Appalachian Power
Hydro Generation
P O Box 2021
Roanoke, VA 24022-2121
aep.com

Ms. Kimberly Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, DC 20426

October 30, 2023

Re: Appalachian Power Company
Smith Mountain Project No. 2210
License Article 403
2021 Five-Year Sedimentation Monitoring Report
Request for Extension of Time

Dear Secretary Bose:

On behalf of Appalachian Power Company (Appalachian), please find enclosed the 2021 Five Year Sedimentation Survey Report as required in Appalachian's Sedimentation Monitoring Plan (Plan), approved on November 5, 2010 by the Federal Energy Regulatory Commission's (Commission) *Order Modifying and Approving Revised Sedimentation Monitoring Plan*.

Pursuant to the Sedimentation Monitoring Plan (Plan) for the Smith Mountain Project, Appalachian is to file a report with the Commission within 6 months following each five-year sedimentation survey. The most recent five-year sedimentation survey was completed in August 2021. An internal review by Appalachian during the first quarter of 2023 revealed that the sedimentation report had not been filed with the Commission. On March 16, 2023, Appalachian filed a request for an extension of time to file the required report by June 30, 2023. On April 18, 2023, the Commission issued the order granting an extension of time to file the report to June 30, 2023; however, due to staffing changes, Appalachian was not able to file the report by that date. Therefore, on August 7, 2023, Appalachian filed a second request for an extension to file the report by October 31, 2023. On August 25, 2023, the Commission issued the order granting an extension of time to file the report no later than October 31, 2023. In addition, the order required Appalachian to file a copy of the draft report intended for the Technical Review Committee's review and comment by August 31, 2023. Appalachian filed a copy of the draft report with the Commission on that date.

Pursuant to the Plan, Appalachian is to prepare a draft report that is to be provided to Aids to Navigation, Recreation, Aquatic Vegetation, Habitat, and Water Quality technical review committees (TRCs) for 30-day review and comment. Appalachian will then prepare a revised draft report based on

input from the various TRCs and provide that report to the Erosion/Sediment TRC for 30-day review and comment.

The draft report was provided to the TRCs via email with a link to download the draft report on August 31, 2023. Appalachian received replies (via email) from the Virginia Department of Wildlife Resources, the Virginia Cooperative Extension, the Virginia Department of Conservation and Recreation, and Dr. Heck that they had no comments on the draft report. Appalachian received comments (via email attachment) from the Leesville Lake Association (attached) and the Tri-County Lakes Administrative Commission (TLAC). These comments did not require specific revisions to the draft report. Appalachian also received comments (via email attachment) from the Smith Mountain Lake Association (SMLA). The SMLA comments were extensive and speak to relation of the *Sedimentation Monitoring Plan* to other Project plans, survey methodologies, report format and content, data gaps, etc. [Note that Appalachian also received comments (via email attachment) from an individual who is not a TRC representative (see below for further information).] Documentation of consultation on the draft report is included in the final report enclosed herein.

Appalachian revised the draft report and provided the revised draft report via email with a link to download the draft report to the Erosion/Sediment TRC on September 30, 2023. Also, Appalachian provided the comments received on the draft report (via attachment) as well as a discussion of those comments and background information on sedimentation monitoring at the Project via a separate email on September 30, 2023. Appalachian included information regarding the aforementioned comments from the non-TRC representative in the email and that Appalachian would address the consultation requirements in the Plan with the individual. Appalachian notified the Erosion/Sediment TRC of one additional revision to the revised draft report via email dated October 2, 2023. [Note that Appalachian addressed the comments received from the non-TRC representative via email dated October 25, 2023.]

Appalachian received email responses from TLAC and SMLA on and October 2 and 30, 2023, respectively, that the Erosion/Sediment TRC representative had no comments on the revised draft report. No other replies were received. Documentation of consultation on the revised draft report is included in the final report enclosed herein.

