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April 28, 2023

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:

Owner Quarterly Inspection Reports 2022/2023 (Quarters 2, 3, and 4 of 2022 and

Quarter 1 of 2023)

Lake Petit Dam (ID Number (No.) 112-009-00462), Pickens County

Dear Mr. Griffin:

On behalf of the Big Canoe Property Owner's Association (POA), Geosyntec is submitting, under cover of this letter, the quarterly owner inspection forms for inspections conducted at Lake Petit Dam for the 2022/2023 reporting year. Quarterly inspections were conducted at Lake Petit Dam [National Inventory of Dams (NID) No. GA00685] by representatives from Geosyntec on behalf of the owner on the following dates:

- 2022 Quarter 2 (Q2) inspection dated 06 June 2022;
- 2022 Quarter 3 (Q3) inspection dated 28 September 2022;
- 2022 Quarter 4 (Q4) inspection dated 20 December 2022; and
- 2023 Quarter 1 (Q1) inspection dated 29 March 2023.

Please contact the undersigned if you have any questions regarding this matter.

Sincerely,

Wesley MacDonald, P.E. (GA, AL, KY, TN, and WA)

Senior Engineer

Jamey Dotson, P.E. (GA, AL, NC, and TN)

Senior Principal Engineer

Attachment A

2022/2023 Reporting Year Quarterly Inspections

Copies to:

Mr. Scott Auer, Big Canoe POA

ATTACHMENT A 2022/2023 Reporting Year Quarterly Inspections

Embankment (Earth) Dam Inspection Form

Name of Dam: <u>Lake Petit Dam</u>	Date: 06 June 2022	
Location of Dam (County): Pickens County	Weather: Sunny, 82 degrees F	
Inspected by (Print Name): Edisson O. Avila, E.I.		
If an inspection item requires further action on your part, place a check mark to the le	ft of the number of the item	
A. Crest (refer to Glossary for description)		
1. How would you describe the vegetation on the crest? (Check all that apply) Recently Mowed X Overgrown Good Cover	X Sparse	
Other/Corrective Action (describe): The crest of the dam is an aspha		
	in paved toad (wilderness raikway). Vegetation	
 along the shoulders of the road was observed to be well-maintained. 2. Are there any trees or other inappropriate or excessive vegetation on the crest? 	7 Vec No X	
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action:		
if yes, describe (type of vegetation, size, location, etc.)/Corrective Action.	N/A	
3. Is there a paved road or driveway on the crest? Yes_X_ No		
If yes, describe the condition (for example, good condition, numerous crac	cks, newly paved)/Corrective Action: Good	
condition. Paved in 2012. Several transverse and longitudinal pavement of	cracks were observed on the crest. No changes	
were observed on the paved road or cracks on the crest relative to previous	s inspections.	
4. Are there any depressions, ruts or holes on the crest? Yes	lo_X	
If yes, describe (size, location, etc)/Corrective Action:N/A		
5. Are there any cracks on the crest? Yes X No No		
If yes, describe (length and width, location, direction of cracking, etc.)/Co		
longitudinal pavement cracks associated with normal pavement wear were	observed. These cracks are not associated with	
embankment deformations. No changes were observed on the cracks relati		
6. Other observations on the crest/Corrective Action: Maintenance repairs to	the shoreline protection on the upstream	
shoreline were completed by April 2022.		
B. <u>Upstream Slope</u> (refer to Glossary for description)		
1. What is the reservoir level today? At Normal Pool _1,335.5_Feet Above ?		
2. How would you describe the vegetation on the upstream slope? (Check all the		
Recently Mowed X Overgrown Good Cover 2		
Other/Corrective Action (describe): This area is well-seeded and ma		
slope was mowed concurrently with the Quarterly Inspection. Repairs to the shoreline protection were completed by April		
2022. Straw matting was installed in disturbed areas due to construction activities, as well as reseeding using Big Canoe		
POA approved seed mix. The aforementioned areas are located up-slope of	of the newly placed rip rap, and along the left and	
right sides of the upstream slope near the respective rims.	No. V	
3. Are there any trees or other inappropriate or excessive vegetation on the slope		
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action:	N/A	
4. Are there any depressions, bulges, ruts or holes (such as animal burrows) on t	the slope? Yes No_X	
If yes, describe (size, location, etc.)/Corrective Action: N/A		
5. Are there any eroded areas on the slope (such as wave erosion along the shore		
If yes, describe (size of area, location, severity, etc.)/Corrective Action:		
related to construction activities for the shoreline protection are discussed	in Section B.2.	

Name of Dam: Lake Petit Dam Date: 06 June 2022
B. Upstream Slope (continued)
\square 6. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes No_ \underline{X}
lf yes, describe (length, width, height, location, etc.)/Corrective Action: N/A
7. Is there any type of slope protection along the shoreline (such as rip rap)? Yes X No
If yes, describe what type and its condition (for example, rip rap - adequate, inadequate, sparse)/Corrective Action:
Shoreline protection completed by April 2022. The shoreline protection consists of a layer of rip rap 5 feet above and 3
feet below the normal reservoir level.
8. Other observations on the upstream slope/Corrective Action: No other observations.
C. <u>Downstream Slope</u> (refer to Glossary for description)
1. How would you describe the vegetation on the downstream slope? (Check all that apply)
Recently Mowed X Overgrown Good Cover X Sparse
Other/Corrective Action (describe): Grass observed to provide generally good cover. Vegetation on the downstream slope
was moved concurrently with the Quarterly Inspection. Continue to mow at a rate prescribed in the O&M Plan to prevent
establishment of unwanted vegetation and animal burrows. Sparse vegetation observed at: (i) Bench No.5 to crest, left side
top of Bench No. 4, left side); and Bench No. 4 to 5, right side. Topsoil should be added to these areas and reseeded in
accordance with the O&M Plan.
2. Are there any trees or other inappropriate or excessive vegetation on the slope? Yes_X No
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: Overgrown vegetation observed at: (i)
Bench No. 3 to 4, near left groin; and (ii) Bench No. 2 to 3, left and right groin. Overgrown vegetation should be remove
in accordance with the O&M Plan.
3. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope? Yes_X No
If yes, describe (size, location, etc.)/Corrective Action: Several minor animal burrows/digging locations, and ant his
were observed on the downstream face. Continued normal maintenance and filling of holes/burrows is required.
4. Are there any eroded areas on the slope (such as along abutment contacts)? Yes_X_ No
If yes, describe (size of area, location, severity, etc.)/Corrective Action: Surficial erosion (i.e., granular material a
the surface of the downstream face) was observed at Bench No. 4 to 5, right side. Small rills were observed on Bench
No.4, right side (approximately 50 ft from the right groin); and Bench No. 4 to 5, near left groin (approximately 15 ft, 1
wide, and varying in depth). Areas with surficial erosion need to have erosion control measures installed (i.e., hay matti
and reseeding) to establish vegetation. Areas with small rills need to be backfilled with material similar to the shell material
of the Dam.
5. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? YesNoX
If yes, describe (length, width, height, location, etc.)/Corrective Action: N/A

Name of Dam: <u>Lake Petit Dam</u>	Date: 06 June 2022
C. Downstream Slope (continued)	
6. Are there any wet areas or areas of hydrophilic (lush, water-loving) vegetation?	YesX No
If yes, describe (size of area, location, etc.)/Corrective Action: No changes obse	erved to the reverse filter installed at the
seepage area between Bench No. 1 and 1, left side.	
Portions of the top of the Bench No. 1 and 2 were dry during this inspection. The	he concrete gutters on these benches have
areas of deteriorated concrete and open joints that likely contribute to the localization	zed wet areas on these benches during rainy
periods. Designs for drainage improvements on these benches are underway. Or	the other benches the earthen swales that
convey surface drainage to either abutment had some areas of ponded water at the	he time of inspection. While this is not an
immediate dam safety issue, the swales are very flat and slow draining and wou	ld benefit from periodic regrading to ensure
positive drainage is maintained.	
On the left abutment near the embankment toe a persistent wet area has been no	ted. The area collects most of the surface
runoff from the left side of the embankment and doesn't drain well to an inlet fu	urther left along Wolfscratch Rd. Regrading
the area to facilitate drainage to the inlet would improve conditions.	
7. Do any wet areas indicate seepage through the dam (such as rust-colored, stained w	vater)? Yes No_X_ N/A
If yes, describe (for example, new area of seepage, no change from past observa	ations, size of area, location) /Corrective
Action: See discussion of seepage repair in item C.6.	
8. Are there any leaks (flowing water) from the slope or beyond the toe of the dam?	YesX No
If yes, describe (location, rate of flow, turbidity of flow)/Corrective Action:S	
to issue from the interceptor drains along Bench No. 1, with the exception of rig	
interceptor drains (paired drains) which were covered by the seepage repair. Co	ntinue to monitor the drains and weirs for
changes in flow amount and turbidity.	E2
9. Other observations on the downstream slope/Corrective Action: The weirs on the le	
weirs were flowing slightly and were generally clean. The left weir has a tendency	
(sediment) and requires cleaning out regularly. The source of the vegetation/debris	is from surficial erosion from the left
abutment upslope of the weir.	
D. Plunge Pool (refer to Glossary for description)	
1. Is there any type of erosion protection around the plunge pool (such as rip rap)?	Yes No_X
If yes, describe what type and its condition (for example, rip rap - adequate, ina	
/Corrective Action: There is no plunge pool. Downstream from the impact-	-type stilling basin there is not rip rap.
however, based on current operations it does not appear to be needed.	
•	No_ <u>X</u>
If yes, describe (size of area, location, severity, etc.) /Corrective Action:	
3. Other observations around the plunge pool/Corrective Action: The area of the	
growth and should be routinely cleaned to assist in the inspection of the stilling	basin.
E. <u>Principal and Emergency Spillwavs</u> (refer to Glossary for description)	
1. What types of spillways does the dam have (such as corrugated metal, concrete or	
Principal Spillway Gunite, Stepped Spillway Emergency Spillway None, oth	ner than a low-level outlet pipe.
Other/Corrective Action: Auxiliary, siphon system to control draw downs.	

↑ Check if corrective action is noted/required.

Name of Dam: Lake Petit Dam Date: 06 June 2022
E. Principal and Emergency Spillways (continued)
2. Has the emergency spillway activated (had flow) since the last inspection? YesNoX
If yes describe (date(s) of flow, reason for activation, depth of flow) /Corrective Action: A dive inspection of the
sluice gate structure which serves as the intake for the low-level outlet was completed in September 2020. A camera
inspection of the low-level outlet conduit was completed in December 2020. Both inspections indicated that the inlet
structure and pipe are in generally fair to good condition.
3. For pipe spillways, is the intake obstructed in any way (such as with excessive debris)? Yes No_X
If yes, describe (type of debris, reason for obstruction, etc.) /Corrective Action: The intake for the low-level outlet
is not visible from the surface, but was inspected by a dive team in September 2020. The sluice gate structure was noted to
not have been obstructed by sediment or debris following cleaning by divers during that inspection.
4. For pipe spillways, what is the condition of any trash racks (for example, adequate, inadequate, damaged)? /Corrective Action:
The intake for the low-level outlet is not visible from the surface but was inspected by a dive team in September 2020. The
sluice gate structure was noted to have an intact trash rack by the divers.
\square 5. For pipe spillways, are there any visible cracks, separations or holes in the pipe(s) (intake or outlet)? Yes No \underline{X}
If yes, describe (location, width of crack or separation, etc.)/Corrective Action: Recent dive inspections of the
pipe's inlet did not identify any cracks, separations, or holes. The recent camera inspection rated the pipe in fair to good
condition.
\square 6. For pipe spillways, are there any apparent leaks in the pipe(s)? Yes No \underline{X}
If yes, describe (location, rate of flow from leak, etc.)/Corrective Action: A camera inspection of the low-level outlet
pipe was completed in December 2020. The inspection identified a few pipe joints with calcite formations, indicating minor
seepage, but otherwise did not identify any apparent leaks or issues with the conduit's overall condition.
7. For pipe spillways, how would you describe the overall condition of the pipe(s)? (Check all that apply)
Functioning Normally X Not Functional Deteriorated Damaged Adequate Inadequate
\square 8. For concrete or earth channel spillways, is the entrance or channel obstructed in any way? Yes $\underline{\hspace{1cm}}$ No $\underline{\hspace{1cm}}$ No $\underline{\hspace{1cm}}$
If yes, describe (type of obstruction, location, etc.)/Corrective Action: Some accumulation of leaves and pine needles were
observed along the spillway crest, but these did not appear to impact the function of the spillway as it was observed to be
functioning normally.
9. For earth channel spillways, how would you describe the vegetation in the spillway? (Check all that apply)
Recently Mowed Overgrown Good Cover Sparse
Other (describe)/Corrective Action: N/A
☐ 10. For earth channel spillways, are there any trees or other inappropriate vegetation in the spillway? Yes No
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: N/A
11. For earth channel spillways, are there any eroded areas in the spillway? Yes No
If yes, describe (size of area, location, severity, etc.)/Corrective Action: N/A

Name of Dam: Lake Petit Dam Date: 06 June 2022
E. Principal and Emergency Spillways (continued)
\boxtimes 12. For concrete channel spillways, are there any cracks or holes in the spillway? Yes \underline{X} No $\underline{\hspace{1cm}}$
If yes, describe (width of crack or hole, location, etc.)/Corrective Action: The spillway was fully operational and the
spillway repairs conducted in April 2022 were observed to be intact and withstanding the flows within the spillway.
Continue to monitor the status of the repairs. The spillway repairs addressed deficiencies that were required for the
acceptable performance of the spillway. Throughout the spillway, there are still minor cracks observable, however, these
smaller cracks and holes were classified as deficiencies that do not hinder the performance of the spillway. These minor
cracks should continuously be monitored for changes.
13. For concrete channel spillways, are there any leaks or evidence of undermining (flow under the concrete)? Yes X No_
If yes, describe (location, rate of flow from leak, indicators of undermining, etc.)/Corrective Action: See notes for Item
E.12. Continue to monitor the status of the spillway repairs conducted in April 2022.
14. For earth or concrete channel spillways, how would you describe the overall condition of the spillway? (Check all that apply
Functioning Normally X Not Functional Deteriorated Damaged Adequate Inadequate
15. Other observations on the spillways/Corrective Action: An 8 in. bypass siphon line was used to control reservoir levels and
dewater the spillway for the repairs conducted in April 2022. The bypass siphon line is recharged via a valve in a manhole at
the left side of the spillway, near Wilderness Parkway.
For the spillway repairs conducted in April 2022, the left side of Bay 45 was repaired by excavating loose soils and debris
behind the walls of the spillway. The areas were then backfilled against and under the walls with granular soils, and grouted
with polyurethane resin to prevent the areas from eroding. As of this inspection, the repaired areas were stable with no visible
signs of erosion, however, water flow was observed to daylight over the recently repaired areas. The source of the water flow
is currently being investigated.
F. <u>Instrumentation</u> (refer to Glossary for description)
\searrow 1. Are there any toe drains at the downstream toe or any other seepage drains on the dam? Yes X No X
If yes, describe the condition (for example, clogged, free flowing, deteriorated, good condition) /Corrective Action: The
drain at the toe of the dam had flow into it and the interceptor drains along Bench No. I were identified (with the exception
of the interceptor drains noted in Item E.8). All observable interceptor drains had minimal clear flow. The final drain at
the left abutment contact is now buried in the two-stage filter installed between Bench 1 and 2. A piece of rebar was
inserted into this drain prior to construction of the filter to facilitate locating the drain in the future.
The underdrain system of the dam outlets is the impact stilling basin, which the basin was full of oxidized bacteria growth
and should be routinely cleaned up assist in the inspection of the impact stilling basin. There are two drainpipes right of
the impact stilling basin that appeared to be flowing, while the pipe to the left was dry.
2. For drains, is an animal guard installed at the outlet of each drain? Yes No_X
If no, which drains lack animal guards? /Corrective Action: Animal guards are not installed on interceptor drainpipes:
however, they do not appear necessary on the interceptor surface drains or underdrain outlet pipes due to continuous flow
and relatively small diameter.

