Figure 2

**Ashokan Reservoir Connection**

**Permanent**
- Connection Chambers
- Electrical Service
- Road Crossing Sleeves (3)

**Temporary (if needed)**
- Pumps at Ashokan
- Overland Water Main
  - 12-Inch HDPE ~16,000 ft
Proposed project site on NYCDEP property - 13.4 acres total, 0.4 acres disturbed

Proposed project site on City of Kingston property - 2.7 acres total, 0.5 acres disturbed

Proposed overland pipeline route for emergency connection along shoulder of roads - 2.8 acres total, 1.1 acres disturbed
Kingston Water Department
PO Box 1537
Kingston, N.Y. 12402

In accordance with the report and of its consulting engineers, a copy of which is annexed hereto, upon motion made and seconded, it is resolved by the Board of Water Commissioners of the City of Kingston New York that the project entitled "Rehabilitation of Cooper Lake Dam" be declared a Type II Exempt Action as defined by the State Environmental Quality Review Act (SEQA) and the State Historic Preservation Act (6 NYCRR 17 et.seq.)

Motion By: 
Seconded By: 

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Dennis Croswell, President

Date: 9/11/19
SEQRA Resolution - Rehabilitation of Cooper Lake Dam

The City of Kingston Board of Water Commissioners (Kingston) is proposing the Rehabilitation of Cooper Lake Dam located in the town of Woodstock, Ulster County, NY. The Main Dam and West Dike impound Cooper Lake; the Main Dam is situated along the northeastern shoreline of the lake while the West Dike is located along the western shoreline.

The original dam was constructed in the mid to late 1800's and underwent several modifications through the early 1900's. In general, the current configuration is as constructed during the 1927 rehabilitation, which included raising of the Main Dam and construction of the West Dike. Cooper Lake serves as the primary water supply for the City of Kingston and is regulated by the New York State (NYS) Department of Environmental Conservation (DEC) as a Class C, high hazard dam.

Dam safety deficiencies exist with the current main dam configuration including inadequate spillway capacity, unsatisfactory slope stability factors of safety, apparent seepage, lack of filtered internal seepage collection systems, and an inoperable Low Level Outlet. Water supply operational deficiencies include open joints and cracks in the intake tower and lack of reliable and/or functional water supply intake controls at the intake tower or in the existing metering chamber.

In order to bring the dam into compliance with NYS Dam Safety Regulatory Requirements, modifications to the dam and appurtenant structures are required. The project will not change the storage capacity or the footprint of Copper Lake. The dam rehabilitation activities consist of:

- Raising the Main Dam embankment crest to EL 1114.0, including placement of a low-permeability dam core to extend the function of the existing concrete core wall.
- Placing earthfill on the downstream slope of the Main Dam embankment graded to 3H:1V to improve slope stability factors of safety and ease routine maintenance activities.
- Installing an internal seepage collection system including chimney and blanket drains with perforated collection pipes to collect and convey seepage through the embankment and foundation to the downstream channel.
- Removing the existing concrete spillway overflow section and chute and constructing a new concrete box drop inlet spillway, conduit, and downstream impact basin in the same footprint.
- Constructing a replacement water supply intake tower, piping, and downstream meter and valve chamber that connects to the existing water raw water transmission main upstream of the existing screen chamber.
- Installing a pre-fabricated valve house to be located on top of the new intake tower to house new electrically actuated valve operators, compressed air intake cleanout system, and all related electrical and mechanical components for the new water supply operations.
- Constructing a new dedicated low-level outlet incorporated with the new water supply tower and pipe system.
- Abandoning of the existing water supply intake pipes, tower, outlet pipes, and meter chamber, including filling existing piping with grout and tower and meter chamber with concrete. Removal of select portions of abandoned structures, including the top of the existing tower as well as the downstream valve manholes, meter chamber, and select portions of pipe.
- Leveling and raising the West Dike crest to EL 1109.0 to provide adequate freeboard during the spillway design flood event.
- Constructing additional site and operational improvements including new electrical service from NYS Route 212 to the intake tower, connecting the new water supply to the existing Kingston SCADA system, and improved site access for routine site maintenance and inspection activities.

Kingston also proposes to install a temporary emergency connection to potentially obtain up to 2,000,000 gallons per day of water from the New York City Department of Environmental Protection (DEP) during the construction of the dam.
rehabilitation project, when the stored water supply from Cooper Lake will be reduced. The emergency connection will consist of a temporary and removable intake facility within the DEP's Ashokan Reservoir from where water will be pumped to the Kingston's existing pretreatment facility located along Sawkill Road. The emergency connection is being permitted as a backup emergency supply water source available to meet Kingston rate payer obligations should a drought occur simultaneously with the dam rehabilitation construction. The emergency connection will consist of both permanent and temporary components. The permanent components consist of:

- Installing an electrical service to the northern end of the West Hurley Dike to power electric driven pumps (thus eliminating the need for fuel storage).
- Installing pipe sleeves beneath Basin Road, NYS Route 28, and Sawkill Road to allow for temporary piping to pass beneath the roadways if required. Road crossings are required to connect the Ashokan Reservoir with the existing pretreatment facility. Installation of the pipe sleeves beneath the roadway will minimize the disturbance should the emergency connection be activated.
- Installing a metering chamber at Kingston's existing Sawkill Road Pretreatment Facility for flow control.

