



Submitted to
Southern Indiana
Gas & Electric Company
(SIGECO)
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Evansville, IN 47708

Submitted by
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October 11, 2025

CCR Annual Inspection
§257.83 (b)
for the
Ash Pond
at the
A.B. Brown Generating Station
Revision 0

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Executive Summary

This Coal Combustion Residuals (CCR) Annual Inspection for the Ash Pond at the Southern Indiana Gas & Electric Company, Inc., A.B. Brown Generating Station has been prepared in accordance with the requirements specified in the USEPA CCR Rule under 40 Code of Federal Regulations §257.83 (b). These regulations require that the specified documentation and assessments for an existing CCR surface impoundment be prepared within one year of the placement of the previous inspection report in the facility's operating record. The 2024 inspection report was placed in the facility's operating record on October 11, 2024. SIGECO is placing this year's report in the facility's Operating Record no later than October 11, 2025, which is within one year of the date of the previous year's inspection report being placed in the facility's Operating Record.

This Inspection for the Ash Pond meets the regulatory requirements as summarized in **Table ES-1**.

Table ES-1 –Summary				
Report Section	CCR Rule Reference	Requirement Summary	Requirement Met?	Comments
2.1	§257.83 (b)(1)	<i>Annual Inspection</i>	Yes	The CCR Unit has met the annual inspection requirements
2.2	§257.83 (b)(2)	<i>Inspection Report</i>	Yes	The CCR Unit has met the inspection report requirements
2.3	§257.83 (b)(4)	<i>Frequency of Inspections</i>	Yes	The CCR Unit has met the required frequency of inspections
2.4	§257.83 (b)(5)	<i>Deficiency Identified</i>	Yes	Remedial actions and measures have been identified for all noted deficiencies

The Brown Ash Pond is a surface impoundment undergoing excavation for beneficial use. All inspection requirements were evaluated, and the surface impoundment was found to meet all requirements as required within each individual assessment in §257.83 (b).

1 Introduction

1.1 Purpose of this Report

The purpose of the Annual Inspection presented in this report is to document that the requirements specified in 40 Code of Federal Regulations (CFR) §257.83 (b) have been met to support the requirement under each of the applicable regulatory provisions for the A.B. Brown Generating Station (Brown) Ash Pond. The Brown Ash Pond is an existing coal combustion residual (CCR) surface impoundment as defined by 40 CFR §257.53. The CCR Rule requires that the specified documentation and assessments for an existing CCR surface impoundment be prepared within one year of the placement of the previous inspection report in the facility's operating record. The 2024 inspection report was placed in the facility's operating record on October 11, 2024. SIGECO is placing this year's report in the facility's Operating Record no later than October 11, 2025, which is within one year of the date of the previous year's inspection report being placed in the facility's Operating Record.

The Ash Pond at the Brown Station, which previously consisted of an upper and lower pool, now functions as a single, unified impoundment following the breaching and subsequent removal of the dam that separated them. The following table summarizes the documentation required within the CCR Rule and the sections that specifically respond to those requirements of this assessment.

Table 1-1 – CCR Rule Cross Reference Table		
Report Section	Title	CCR Rule Reference
2.1	Annual Inspection	§257.83 (b)(1)
2.2	Inspection Report	§257.83 (b)(2)
2.3	Frequency of Inspections	§257.83 (b)(4)
2.4	Deficiency Identified	§257.83 (b)(5)

1.2 Brief Description of Impoundment

The Brown station is a power plant that operated coal-fired unit prior to its retirement on October 7, 2023, with natural gas fired units remaining operational, located approximately 10 miles east of Mount Vernon in Posey County, Indiana and is owned and operated by Southern Indiana Gas & Electric Company, Inc. (SIGECO). The Brown station is situated just west of the Vanderburgh-Posey County line and north of the Ohio River with the Ash Pond positioned on the east side of the generating station.

The Ash Pond was commissioned in 1978. An earthen dam was constructed across an existing valley to create the impoundment. In 2003, a second dam was constructed east of the original dam and further up the valley to increase the storage capacity. This temporarily created an upper pond and a lower pond. The upper and lower ponds were operated separately until 2016 when the upper dam was breached and decommissioned, restoring the pond to a

single CCR unit known as the Ash Pond with a surface area of approximately 164 acres¹. The upper dam was recently removed as part of the excavation for beneficial re-use and closure.

