

Former Mad River Ash Pond History of Construction

Ohio Edison Company
Former Mad River Power Station
Clark County, Ohio

February 2026

Prepared for:
Ohio Edison Company
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Akron, Ohio 44320

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1.0 Purpose

This History of Construction Report (Report) is for the former Mad River Ash Pond (Ash Pond) associated with the former Mad River Power Station (Station), which was near the city of Springfield, Clark County, Ohio (OH). This Report was created in accordance with the requirements of 40 Code of Federal Regulations (CFR) Part 257, Subpart D, *Criteria for Classification of Solid Waste Disposal Facilities and Practices* (CCR Rule).

2.0 Introduction

The former Station began operating in 1926 and originally consisted of four coal-fired boilers. In 1981, two boilers (Units 3 and 4) were still in operation with a combined capacity of 49 megawatts. The former Station ceased generating electricity through the combustion of coal in 1982. Two combustion turbine generators operating as peaking units were located at the site until at least 1993. Most of the former Station facilities were demolished in or around 2010.

Following shutdown of the facility, the former Ash Pond was graded and partially re-vegetated. Portions of the embankments remain in place at the former Ash Pond. The former Ash Pond is not currently used for coal combustion residuals (CCR) management, and no CCR management at the former Ash Pond is proposed to occur in the future.

3.0 History of Construction

As required by Sections 257.73(c)(1) and 257.100(f)(2)(ii), this Report includes the following items to the extent feasible:

- The name and address of the person(s) owning or operating the CCR unit; the name associated with the CCR unit; and the identification number of the CCR unit if one has been assigned by the state;
- The location of the CCR unit identified on the most recent USGS 7-½ minute or 15 minute topographic quadrangle map, or a topographic map of equivalent scale if a USGS map is not available;
- A statement of the purpose for which the CCR unit is being used;
- The name and size in acres of the watershed within which the CCR unit is located;
- A description of the physical and engineering properties of the foundation and abutment materials on which the CCR unit is constructed;
- A statement of the type, size, range, and physical and engineering properties of the materials used in constructing each zone or stage of the CCR unit; the method of site preparation and construction of each zone of the CCR unit; and the approximate dates of construction of each successive stage of construction of the CCR unit;
- At a scale that details engineering structures and appurtenances relevant to the design, construction, operation, and maintenance of the CCR unit, detailed dimensional drawings of the CCR unit, including a plan view and cross sections of the length and width of the CCR unit, showing all zones, foundation improvements, drainage provisions, spillways, diversion ditches, outlets, instrument locations, and slope protection, in addition to the normal operating pool surface elevation and the maximum pool surface elevation following peak discharge from the inflow design flood, the expected maximum depth of CCR within the CCR surface impoundment, and any identifiable natural or manmade features that could adversely affect operation of the CCR unit due to malfunction or mis-operation;
- A description of the type, purpose, and location of existing instrumentation;
- Area-capacity curves for the CCR unit;

- A description of each spillway and diversion design features and capacities and calculations used in their determination;
- The construction specifications and provisions for surveillance, maintenance, and repair of the CCR unit; and
- Any record or knowledge of structural instability of the CCR unit.

The above requirements are addressed in Sections 3.1 through 3.12 of this Report below.

3.1 Ownership Information

The former Ash Pond is located south of the former Station area and owned by Ohio Edison Company:

Ohio Edison Company
321 White Pond Drive
Akron, OH 44320
(724) 837-3000
CCR@firstenergycorp.com

The former Station and the former Ash Pond are no longer operational. Available historic records reviewed do not contain record of an identification number assigned to the former Ash Pond by the state.

3.2 Location Map

The former Ash Pond is shown on the most recent United States Geological Survey (USGS) 7.5 minute map included as Drawing 001.

3.3 Purpose of Former Ash Pond

The former Ash Pond was used for the management, storage, and disposal of CCR. Available historic records indicate that the primary waste managed by the former Ash Pond was fly ash (*Reference 2*). Presently, the former Ash Pond is not in use, and no future plans for CCR management at the site are proposed.

3.4 Watershed

The former Ash Pond is located in the Rock Run – Mad River Watershed (USGS Hydrologic Unit Code 050800011805) and has an area of 20.99 square miles (USGS National Geospatial Program Mapping).

3.5 Foundation and Abutment Materials

According to the Ohio Department of Natural Resources' Ohio Geology Interactive Map, the former Ash Pond is underlain by Silurian-aged bedrock of the Massie shale, Laurel dolomite, Osgood shale, Dayton limestone, and Brassfield limestone undivided.

