment was reinforced with stone rip-rap protection and seeding in 2023 (Photo 5).
- The crest of the embankment consisted of a gravelly/soil surface (Photos 5 and 6).
- Rip-rap protects the exterior slope in one area near the outflow (Photo 7) due to previous erosion repair, which was in good condition.
- Vegetation is overgrown on the exterior slope.

There were no other significant observations.

2.1.2 West Embankment

The West Embankment separates the impoundment to the east and the Muskegon River to the west. The West Embankment appeared to be in good condition (Photos 3 and 4) and no evidence of movement, settlement, cracking, distress, erosion, seepage, animal burrows or other adverse conditions was observed in the crest and interior and exterior slopes, except as noted herein.

- The interior slope of the West Embankment was recently reinforced with stone rip rap protection and seeding (Photo 3).
- Rip-rap protects the exterior slope, which was in good condition.
- Some minor vegetation overgrowth was observed on the exterior slope.

There were no other significant observations.

2.1.3 North Embankment

The North Embankment separates the impoundment to the south and the North Causeway (M-120) and Muskegon Lakeshore Trail to the north. The North Embankment appeared to be in good condition (Photos 1 and 2) and no evidence of movement, settlement, cracking, distress, erosion, seepage, animal burrows or other adverse conditions was observed in the crest and interior and exterior slopes, except as noted herein.

• Vegetation overgrowth was observed on the exterior slope.

There were no other significant observations.

2.1.4 Intake/Outlet Structures

The intake structures into Ponds 5, 6, and 8 are inactive and there is no inflow of water or CCR into the impoundment.

Prior to decommissioning the impoundment system, the pond network discharged from Pond 4 through the South Embankment via one 24-inch diameter HDPE outflow pipe to the permitted NPDES outflow (Photo 7) which was installed with a concrete headwall and endwall. There is no water currently exiting the outfall. Additionally, there was no evidence of settlement, sinkholes, or cracking in the area of the embankment above the pipes extending through the South Embankment.

3 40 CFR §257.83(b)(2) Reporting

The requirements to be documented in the Inspection Report for existing CCR surface impoundments are detailed in 40 CFR §257.83(b): *Annual inspections by a qualified professional engineer.* As discussed in Section 2, the visual inspection site visit was conducted on May 5, 2025, by Bryce Burkett, P.E. of HDR. CCR Rule 40 CFR §257.83(b)(2) states that the inspection report must address items 40 CFR §257.83(b)(2)(i) through 40 CFR §257.83(b)(2)(vii). Details of the 2025 Annual Inspection addressing those items are presented below:

§257.83 (b)(2)(i): Any changes in geometry of the impounding structure since the previous annual inspection.

The site has not changed since the 2024 Annual Inspection.

§257.83 (b)(2)(ii): The location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection.

The certified monitoring network at B.C. Cobb currently consists of 27 monitoring wells at various locations across the site as shown on Figure 2 in HDR 2022 (Ref. [10]). Table 3-1 provides details for the monitoring wells installed in the vicinity of the impoundment system including the maximum groundwater elevations recorded during one semi-annual sampling event in 2024 (October) and one semi-annual sampling event in 2025 (April).

Well	Elevation (TOC) (feet AMSL ¹)	Depth of Screen (feet)	Max. Static Water Elevation (feet AMSL ¹)
MW-15001	586.52	10-20	579.94
MW-15002	586.87	15-20	580.11
MW-15003	587.12	13-18	580.18
MW-15004	590.57	5-15	580.25
MW-15005	587.77	5-15	580.02
MW-15006	587.81	5-15	580.38
MW-15007	587.43	4-10	580.22
MW-15008	587.76	4-9	580.07
MW-15009	589.27	14-24	580.09
MW-15010	588.11	12-22	580.08
MW-15013	590.00	30-40	579.94
MW-15014R	589.52	23-31	580.17

Table 3-1. Monitoring Well Details

Well	Elevation (TOC) (feet AMSL ¹)	Depth of Screen (feet)	Max. Static Water Elevation (feet AMSL ¹)	
MW-15015R	586.52	20-30	580.22	
MW-15016R	586.62	35-40	579.97	
MW-15017	588.61	35-40	579.79	
MW-15018	592.43	37.5-42.5	579.49	
MW-15019	592.42	37-42	579.54	
MW-15020	592.23	35-40	579.54	
MW-15021	593.73	39.5-42.5	579.99	
MW-15022	595.82	24-30	580.21	
MW-15023	588.08	12-19.5	579.88	
MW-17001R	586.61	15-20	580.41	
MW-17002	588.79	13.5-18.5	580.35	
MW-17003	592.37	17-22	580.21	
MW-17004	591.84	17.5-22.5	580.19	
MW-17005	592.42	20-25	579.98	
MW-17006	593.78	24.5-29.5	579.98	
1. Above mean sea level.				

