

**CLIFTON PARK WATER AUTHORITY  
BOARD MEETING**

**Wednesday, May 20, 2020  
3:00 PM**

**AGENDA**

**Old Business**

- Project to Increase Capacity from SCWA
- Community Solar Proposal
- Knolltop Water Storage Tank Refurbishment

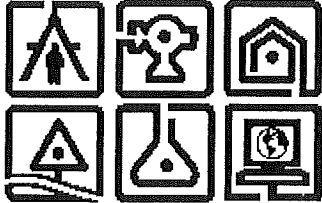
**New Business**

- General Legal Services RFP
- SCWA Purchase Agreement Renewal

**Other Business**

- Approve Minutes of March 10, 2020 Meeting

April 21, 2020



Engineer's Report  
Knolltop Tank 300,000 Gallon  
Hydropillar Rehabilitation Project

Clifton Park Water Authority  
Saratoga County, New York

*Prepared for:*

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**ENGINEERS REPORT  
CLIFTON PARK WATER AUTHORITY  
KNOLLTOP 300,000 GALLON HYDROPILLAR  
REHABILITATION PROJECT**

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**APPENDICIES**

A Site Plan and Hydropillar Submittal

B Inspection Report

## 1.0 INTRODUCTION

This Engineer's Report has been prepared for the Clifton Park Water Authority, to outline rehabilitation work for the Knolltop 300,000 gallon hydropillar located at 51 Castles Pines, Clifton Park. This report will describe the project and associated costs.

## 2.0 PROJECT DESCRIPTION

The 300,000 gallon hydropillar, built in 1995, is a 125 foot tall, 44 foot diameter welded steel hydropillar. The original site plan and submittals for the hydropillar are included in Appendix A. The tank has never been repainted. The interior is coated in Epoxy and the exterior is coated with Styrenated Acrylic. There have not been any structural repairs on the hydropillar.

An inspection of the hydropillar was performed in August 2016 by Utility Service Group and the report can be found in Appendix B. In the report, they recommend addressing both interior and exterior coatings but state that the tank is in very good structural and sanitary condition. They also recommend installing a PAX Mixer and attending to the dry riser and dry area of the bowl. The mixer has been installed as of the date of this report.

Samples of the paint from the interior roof, exterior roof and interior dry riser were taken for testing of lead. Three samples for lead were taken and the concentrations ranged from <4 mg/kg to 57 mg/kg. The results of the samples indicate that the tank did not have lead-based paint above the EPA/HUD levels of 5,000 mg/kg.

To address deteriorating coating systems for both interior and exterior of the tank, a full tank rehabilitation is proposed. The project will include an overcoat applied to exterior of the tank, the wet interior sandblasted and re-coated and the bottom of the bowl and riser pipe will be Aerolon coated. The hydropillar currently contains cellular communication equipment from four carriers. The project will include coordination with the cell carriers to work around the cell carrier equipment during overcoating of the exterior of the tank. The equipment does not need to be removed to perform the overcoat according to all four cell carriers.

**3.0 ESTIMATE OF PROBABLE CONSTRUCTION COST**

A budget level estimate of probable cost was developed for the project and is included in Table 1 below.

*Table 1 -Opinion of Probable Cost*

<b>Description</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Cost</b>
General Conditions	1	LS	\$ 75,000	\$ 75,000
Overcoat Exterior of Tank	18,700	SF	\$ 13	\$ 243,100
Sandblast, Re-Coat Wet Interior of Tank	10,300	SF	\$ 22	\$ 226,600
Aerolon Coating, Bottom of Bowl and Riser Pipe	700	SF	\$ 35	\$ 24,500
Miscellaneous Repairs and Work Around Cell Equipment	1	LS	\$ 20,000	\$ 20,000
<b>Subtotal</b>				<b>\$ 494,200</b>
<b>Contingency (15%)</b>				<b>\$ 74,130</b>
<b>SUBTOTAL CONSTRUCTION</b>				<b>\$ 568,330</b>
<b>ENGINEERING, CONSTRUCTION PHASE SERVICES</b>				<b>\$ 67,430</b>
<b>TOTAL PROJECT COSTS</b>				<b>\$ 635,760</b>

The total estimated project cost is \$636,000.