

**INITIAL HAZARD POTENTIAL CLASSIFICATION
REPORT**

MORROW CCR IMPOUNDMENT

FORMER MORROW POWER PLANT

**KALAMAZOO COUNTY, COMSTOCK TOWNSHIP,
MICHIGAN**

Prepared for:

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Prepared by:

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MAY 2026



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1.0 INTRODUCTION

Morrow Acquisition Company, LLC (MAC) is proposing to perform closure of the Morrow Coal Combustion Residuals (CCR) Impoundment (Impoundment, Site) located southeast and adjacent to the Former Morrow Power Plant (Plant) in Kalamazoo County, Comstock Township, Michigan (Figure 1). The Impoundment is a diked unit, located adjacent to Morrow Lake, and is approximately 61 acres. The Plant was owned and operated by Consumers Power for the duration of its operating history, from 1939 to 1982. The Plant utilized coal in its power generation operation from 1939 to 1969, before converting to oil and natural gas. STS Hydropower, LLC (STS) acquired the Site as part of a hydroelectric project land acquisition around 1983 and currently owns and operates the adjacent Morrow Hydroelectric Project, which is sited at the Morrow Lake Dam, located on the Kalamazoo River. The approximately 56-acre parcel of the Impoundment owned by STS was purchased by AP Jaguar, LLC in January 2026, and MAC assumed the environmental liability for the Impoundment in January 2026. Approximately five (5) acres of the Impoundment are owned by others, as seen on Figure 2.

The U.S. Environmental Protection Agency's (EPA) Code of Federal Regulations (CFR), Part 40, Section §257.100(f) regulates legacy CCR surface impoundments. Under 40 CFR §257.100(f)(2)(iii), owners and operators of a legacy CCR surface impoundment must complete an initial hazard potential classification assessment as set forth by 40 CFR §257.73(a)(2) and (f). This report presents the results of Key Environmental Inc.'s (KEY) initial hazard potential classification assessment for the Morrow CCR Impoundment in accordance with 40 CFR §257.73(a)(2) by way of 40 CFR §257.100(f)(2)(iii).

2.0 HAZARD POTENTIAL CLASSIFICATION DEFINITIONS

Section 40 CFR §257.73(a)(2)(i) states:

The owner or operator of the CCR unit must conduct initial and periodic hazard potential classification assessments of the CCR unit according to the timeframes specified in 40 CFR §257.73 (f). The owner or operator must document the hazard potential classification of each CCR unit as either a high hazard potential CCR surface impoundment, a significant hazard potential CCR surface impoundment, or a low hazard potential CCR surface impoundment. The owner or operator must also document the basis for each hazard potential classification.

The definitions of high, significant, and low hazard potential CCR surface impoundments, as defined in 40 CFR §257.53, are as follows:

- *High Hazard Potential CCR Surface Impoundment – a diked surface impoundment where failure or mis-operation will probably cause loss of human life.*

- Significant Hazard Potential CCR Surface Impoundment - a diked surface impoundment where failure or mis-operation results in no probable loss of human life, but can cause economic loss, environmental damage, disruption of lifeline facilities, or impact other concerns.
- Low Hazard Potential CCR Surface Impoundment - a diked surface impoundment where failure or mis-operation results in no probable loss of human life and low economic and/or environmental losses. Losses are principally limited to the surface impoundment owner's property.

3.0 HAZARD POTENTIAL CLASSIFICATION DETERMINATION – MORROW CCR IMPOUNDMENT

KEY reviewed available historical information regarding the Impoundment's construction and operational history and subsequently completed a site visit on November 5, 2025. The Impoundment is judged to have a **Significant** Hazard Potential Classification as defined in 40 CFR §257.53.

Failure of the northern and eastern dikes of the Impoundment could potentially release CCR into Morrow Lake, which could, in turn, be transported in the direction of the Morrow Dam Hydroelectric Project; however, any CCR release would likely be contained within Morrow Lake. Failure of the western dike could result in a CCR release into an adjacent wooded property, but the minor height of the dike (approximately 6 feet) and presence of existing drainage features (i.e., drainage ditches and channels) would prevent a release to downstream residential properties. Thus, it is judged that a **Significant** Hazard Potential designation is appropriate as potential environmental adverse impacts could occur to Morrow Lake and the adjacent wooded property, but no probable loss of life would occur in the event of a failure of the Impoundment's dikes.