According to the United States Department of Agriculture, Natural Resources Conservation Service's Web Soil Survey, the primary surficial soils at the former Ash Pond are Udorthents, loamy (Ud), and Eldean-Urban land complex, 6 to 12 percent slopes (EuC). The surficial soil at the interface between the former Ash Pond embankment and natural ground (abutment) is expected to be of these types.

GAI boring data (from an investigation conducted for GAI's 2026 Structural Assessment) shows that the material beneath and adjacent to the former Ash Pond consists of alluvial and glacial clays, silts, sands, and gravels. Boring data shows that bedrock was not encountered, and borings were terminated at approximate elevations ranging from elevation 897 to 841 feet. The limited boring data also indicates that the embankment was constructed mostly using the CCR material.

3.6 Properties and Construction Details

A historic USGS Map from 1904 indicates that the area of the former Ash Pond was a floodplain of the Mad River, likely gently sloping from the banks of the river (approximate elevation 880 feet) to an approximate elevation of 900 feet beyond the area of the former unit's eastern berm (*Reference 3*).

It is unknown when the former Ash Pond was first constructed or used for the management of CCR. Historic aerial imagery from 1960 indicates that the former Ash Pond was in use at that time. From historic aerial imagery and current topography, the former Ash Pond appears to have been created through the construction of an embankment to impound CCR. Portions of the perimeter embankment remain in place at the site. Field investigations conducted in 2024 and 2025 indicate that the embankment of the former Ash Pond was constructed of CCR.

Current topography indicates that the former Ash Pond contained a center berm that may have been used to create two separate areas for management of CCR when the former unit was operational. When it was operational, the former Ash Pond contained a sump pit at the northern end (*Reference 2*). Field observations in 2024 and 2025 note the presence of abandoned piping in this vicinity. The former Ash Pond was graded and vegetation established in 1985 (*Reference 2*).

A geophysical investigation of the site was conducted in November 2025. Subsequently, a limited boring investigation of the site was conducted in December 2025. The results of the geophysical and boring investigations indicate that the bottom of the former Ash Pond was between approximate elevations of 893 feet and 898 feet above mean sea level (corresponding to between depths of CCR between seven and 12 feet below ground surface), depending on the location within the former Ash Pond. Based on publicly available topography for the area, the embankment crest ranges from approximate elevation 904 feet to 916 feet above mean sea level, depending on the location on the embankment.

3.7 Detailed Drawings

Drawings 002 through 003 of the former Ash Pond are provided. Available historic records do not contain engineering drawings or details of the former Ash Pond. The provided drawings were developed recently through the use of existing topography, details provided by historic documentation, and a geotechnical boring investigation of the site. The provided drawings indicate the assumed extents of CCR both laterally and vertically as well as additional features (apparent berms, *etc.*) that are evident from current existing conditions.

The drawings include:

- Plan View (Drawing 002); and
- Cross Sections (Drawing 003).

3.8 Existing Instrumentation

One historic groundwater monitoring well was observed in the vicinity of the former Ash Pond on multiple field investigations. The approximate monitoring well location is indicated on the attached Drawing 002. The historic groundwater monitoring well is unusable for current readings. The historic monitoring well has been damaged over the years, is unlocked, and is significantly silted in or contain obstructions preventing the use of the well as intended.

New monitoring wells will be installed at the former Ash Pond in the first quarter of 2026 in accordance with the requirements of the CCR Rule at Sections 257.100(f)(4) and 257.91.

3.9 Area Capacity Curves

The available historic information reviewed for the former Ash Pond did not contain information on the stage-storage for the former unit as designed or in operation. The stage-storage for the former Ash Pond when in operation was estimated using current topography and the results from a geophysical

survey and geotechnical boring program conducted at the site in November and December 2025. An investigation is currently ongoing at the former Ash Pond to confirm the depth and lateral extents of CCR. See Attachment 1 for the estimated Area Capacity Curve for the former Ash Pond.

3.10 Spillway and Diversion Features

Available historic documentation does not contain information about any spillway or diversion features that may have been in place while the former Ash Pond was operational.

A portion of the northern berm that is presumed to have been removed as this area is at a lower topography allowing discharge of any surface runoff water from the former Ash Pond to discharge. The segment is approximately 64 feet in length at elevation 904 feet. There is no evidence that this segment in the berm served as a spillway when the former Ash Pond was operational.

3.11 Construction Specifications and Provisions for Surveillance, Maintenance, and Repair

Available historic information does not contain construction specifications for the former Ash Pond.