The Ash Pond dam embankment is approximately 1,540 feet long, 30 feet high, and has 3 to 1 (horizontal to vertical) side slopes covered with grassy vegetation. The embankment crest elevation is 450.9 feet ³ and has a crest width of 20 feet. An earthen buttress was constructed against the outboard slope of the dam. The buttress crest extends the length of the dam, is up to 200 feet wide and varies in elevation from 442 feet to 432 feet. A site Location Map showing the area surrounding the station is included as **Figure 1** of **Appendix A**. **Figure 2** in **Appendix A** presents the Brown Site Map.

¹ Identified as 159 acres in prior documents, but recently verified via aerial photogrammetry to be approximately 164-acres.

³ Unless otherwise noted, all elevations in this report are in the NAVD88 datum.

2 Annual Inspection Description

Regulatory Citation: 40 CFR §257.83 Inspection requirements for CCR surface impoundments

The Annual Inspection for the Ash Pond is described in this section. Information about operational and maintenance procedures was provided by Brown plant personnel. The Brown station follows an established maintenance program that quickly identifies and resolves issues of concern.

2.1 Annual Inspection

Regulatory Citation: 40 CFR §257.83 (b) Annual inspections by a qualified professional engineer;

- *(1) If the existing or new CCR surface impoundment or any lateral expansion of the CCR surface impoundment is subject to the periodic structural stability assessment requirements under §257.73 (d) or §257.74 (d), the CCR unit 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.*

The Ash Pond is subject to the periodic structural stability assessment requirements as mentioned. Thus, the following items were performed to comply with the CCR Rule.

2.1.1 Review of Available Information

Regulatory Citation: 40 CFR §257.83 (b)(1);

- *(i) A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., CCR unit design and construction information required by §257.73 (c)(1) and §257.74 (c)(1), previous periodic structural stability assessments required under §257.73 (d) and §257.74 (d), the results of inspections by a qualified person, and results of previous annual inspections).*

The available information was reviewed on August 26, 2025, for the Ash Pond, including the weekly inspections by plant personnel and the previous CCR Rule annual inspection performed by AECOM.

2.1.2 Visual Inspection

Regulatory Citation: 40 CFR §257.83 (b)(1);

- *(ii) A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit and appurtenant structures.*

The Ash Pond was visually inspected by AECOM on August 26, 2025. No major signs of distress or malfunction of the CCR unit and appurtenant structures were identified. A few minor maintenance issues are listed under Section 2.4.2.

Regulatory Citation: 40 CFR §257.83 (b)(1);

- *(iii) A visual inspection of any hydraulic structures underlying the base of the CCR unit or passing through the dike of the CCR unit for structural integrity and continued safe and reliable operation.*

The exposed elements of the hydraulic structures underlying the base or passing through the dike of the CCR unit of the Ash Pond were visually inspected for structural integrity on August 26, 2025.

2.2 Content of the Inspection Report

Regulatory Citation: 40 CFR §257.83 (b)(2) Inspection report. The qualified professional engineer must prepare a report following each inspection that addresses the following:

- *(i) Any changes in geometry of the impounding structure since the previous annual inspection.*

The geometry of the impounding structure has not changed since the previous annual inspection.

- *(ii) The location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection.*

Plant personnel formerly obtained water surface elevation data for the Ash Pond using an ultrasonic level indicator. Water is no longer impounded in the Ash Pond, so no data has been collected since the closure of the plant.

- *(iii) The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection.*

Water is no longer impounded in the Ash Pond. CCR depths range from 0 feet to approximately 62 feet. The minimum CCR depth occurs along the perimeter of the impoundment. The maximum CCR depth occurs at the center of the base of the former impoundment embankment location. The elevation at the top of CCR material at this location is approximately elevation 441.0 feet.

- *(iv) The storage capacity of the impounding structure at the time of the inspection.*

The storage capacity of the impounding structure is approximately 6,370,700 ⁴ CY.

- *(v) The approximate volume of the impounded water and CCR at the time of the inspection.*

The current approximate volume of CCR material in the Ash Pond is 5,515,000 CY. As of September 12, 2025, approximately 1,090,000 tons of CCR material have been excavated from the pond and sent off-site for beneficial reuse.