Name of Dam: Lake Petit Dam		Date: 06 June 2022		
	nentation (Continued) Irains, measure the rate of flow from	each drain and record helo	w (use additional pages if no	ecessary);
☐ 3. For d	Designation/Location of Drain	Flow Rate	Flow Rate in GPM*	Turbidity of Flow (describe – clear, muddy, etc.)
I	nterceptor Drains on Bench No. 1	Very low	<1 GPM	clear
	Underdrain Outlets	½" height of flow over the weir of the impact- style outlet structure		
5. For p 6. For p 7. Are t	piezometers, does each piezometer half no, which piezometers need caps of Action: Individual piezometers bolted lids to prevent tampering. Diezometers, are you able to take a market figure, record depth to water (in feet there any other monitoring devices of the secribe what type and the could be a controlled to the secribe what type and the could be a controlled to the secribe what type and the could be a controlled to the secribe what type and the controlled to the secribe what type are secribe whether the secribe what type are secribe whether the secribe whether t	ample, good condition, dam ave a cap with a lock? (to prevent rain water intrusers have caps to prevent water leasurement (depth to water) in each piezometer, recording the dam? Yes	Yes NoX_ ion) and/or locks (to preven er from intruding but no loc) in each piezometer? on a separate page, and atta NoX_ toring wells - good condition	t tampering)? /Corrective cks. Monument covers have Yes X No ach to this form. n, damaged) /Corrective Action:
☐ 8. Othe	or observations on instrumentation/C			
	raphs nimum, photographs should be taker photographs (be sure to date stamp the			

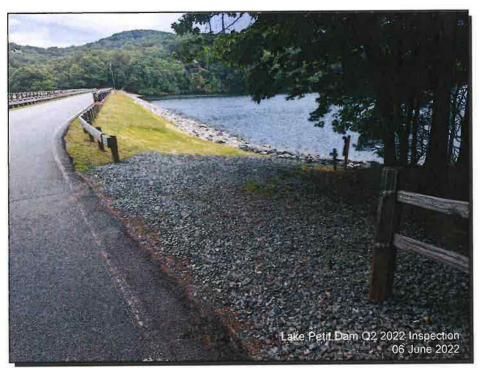
^{*}GPM (gallons per minute): to convert from oz/sec multiply by 0.4688; to convert from ml/sec multiply by 0.01585

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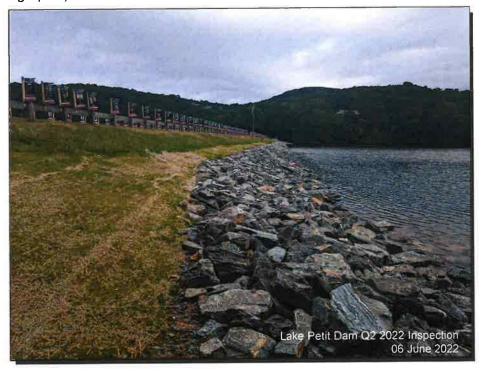
consultants

PHOTOGRAPH LOG

PROJECT NAME: June 2021 (Q2) Lake Petit Dam Quarterly Owners Inspection	PROJECT NO : TN8667
CLIENT: Big Canoe Property Owners Association	FILE NAME: June 2022 Dam Insp



Photograph 1: Upstream Face, June 2022 – GDOT No. 4 aggregate was placed along the left and right groin (not in Photograph 1) to assist with historical surficial erosion observed on the groins.



Photograph 2: Upstream Face, June 2022 – Shoreline protection repair conducted in March 2022. No changes were observed on the recently placed rip rap.

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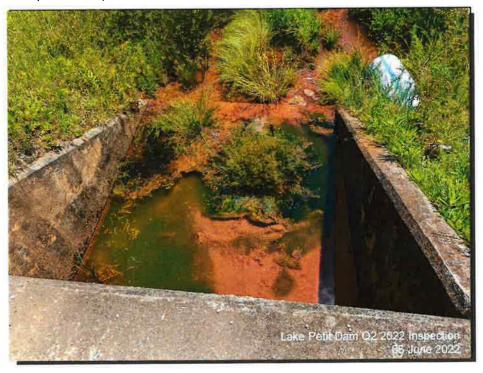
consultants

PHOTOGRAPH LOG

PROJECT NAME: June 2021 (Q2) Lake Petit Dam Quarterly Owners Inspection	PROJECT NO.: TN8667
CLIENT: Big Canoe Property Owners Association	FILE NAME: June 2022 Dam Insp



Photograph 3: Overflow Spillway, June 2022 – Flow restored to the spillway after the completion of spillway repairs completed in April 2022. Small leaves were observed in the spillway.



Photograph 4: Impact Stilling Basin, June 2022 – Bacterial growth observed in the instilling basin.

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PHOTOGRAPH LOG

PROJECT NAME: June 2021 (Q2) Lake Petit Dam Quarterly Owners Inspection

CLIENT: Big Canoe Property Owners Association

PROJECT NO.: TN8667

FILE NAME: June 2022 Dam Insp



Photograph 5: Spillway, June 2022 – Flow observed on top of the recent repairs conducted in April 2022. The source of the flow is currently being investigated.



Photograph 6: Spillway, June 2022 - A wide shot photo documenting the same flow as in Photograph 5.

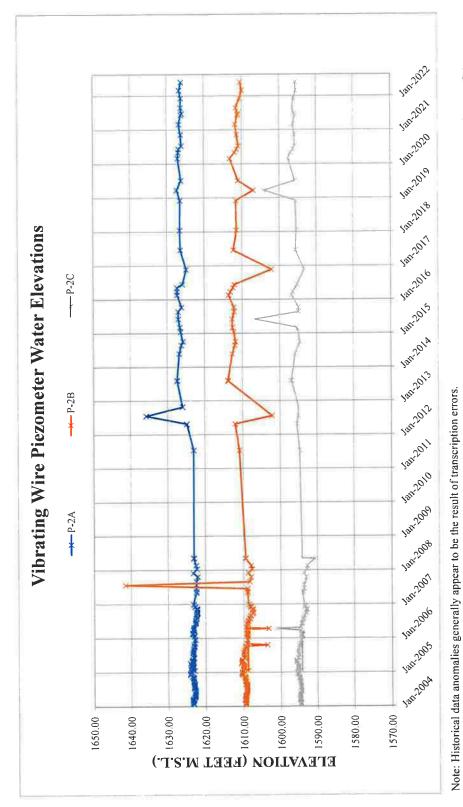


Figure 2-2. Summary of Vibrating Wire Piezometer Data, P-2A, B, C (Feb 2004 through June 2022) - Lake Petit Dam, Big Canoe, GA

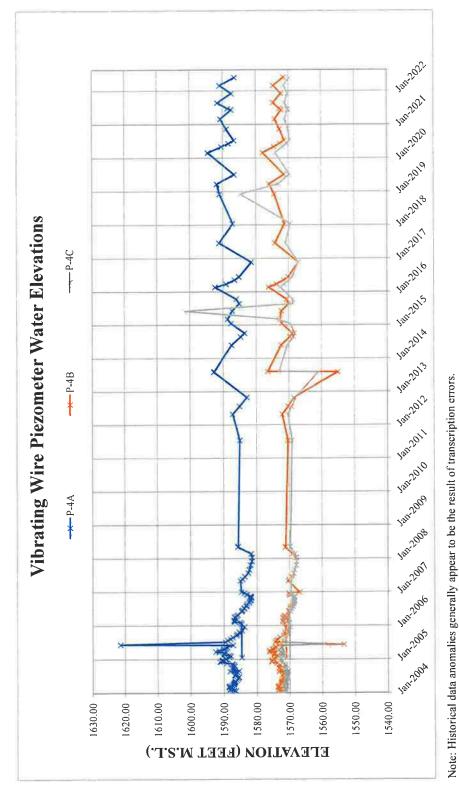
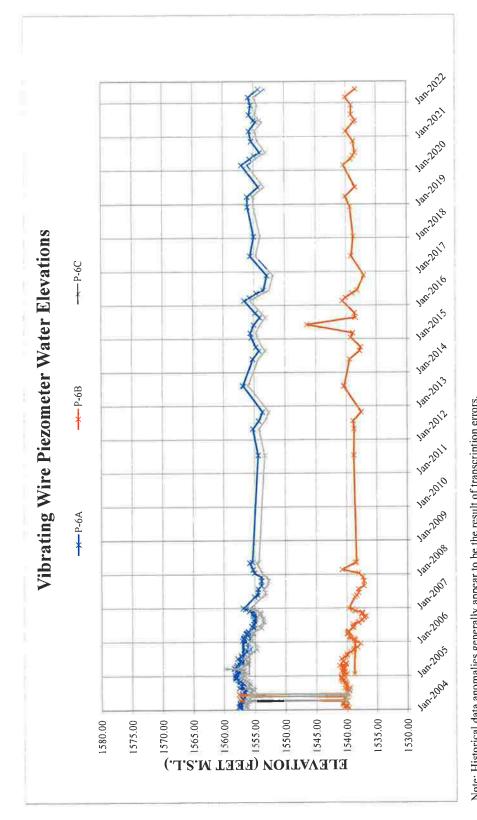


Figure 2-3. Summary of Vibrating Wire Piezometer Data, P-4A, B, C (Feb 2004 through June 2022) - Lake Petit Dam, Big Canoe, GA



Note: Historical data anomalies generally appear to be the result of transcription errors.

Figure 2-4. Summary of Vibrating Wire Piezometer Data, P-6A, B, C (Feb 2004 through June 2022) - Lake Petit Dam, Big Canoe, GA

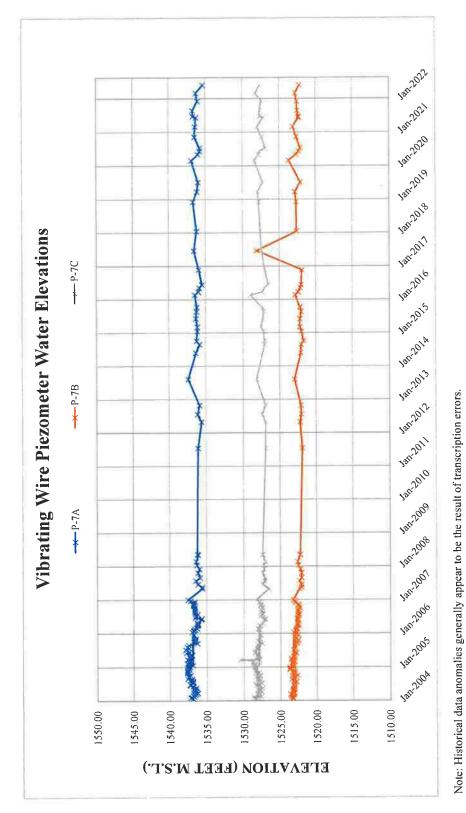


Figure 2-5. Summary of Vibrating Wire Piezometer Data, P-7A, B, C (Feb 2004 through June 2022) - Lake Petit Dam, Big Canoe, GA

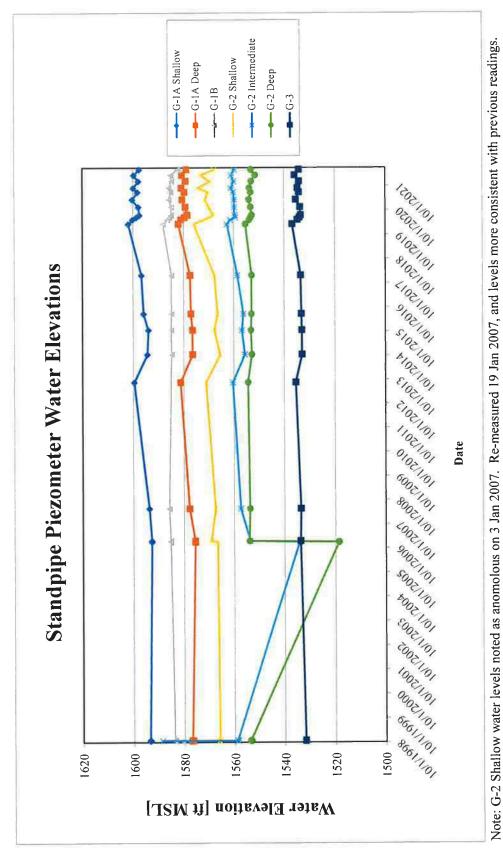


Figure 2-6. Summary of Standpipe Piezometer Data

(Oct 1998 through March 2022) - Lake Petit Dam, Big Canoe, GA.

