



June 8, 2021

Kenneth S. Snyder, President
Lake Hauto Club
140 Maple Terrace
Nesquehoning, PA 18240-2128

Re: DEP File No. D13-001
Lake Hauto Dam
Borough of Nesquehoning, Carbon County

Dear Mr. Snyder:

The 2020 Annual Inspection Report for Lake Hauto Dam was submitted by WJP Engineers on January 06, 2021. We thank Lake Hauto Club (Club) for its cooperation with the Department of Environmental Protection, Division of Dam Safety (Department) and for conducting the 2020 Annual Inspection. The Department would like to inform you that future submissions to the Department should be submitted electronically through OnBase whenever possible as we work towards a more efficient future.

We have reviewed the inspection report and concur with the recommendations explained in it. The Club should review these recommendations with its engineer and implement any necessary maintenance and repairs. Please be advised that repairs, other than minor maintenance, will likely require written approval from the Department prior to performing any work. Minor maintenance includes activities such as vegetation and debris removal, filling of animal burrows, and patching or sealing of small areas. *The results of any repair or maintenance work should be documented by the Club's engineer in the 2021 Annual Inspection Report.*

Heavy vegetation growth continues to be an ongoing issue at this dam. Both, the Department's engineering report and the Annual Inspection Report have noted that the vegetation on this has not been well maintained. This issue has been an ongoing problem and needs aggressive attention during 2021. The vegetation on the crest, upstream face and downstream face to the right of the railroad tracks, and downstream toe is heavily overgrown with thick tall vegetation. Keeping the vegetation cut will help facilitate a close inspection of the dam and detection of potential problems before they become serious problems and costly to repair.

It is noted on page 9 of the Annual Inspection Report Checklist that the Emergency Action Plan (EAP) for this dam was updated on December 17, 2019 but the EAP was last acknowledged by the Department and the Pennsylvania Emergency Management Agency (PEMA) in 2011. Per the Department's regulations, the EAP is required to be updated every five years. Because of possible changes in personnel at the various emergency response agencies involved with implementing the EAP, and the possibility of new development in the downstream inundation area should the dam suddenly fail, **the Department requests that the EAP be reviewed and revised in 2021.** Please follow these directions:

- Request your engineer conduct a field review of the downstream inundation area for any new dwellings, businesses, schools, shopping malls, or roads that might have been constructed since the EAP was last acknowledged. The field review can be initially conducted utilizing online aerial imagery and then verified during the annual inspection. Your engineer should revise the inundation map utilizing color aerial imagery (scale 1" = 1000' or larger) and note any changes as observed. **Any significant changes to the downstream inundation area should be advised to the Department so a determination can be made if revisions to the dam breach analysis are necessary. The Department will also evaluate whether the changes to the inundation area affect the Spillway Design Flood.**
- Please contact the Carbon County Emergency Management Coordinator (EMC) for any changes in the names for the various emergency response agencies, or the need for additional emergency response agencies. Section IV would need to be revised accordingly.
- Review and revise the information on the cover page, especially the dam operator's name, address and telephone numbers. Attachment D – *Telephone Roster*, may also require updating.
- Upon revising the EAP, contact the County EMC, for the affected counties, to schedule a meeting to review Section IV, and Attachment A – *Inundation Map* and Attachment B – *Traffic Control Points*. The County EMC should indicate their review by signing the "Promulgation and Concurrence" page.
- After receiving the County EMC's concurrence, please obtain new signatures for the dam owner and dam operator acknowledging their responsibilities outlined in the EAP.
- After completing the above, please upload the revised EAP into the Comprehensive Emergency Management Planner (CEMPlanner) online planning tool by Previsstar for the Department's and PEMA's reviews. After completion of our reviews, you will be advised of any necessary revisions prior to finalization and distribution of the EAP. **You or your engineer are required to attend a CEMPlanner workshop prior to uploading your revised EAP. A letter is issued every year listing the dates and locations of available workshops.**
- If the EAP's inundation boundary and other critical map elements (Traffic Control Points, impacted structures, etc.) were developed utilizing computer aided design (CAD) or geographic system (GIS) software, please upload these layers and all files relating to them.

If you have any questions concerning revisions to the EAP, you may contact Tom Bold of our office at 717.772.5950.

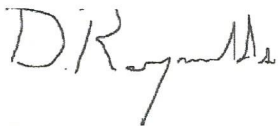
It is the Department's policy that a close inspection of the entire outlet conduit drawdown system be conducted every 10 years. The last inspection at this dam was completed in 2003. In consideration of the frequent occurrence of problems encountered with outlet systems for other older dams in Pennsylvania, we request that you direct your engineer to conduct a detailed inspection of the dam's outlet/drawdown system. This inspection should include the conduit,

appurtenant gates or valves, and structures. A detailed report of this inspection, including color photos and videos should be submitted to this office for review. The Department prefers electronic submission of this report using the Department's OnBase DEP Upload Form through the Department of Environmental Protection web site. Electronic submissions ensure all Department staff involved in review to have access to the required information needed for a thorough assessment of the dam. OnBase may be accessed through <https://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx> & clicking on '**OnBase DEP Upload Form**'. A link to the OnBase User Guide is also included within the online form.

The Department regulations at 25 Pa. Code, Section 105.13b require high hazard dam owners to provide Proof of Financial Responsibility (PFR) in the form of a bond or other legal device in a form acceptable to the Department. The PFR amount determined by the Department for Lake Hauto Dam is \$160,000. Another option to obtaining a bond or other legal device is enrollment in the Commonwealth sponsored program known as the Private Dam Financial Assurance Program (PDFAP). More information about the PDFAP can be found at <https://dced.pa.gov/programs/private-dam-financial-assurance-program-pdfap/>. The PFR requirement must be met to maintain compliance for Lake Hauto Dam.

The Department appreciates both this opportunity to review the operation of Lake Hauto Dam and the cooperation extended by the Club. If the Club or its engineer has any questions or comments, please do not hesitate to contact our office via email at dgreynolds@pa.gov or by telephone at 717.772.5957.

Sincerely,



Desmond Reynolds, P.E.
Chief
Eastern Section
Division of Dam Safety

cc: Richard N. Yutko, P.E., WJP Engineers
Steve Daderko, Lake Hauto Club