- *(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.*

The visual inspection performed on August 26, 2025, did not reveal any actual or potential structural weaknesses.

⁴ Storage Capacity was calculated based on a comparison of top of dike elevations and enhanced pre-development 1973 historical grades. Prior documents estimated the storage capacity as 5,790,000 CY based on a former version of the pre-development 1973 historical grades that had a lower quality of topographical data.

- *(vii) Any other change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.*

There were no other changes which might have affected the stability or operation of the impounding structure since the previous annual inspection.

2.3 Frequency of Inspections

Regulatory Citation: 40 CFR §257.83 (b)(4);

- *(i) Except as provided for in paragraph (b)(4)(ii) of this section, the owner or operator of the CCR unit must conduct the inspection required by paragraphs (b)(1) and (2) of this section on an annual basis. The date of completing the initial inspection report is the basis for establishing the deadline to complete the first subsequent inspection. Any required inspection may be conducted prior to the required deadline provided the owner or operator places the completed inspection report into the facility's operating record within a reasonable amount of time. In all cases, the deadline for completing subsequent inspection reports is based on the date of completing the previous inspection report. For purposes of this section, the owner or operator has completed an inspection when the inspection report has been placed in the facility's operating record as required by §257.105 (g)(6).*

The 2024 inspection report was placed in the operating record on October 11, 2024. SIGECO is placing this inspection report in the facility's operating record no later than October 11, 2025.

- *(ii) In any calendar year in which both the periodic inspection by a qualified professional engineer and the quinquennial (occurring every five years) structural stability assessment by a qualified professional engineer required by §257.73 (d) and §257.74 (d) are required to be completed, the annual inspection is not required, provided the structural stability assessment is completed during the calendar year. If the annual inspection is not conducted in a year as provided by this paragraph (b)(4)(ii), the deadline for completing the next annual inspection is one year from the date of completing the quinquennial structural stability assessment.*

The quinquennial structural stability assessment is not required for this year as it was completed in October 2021. Thus, an annual inspection report was submitted to SIGECO as stipulated in §257.83 (b)(4)(i).

2.4 Deficiency Identified

Regulatory Citation: 40 CFR §257.83 (b)(5);

- *If a deficiency or release is identified during an inspection, the owner or operator must remedy the deficiency or release as soon as feasible and prepare documentation detailing the corrective measures taken.*

Areas of concern from previous inspections were reviewed and described below in section 2.4.1. Areas of concern from this year's inspection are described in section 2.4.2.

2.4.1 Previous Inspection

No areas of concern were noted during the annual inspection performed on September 16, 2024.

2.4.2 Current Inspection

Three minor areas of concern were noted during the annual inspection performed on August 26, 2025. Corrective measures have been proposed to meet the requirements of §257.83 (b)(5) for each deficiency or observation identified as shown in the table below.

Table 2-1 – Areas of Concern (Inspected: August 26, 2025)	
Deficiency/Observation	Proposed Corrective Measure
One repaired slough near grouted RCP discharge pipe. See Figure 3.	Area to be reseeded/mulched.
Minor bare spot, approximately 25' upslope from the toe of buttress slope. See Figure 3.	Bare spot to be seeded/mulched.
A portion of an HDPE pipe is exposed at the toe of the buttress. See Figure 3.	Backfill with soil and seed/mulch.

3 Certification

This Certification Statement documents that the annual inspection has been completed for the Ash Pond at the A.B. Brown Generating Station and this inspection report meets the requirements specified in 40 CFR §257.83 (b). The Ash Pond is an active CCR surface impoundment as defined by 40 CFR §257.53.

CCR Unit: Southern Indiana Gas & Electric Company; A.B. Brown Generating Station; Ash Pond

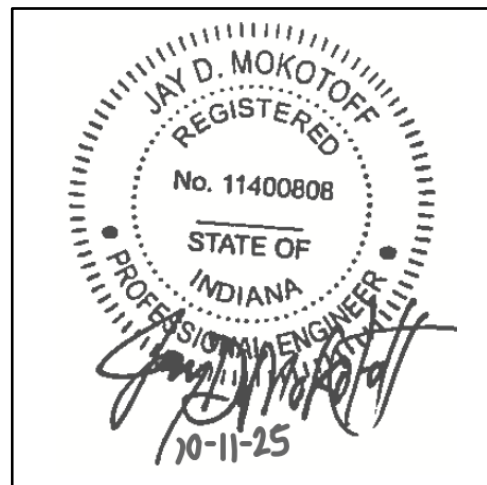
I, Jay Mokotoff, being a Registered Professional Engineer in good standing in the State of Indiana, do hereby certify, to the best of my knowledge, information, and belief that the information contained in this certification has been prepared in accordance with the accepted practice of engineering. I certify, for the above referenced CCR Unit, that the annual inspection dated October 11, 2025, meets the requirements of 40 CFR §257.83 (b).

