

15 December 2022

Mr. David M. Griffin, P.E.
Program Manager
Safe Dams Program
Georgia Department of Natural Resources
2 Martin Luther King, Jr. Drive
Atlanta, Georgia 30334

**Subject: Status Update - Petit Lake Dam (Permit #112-009-00462)
Pickens County**

Dear Mr. Griffin:

On behalf of Big Canoe Property Owners Association (POA), Geosyntec Consultants, Inc. (Geosyntec) is providing this letter as a follow-up to the correspondence received from Georgia Safe Dams Program (GSDP) with the subject *Petit Lake Dam*, dated 07 November 2022 and regarding the proposed drain modification at Lake Petit Dam (Dam). The proposed drain modifications do not include modification to the Low-Level Outlet (LLO) or the LLO conduit, which has been recently observed to be in fair condition. As detailed in our previous letter of 18 November 2022, we continue to be on track with the proposed schedule for the LLO testing.

Representatives from the POA, Geosyntec, and GSDP conducted a teleconference on 14 December 2022 to discuss the schedule of the proposed drain modifications. In attendance were Scott Auer (POA), Kate Betsill (GSDP), David Griffin (GSDP), Jamey Dotson (Geosyntec), Conrad Ginther (Geosyntec), and Wes MacDonald (Geosyntec). During this call the team discussed the following:

- Proposed drain modifications are being evaluated to address Maintenance Issue 1 from the GSDP letter dated 20 May 2021. The focus of the proposed drain modifications will be the black corrugated pipes that comprise the interceptor drains, and possibly some other drains near the toe of the dam. The proposed drain modifications are expected to require intrusive work on the dam which requires plans to be submitted to GSDP for an updated permit.
- In early January 2023 the POA plans to perform field inspections of the existing drains, using a specialty subcontractor, to understand existing conditions and locations of the features. Following this, work will begin on design of any modifications necessary to the pipes and drains.
- In addition to this design, the POA will also be updating and resubmitting the stability analyses of the dam. Analysis will include rapid draw (upstream), steady state seepage, and steady state seepage with seismic loading. Existing soils data and updated piezometric, survey, and seismic data will be used for the analysis.
- The proposed drain modifications design report, along with construction drawings and specifications, and stability analysis are preferred to be submitted as one package. Should the

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proposed modifications affect the Operations and Maintenance (O&M) Plan, that will be revised and be included as well.

The proposed drain modifications design report and stability analysis are anticipated to be complete and submitted to GSDP by 28 April 2023. The completion date associated with these deliverables are subject to the outcome and findings of January 2023 field inspections. We will keep the GSDP updated with any changes of this schedule, should they occur.

If you have any further questions, feel free to contact us at 423.385.2310.

Sincerely,



Jamey Dotson, P.E. (GA, AL, NC, TN)
Senior Principal Engineer and Engineer of Record
Geosyntec Consultants, Inc.

cc: Big Canoe Property Owners Association
Wesley MacDonald, P.E., Geosyntec Consultants