Embankment (Earth) Dam Inspection Form

Name of Dam: Lake Petit Dam	Date: 28 September 2022
Location of Dam (County): Pickens County	Weather: Sunny, 65 degrees F
Inspected by (Print Name): Zachary Mickel	
If an inspection item requires further action on your part, place a check mark to the left of	the number of the item
A. Crest (refer to Glossary for description)	
1. How would you describe the vegetation on the crest? (Check all that apply)	Sparce
Recently Mowed X Overgrown Good Cover X Other/Corrective Action (describe): The crest of the dam is an asphalt pa	
along the shoulders of the road was observed to be well-maintained.	ved road (winderness i driving). Telegration
2. Are there any trees or other inappropriate or excessive vegetation on the crest?	Ves No X
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action:	
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action.	V/A
3. Is there a paved road or driveway on the crest? Yes X No	
If yes, describe the condition (for example, good condition, numerous cracks, n	ewly paved)/Corrective Action: Good
condition. Paved in 2012. Minor transverse and longitudinal pavement cracks	
were observed on the paved road or cracks on the crest relative to previous insp	
4. Are there any depressions, ruts or holes on the crest? Yes No	
If yes, describe (size, location, etc)/Corrective Action: N/A	
5. Are there any cracks on the crest? Yes X No	
If yes, describe (length and width, location, direction of cracking, etc.)/Correcti	ve Action: Minor transverse and
longitudinal pavement cracks associated with normal pavement wear were observed	erved. These cracks do not appear to be
associated with embankment deformations. No changes were observed on the c	eracks relative to previous inspections.
6. Other observations on the crest/Corrective Action: Maintenance repairs to the	shoreline protection on the upstream
shoreline were completed by April 2022.	
B. <u>Upstream Slope</u> (refer to Glossary for description)	
1. What is the reservoir level today? At Normal Pool 1,635.5 Feet Above Normal	al PoolFeet Below Normal Pool Feet
2. How would you describe the vegetation on the upstream slope? (Check all that ap	ply)
Recently Mowed X Overgrown Good Cover X	Sparse
Other/Corrective Action (describe): This area is well-seeded and mainta	
established in areas disturbed by the shoreline protection activities. Areas not g	rass covered are protected by riprap erosion
protection above and slightly below the normal pool waterline.	
3. Are there any trees or other inappropriate or excessive vegetation on the slope?	
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action:	N/A
4. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the sl	
If yes, describe (size, location, etc.)/Corrective Action: N/A	
5. Are there any eroded areas on the slope (such as wave erosion along the shoreline)	
If yes, describe (size of area, location, severity, etc.)/Corrective Action:	Shoreline riprap protection in place and
appears to be performing as designed.	

Name of Dam: Lake Petit Dam	Date: 28 September 2022
B. Upstream Slope (continued) 6. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes If yes, describe (length, width, height, location, etc.)/Corrective Action:N/A	
7. Is there any type of slope protection along the shoreline (such as riprap)? Yes If yes, describe what type and its condition (for example, riprap - adequate, inadecent in a protection completed in April 2022. The shoreline protection consists of below the normal pool reservoir level.	quate, sparse)/Corrective Action: of a layer of riprap 5 feet above and 3 feet
8. Other observations on the upstream slope/Corrective Action: Recommend oversees upstream slope to reduce to potential for bare areas to form during winter months.	
C. <u>Downstream Slope</u> (refer to Glossary for description) 1. How would you describe the vegetation on the downstream slope? (Check all that ap Recently Mowed X Overgrown Good Cover X Other/Corrective Action (describe): Grass cover is well established and man slope. Continue to mow to prevent the establishment of unwanted vegetation. 2. Are there any trees or other inappropriate or excessive vegetation on the slope?	Sparseintained throughout the downstream
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: Overrees (greater than 4 inches in diameter) observed along the downstream groin are be removed in accordance with Georgia Safe Dams Program or FEMA guidelines 3. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope of the size, location, etc.)/Corrective Action: N/A	rergrown vegetation and large-diameter ras. Woody vegetation and trees should s. re? Yes NoX
4. Are there any eroded areas on the slope (such as along abutment contacts)? Yes If yes, describe (size of area, location, severity, etc.)/Corrective Action: Mi observed near the downstream left groin area due to surface water runoff. Surficial grass cover should be established to reduce the potential for further erosion.	
5. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes	No <u>X</u> A

Name of Dam: <u>Lake Petit Dam</u>	Date: 28 September 2022
C. Downstream Slope (continued)	
6. Are there any wet areas or areas of hydrophilic (lush, water-loving) vegetation?	YesX No
If yes, describe (size of area, location, etc.)/Corrective Action: No changes of	observed to the reverse filter installed at the
seepage area at the left side of Bench No. 1 and 2. Reverse filter appears to	be performing as designed. No wet areas were
observed during the visual inspection. Standing water and minor flow (less the	han 0.5 gallons per minute, cumulative) were
observed within the concrete gutters at Bench No. 1.	
7. Do any wet areas indicate seepage through the dam (such as rust-colored, stained	d water)? Yes No_X N/A
If yes, describe (for example, new area of seepage, no change from past obse	ervations, size of area, location) /Corrective
Action: See discussion of seepage repair in item C.6.	
8. Are there any leaks (flowing water) from the slope or beyond the toe of the dam	? YesX No
If yes, describe (location, rate of flow, turbidity of flow)/Corrective Action:_	Small volume flows of clear water continue
from the interceptor drains along Bench No. 1, with the exception of right m	ost interceptor drains, and the left most
interceptor drains (paired drains) which were covered by the seepage repair.	Continue to monitor the drains and weirs for
changes in flow amount and turbidity.	
9. Other observations on the downstream slope/Corrective Action: The weirs on the	ne left and right abutments were located. Both
weirs were flowing slightly and were generally clean. The left weir has a tende	ncy to become clogged with vegetation/debris
(sediment) and requires cleaning out regularly. The source of the vegetation/del	oris is from surficial erosion from the left
abutment upslope of the weir.	
D. Plunge Pool (refer to Glossary for description)	
1. Is there any type of erosion protection around the plunge pool (such as riprap)?	Yes NoX
If yes, describe what type and its condition (for example, riprap - adequate,	inadequate, obstructed by vegetation)
/Corrective Action: There is no plunge pool. Downstream from the rein	forced concrete impact-type stilling basin there
is no riprap, however, based on current operations it does not appear to be no	eeded.
2. Is there any erosion and or seeps around or going into the plunge pool?	esNo_X
If yes, describe (size of area, location, severity, etc.) /Corrective Action:	
3. Other observations around the plunge pool/Corrective Action: The area of t	he stilling basin is full of organic bacterial
growth and should be routinely cleaned to assist in the inspection of the still	ling basin.
E. Principal and Emergency Spillways (refer to Glossary for description)	
1. What types of spillways does the dam have (such as corrugated metal, concrete	or siphon pipe; concrete or earth channel)?
Principal Spillway Gunite, Stepped Spillway Emergency Spillway None.	other than a low-level outlet pipe.
Other/Corrective Action: Auxiliary, siphon system to control drawdown of re	eservoir when needed.
E. Principal and Emergency Spillways (continued)	
2. Has the emergency spillway activated (had flow) since the last inspection?	Yes NoX
If yes describe (date(s) of flow, reason for activation, depth of flow) /Correct	
sluice gate structure which serves as the intake for the low-level outlet was of	
inspection of the low-level outlet conduit was completed in December 2020	
structure and pipe are in generally fair to good condition. An RFP has been	
program of the low-level outlet sluice gate and is planned to be completed b	
♠ Check if corrective action is noted/required.	Page 3 of 7

↑ Check if corrective action is noted/required.

Name of Dam: Lake Petit Dam	Date: 28 September 2022
3. For pipe spillways, is the intake obstructed in any way (such as with	
If yes, describe (type of debris, reason for obstruction, etc.) /Corr	
is not visible from the surface, but was inspected by a dive team i	
not have been obstructed by sediment or debris following cleaning	
4. For pipe spillways, what is the condition of any trash racks (for example 4.)	
The intake for the low-level outlet is not visible from the surface	but was inspected by a dive team in September 2020. The
sluice gate structure was noted to have an intact trash rack by the	
5. For pipe spillways, are there any visible cracks, separations or holes	
If yes, describe (location, width of crack or separation, etc.)/Corr	ective Action: Recent dive inspections of the pipe
inlet did not identify any cracks, separations, or holes. The recent	camera inspection rated the pipe in fair to good
condition.	
6. For pipe spillways, are there any apparent leaks in the pipe(s)?	Yes No_X
If yes, describe (location, rate of flow from leak, etc.)/Corrective A	ction: A camera inspection of the low-level outlet
pipe was completed in December 2020. The inspection identified a	few pipe joints with calcite formations, indicating minor
inflow, but otherwise did not identify any apparent leaks or issues v	with the conduit's overall condition.
7. For pipe spillways, how would you describe the overall condition of	the pipe(s)? (Check all that apply)
Functioning Normally X Not Functional Deteriorated	Damaged Adequate Inadequate
8. For concrete or earth channel spillways, is the entrance or channel of	bstructed in any way? Yes No_X
If yes, describe (type of obstruction, location, etc.)/Corrective Action	on: No observed debris or blockage.
9. For earth channel spillways, how would you describe the vegetation	in the spillway? (Check all that apply)
Recently Mowed Overgrown Good Co	over Sparse
Other (describe)/Corrective Action: N/A	
☐ 10. For earth channel spillways, are there any trees or other inappropriate	te vegetation in the spillway? YesNo
If yes, describe (type of vegetation, size, location, etc.)/Corrective	
11. For earth channel spillways, are there any eroded areas in the spillways.	ay? Yes No
If yes, describe (size of area, location, severity, etc.)/Corrective	

Name of Dam: Lake Petit Dam	Date: 28 September 2022
F. D. Sand and Frances of Scillage (Continued)	
E. <u>Principal and Emergency Spillways</u> (continued)	Yes X No
■ 12. For concrete channel spillways, are there any cracks or holes in the spillway?	
If yes, describe (width of crack or hole, location, etc.)/Corrective Action:	
spillway repairs conducted in April 2022 were observed to be intact and with	
Continue to monitor the status of the repairs. The spillway repairs addressed	
acceptable performance of the spillway. Throughout the spillway, there are	
smaller cracks and holes were classified as deficiencies that do not hinder the	e performance of the spillway. These minor
cracks should continue to be monitored for changes.	
\square 13. For concrete channel spillways, are there any leaks or evidence of undermining	
If yes, describe (location, rate of flow from leak, indicators of undermining,	
observed along the left spillway wall near the downstream end, beneath the o	
clear and is daylighting near the bridge abutment along the left, downstream	end of the spillway channel. Flow was
estimated to be approximately 0.5 gpm. The source of the flow is currently be	being investigated; however it does not appear
to hinder the performance of the spillway or present an immediate dam safet	y deficiency.
14. For earth or concrete channel spillways, how would you describe the overall con	ndition of the spillway? (Check all that apply)
Functioning Normally X Not Functional Deteriorated Damag	ged Adequate Inadequate
15. Other observations on the spillways/Corrective Action: An 8 in. bypass siphon	line was used to control reservoir levels and
dewater the spillway for the repairs conducted in April 2022. The bypass siphor	line is recharged via a valve in a manhole at
the left side of the spillway, near Wilderness Parkway.	
For the spillway repairs conducted in April 2022, the left side of Step 45 was re	paired by excavating loose soils and debris
behind the walls of the spillway. The areas were then backfilled against and un	der the walls with granular soils, and grouted
with polyurethane resin to prevent the areas from eroding. As of this inspection	n, the repaired areas were stable with no visible
signs of erosion, however, water flow was observed to daylight over the recently	y repaired area. The source of the water flow
is currently being investigated and the area should be backfilled with aggregate	material for temporary repairs.
F. Instrumentation (refer to Glossary for description)	
	e dam? Yes X No
If yes, describe the condition (for example, clogged, free flowing, deteriorat	
drains at the toe of the dam had flow exiting and the interceptor drains along	
exception of the interceptor drains noted in Item E.8). All observable interc	
0.5 gpm. cumulative across all drains). The final drain at the left abutment of	
installed between Bench 1 and 2. A piece of rebar was inserted into this drain	
	process of the second of the s
locating the drain in the future. The underdrain system of the dam outlets is the impact stilling basin. The basin.	asin was full of oxidized bacteria growth and
should be routinely cleaned up assist in the inspection of the impact stilling	
right of the impact stilling basin, one of which (CMP pipe) had flow estimate	
the left of the impact stilling basin and minimal flow was observed (less that Check if corrective action is noted/required.	n 0.5 gpm). Page 5 of 7

Name of Dam: <u>Lake Petit Dam</u>	Date: 28 September 2022
☐ 2. For drains, is an animal guard installed at the outlet of each drain?	Yes NoX
If no, which drains lack animal guards? /Corrective Action: Ani	imal guards are not installed on interceptor drainpipes;
however, they do not appear necessary on the interceptor surface	e drains or underdrain outlet pipes due to continuous flow
and relatively small diameter.	

Name of Dam: La	ke Petit Dam		Date: 28 S	September 2022
F. Instrumentation	on (Continued) neasure the rate of flow from	each drain and record belo	w (use additional pages if no	ecessary):
		Flow Rate	Flow Rate in GPM*	Turbidity of Flow (describe – clear, muddy, etc.)
	nation/Location of Drain tor Drains on Bench No. 1	Very low	Approximately 0.5 GPM, Cumulative	Clear
Ur	nderdrain Outlets	½" height of flow over the weir of the impact- style outlet structure	Less than 0.5 GPM	Clear
Pipe Out	lets Left of Impact Stilling Basin (2 pipes)	Low	Approximately 2 GPM in Small Diameter CMP Pipe.	Clear
,	Outlet to the Right of the npact Stilling Basin	Low	Approximately 0.5 GPM	Clear
general 5. For piezome If no, w Action: bolted I 6. For piezome If yes, t 7. Are there an If yes, o		ave a cap with a lock? (to prevent rain water intrusters have caps to prevent water easurement (depth to water in each piezometer, record on the dam? Yes	Yes NoX_sion) and/or locks (to preventer from intruding but no locks) in each piezometer? If on a separate page, and attageter in the separate page, and attageter in the separate page.	t tampering)? /Corrective cks. Monument covers have Yes X No ach to this form. n, damaged) /Corrective Acti
At a minimum,		he photos): Photograph	s have been attached to this	inspection report.