3.12 Record or Knowledge of Structural Instability

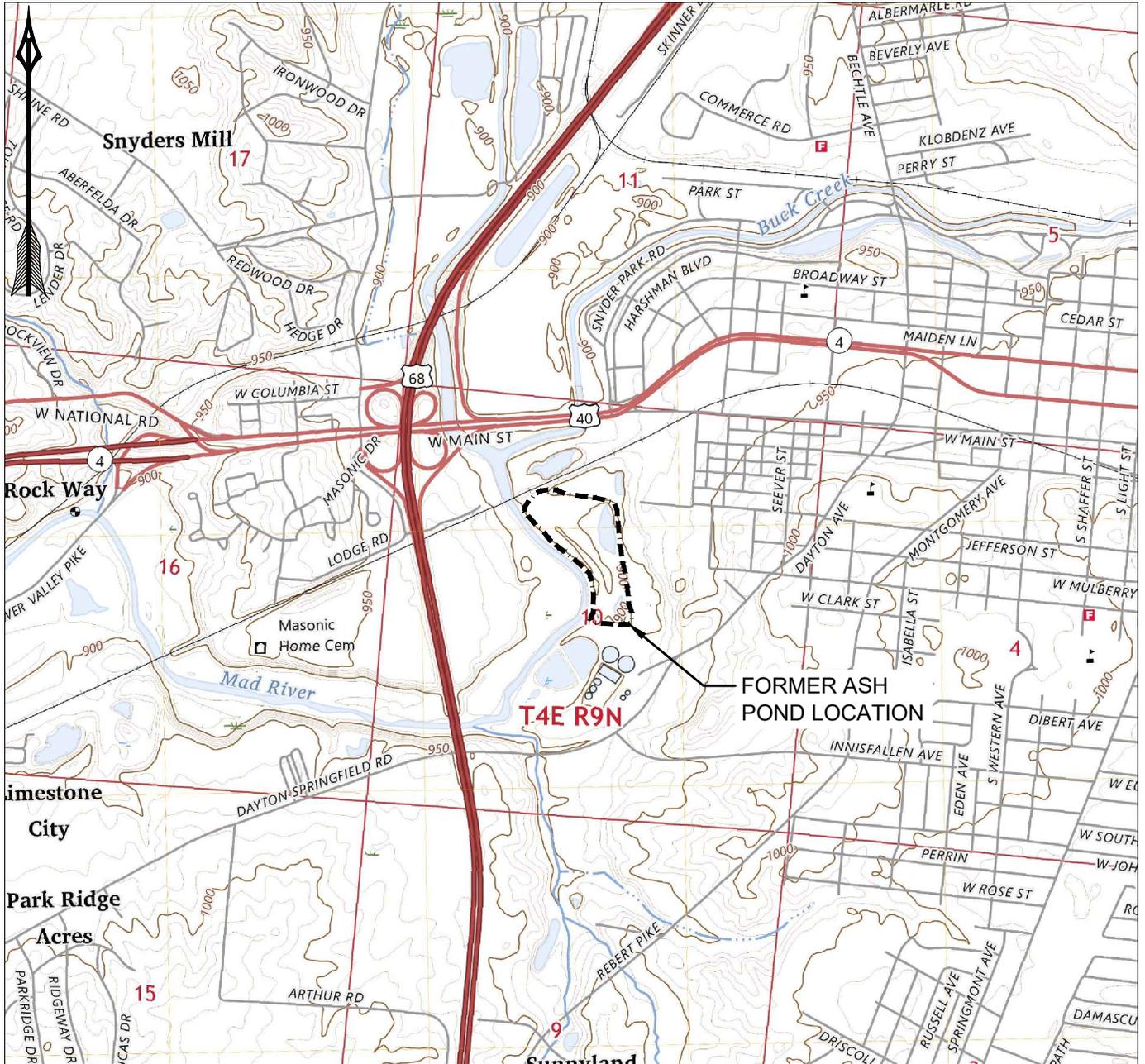
There is no record or knowledge at this time that would suggest structural instability at the former Ash Pond.

4.0 References

1. *Memorandum – Natural Gas Conversion of the Ohio Edison Mad River Plant*, April 1981.
2. Resource Management International, Inc., *Preliminary Site Assessment Ohio Edison Mad River Generating Facility Site Clark County, Ohio*, January 1993.
3. United States Geological Survey, National Geospatial Program Map Services and Data.
<https://apps.nationalmap.gov/viewer/>. Accessed December 2025.