Jay D. Mokotoff

Printed Name

10-11-2025

Date



4 Limitations

Background information, design basis, and other data which AECOM has used in preparation of this report have been furnished to AECOM by SIGECO. AECOM has relied on this information as furnished and is not responsible for the accuracy of this information. Our recommendations are based on available information from previous and current investigations. These recommendations may be updated as future investigations are performed.

The conclusions presented in this report are intended only for the purpose, site location, and project indicated. The recommendations presented in this report should not be used for other projects or purposes. Conclusions or recommendations made from these data by others are their responsibility. The conclusions and recommendations are based on AECOM's understanding of current plant operations, maintenance, stormwater handling, and ash handling procedures at the station, as provided by SIGECO. Changes in any of these operations or procedures may invalidate the findings in this report until AECOM has had the opportunity to review the findings and revise the report if necessary.

This development of the Annual Inspection was performed in accordance with the standard of care commonly used as state-of-practice in our profession. Specifically, our services have been performed in accordance with accepted principles and practices of the engineering profession. The conclusions presented in this report are professional opinions based on the indicated project criteria and data available at the time this report was prepared. Our services were provided in a manner consistent with the level of care and skill ordinarily exercised by other professional consultants under similar circumstances. No other representation is intended.

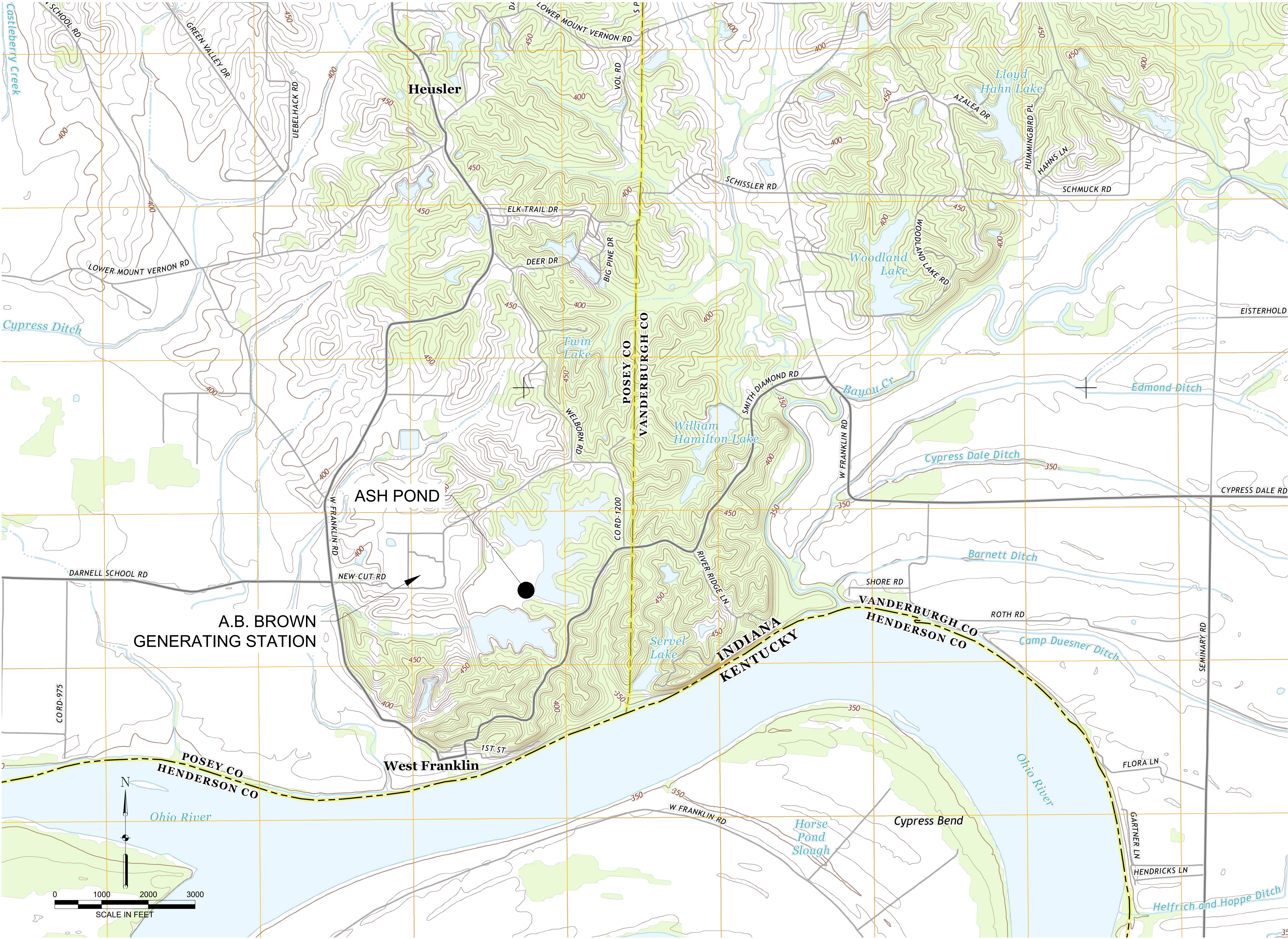
Appendix A Figures

Figure 1 – Location Map

Figure 2 – Site Map

Figure 3 – Inspection Site Plan

AECOM DRAWING PATH: L:\DCS\Projects\AECOM Corporation\60586569_CulleyEast\400_Technical\470-Reports and Documents\Pond Inspections\Culey_East & ABBrown Annual Pond Inspection_2025\ABR Pond Inspection\Figures\Figure 1 - September 2025\400.dwg, WUDSON C. 9/22/2025 4:17 PM