^{*}GPM (gallons per minute): to convert from oz/sec multiply by 0.4688; to convert from ml/sec multiply by 0.01585

GEOSYNTEC CONSULTANTS Photographic Record

Geosyntec consultants

Client: Big Canoe Property Owners

Association

Project Number: TN8667

Project Name: September 2022 (Q3) Lake Petit

Dam Quarterly Owners Inspection

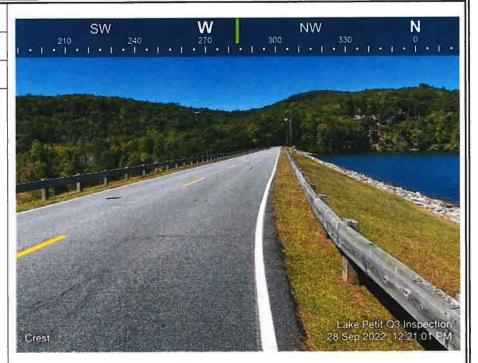
Site Location: Pickens County, Georgia

Photograph 1

Date: 9/28/2022 12:21 PM

Direction: W

Comments: Crest -General view of the asphalt roadway on the crest of the dam. Photograph taken from the left abutment.

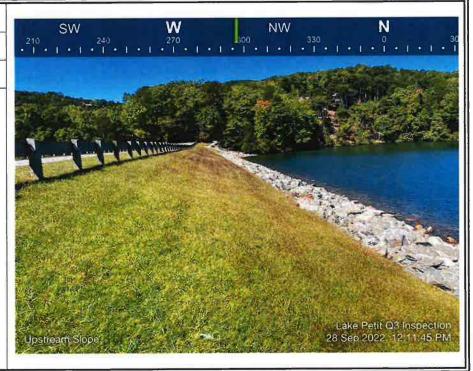


Photograph 2

Date: 9/28/2022 12:11 PM

Direction: W

Comments: Upstream Slope - View of the grass covered upstream slope and riprap wave protection. Photograph taken from the approximate center of the dam.



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GEOSYNTEC CONSULTANTS Photographic Record

Geosyntec occupants

Client: Big Canoe Property Owners

Association

Project Number: TN8667

Project Name: September 2022 (Q3) Lake Petit

Dam Quarterly Owners Inspection

Site Location: Pickens County, Georgia

Photograph 3

Date: 9/28/2022 10:33 AM

Direction: NE

Comments: Overflow Spillway - General view of the overflow spillway towards the upstream end. No debris observed blocking flow during the inspection.



Photograph 4

Date: 9/28/2022 10:56 AM

Direction: W

Comments: Overflow Spillway - Flow observed along the left wall of the overflow spillway. Flow appears to daylight near the downstream end of the overflow spillway.



GEOSYNTEC CONSULTANTS Photographic Record

Geosyntec consultants

Client: Big Canoe Property Owners

Association

Project Number: TN8667

Project Name: September 2022 (Q3) Lake Petit

Dam Quarterly Owners Inspection

Site Location: Pickens County, Georgia

Photograph 5

Date: 9/28/2022 11:07 AM

Direction: NE

Comments: Impact
Stilling Basin - General
view of the impact stilling
basin and associated
drain outlets at the
downstream toe of the
dam.



Photograph 6

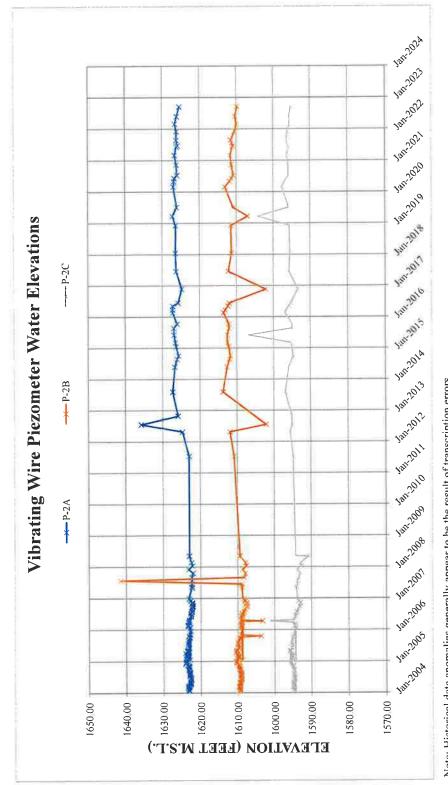
Date: 9/28/2022 1:47 PM

Comments: Downstream

Direction: E

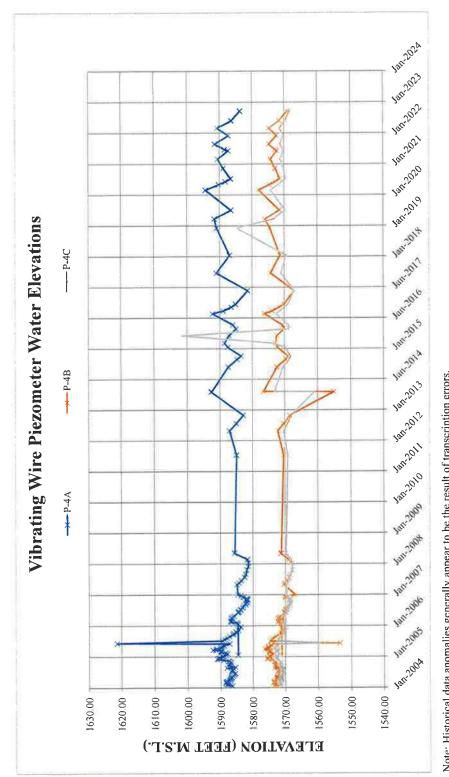
Slope - View of minor, surficial erosion observed along the left, downstream groin area. It is assumed that erosion is caused by stormwater flow during rain events.



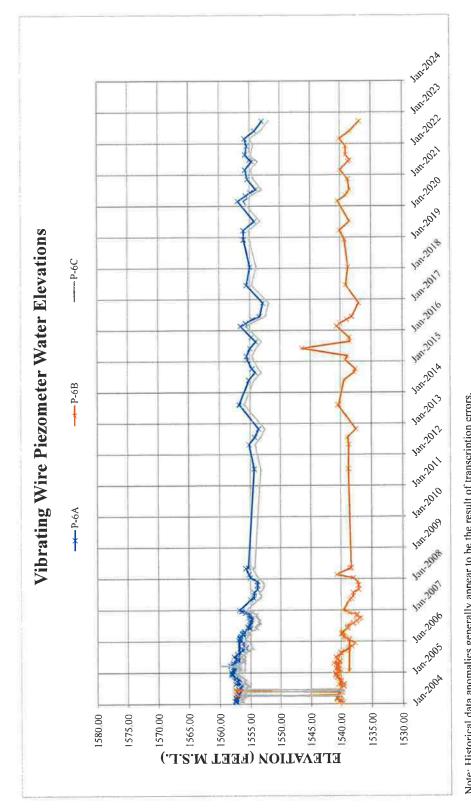


Note: Historical data anomalies generally appear to be the result of transcription errors.

Figure 2-2. Summary of Vibrating Wire Piezometer Data, P-2A, B, C (Feb 2004 through September 2022) - Lake Petit Dam, Big Canoe, GA



Note: Historical data anomalies generally appear to be the result of transcription errors. Figure 2-3. Summary of Vibrating Wire Piezometer Data, P-4A, B, C (Feb 2004 through September 2022) - Lake Petit Dam, Big Canoe, GA



Note: Historical data anomalies generally appear to be the result of transcription errors. Figure 2-4. Summary of Vibrating Wire Piezometer Data, P-6A, B, C (Feb 2004 through September 2022) - Lake Petit Dam, Big Canoe, GA

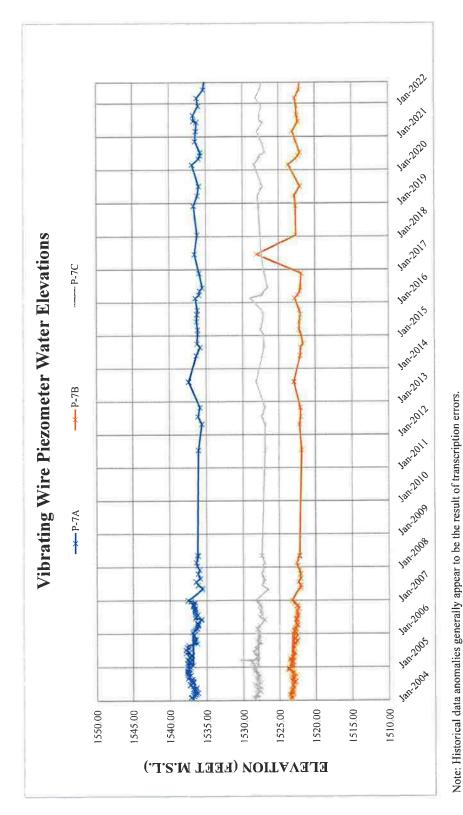
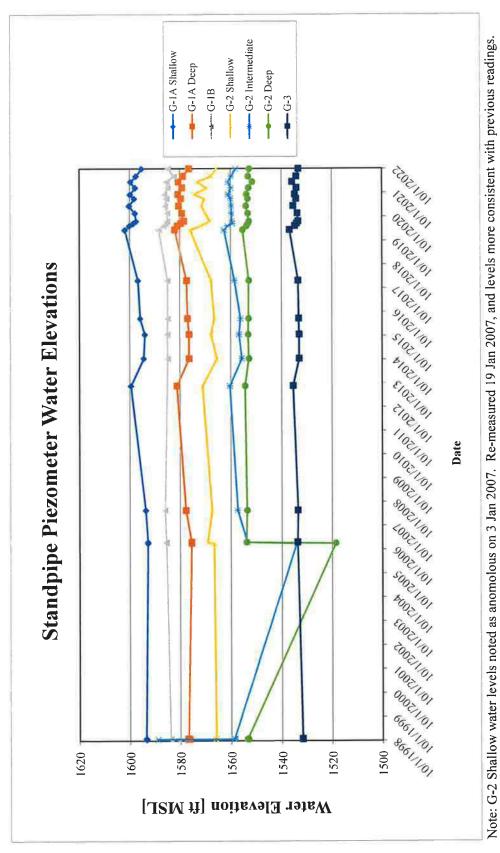


Figure 2-5. Summary of Vibrating Wire Piezometer Data, P-7A, B, C (Feb 2004 through September 2022) - Lake Petit Dam, Big Canoe, GA



(October 1998 through September 2022) - Lake Petit Dam, Big Canoe, GA. Figure 2-6. Summary of Standpipe Piezometer Data

Embankment (Earth) Dam Inspection Form

Name of Dam: <u>Lake Petit Dam</u>	Date: 20 December 2022
tion of Dam (County): Pickens County Weather: Cloudy, 38 degrees F	
Inspected by (Print Name): Max Cange and Daisy McMillion	
If an inspection item requires further action on your part, place a check mark to the left of	the number of the item
If an inspection item requires further action on your part, place a check mark to the left of	the number of the item
A. <u>Crest</u> (refer to Glossary for description)	
1. How would you describe the vegetation on the crest? (Check all that apply)	
Recently Mowed X Overgrown Good Cover X	
Other/Corrective Action (describe): The crest of the dam is an asphalt pa	aved road (Wilderness Parkway). Vegetation
along the shoulders of the road was observed to be well-maintained.	
2. Are there any trees or other inappropriate or excessive vegetation on the crest?	Yes NoX
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action:	N/A
\square 3. Is there a paved road or driveway on the crest? Yes \underline{X} No $\underline{\hspace{1cm}}$	
If yes, describe the condition (for example, good condition, numerous cracks,	
condition. Paved in 2012. Minor transverse and longitudinal pavement cracks	s were observed on the crest. No changes
were observed on the paved road or cracks on the crest relative to previous ins	pections.
4. Are there any depressions, ruts or holes on the crest? Yes No_	
If yes, describe (size, location, etc)/Corrective Action: N/A	
5. Are there any cracks on the crest? Yes X No No	
If yes, describe (length and width, location, direction of cracking, etc.)/Correct	
longitudinal pavement cracks associated with normal pavement wear were obs	
associated with embankment deformations. No changes were observed on the	
6. Other observations on the crest/Corrective Action: N/A	
B. <u>Upstream Slope</u> (refer to Glossary for description)	Feet Below Normal Pool Feet
1. What is the reservoir level today? At Normal Pool X Above Normal Pool _	
2. How would you describe the vegetation on the upstream slope? (Check all that approximately approx	
Recently Mowed X Overgrown Good Cover X Other/Corrective Action (describe): This area is well-seeded and maintage.	
established in areas disturbed by the shoreline protection activities. Areas which	
	en are not grass covered are protected by
riprap erosion protection.	Voc. No. V
3. Are there any trees or other inappropriate or excessive vegetation on the slope? If yes, describe (type of vegetation, size, location, etc.)/Corrective Action:	YesNo_X
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action:	IVA
4. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the s	lone? Yes No X
5. Are there any eroded areas on the slope (such as wave erosion along the shoreline	
If yes, describe (size of area, location, severity, etc.)/Corrective Action:	
appears to be performing as designed.	