DRAWINGS

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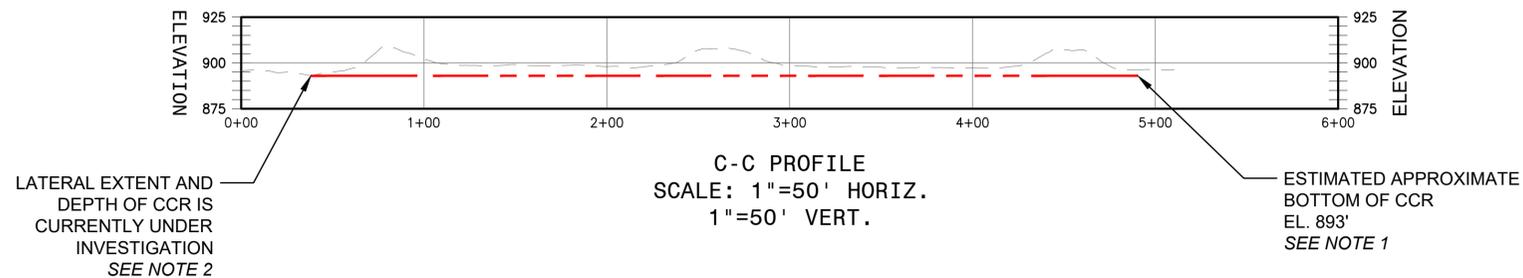
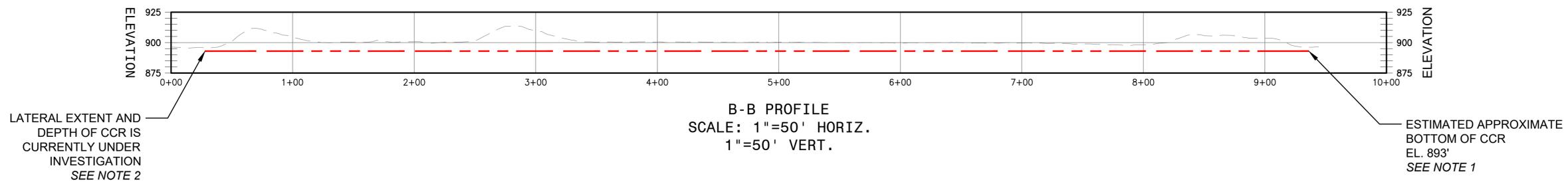
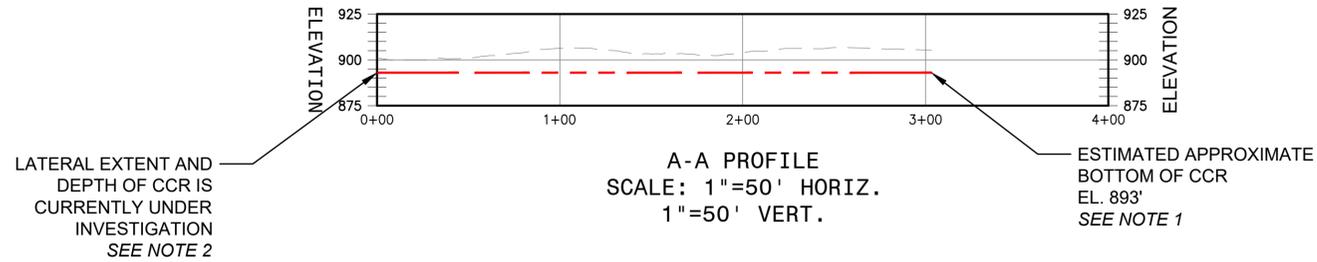
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SCALE: 1" = 2000'



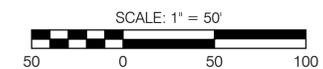
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PROJECT		GAI FILE NUMBER:		
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CLIENT		DRAWN BY:	CHECKED BY:	APPROVED BY:
OHIO EDISON COMPANY AKRON, OHIO		HULLRA	ROUNCLL	DITUAL
		SHEET NO.:	SCALE:	ISSUE DATE:
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NOTES:

1. THE BOTTOM OF CCR IS ESTIMATED AS ELEVATION 893' BASED ON FIELD OBSERVATIONS, LIMITED HISTORIC REFERENCE DOCUMENTS, AND LIMITED INFORMATION FROM A GEOTECHNICAL BORING INVESTIGATION CONDUCTED IN 2025.
2. AN INVESTIGATION IS CURRENTLY ONGOING AT THE SITE TO CONFIRM THE DEPTH OF CCR AND THE LATERAL EXTENTS OF CCR WITHIN THE FORMER ASH POND. THE INFORMATION PRESENTED HEREIN IS AN ESTIMATE AND MAY NOT REPRESENT ACTUAL CONDITIONS AT THE SITE.