It is anticipated that the construction of the permanent features of the emergency connection to the Ashokan Reservoir will be completed in advance of the work at Cooper Lake Dam. If Kingston elects to initiate the emergency supply, temporary water supply components will also be required that consist of:

- Installing a temporary pumping system adjacent to or within the Ashokan reservoir near the northern end of the West Hurley Dike.
- Installing temporary piping from the temporary pump station to Kingston's existing pretreatment facility primarily along West Hurley-Zena Road and through the permanent pipe sleeves beneath the road crossings.

Kingston is seeking financial assistance from public funding sources and is required to obtain all necessary permits and to comply with the State Environmental Quality Review Act (SEQRA) and State Historic Preservation Act. As described in 6 NYCRR 617.5, Type II (exempt) actions are actions which have been pre-determined not to have a significant adverse impact on the environment and are not subject to further SEQRA review. Both the dam site and the proposed temporary emergency supply connection have been reviewed by the NYS Historic Preservation Office and have received an opinion that no historic properties, including archaeological and/or historical resources will be affected by this work.

Based on our review of the proposed permanent and temporary rehabilitation components at the Cooper Lake Dam, this project is being declared a Type II action with the following Type II regulatory exemptions applying:

- 6 NYCRR 617.5(c)(2). "replacement, rehabilitation or reconstruction of a structure or facility, in kind, on the same site, including upgrading buildings to meet building or fire codes, unless such action meets or exceeds any of the thresholds in section 617.4 of this Part;"

The threshold listed in 6 NYCRR 617.4(b)(6i) states that "a project or action that involves the physical alteration of 10 acres" is a Type I action. The Rehabilitation of Cooper Lake Dam involves the physical alteration of less than 10 acres confirming that this meets the requirements for a Type II action.

The threshold listed in 6 NYCRR 617.4(b)(6ii) states that "a project or action that would use ground or surface water in excess of 2,000,000 gallons per day" is a Type I action. The Rehabilitation of Cooper Lake Dam involves the potential emergency and temporary use of up to 2 MGD (not in excess of) surface water confirming that this meets the requirements for a Type II action.

- 6 NYCRR 617.5(c)(42). "emergency actions that are immediately necessary on a limited and temporary basis for the protection or preservation of life, health, property or natural resources, provided that such actions are directly related to the emergency and are performed to cause the least change or disturbance, practicable under the circumstances, to the environment. Any decision to fund, approve or directly undertake other activities after the emergency has expired is fully subject to the review procedures of this Part;"
Amended SEQRA Resolution – Rehabilitation of Cooper Lake Dam & Related Development of a Temporary Connection to the NYCDEP Ashokan Reservoir

This Resolution amends the September 11, 2019 SEQRA Resolution of the City of Kingston Board of Water Department (Board or Kingston) which determined that the Rehabilitation of Cooper Lake Dam and the corollary proposal to install a temporary emergency connection to the NYCDEP Ashokan Reservoir for an emergency backup water supply of up to 2,000,000 gallons per day were both Type II actions exempt from review under the NY State Environmental Quality Review Act (SEQRA).

Upon further review and consideration by the Board, the Board reaffirms the Type II designation of the Rehabilitation of Cooper Lake Dam, but has determined that proposed temporary emergency connection to the NYCDEP Ashokan Reservoir for an emergency backup water supply of up to 2,000,000 gallons per day, as more fully described in the Board’s September 11, 2019 Resolution, is an “unlisted action” under SEQRA and that a coordinated SEQRA review with other involved agencies is warranted. The Board has determined that it should seek lead agency status and will circulate Part 1 of a Full Environmental Assessment Form (EAF) to the potential involved agencies.

Upon motion made and seconded, it is RESOLVED by the Board of Water Commissioners of the City of Kingston New York that it will seek lead agency status under SEQRA for its proposal to install a temporary emergency connection to potentially obtain up to 2,000,000 million gallons per day (MGD) of water from the New York City Department of Environmental Protection (DEP) during the construction of the dam rehabilitation project, when the stored water supply from Cooper Lake will be reduced and the Board’s Superintendent is directed to circulate a Full EAF to the involved agencies.

Motion By: [Signature]
Seconded By: [Signature]

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Dennis Croswell, President

Date: 11/13/19
July 31, 2019

Ms. Laura Zima  
Environmental Engineer  
CDM Smith  
11 British American Blvd  
Suite 200  
Latham, NY 12110

Re:  NYSEFC  
Kingston Water Department Emergency Connection to the Ashokan Reservoir  
Dike Rd at Basin Rd, West Hurley, NY  
19PR05053

Dear Ms. Zima:

Thank you for requesting the comments of the State Historic Preservation Office (SHPO). We have reviewed the project in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based upon this review, it is the opinion of the New York SHPO that no historic properties, including archaeological and/or historic resources, will be affected by this undertaking.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

[Signature]

R. Daniel Mackay  
Deputy State Historic Preservation Officer  
Division for Historic Preservation