Name of Dam: <u>Lake Petit Dam</u>	Date: 20 December 2022
B. Upstream Slope (continued)	
6. Are there any cracks, sloughs or slides (vertical cliffs) on the slope?	
If yes, describe (length, width, height, location, etc.)/Corrective Acti	ion:N/A
7. Is there any type of slope protection along the shoreline (such as riprap))? Yes_ <u>X</u> No
If yes, describe what type and its condition (for example, riprap - ad	equate, inadequate, sparse)/Corrective Action:
Shoreline protection completed in April 2022. The shoreline protect	tion consists of a layer of riprap 5 feet above and 3 feet
below the normal pool reservoir level.	
8. Other observations on the upstream slope/Corrective Action: N/A	
C. <u>Downstream Slope</u> (refer to Glossary for description)	
☐ 1. How would you describe the vegetation on the downstream slope? (Ch	eck all that apply)
Recently Mowed Overgrown Good Cover	r_X Sparse
Other/Corrective Action (describe): Grass observed to provide	e generally good cover. Small areas of sparse
vegetation (up to ~25 ft2) observed at: (i) Bench No.5 to crest, left side	e; (ii) top of Bench No. 4, left side; (iii) Bench No. 4 to
5, right side: and (iv) top of Bench No. 2 (above the filter), left side.	poem.
2. Are there any trees or other inappropriate or excessive vegetation on the	e slope? Yes No_X
If yes, describe (type of vegetation, size, location, etc.)/Corrective A	ction: Previously observed overgrown vegetation and
small-diameter trees (<4 in. diameter) along the left and right groins	s have been removed.
3. Are there any depressions, bulges, ruts or holes (such as animal burrow	s) on the slope? Yes_X No
If yes, describe (size, location, etc.)/Corrective Action: Several	I minor animal burrows/digging locations, and ant hills
were observed on the downstream face. A minor depression was ob-	served on Bench No. 4 near right abutment with minor
erosion downslope. Continued normal maintenance and filling of m	inor depressions/holes/burrows is required.
4. Are there any eroded areas on the slope (such as along abutment contact	ets)? YesX No
If yes, describe (size of area, location, severity, etc.)/Corrective Act	
surface water runoff located near the downstream left groin area on	Bench No. 5 has been repaired with topsoil and erosion
control measures (i.e., hay matting and reseeding). Soil swales have	been added near the road and Bench No. 5 has had soil
placed and revegetated as part of maintenance repairs near the left g	roin area to convey water into the wooded abutment.
Minor surficial erosion along the left groin area below Bench No. 5	was observed to be similar to previous observations.
5. Are there any cracks, sloughs or slides (vertical cliffs) on the slope?	Yes NoX
If yes, describe (length, width, height, location, etc.)/Corrective Act	ion:N/A

Name of Dam: Lake Petit Dam	Date: 20 December 2022
C. Downstream Slope (continued)	
6. Are there any wet areas or areas of hydrophilic (lush, water-loving) vegetation?	YesX No
If yes, describe (size of area, location, etc.)/Corrective Action: Reverse filte	er appears to be performing as designed. Water
and minor flow (consistent with previous inspections) were observed within	the concrete gutters at Bench No. 1.
Approximately mid-way between Bench No.1 and No.2 on the right side, a	wet area was observed. However, recent and
ongoing precipitation made it difficult to measure the extents of this area. T	his wet area should be inspected in dry
conditions to evaluate this area further. A rut was observed along the side of	f the road near the left toe of the embankment
where water from rain events sometimes pools in a previously noted area.	
7. Do any wet areas indicate seepage through the dam (such as rust-colored, stained	ed water)? Yes No_X_ N/A
If yes, describe (for example, new area of seepage, no change from past obs	ervations, size of area, location) /Corrective
Action: See discussion of seepage repair in item C.6.	
8. Are there any leaks (flowing water) from the slope or beyond the toe of the dam	n? YesX No
If yes, describe (location, rate of flow, turbidity of flow)/Corrective Action:	Small volume flows of clear water continue
from the interceptor drains along Bench No. 1 as intended, with the exception	on of the right-most interceptor drain (not
flowing, dry), and the left most interceptor drains (paired drains) which wer	e covered by the seepage repair (a piece of
rebar was inserted into this drain prior to construction of the filter to facilita	te locating the drain in the future). Continue to
monitor the drains and weirs for changes in flow amount and turbidity.	
9. Other observations on the downstream slope/Corrective Action: The weirs on t	
weirs were flowing slightly and were generally clean. The left weir has a tender	
(sediment) and requires cleaning out regularly. The source of the vegetation/de	bris is from surficial erosion from the left
abutment upslope of the weir.	
D. <u>Plunge Pool</u> (refer to Glossary for description)	
1. Is there any type of erosion protection around the plunge pool (such as riprap)?	
If yes, describe what type and its condition (for example, riprap - adequate,	
/Corrective Action: There is no plunge pool. Downstream from the imp	pact-type stilling basin there is not riprap,
however, based on current operations it does not appear to be needed.	
•	es No_ <u>X</u>
If yes, describe (size of area, location, severity, etc.) /Corrective Action:	
3. Other observations around the plunge pool/Corrective Action: The area of the	
organic bacterial growth has been cleaned to assist in the inspection and pla	nned test of the low-level outlet pipe.
E. Principal and Emergency Spillways (refer to Glossary for description)	
1. What types of spillways does the dam have (such as corrugated metal, concrete	
Principal Spillway Gunite, Stepped Spillway Emergency Spillway None	
Other/Corrective Action: Auxiliary, siphon system to control partial drawdo	wn of reservoir when needed.

- E. Principal and Emergency Spillways (continued)
- ↑ Check if corrective action is noted/required.

Name of Dam: Lake Petit Dam	Date: 20 December 2022
2. Has the emergency spillway activated (had flow) since the last inspe	ection? Yes NoX
If yes describe (date(s) of flow, reason for activation, depth of flow	ow) /Corrective Action: A specialty underwater
contractor inspected the low-level pipe and backside of the sluice	e gate structure in December 2022 and indicated that the
pipe is in satisfactory condition. An RFP has been issued to Con-	tractors to perform a testing program of the low-level
outlet sluice gate and is planned to be completed by the end Qua	rter 1 of 2023.
3. For pipe spillways, is the intake obstructed in any way (such as with	excessive debris)? Yes No_X
If yes, describe (type of debris, reason for obstruction, etc.) /Cor	rective Action: The intake for the low-level outlet
is not visible from the surface, but was inspected by a dive team	in September 2020. The sluice gate structure was noted to
not have been obstructed by sediment or debris following cleaning	ng by divers during that inspection.
4. For pipe spillways, what is the condition of any trash racks (for example 1)	nple, adequate, inadequate, damaged)? /Corrective Action:
The intake for the low-level outlet is not visible from the surface	but was inspected by a dive team in September 2020. The
sluice gate structure was noted to have an intact trash rack by the	e divers.
5. For pipe spillways, are there any visible cracks, separations or holes	in the pipe(s) (intake or outlet)? Yes No_X
If yes, describe (location, width of crack or separation, etc.)/Corn	rective Action: The December 2022 inspection of
the pipe rated the pipe in satisfactory condition.	
6. For pipe spillways, are there any apparent leaks in the pipe(s)?	Yes No_X
If yes, describe (location, rate of flow from leak, etc.)/Corrective A	ction: A camera inspection of the low-level outlet
pipe was completed in December 2020. The inspection identified	a few pipe joints with calcite formations, indicating minor
inflow, but otherwise did not identify any apparent leaks or issues	with the conduit's overall condition.
7. For pipe spillways, how would you describe the overall condition of	f the pipe(s)? (Check all that apply)
Functioning Normally X Not Functional Deteriorate	d Damaged Adequate Inadequate
8. For concrete or earth channel spillways, is the entrance or channel of	bstructed in any way? Yes No_X
If yes, describe (type of obstruction, location, etc.)/Corrective Acti	on: No observed debris or blockage.
9. For earth channel spillways, how would you describe the vegetation	in the spillway? (Check all that apply)
Recently Mowed Overgrown Good Co	over Sparse
Other (describe)/Corrective Action: N/A	
10. For earth channel spillways, are there any trees or other inappropria	te vegetation in the spillway? Yes No
If yes, describe (type of vegetation, size, location, etc.)/Corrective	
11. For earth channel spillways, are there any eroded areas in the spillways.	
If yes, describe (size of area, location, severity, etc.)/Corrective	Action: N/A

Name of Dam: <u>Lake Petit Dam</u> Date: <u>20 December 2022</u>
E. Principal and Emergency Spillways (continued)
12. For concrete channel spillways, are there any cracks or holes in the spillway? Yes_X No
If yes, describe (width of crack or hole, location, etc.)/Corrective Action: The spillway was fully operational, and the
spillway repairs conducted in April 2022 were observed to be intact and withstanding the flows within the spillway.
Continue to monitor the status of the repairs. The spillway repairs addressed deficiencies that were required for the
acceptable performance of the spillway. Throughout the spillway, there are still minor cracks observable, however, these
smaller cracks and holes were classified as deficiencies that do not hinder the performance of the spillway. These minor
cracks should continuously be monitored for changes.
13. For concrete channel spillways, are there any leaks or evidence of undermining (flow under the concrete)? Yes X No
If yes, describe (location, rate of flow from leak, indicators of undermining, etc.)/Corrective Action: Additional repairs
along the left side of Step 45 were observed to have been completed since the previous inspection. Repairs consisted of
additional backfilling against and under the walls to prevent further erosion. As of this inspection, the repaired areas were
stable with no visible signs of erosion, however, water flow was observed to daylight over the recently repaired areas.
The flow appears to remain clear and is daylighting near the bridge abutment along the left, downstream end of the
spillway channel. Flow was estimated to be approximately 10 gpm. The flow does not appear to hinder the performance
of the spillway or present an immediate dam safety deficiency.
14. For earth or concrete channel spillways, how would you describe the overall condition of the spillway? (Check all that apply)
Functioning Normally_X Not Functional Deteriorated Damaged Adequate Inadequate
15. Other observations on the spillways/Corrective Action: No other observations.
F. Instrumentation (refer to Glossary for description)
1. Are there any toe drains at the downstream toe or any other seepage drains on the dam? Yes_X No
If yes, describe the condition (for example, clogged, free flowing, deteriorated, good condition) /Corrective Action: The
drains at the toe of the dam had flow exiting and the interceptor drains along Bench No. I were identified (as noted in Item
E.8). The underdrain system of the dam outlets is the impact stilling basin, which has been cleaned to assist in the
inspection and test of the low-level outlet pipe. Three pipe outlets were observed to the right of the impact stilling basin.
One pipe outlet was observed to the left of the impact stilling basin. Pipes were observed to be free flowing with clear flow,
except for one of the pipes to the right of the impact stilling basin which was observed to be dry.
2. For drains, is an animal guard installed at the outlet of each drain? Yes No_X
If no, which drains lack animal guards? /Corrective Action: Animal guards are not installed on interceptor drainpipes;
however, they do not appear necessary on the interceptor surface drains or underdrain outlet pipes due to continuous flow
and relatively small diameter.

F. <u>Instr</u>	rumentation (Continued) or drains, measure the rate of flow from	each drain and record be	low (use additional pages if no	
	Designation/Location of Drain	Flow Rate	Flow Rate in GPM*	Turbidity of Flow (describe – clear, muddy, etc.)
	Interceptor Drains on Bench No. 1	Very low	Approximately 0.5 GPM, Cumulative	Clear
		1/2" height of flow over		
	Underdrain Outlets	the weir of the impact-		Clear
	Onderdrain Outlets	style outlet structure		
	Flowing Pipe Outlets West of		Consistent with previous	Clear
	Impact Stilling Basin (2 pipes)	Low	inspection (Approximately	
	Impact Stiffing Basin (2 pipes)		2 GPM) [#] .	
	Flowing Pipe Outlet East of Impact		Consistent with previous	
	Stilling Basin	Low	inspection (Approximately	Clear
	Stilling Dasin		0.5 GPM) [#] .	
] 5. F	generally in good condition. The an casings were observed to be full of covers. or piezometers, does each piezometer h If no, which piezometers need caps Action: Individual piezometer	water due to recent precip ave a cap with a lock? (to prevent rain water intr	Yes NoX_usion) and/or locks (to preven	t tampering)? /Corrective
	bolted lids to prevent tampering.			
☐ 6. F	or piezometers, are you able to take a n			Yes_X No
_	If yes, record depth to water (in feet			ach to this form.
ا 7. A	are there any other monitoring devices of			
	If yes, describe what type and the co			
7				
」8. C	Other observations on instrumentation/C		No other observations.	
	itographs minimum, photographs should be take			

^{*}GPM (gallons per minute): to convert from oz/sec multiply by 0.4688; to convert from ml/sec multiply by 0.01585

Geosyntec Deconsultants

Client: Big Canoe Property Owners

Association

Project Number: TN8667

Project Name: December 2022 (Q4) Lake Petit

Dam Quarterly Owners Inspection

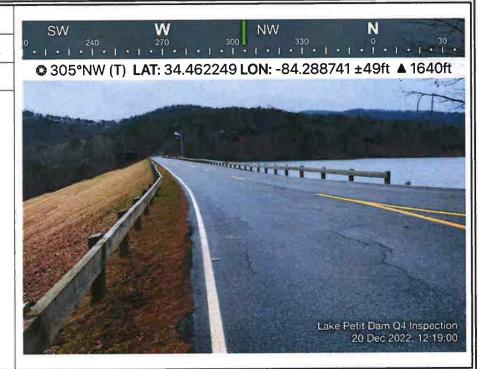
Site Location: Pickens County, Georgia

Photograph 1

Date: 12/20/2022 12:19 PM

Direction: NW

Comments: Crest -General View of the asphalt roadway on the crest of the dam. Photograph taken from the left abutment.



Photograph 2

Date: 12/20/2022 12:20 PM

Direction: W

Comments: Upstream Slope - View of the grass covered upstream slope and riprap wave action protection. Photograph taken from the left side of the dam.