4.0 CERTIFICATION

Pursuant to 40 CFR §257.73(a)(2)(i), of The Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals From Electric Utilities; Final Rule, the owner or operator of a CCR unit must conduct initial and periodic hazard potential classification assessments. The owner or operator must document the hazard potential classification of each CCR unit, as well as document the basis for each hazard potential classification. Per the Requirements of 40 CFR §257.73(a)(2)(ii), the owner or operator of the CCR unit must obtain a certification from a qualified professional engineer stating that the initial hazard potential classification and each subsequent periodic classification specified within 40 CFR §257.73(a)(2)(i) was conducted in accordance with the requirements of this section. In accordance therewith, this certification is provided to document that the initial hazard potential classification for the above-referenced CCR unit meets the requirements of 40 CFR §257.73(a)(2)(i) by way of 40 CFR §257.100(f)(2)(iii).

4.1. Limitations

The signature of Consultant's authorized representative on this document represents that, to the best of Consultant's knowledge, information, and belief in the exercise of its professional judgment, it is Consultant's professional opinion that the aforementioned information is accurate as of the date of such signature. Any opinion or decisions by Consultant are made on the basis of Consultant's experience, qualifications, and professional judgment, and are not to be construed as warranties or guarantees. Opinions relating to environmental, geologic, and geotechnical conditions or other estimates are based on available data, and actual conditions may vary from those encountered at the times and locations where data are obtained, despite the use of due care.

4.2. Consultant's Certification

I, Mark Keck, being a Registered Professional Engineer in good standing in the State of Michigan, do hereby certify that, to the best of my knowledge, information, and belief, that the initial hazard potential assessment meets the requirements of 40 CFR §257.73(a)(2) by way of 40 CFR §257.100(f)(2)(iii).

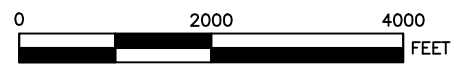
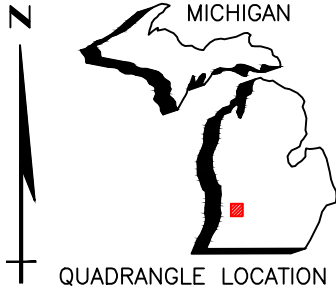
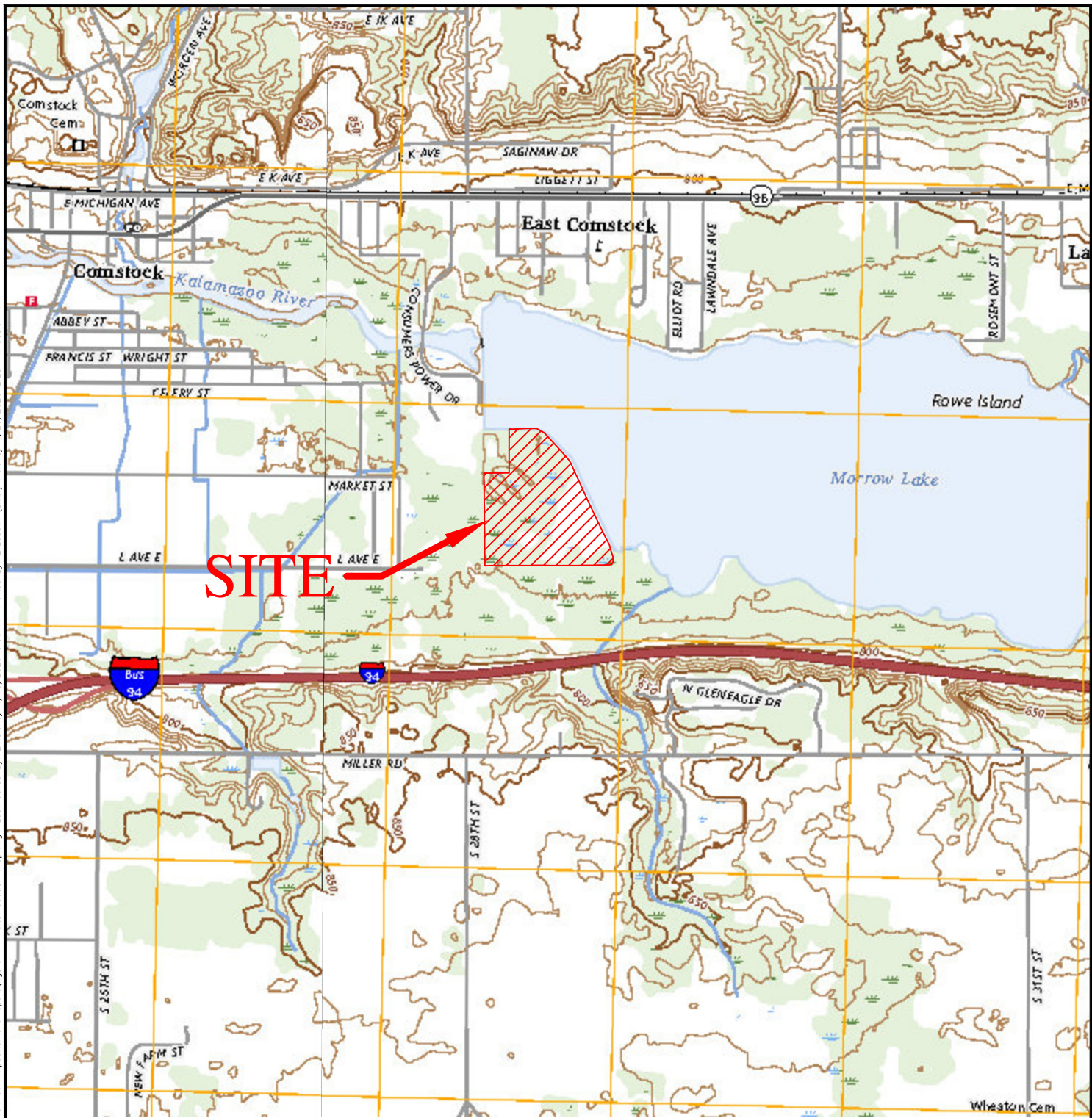