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A.B. BROWN
GENERATING STATION
MT. VERNON, IN

CCR ANNUAL
INSPECTION
ASH POND

ISSUED FOR
CERTIFICATION

ISSUED FOR BIDDING _____ DATE _____ BY _____

ISSUED FOR CONSTRUCTION _____ DATE _____ BY _____

REVISIONS

NO.	DESCRIPTION	DATE
△		
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AECOM PROJECT NO: 60583533

DRAWN BY: DMB

DESIGNED BY: DMB

CHECKED BY: JDM

DATE CREATED: 10/11/2025

PLOT DATE: 10/11/2025

SCALE: 1" = 1000'

ACAD VER: 2025

SHEET TITLE

LOCATION MAP

FIGURE 1

AECOM DRAWING PATH: L:\DCS\Projects\Vectren Corporation\60586569_CulleyEast\400_Technical\470-Reports and Documents\Pond Inspections\Culey East & ABBrown Annual Pond Inspection_2025\AB8 Pond Inspection\Figures\Figure 2 - September 2025\A8807D_WADSON C. 9/22/2025 4:18 PM



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MT. VERNON, IN

CCR ANNUAL
INSPECTION
ASH POND

ISSUED FOR
CERTIFICATION

ISSUED FOR BIDDING _____ DATE _____ BY _____

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REVISIONS		
NO.	DESCRIPTION	DATE
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AECOM PROJECT NO:	60583533
DRAWN BY:	DMB
DESIGNED BY:	DMB
CHECKED BY:	JDM
DATE CREATED:	10/11/2025
PLOT DATE:	10/11/2025
SCALE:	AS SHOWN
ACAD VER:	2025

SHEET TITLE

SITE MAP

FIGURE 2



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MT. VERNON, IN

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INSPECTION
ASH POND

ISSUED FOR
CERTIFICATION

ISSUED FOR BIDDING DATE BY

ISSUED FOR CONSTRUCTION DATE BY

REVISIONS

NO.	DESCRIPTION	DATE
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AECOM PROJECT NO: 60583533

DRAWN BY: DMB

DESIGNED BY: DMB

CHECKED BY: JDM

DATE CREATED: 10/11/2025

PLOT DATE: 10/11/2025

SCALE: 1" = 60'

ACAD VER: 2025

SHEET TITLE

INSPECTION SITE PLAN

FIGURE 3

13640 Briarwick Drive
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About AECOM

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