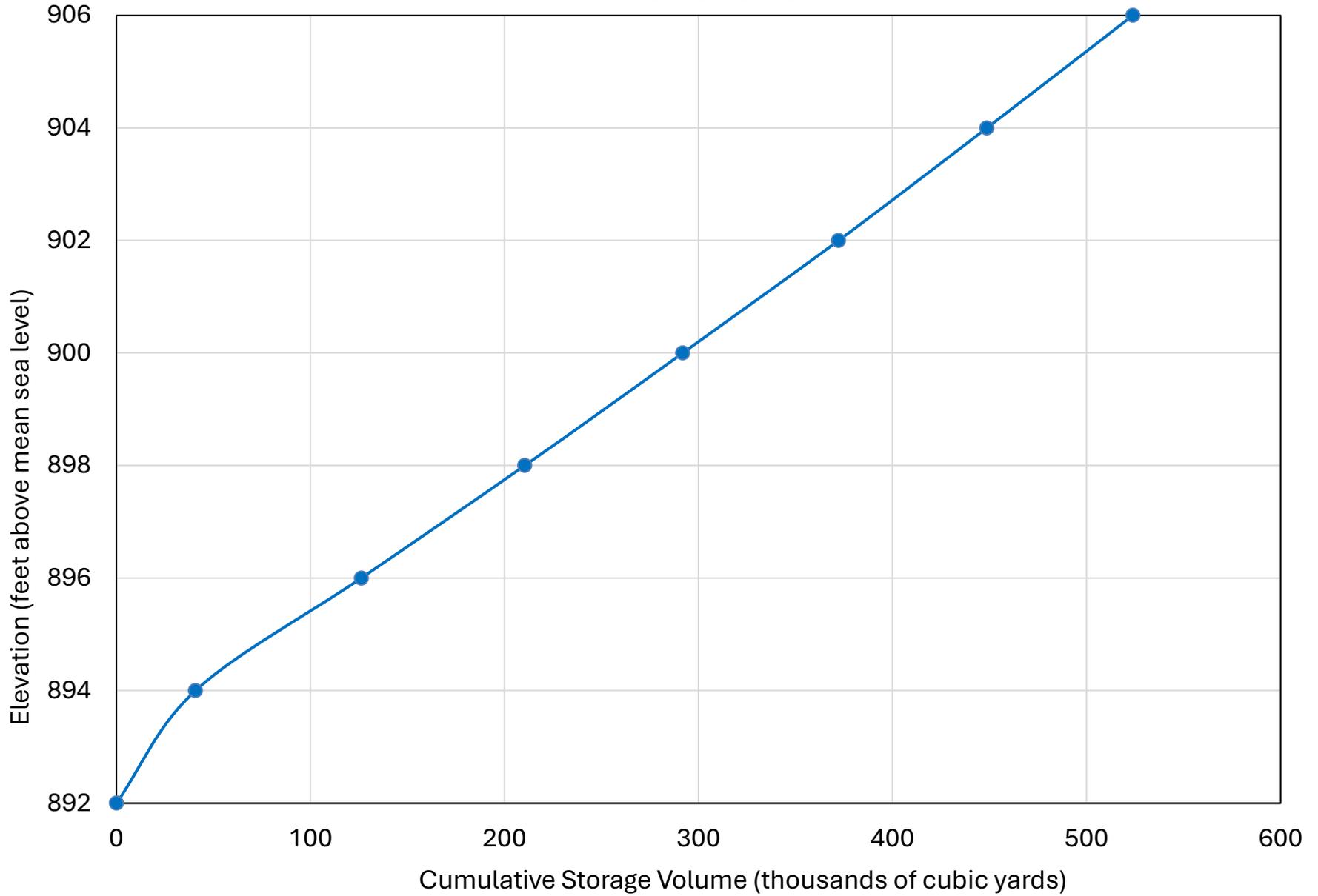


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REVISION		SHEET NO.:	003 OF 003

The drawings are prepared with computer aided drafting technology and is supported by electronic drawing files. Do not make the drawings on manual drafting methods.

ATTACHMENT 1

Stage-Storage Capacity Curve Former Ash Pond



Note: The stage-storage information shown is based on limited available information from historic references and existing topography. An investigation is currently ongoing at the former Ash Pond to confirm the depth of CCR and lateral extent of CCR.