Geosyntec consultants

Client: Big Canoe Property Owners

Association

Project Number: TN8667

Project Name: December 2022 (Q4) Lake Petit

Dam Quarterly Owners Inspection

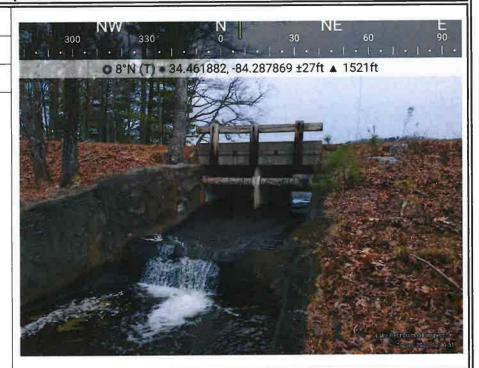
Site Location: Pickens County, Georgia

Photograph 3

Date: 12/20/2022 12:40 PM

Direction: N

Comments: Overflow Spillway - General view of the overflow spillway towards the upstream end. No debris observed blocking flow during the inspection.



Photograph 4

Date: 12/20/2022 12:49 PM

Direction: W

Comments: Overflow
Spillway – Previously
repaired (backfilled and
grouted) area behind the
left spillway wall at the
bridge abutment.
Repaired area was stable
with no signs of erosion.
Flow observed to daylight
over previously repaired
areas.



Geosyntec Deconsultants

Client: Big Canoe Property Owners

Association

Project Number: TN8667

Project Name: December 2022 (Q4) Lake Petit

Dam Quarterly Owners Inspection

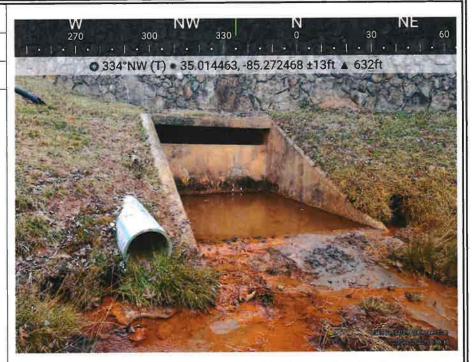
Site Location: Pickens County, Georgia

Photograph 5

Date: 12/20/2022 10:30 AM

Direction: NW

Comments: Impact
Stilling Basin - General
view of the impact stilling
basin and associated
drain outlets at the
downstream toe of the
dam.

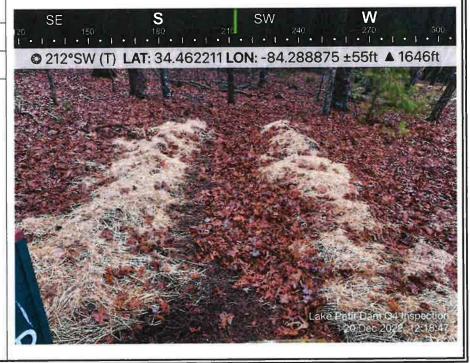


Photograph 6

Date: 12/20/2022 12:18 PM

Direction: SW

Comments: Downstream Slope - View of soil swales installed near the road to convey water into the wooded left abutment, downstream groin area.



Geosyntec consultants

Client: Big Canoe Property Owners

Association

Project Number: TN8667

Project Name: December 2022 (Q4) Lake Petit

Dam Quarterly Owners Inspection

Site Location: Pickens County, Georgia

Photograph 7

Date: 12/20/2022 11:53 AM

Direction: E

Comments: Downstream Slope - View of maintenance repairs to Bench No. 5 to mitigate surficial erosion along the left, downstream groin area.



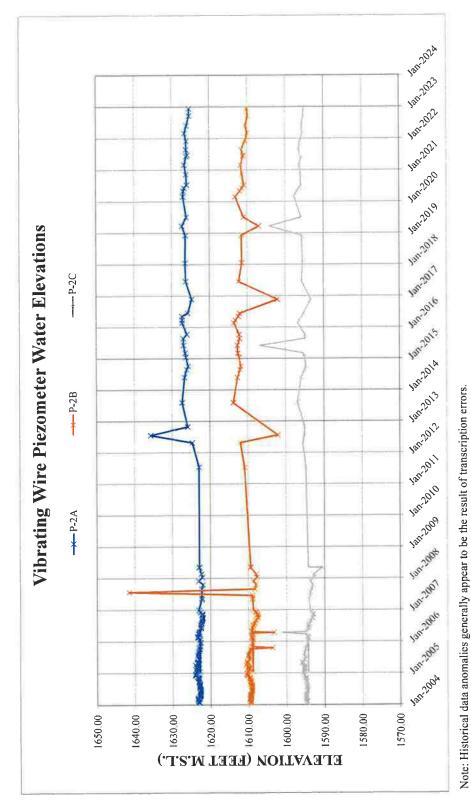


Figure 2-2. Summary of Vibrating Wire Piezometer Data, P-2A, B, C (Feb 2004 through December 2022) - Lake Petit Dam, Big Canoe, GA

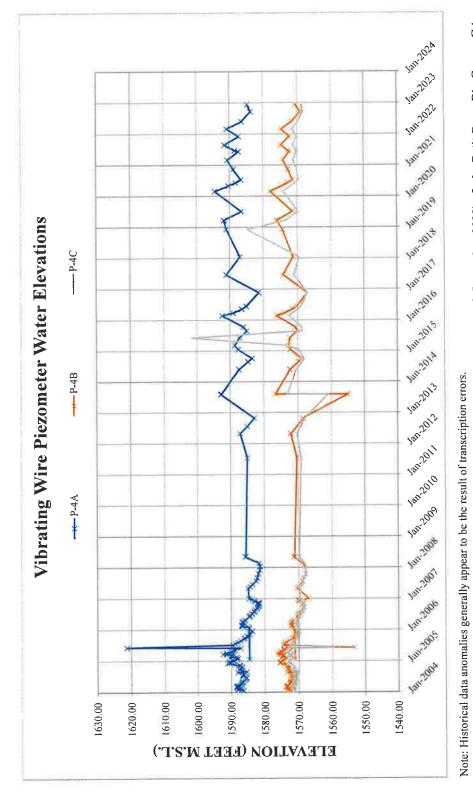
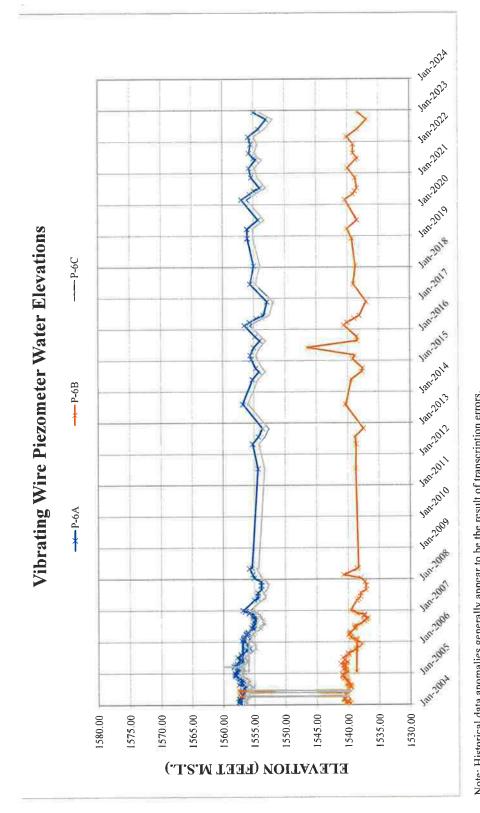


Figure 2-3. Summary of Vibrating Wire Piezometer Data, P-4A, B, C (Feb 2004 through December 2022) - Lake Petit Dam, Big Canoe, GA



Note: Historical data anomalies generally appear to be the result of transcription errors.

Figure 2-4. Summary of Vibrating Wire Piezometer Data, P-6A, B, C (Feb 2004 through December 2022) - Lake Petit Dam, Big Canoe, GA

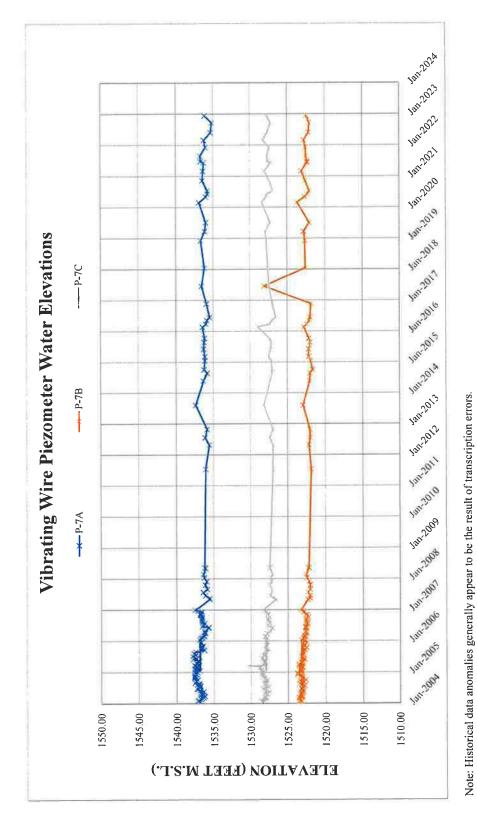
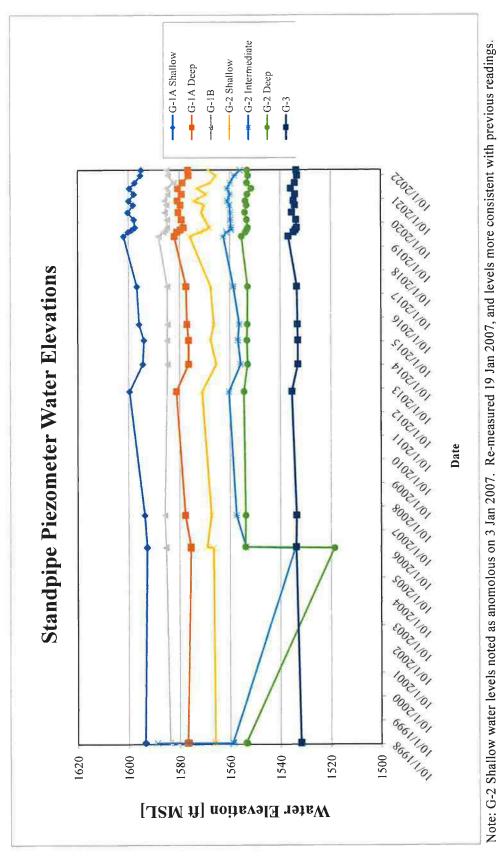


Figure 2-5. Summary of Vibrating Wire Piezometer Data, P-7A, B, C (Feb 2004 through December 2022) - Lake Petit Dam, Big Canoe, GA



(October 1998 through December 2022) - Lake Petit Dam, Big Canoe, GA. Figure 2-6. Summary of Standpipe Piezometer Data

Embankment (Earth) Dam Inspection Form

Name of Dam: Lake Petit Dam	Date: 29 March 2023
Location of Dam (County): Pickens County	Weather: Sunny, 64 degrees F
Inspected by (Print Name): Edisson Ortega Avila	
If an inspection item requires further action on your part, place a check mark to the left of	f the number of the item
A. Crest (refer to Glossary for description)	
1. How would you describe the vegetation on the crest? (Check all that apply)	
Recently Mowed X Overgrown Good Cover X	Sparse
Other/Corrective Action (describe): The crest of the dam is an asphalt p	
along the shoulders of the road was observed to be well-maintained.	
2. Are there any trees or other inappropriate or excessive vegetation on the crest?	Yes No_ <u>X</u>
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action:	
3. Is there a paved road or driveway on the crest? Yes_X No	-
If yes, describe the condition (for example, good condition, numerous cracks,	newly paved)/Corrective Action: Good
condition. Paved in 2012. Minor transverse and longitudinal pavement cracks	were observed on the crest. No changes were
observed on the paved road or cracks on the crest relative to previous inspection	ons.
4. Are there any depressions, ruts or holes on the crest? Yes No_	
If yes, describe (size, location, etc)/Corrective Action: N/A	
5. Are there any cracks on the crest? Yes X No	36
If yes, describe (length and width, location, direction of cracking, etc.)/Correct	
longitudinal pavement cracks associated with normal pavement wear were	
associated with embankment deformations. No changes were observed on the	
6. Other observations on the crest/Corrective Action: None	
 B. <u>Upstream Slope</u> (refer to Glossary for description) 1. What is the reservoir level today? At Normal Pool X Above Normal Pool 	Feet Below Normal Pool Feet
2. How would you describe the vegetation on the upstream slope? (Check all that a	
Recently Mowed X Overgrown Good Cover_X	
Other/Corrective Action (describe): This area is well-seeded and mai	
established in areas disturbed by shoreline protection activities conducted in A	
is protected via riprap erosion protection. Along the left and right groins	
established with granular material.	
3. Are there any trees or other inappropriate or excessive vegetation on the slope?	Yes NoX
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action:	N/A
4. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the s	slope? Yes No_ <u>X</u>
If yes, describe (size, location, etc.)/Corrective Action: N/A	
5. Are there any eroded areas on the slope (such as wave erosion along the shoreline	
If yes, describe (size of area, location, severity, etc.)/Corrective Action:	N/A

Name of Dam: <u>Lake Petit Dam</u>	Date: 29 March 2023
B. Upstream Slope (continued)	
6. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes	No_X
If yes, describe (length, width, height, location, etc.)/Corrective Action: N/A	
7. Is there any type of slope protection along the shoreline (such as riprap)? Yes	X No
If yes, describe what type and its condition (for example, riprap - adequate, inadeq	
Shoreline protection completed in April 2022. The shoreline protection consists of	a rip rap, approximately 4 feet above and
3 feet below the normal pool reservoir level.	
8. Other observations on the upstream slope/Corrective Action: N/A	
C. <u>Downstream Slope</u> (refer to Glossary for description)	
1. How would you describe the vegetation on the downstream slope? (Check all that app	oly)
Recently Mowed X Overgrown Good Cover X	
Other/Corrective Action (describe): Grass observed to provide generally	
observed at: (i) slope between Bench No. 3 and 4, middle of slope; (ii) slope between	Bench No. 4 to 5, right side; and (iii) top
of Bench No. 2 (above the filter), left side. Attempt to reestablish.	
2. 7. 10 more and west or other mapping and a second secon	Yes No_X
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: Previo	
along the left groin. A dead tree was observed on the right groin, between Bench N	
3. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope	
If yes, describe (size, location, etc.)/Corrective Action: Several minor animal	
the downstream face. A minor depression was observed on Bench No. 4 near right	
Continue maintenance filling of minor depression and burrows, and restore vegeta	
4. Are there any eroded areas on the slope (such as along abutment contacts)? Yes_	
If yes, describe (size of area, location, severity, etc.)/Corrective Action: Sur	
of the slope between Bench No. 3 and 4; and (ii) the right side of the slope between	n Bench No. 4 and 5. Continued normal
maintenance, revegetation, and erosion control measures to restore.	N. V
	No <u>X</u>
If yes, describe (length, width, height, location, etc.)/Corrective Action:N/A	