Table 3-1. Monitoring Well Details

No other instrumentation is present at the site for monitoring the structural stability of the impoundment.

§257.83 (b)(2)(iii): The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection.

At the time of the inspection, the water level in the impoundment was at approximately El. 580. The depth of water within the impoundment ranges from approximately 6 to 11 feet.

§257.83 (b)(2)(iv): The storage capacity of the impounding structure at the time of the inspection.

The storage capacity of the impoundment is approximately 543,000 cubic yards.

§257.83 (b)(2)(v): The approximate volume of the impounded water and CCR at the time of the inspection.

At the time of the inspection, the water in the impoundment was at approximately El. 580 feet and the approximate volume of water was 260,000 cubic yards.

MERG has completed the CCR removal within the impoundment.

§257.83 (b)(2)(vi): Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the

potential to disrupt the operation and safety of the CCR unit and appurtenant structures.

Based on visual observations made during the site visit, no apparent or potential structural weakness were observed.

§257.83 (b)(2)(vii): Any other change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.

No changes were observed which may have affected the stability or operation of the impoundment system since the previous annual inspection.

4 Closure

Based on the information provided to HDR by MERG, information available on the MERG and Consumer Energy's CCR website, and HDR's visual observations and analyses, this 2025 Annual Inspection was conducted in accordance with the requirements of the USEPA 40 CFR Parts 257 and 261 Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule, April 17, 2015 (CCR Final Rule). Based on the information currently available, I certify to the best of my knowledge, information and belief that this Annual Inspection of Ponds 0-8 and Bottom Ash Pond meets the requirements of CCR Rule §257.83(b) in accordance with professional standards of care for similar work.

Byra But

Bryce Burkett, P.E. Senior Geotechnical Project Manager

5 References

- *Ref.* [1] AECOM. Inspection Report, B.C. Cobb Generating Facility, Ash Dike Risk Assessment, Muskegon, MI. December 8, 2009.
- *Ref.* [2] AECOM. B.C. Cobb Ash Disposal Area, 2012 Ash Dike Risk Assessment, Final Inspection Report. July 2012.
- *Ref.* [3] Environmental Protection Agency, 40 CFR Parts §257 and 261; Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule, Washington D.C., April 2015.
- *Ref.* [4] Consumers Energy Company. B.C. Cobb History of Construction Ponds 0-8. October 17. 2016.
- *Ref.* [5] Golder Associates, Inc. B.C. Cobb Generating Facility, Ponds 0-8, Annual RCRA CCR Surface Impoundment Inspection Report, January 15, 2016.
- *Ref.* [6] Golder Associates, Inc. B.C. Cobb Generating Facility, Ponds 0-8, Structural Stability and Safety Factor Assessment Report, October 14, 2016.
- *Ref.* [7] Golder Associates, Inc. B.C. Cobb Generating Facility, Ponds 0-8, 2017 Annual Surface Impoundment Inspection Report, October 12, 2017.
- *Ref.* [8] Golder Associates, Inc. B.C. Cobb Generating Facility, Ponds 0-8, 2018 Annual Surface Impoundment Inspection Report, October 15, 2018.
- *Ref.* [9] Golder Associates, Inc. B.C. Cobb Generating Facility, Ponds 0-8 2019 Annual Surface Impoundment Inspection Report, October 10, 2019.
- *Ref.* [10] HDR Michigan, Inc. 2021 Annual Groundwater Monitoring and Corrective Action Report and Semi-Annual Remedy Selection and Design Progress Report, January 31, 2022.
- *Ref.* [11] HDR Michigan, Inc. 2021 Annual Inspection Report, Former B.C. Cobb Power Plant Ponds 0-8 and Bottom Ash Pond, May 26, 2021.
- *Ref.* [12] HDR Michigan, Inc. 2022 Annual Inspection Report, Former B.C. Cobb Power Plant Ponds 0-8 and Bottom Ash Pond, May 26, 2022.
- *Ref.* [13] HDR Michigan, Inc. 2023 Annual Inspection Report, Former B.C. Cobb Power Plant Ponds 0-8 and Bottom Ash Pond, May 17, 2023.
- *Ref.* [14] HDR Michigan, Inc. 2023 Annual Inspection Report, Former B.C. Cobb Power Plant Ponds 0-8 and Bottom Ash Pond, May 17, 2024.

