

Delia Kaye

From: Patterson, Alexander <apatterson@eaest.com>
Sent: Monday, September 9, 2024 2:08 PM
To: Delia Kaye
Cc: Albert Comins; Samiksha Poudel; Hunt, Amy
Subject: Elevations

Hi Delia,

After reviewing the survey of the dam performed by SGC earlier this year which confirmed the spillway elevation at 118.8 ft NAVD88, we agree that there appears to be a discrepancy in the water surface elevation of about 116.5 and the contours generated by ESS for the dredge feasibility study that the dredge design is based on. Our scope of work for the original dredge design/permitting contract didn't include any formal efforts to confirm the bathymetry survey generated by ESS. This would have ideally been completed, but were under the impression that the Town had limited budget for the project, and we wanted to try to provide the best value possible, so we therefore made the assumption that the previous data was sufficient to continue the design. In any event, because the contours were based on depth of water, the relative dredge depths and volumes reflected in the design drawings that were permitted and went out to bid were substantially correct, and the bid that the Town received was reflective of the project that the Town intended to complete. In other words, if a discrepancy in the water surface elevation shown on the drawings existed, the volumes are still mostly accurate and this would not likely have impacted the bid(s) that the Town received for the project. If the construction contract had been awarded in 2022, the contractor would have completed a hydrographic survey of the pond as required in the bid and likely have determined any discrepancy in the contours. This would have required a revision to the drawings to shift the elevations so that the correct dredge depths were achieved.

If the Town wishes to move forward with a dredging approach at Warner's Pond, we would recommend in light of questions concerning the accuracy of existing data that a PLS perform a bathymetric survey of the pond and a revised dredge design based on that survey be completed. The cost for the bathymetric survey would either have been borne by the Town during the design stage or by the dredging contractor if/when the 2022 construction bid had been awarded. Because the additional cost of re-designing the dredge project was not anticipated, we are offering to generate a new in-water proposed conditions surface for a future dredge project at no cost, following a bathymetric survey performed by a PLS funded by the Town.

Note that this issue has no bearing on the current dam removal design, as this design is based on a survey of the dam performed by a PLS in 2024.

Feel free to reach out with any questions.

Best,
Alex

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