Date: 29 March 2023 Name of Dam: Lake Petit Dam C. Downstream Slope (continued) Yes X No 6. Are there any wet areas or areas of hydrophilic (lush, water-loving) vegetation? If yes, describe (size of area, location, etc.)/Corrective Action: Reverse filter at right side of the slope between Bench No. 1 to 2 appears to be performing as designed. Sediment and vegetation cutting from mowing activities were observed within the concrete channel at Bench No. 1. The source of the sediment is believed to be from the backfill material surrounding the interceptor drains. Wet areas were observed at: (i) left side of slope between the road and Bench No.1, approximately 10 ft up the slope and 20 ft along the slope; and (ii) right side of interceptor drain No. 5 at Bench No. 1, approximately 2 ft up the slope and 5 ft along the slope. No flow or stained water observed. Surficial soft soils were observed at the first wet area. Recommend continued monitoring of these areas for changes to conditions and implementation of interceptor drain replacement, which is ongoing design presently. 7. Do any wet areas indicate seepage through the dam (such as rust-colored, stained water)? Yes____ No_X_ N/A__ If yes, describe (for example, new area of seepage, no change from past observations, size of area, location) /Corrective Action: No active seepage, rust-colored, or turbidity observed at the wet areas discussed in item C.6. Recommend continued monitoring of these areas for changes to conditions. 8. Are there any leaks (flowing water) from the slope or beyond the toe of the dam? If yes, describe (location, rate of flow, turbidity of flow)/Corrective Action: Small volume flows of clear water continue from the interceptor drains along Bench No. 1 as intended, with the exception of the right-most interceptor drain (No. 1) (not flowing, dry). The two leftmost interceptor drains (paired drains, No. 13 and 14) were covered by the installation of the reverse filter for the seepage repair. Clear flows were observed out of the interceptor drains where water flows were observed. Continue to monitor the drains and weirs for changes in flow amount and turbidity. 9. Other observations on the downstream slope/Corrective Action: Two weirs are located on the left and right weirs of the concrete channel located at Bench No. 1. The right weir was flowing easily and required no clearing. The left weir and the concrete channel connecting to the left weir were full of tree cuttings. The left weir has a tendency to become clogged with vegetation/debris and requires cleaning out regularly. The source of the vegetation/debris is believed to be surficial erosion and leaves/twigs/vegetation from the left abutment upslope of the weir. D. Plunge Pool (refer to Glossary for description) 1. Is there any type of erosion protection around the plunge pool (such as riprap)? Yes If yes, describe what type and its condition (for example, riprap - adequate, inadequate, obstructed by vegetation) /Corrective Action: There is no plunge pool. Downstream from the impact-type stilling basin there is no riprap, however, based on current operations it does not appear to be needed. No X 2. Is there any erosion and or seeps around or going into the plunge pool? Yes If yes, describe (size of area, location, severity, etc.) /Corrective Action: _____N/A 3. Other observations around the plunge pool/Corrective Action: As part of the inspection for the low-level out testing program in December 2022, sediment and bacteria growth were dug out of the impact-style stilling basin. As of this quarterly inspection, approximately 3 to 4 inches of sediment and bacterial growth were observed at the bottom of the concrete stilling basin. Continue to monitor the potential build-up of sediment and bacterial growth and clean out as needed.

Name of Dam: Lake Petit Dam

Date: 29 March 2023

E. Principal and Emergency Spillways (refer to Glossary for description) 1. What types of spillways does the dam have (such as corrugated metal, concrete or siphon pipe; concrete or earth channel)? Principal Spillway Gunite. Stepped Spillway Emergency Spillway None, other than a low-level outlet pipe. Other/Corrective Action: Also has n auxiliary siphon system to control partial drawdown of reservoir when needed. 2. Has the emergency spillway activated (had flow) since the last inspection? Yes If yes describe (date(s) of flow, reason for activation, depth of flow) /Corrective Action:

A specialty underwater contractor inspected the low-outlet pipe and back side of the sluice gate structure in December 2022 and indicated that the pipe is in satisfactory condition. Work associated with the performance of a testing program of the low-level outlet sluice gate is planned to be completed in the 2nd quarter of 2023. 3. For pipe spillways, is the intake obstructed in any way (such as with excessive debris)? No X If yes, describe (type of debris, reason for obstruction, etc.) /Corrective Action: The intake for the low-level outlet is not visible from the surface, but was inspected by a dive team in September 2020. The sluice gate structure was noted to not have been obstructed by sediment or debris following cleaning by divers during that inspection. 4. For pipe spillways, what is the condition of any trash racks (for example, adequate, inadequate, damaged)? /Corrective Action: The intake for the low-level outlet is not visible from the surface but was inspected by a dive team in September 2020. The sluice gate structure was noted to have an intact trash rack by the divers. 5. For pipe spillways, are there any visible cracks, separations or holes in the pipe(s) (intake or outlet)? Yes If yes, describe (location, width of crack or separation, etc.)/Corrective Action: The December 2022 inspection of the pipe rated the pipe in satisfactory condition. Yes ____ 6. For pipe spillways, are there any apparent leaks in the pipe(s)? No X If yes, describe (location, rate of flow from leak, etc.)/Corrective Action: A camera inspection of the low-level outlet pipe was completed in December 2020. The inspection identified a few pipe joints with calcite formations, indicating minor inflow, but otherwise did not identify any apparent leaks or issues with the conduit's overall condition. For the testing of the program of the low-level outlet sluice gate, an inspection of the low-level outlet pipe and inlet structure was conducted in December 2022. The inspection identified build up of calcite deposits, minor corrosion, and sediment build up at the inlet structure. These areas are planned to be cleaned out as part of the testing program for the low-level outlet sluice gate. 7. For pipe spillways, how would you describe the overall condition of the pipe(s)? (Check all that apply) Functioning Normally X Not Functional Deteriorated Damaged Adequate Inadequate 8. For concrete or earth channel spillways, is the entrance or channel obstructed in any way? Yes ____ If yes, describe (type of obstruction, location, etc.)/Corrective Action: Small branches (less than 4 inches in diameter) observed at the entrance of the overflow spillway, however, these items are not impeding the flow into the spillway. Recommend clearing any debris at the entrance of the overflow spillway. 9. For earth channel spillways, how would you describe the vegetation in the spillway? (Check all that apply) Good Cover_____ Recently Mowed Overgrown Other (describe)/Corrective Action: N/A 10. For earth channel spillways, are there any trees or other inappropriate vegetation in the spillway? Yes_ If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: N/A Page 4 of 6 ↑ Check if corrective action is noted/required.

Name of Dam: <u>Lake Petit Dam</u> Date: <u>29 March 2023</u>	
11. For earth channel spillways, are there any eroded areas in the spillway? YesNo	
If yes, describe (size of area, location, severity, etc.)/Corrective Action: N/A	
\square 12. For concrete channel spillways, are there any cracks or holes in the spillway? Yes \underline{X} No	
If yes, describe (width of crack or hole, location, etc.)/Corrective Action: The spillway was fully operational, a	ind the
spillway repairs conducted in April 2022 were observed to be intact and withstanding the flows within the spillway. Co	ontinue
to monitor the status of the repairs. The spillway repairs addressed deficiencies that were required for the acce	
performance of the spillway. Throughout the spillway, there are still minor cracks observable, however, these smaller	
and holes were classified as deficiencies that do not hinder the performance of the spillway. These minor cracks	should
continuously be monitored for changes.	
\boxtimes 13. For concrete channel spillways, are there any leaks or evidence of undermining (flow under the concrete)? Yes X 13.	10
If yes, describe (location, rate of flow from leak, indicators of undermining, etc.)/Corrective Action: Additional repair.	
the left side of Step 45 were observed to have been completed since the previous inspection. Repairs consisted of ado	litional
backfilling against and under the walls to prevent further erosion. As of this inspection, surficial erosion was observe	ed over
the backfilled areas. Water flow was observed to daylight over the backfilled areas. The flows were measured	l to be
approximately 15 gpm. The flow appears to remain clear and are daylighting near the bridge abutment along the	ne left.
downstream end of the spillway channel. The flow does not appear to hinder the performance of the spillway or pre	sent an
immediate dam safety deficiency. This flow should be monitored for changes in discoloration and flow rate, and add	litional
investigation and maintenance repairs to fill in the eroded areas be conducted.	
14. For earth or concrete channel spillways, how would you describe the overall condition of the spillway? (Check all that a	apply)
Functioning Normally X Not Functional Deteriorated Damaged Adequate Inadequate	
15. Other observations on the spillways/Corrective Action: No other observations.	
F. <u>Instrumentation</u> (refer to Glossary for description)	
\square 1. Are there any toe drains at the downstream toe or any other seepage drains on the dam? Yes \underline{X} No $\underline{\hspace{1cm}}$	
If yes, describe the condition (for example, clogged, free flowing, deteriorated, good condition) /Corrective Action	
interceptor drains along Bench No. 1 were identified (as noted in Item E.8). The drains at the toe of the dam had flow of	exiting.
The inverts for the internal drain system of the dam are located at the concrete stilling basin. Four pipe outlets were of	served
in the vicinity of the concrete stilling basin: (i) 3 pipes to the right of the concrete stilling basin; and (ii) one to the lef	t of the
concrete stilling basin. Pipes were observed to be free flowing with clear flow, except for one of the pipes to the righ	t of the
impact stilling basin which was observed to be dry.	
\square 2. For drains, is an animal guard installed at the outlet of each drain? Yes No_ X	
If no, which drains lack animal guards? /Corrective Action: Animal guards are not installed on interceptor drainpipe	s nor
the other pipe outlets: however, they do not appear necessary on the interceptor drains or internal drain system pipes	due to
continuous flow and relatively small diameter.	

3. For drains, measure the rate of flow from	each drain and record be		Turbidity of Flow
Designation/Location of Drain	Flow Rate	Flow Rate in GPM*	(describe – clear, muddy, etc.)
Interceptor Drains on Bench No. 1	Vorulow	Less than 0.5 GPM from	Clear
(With the exception for Interceptor	Very low	each observable drain	Cicai
Drain No. 1, 13, and 14)	½" height of flow over		
I de al Davin Contant	the weir of the	1000	Clear
Internal Drain System		***	Clear
	concrete impact basin	Approximately 11 GPM	Clear
Drainpipe No. 2	Moderate	Approximately 0.8 GPM	Clear
Drainpipe No. 3 Drainpipe No. 4	Very low	Less than 0.5 GPM	Clear
If yes, describe the condition (for exgenerally in good condition. The a casings were observed to be full of	nnular spaces between th	amaged, etc.)/Corrective Action monument covers and correctation. The bolt seals on the	esponding standpipe piezor well covers were replaced do
If yes, describe the condition (for exgenerally in good condition. The a casings were observed to be full of this inspection. Recommend replacion. 5. For piezometers, does each piezometer has the sum of the s	cample, good condition, do noular spaces between the water due to recent preciping well cover gaskets at becave a cap with a lock? (to prevent rain water introduction, do not be seen to	amaged, etc.)/Corrective Active monument covers and correctation. The bolt seals on the voring P2 and G1A. Yes NoX usion) and/or locks (to prever	esponding standpipe piezor well covers were replaced do tt tampering)? /Corrective
If yes, describe the condition (for exgenerally in good condition. The a casings were observed to be full of this inspection. Recommend replacing 5. For piezometers, does each piezometer has been been lifted as a casing were observed to be full of this inspection. Recommend replacing this inspection are cased as a cas	cample, good condition, do noular spaces between the water due to recent preciping well cover gaskets at becave a cap with a lock? (to prevent rain water introduction, do not be seen to	amaged, etc.)/Corrective Active monument covers and correctation. The bolt seals on the voring P2 and G1A. Yes NoX usion) and/or locks (to prever	esponding standpipe piezor well covers were replaced do tt tampering)? /Corrective
If yes, describe the condition (for exgenerally in good condition. The a casings were observed to be full of this inspection. Recommend replacing the second	cample, good condition, do noular spaces between the water due to recent preciping well cover gaskets at be ave a cap with a lock? (to prevent rain water intreers have caps to prevent version of the condition of the caps to prevent version of the	amaged, etc.)/Corrective Active monument covers and correctation. The bolt seals on the voring P2 and G1A. Yes NoX usion) and/or locks (to preverwater from intruding but no locks)	esponding standpipe piezor well covers were replaced do tt tampering)? /Corrective
If yes, describe the condition (for exgenerally in good condition. The a casings were observed to be full of this inspection. Recommend replacing the second	cample, good condition, do noular spaces between the water due to recent preciping well cover gaskets at becave a cap with a lock? (to prevent rain water intreers have caps to prevent water according to the cover gaskets at because a cap with a lock?	amaged, etc.)/Corrective Active monument covers and correctation. The bolt seals on the voring P2 and G1A. Yes NoX usion) and/or locks (to prever water from intruding but no locker) in each piezometer?	esponding standpipe piezor well covers were replaced do not tampering)? /Corrective cks. Monument covers have Yes_XNo
If yes, describe the condition (for exgenerally in good condition. The a casings were observed to be full of this inspection. Recommend replacing this inspection. Recommend replacing this inspection. Recommend replacing the second transpectation of the second transpectation of the second transpectation. 5. For piezometers, does each piezometer has a line of the second transpectation of the	cample, good condition, do noular spaces between the water due to recent preciping well cover gaskets at becave a cap with a lock? (to prevent rain water intreers have caps to prevent value assurement (depth to water) in each piezometer, recommendation.	amaged, etc.)/Corrective Active monument covers and correctation. The bolt seals on the voring P2 and G1A. Yes NoX usion) and/or locks (to prever water from intruding but no locker) in each piezometer?	esponding standpipe piezor well covers were replaced do not tampering)? /Corrective cks. Monument covers have Yes_XNo
If yes, describe the condition (for exgenerally in good condition. The acasings were observed to be full of this inspection. Recommend replacion. 5. For piezometers, does each piezometer has lift no, which piezometers need caps Action: Individual piezometer bolted lids to prevent tampering. 6. For piezometers, are you able to take a natifyes, record depth to water (in feet of the feet	cample, good condition, dannular spaces between the water due to recent preciping well cover gaskets at becave a cap with a lock? (to prevent rain water intreers have caps to prevent value and the dam? Yes	amaged, etc.)/Corrective Active monument covers and correctation. The bolt seals on the voring P2 and G1A. Yes NoX usion) and/or locks (to preverwater from intruding but no locer) in each piezometer? Yet on a separate page, and attoring the page of the page o	esponding standpipe piezor well covers were replaced di nt tampering)? /Corrective cks. Monument covers have Yes_XNo ach to this form.
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^{*}GPM (gallons per minute): to convert from oz/sec multiply by 0.4688; to convert from ml/sec multiply by 0.01585