6 Appendices

Appendix A	Site Visit Photographs
Appendix B	Inspection Checklist

APPENDIX A SITE VISIT PHOTOGRAPHS

Client Name:	Site Location:	Photographic Log		
Muskegon Environmental Redevelopment Group, LLC (MERG)	Ponds 0-8 and Bottom Ash Pond Former B.C. Cobb Power Plant Muskegon, Michigan	Project No. 10220433 Date: May 5, 2025		
Photograph No. 1	and the second			
Description: Interior slope of North Embankment.		the second secon		
CIRT				
Photograph No. 2				
Description: Interior slope of North Embankment.		t a all		
		and and a second second		

Client Name:	Site Location:	Photographic Log	
Muskegon Environmental Redevelopment Group, LLC (MERC)	Ponds 0-8 and Bottom Ash Pond Former B.C. Cobb Power Plant Muskegon, Michigan	Project No. 10220433 Date: May 5, 2025	
Photograph No. 3	NAMES OF BRIDE	Contraction of the second s	
Description: Interior slope of West Embankment.			
CIER			
Photograph No. 4	ALL AND A		
Description: Crest of West Embankment.			
	Why have a second		
C/ Com			

Client Name:	Site Location:	Photographic Log		
Muskegon Environmental Redevelopment Group, LLC (MERG)	Ponds 0-8 and Bottom Ash Pond Former B.C. Cobb Power Plant Muskegon, Michigan	Project No. 10220433 Date: May 5, 2025		

Photograph No. 5

Description: Crest and interior slope of South Embankment.

Photograph No. 6

Description: Dewatering inlet in crest of South Embankment connecting to NPDES outfall. Connection appeared in good condition.

Client Name:	Site Location:	Photographic Log
Muskegon Environmental Redevelopment Group, LLC (MERG)	Ponds 0-8 and Bottom Ash Pond Former B.C. Cobb Power Plant Muskegon, Michigan	Project No. 10220433 Date: May 5, 2025

Photograph No. 7

Description: NPDES outflow on exterior slope of South Embankment adjacent to Discharge Channel. No flow of water exiting outflow.

<text>

APPENDIX B INSPECTION CHECKLIST

Site Name: Former B.C. Cobb Power Plant			Date: May 5, 2025			
Unit Name: Ponds 0-8 and Bottom Ash Pond			Operator's Name: Muskegon Environmental Redevelopment Group, LLC (MERG)			
Unit I.D.: N/A			Hazard Potential Classification:	Significant	Low	
Inspector's Name: Bryce Burkett, P.E.						
Check the appropriate box below. Provide comments when appropriate. If not applicable or not available, record "N/A". Any unusual conditions or construction practices that should be noted in the comments section. For large diked embankments, separate checklists may be used for different embankment areas. If separate forms are used, identify approximate area that the form applies to in comments.						
	Yes	No		Yes	No	
1. Frequency of Company's Dam Inspections?	Mor	nthly	18. Sloughing or bulging on slopes?		Х	
2. Pool elevation (operator records)?	580	.0 ft	19. Major erosion or slope deterioration?		Х	
3. Decant inlet elevation (operator records)?	N	/A	20. Decant Pipes:		ľ	
4. Open channel spillway elevation (operator records)?	N	/A	Is water entering inlet, but not exiting outlet?		No	
5. Lowest dam crest elevation (operator records)?	586.0 ft		Is water exiting outlet, but not entering inlet?		No	
6. If instrumentation is present, are readings recorded (operator records)?	X		Is water exiting outlet flowing clear?		No	
7. Is the embankment currently under construction?		Х	21. Seepage (specify location, if seepage carries fines, and approximate seepage rate below):			
8. Foundation preparation (remove vegetation, stumps topsoil in area where embankment fill will be placed)?	N	/A	From underdrain?		Х	
 Trees growing on embankment? (If so, indicate largest diameter below) 	Х		At isolated points on embankment slopes?		Х	
10. Cracks or scarps on crest?		Х	At natural hillside in the embankment area?		Х	
11. Is there significant settlement along the crest?		Х	Over widespread areas?		Х	
12. Are decant trashracks clear and in place?	N/A		From downstream foundation area?		Х	
13. Depressions or sinkholes in tailings surface or whirlpool in the pool area?		/A	"Boils" beneath stream or ponded water?		Х	
14. Clogged spillways, groin or diversion ditches?		Х	Around the outside of the decant pipe?		Х	
15. Are spillway or ditch linings deteriorated?		/A	22. Surface movements in valley bottom or on hillside?		Х	
16. Are outlets of decant or underdrains blocked?	N	/A	23. Water against downstream toe?			
17. Cracks or scarps on slopes?		Х	24. Were Photos taken during the dam inspection?	Х		

Major adverse changes in these items could cause instability and should be reported for further evaluation. Adverse conditions noted in these items should normally be described (extent, location, volume, etc.) in the space below and on the back of this sheet.