Mark Keck 5-8-26

Mark Keck, P.E.
Project Manager
Michigan Professional Engineer #6201316553

ATTACHMENTS

Y:\000civil\040morrow impoundment\production drawings\0_misc\morrow ccr impoundment report\figure 1 - site location map.dwg Last Saved By: Emaloney 4/15/2026 3:05 PM Plotted By: Elizabeth (Libb) Maloney 4/20/2026 2:28 PM Scale: 1:1



MORROW ACQUISITION COMPANY, LLC

DRWN: ERM	DATE: 04/20/26
CHKD: JDP	DATE: 04/20/26
APPD: MRK	DATE: 05/08/26
SCALE: 1" = 2000'	



MORROW CCR IMPOUNDMENT
KALAMAZOO COUNTY, COMSTOCK TOWNSHIP, MICHIGAN

REFERENCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE:
- GALESBURG AND KALAMAZOO, MI, 2023

ISSUE DATE:
05/08/26
KEY ENVIRONMENTAL, INC.
200 THIRD AVENUE
CARNEGIE, PA 15106

SITE LOCATION MAP

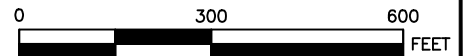
PROJECT NO: 25-098
FIGURE 1






MORROW LAKE

MURRAY STEVEN
TAX PARCEL I.D.
07-20-430-050

AP JAGUAR HOLDINGS, LLC
IMPOUNDMENT LOCATED WITHIN
TAX PARCEL I.D. 07-20-230-050
AND 07-21-180-101



LEGEND

-  EXISTING IMPOUNDMENT BOUNDARY (APPROX.)
-  EXISTING PROPERTY LINE
-  ESTIMATED OUTLINE OF NON-MAC OWNED AREA OF THE IMPOUNDMENT

MORROW ACQUISITION COMPANY, LLC

DRWN: ERM	DATE: 04/20/26
CHKD: JDP	DATE: 04/20/26
APPD: MRK	DATE: 05/08/26
SCALE:	1" = 300'



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EXISTING CONDITIONS PLAN

PROJECT NO: 25-098
FIGURE 2