Geosyntec[▷] consultants

Client: Big Canoe Property Owners Association

Project Number: TN9418

Site Name: March 2023 (Q1) Lake Petit Dam

Quarterly Owners Inspection

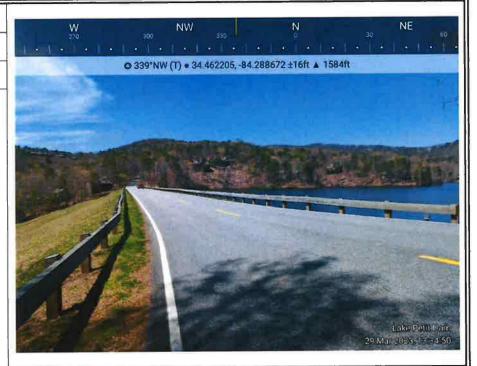
Site Location: Pickens County, Georgia

Photograph 1

Date: 3/29/2023 1:34 PM

Direction: NW

Comments: Crest - View of the asphalt roadway on the crest of the dam. Photograph was taken from the left abutment.

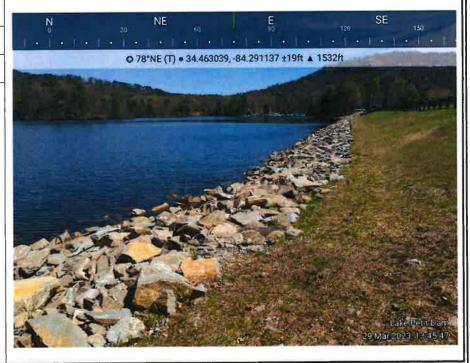


Photograph 2

Date: 3/29/2023 1:45 PM

Direction: E

Comments: Upstream Slope - View of the grasscovered upstream slope and riprap wave action protection. Photograph was taken from the right side of the upstream slope of the dam.



Geosyntec consultants

Client: Big Canoe Property Owners Association

Project Number: TN9418

Site Name: March 2023 (Q1) Lake Petit Dam

Site Location: Pickens County, Georgia

Quarterly Owners Inspection

Photograph 3

Date: 3/29/2023 1:10 PM

Direction: E

Comments: Downstream Slope - View of typical erosion/area of sparse vegetation (near right abutment between Benches 4 and 5).



Photograph 4

Date: 3/29/2023 11:48 AM

Direction: NW

Comments: Downstream Slope - Wet area on left side of the slope between the road and Bench No.1, approximately 10 ft up the slope and 20 ft along

the slope



Geosyntec[▷] consultants

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Project Number: TN9418

Site Name: March 2023 (Q1) Lake Petit Dam

Quarterly Owners Inspection

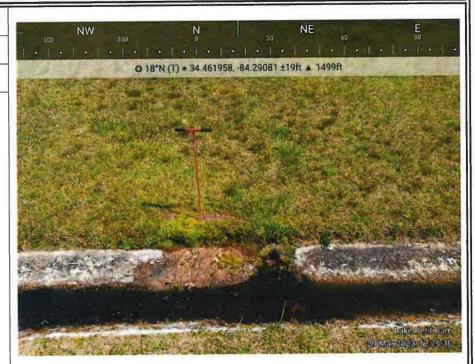
Site Location: Pickens County, Georgia

Photograph 5

Date: 3/29/2023 12:26 PM

Direction: NW

Comments: Downstream Slope - Wet area to the right of interceptor drain No. 5 at Bench No. 1, approximately 2 ft up the slope and 5 ft along the slope



Photograph 6

Date: 3/29/2023 12:29 PM

Direction: E

Comments: Downstream Slope - View of the sediment and vegetation build-up at the concrete channel located on Bench No. 1.



Geosyntec consultants

Client: Big Canoe Property Owners Association

Project Number: TN9418

Site Name: March 2023 (Q1) Lake Petit Dam

Site Location: Pickens County, Georgia

Quarterly Owners Inspection

Photograph 7

Date: 3/29/2023 11:34 AM

Direction: SE

Comments: Downstream Slope - Cut down trees and vegetation obstructing flow on the left weir, located on Bench No. 1.

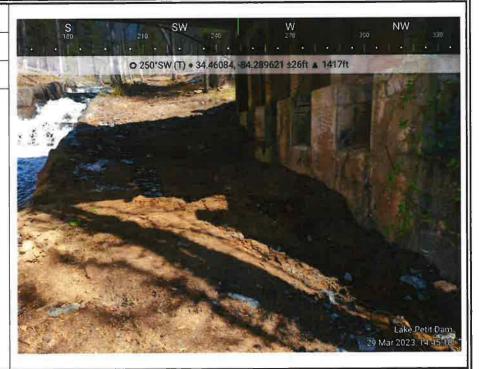


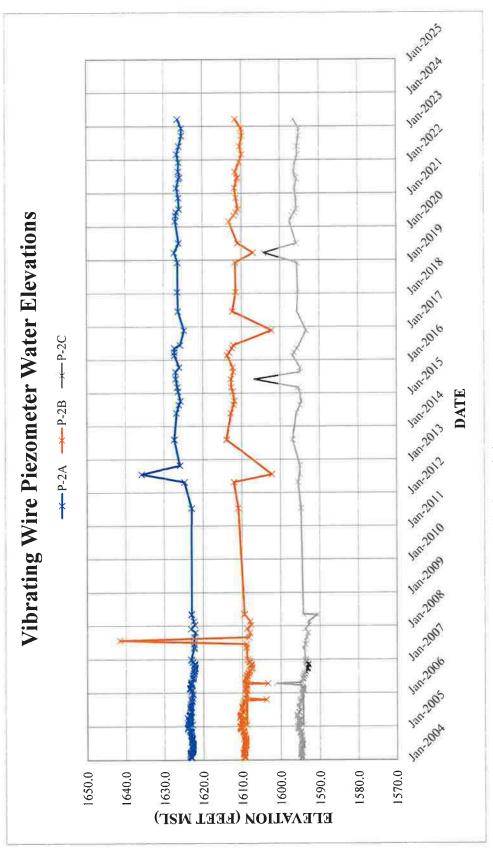
Photograph 8

Date: 3/29/2023 2:45 PM

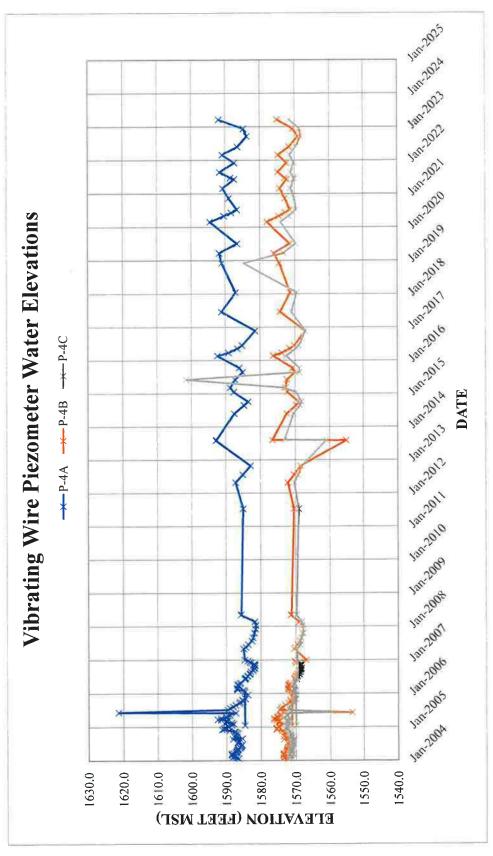
Direction: W

Comments: Spillway -Surficial flow was observed on the left side of Step 45 of the spillway.

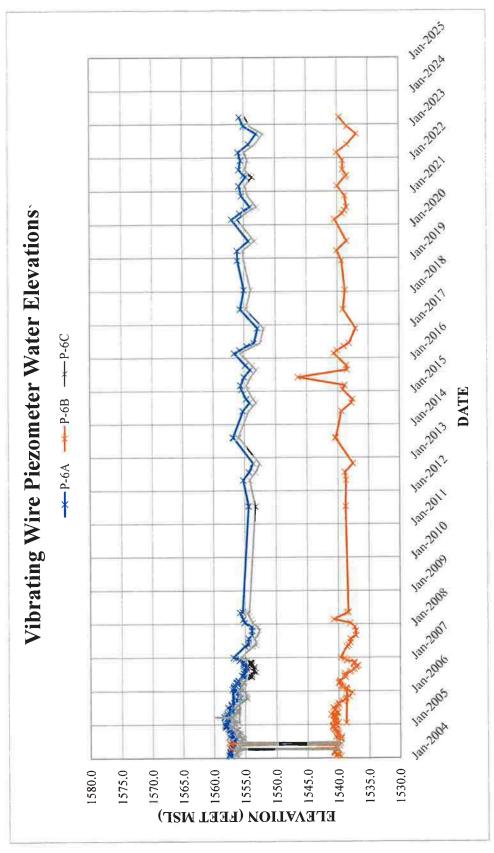




(Feb 2004 through March 2023) - Lake Petit Dam, Big Canoe, GA Figure 2-2. Summary of Vibrating Wire Piezometer Data, P-2A, B, C Note: Historical data anomalies generally appear to be the result of transcription errors.



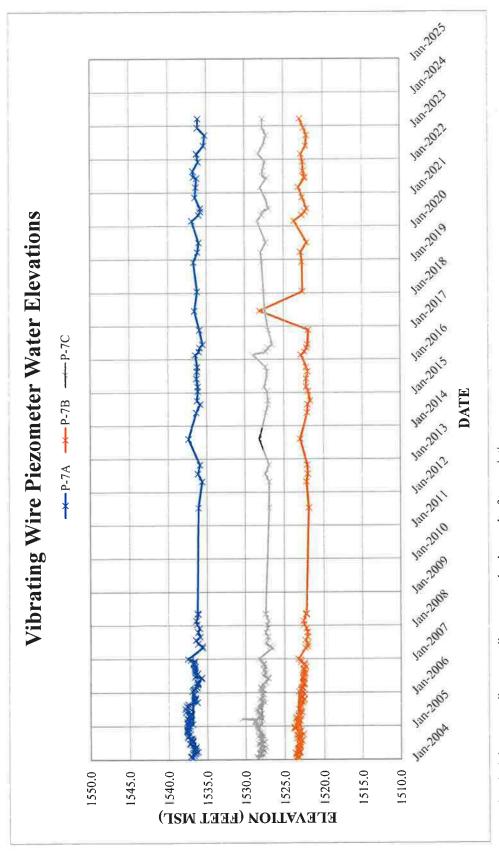
(Feb 2004 through March 2023) - Lake Petit Dam, Big Canoe, GA Figure 2-3. Summary of Vibrating Wire Piezometer Data, P-4A, B, C Note: Historical data anomalies generally appear to be the result of transcription errors.



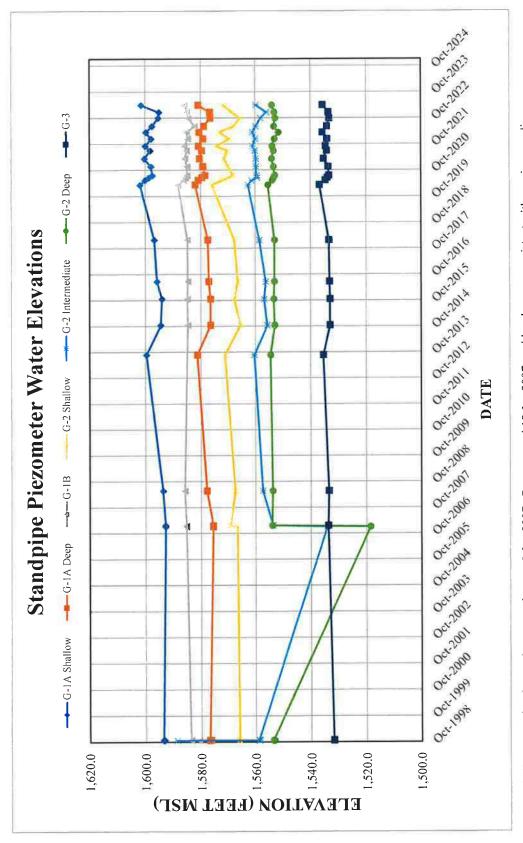
Note: Historical data anomalies generally appear to be the result of transcription errors.

Figure 2-4. Summary of Vibrating Wire Piezometer Data, P-6A, B, C

(Feb 2004 through March 2023) - Lake Petit Dam, Big Canoe, GA



(Feb 2004 through March 2023) - Lake Petit Dam, Big Canoe, GA Figure 2-5. Summary of Vibrating Wire Piezometer Data, P-7A, B, C Note: Historical data anomalies generally appear to be the result of transcription errors.



Note: G-2 Shallow water levels noted as anomolous on 3 Jan 2007. Re-measured 19 Jan 2007, and levels more consistent with previous readings. Figure 2-6. Summary of Standpipe Piezometer Data

(October 1998 through March 2023) - Lake Petit Dam, Big Canoe, GA.