Inspection Item #

Comments

1. Monthly inspections performed by MERG staff.

6. Monitoring well readings collected by MERG.

9. Trees growing along waterside of south embankment. Largest diameter approx. 3-inches.

23. The Muskegon River and the Discharge Channel border the west and south embankments.

EPA FORM -XXXX

Coal Combustion Waste (CCW) Impoundment Inspection

Impoundment NPDE	SPermit# MI0060 Outfal	<u>248 –</u> 1 001	INSPECTO	DR <u>Bryce</u>	Burkett, P.E.		
Date: <u>May 5, 202</u>	5		_				
Impoundment Name: B.C. Cobb Ponds 0-8 and Bottom Ash Pond Impoundment Company: Muskegon Environmental Redevelopment Group, LLC (MERG							
EPA Region: 5 State Agency (Fiel	d Office) Address	3					
Name of Impound	ment B.C. Co	bb Ponds 0-8	8 and Bottom A	sh Pond			
(Report each impo Permit number)	undment on a sep	arate form ur	ider the same In	npoundm	ent NPDES		
New <u>x</u> Up	date						
Is impoundment currently under construction? Is water or CCR currently being pumped into the impoundment?			Yes	Yes No X			
IMPOUNDMENT	Γ FUNCTION: <u>C</u> ι	arrently inact	ive and undergo	ing closu	<u>ire</u>		
Nearest Downstrea Distance from the	am Town: <u>Musl</u> impoundment: <u>0 1</u>	kegon, Michi niles	gan	_			
Location:	Longitude <u>43</u> Latitude <u>86</u>	_Degrees1 _Degrees1	<u>6</u> Minutes 4 Minutes	15.68 28.41	_Seconds _Seconds		
	State <u>MI</u>	County	Muskegon				
Does a state agenc	y regulate this im	ooundment?	YES X N	0			

If So, Which State Agency? <u>Michigan Department of Environment, Great Lakes, and Energy (EGLE)</u> EPA Form XXXX-XXX 1 **HAZARD POTENTIAL** (In the event the impoundment should fail, the following would occur):

LESS THAN LOW HAZARD POTENTIAL: Failure or misoperation of the dam results in no probable loss of human life or economic or environmental losses.

LOW HAZARD POTENTIAL: Dams assigned the low hazard potential classification are those where failure or misoperation results in no probable loss of human life and low economic and/or environmental losses. Losses are principally limited to the owner's property.

X SIGNIFICANT HAZARD POTENTIAL: Dams assigned the significant hazard potential classification are those dams where failure or misoperation results in no probable loss of human life but can cause economic loss, environmental damage, disruption of lifeline facilities, or can impact other concerns. Significant hazard potential classification dams are often located in predominantly rural or agricultural areas but could be located in areas with population and significant infrastructure.

HIGH HAZARD POTENTIAL: Dams assigned the high hazard potential classification are those where failure or misoperation will probably cause loss of human life.

DESCRIBE REASONING FOR HAZARD RATING CHOSEN:

Referring to the Hazard Classification completed by Golder Associates (2016): "dike failure or mis-operation would result in a discharge of CCR from the dike and the surface impoundment into Muskegon Lake. No probable loss of human life is expected, but the dike failure may cause environmental damage that would not be limited to the surface impoundment owner's property."

CONFIGURATION:

<u>TYPE OF OUTLET</u> (Mark all that apply)

If So When? <u>January 2023</u> If So Please Describe : <u>Sloughing of the interior embankment of the North</u> Embankment was observed in January 2023. MERG initiated repair consisting of slope reinforcement of the interior slope of the North Embankment and proactive reinforcement of the interior slopes of the other perimeter embankments. Construction completed in June 2023.
If So Please Describe : <u>Sloughing of the interior embankment of the North</u> Embankment was observed in January 2023. MERG initiated repair consisting of slope reinforcement of the interior slope of the North Embankment and proactive reinforcement of the interior slopes of the other perimeter embankments. Construction completed in June 2023.
of the other perimeter embankments. Construction completed in June 2023.

Has there ever been significant seepages at this site?	YES	NO	X
If So When?			
IF So Please Describe:			

Has there ever been any measures undertaken to monitor/lower Phreatic water table levels based on past seepages or breaches							
at this site?	YES	_NO_	Х				
If so, which method (e.g., piezometers, gv	v pumping,)?						
If so Please Describe :							