Appalachian believes that this report fulfills its reporting requirements under the November 5, 2010 Order and Section 2.0 of the Sedimentation Monitoring Plan. If there are any questions on the final 2021 Sedimentation Monitoring Survey Report enclosed, please contact the undersigned at 540-985-2984 or esbrennan@aep.com.

Sincerely,

Edward S. Brennan
Plant Environmental Coordinator Principal

Cc: Distribution List for technical review committees
Elizabeth B Parcell, American Electric Power
Neil Holthouser, Appalachian
Eli Meador, Appalachian

Enclosure

Distribution List:

Organization	Representative(s)
Tri-County Lake Administration	Kristina Sage
Smith Mountain Lake Association	Robert Sanders, Randy Stow, Joanne Houpt, David Gay, Tom Hardy
Leesville Lake Association	David Rives, Joe Humphrey, Lou Revelle, Richard Beaton, Chip Zimmerman, Charlie Hamilton, Roy Kelley
Ferrum College	Delia Heck
Lynchburg University	Tom Shahady
Franklin County Parks & Recreation	Chris Whitlow
Franklin County Erosion & Sediment Control (E&S)	Ronnie Wilson
Bedford County E&S	Kevin Leamy
Pittsylvania County E&S	Greg Sides
Campbell County E&S	Brian Stokes
Blue Ridge Soil and Water Conservation District (SWCD)	Kathy Smith
Peaks of Otter SWCD	Tracy Culbertson
Robert E. Lee SWCD	Jonathan Wooldridge
Pittsylvania SWCD	Amber Eanes
Virginia Department of Wildlife Resources	Dan Wilson, Pete Schula
Virginia Department of Conservation and Recreation	Mike VanLandingham, Brian Heft
Virginia Department of Environmental Quality	Elizabeth Gallup, Mary Dail, George Devlin, Jason Hill
Virginia Department of Agriculture and Consumer Services	Larry Nichols
Virginia Department of Historic Resources	Roger Kirchen
U.S. Coast Guard	Gale Howerton, Matt Creelman
BASS Nation Virginia	Melanie Barrow
Staunton River Watch	Cole Poindexter
Citizens for the Preservation of the River	Shelton Miles

2021 Five-Year Sedimentation Survey Report

October 31, 2023

APPALACHIAN POWER COMPANY
SMITH MOUNTAIN PUMPED STORAGE PROJECT, NO. 2210
ARTICLE 403 – SEDIMENTATION MONITORING PLAN

Appalachian Power Company
Hydro Generation
P.O. Box 2021
Roanoke, VA 24022

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Appendices

1.0 Background

On June 28, 2010, Appalachian Power Company (Appalachian) filed a revised Sedimentation Monitoring Plan (Plan) with the Federal Energy Regulatory Commission (Commission) for approval as required by *Order Issuing New License* dated December 15, 2009. Under the Plan, a sediment survey is to be completed every five years and a report of findings will be prepared. The monitoring report is to include:

- Results of sedimentation survey
- Comparison of survey data to previous survey results
- Identification of impacts of sediment deposits on public access sites as identified in Appalachian's Recreation Management Plan
- Identification of actions to be taken by Appalachian to address impacts of sediment deposits on public access sites as identified in Appalachian's Recreation Management Plan. Any proposed action to be taken within the project boundary will require prior Commission approval
- Identification of any actions to be taken by the Erosion/Sediment Technical Review Committee as a whole or by individual members of the committee. Any proposed action to be taken within the project boundary will require prior Commission approval
- Identification of measures/actions that are intended to be implemented under the license and those that should be considered outside of the license
- Comments provided by the members of the Technical Review Committee.

On September 16, 2010, the Commission issued an *Order on Rehearing and Clarification*, which revised Article 403 by adding subparagraph (a). This revision, which was issued after the revised Plan was filed, required that the Plan include a provision to monitor and address any adverse effects of sedimentation on project operations. As such, the monitoring report is also to include:

- Identification of impacts of sediment deposits on project operation
- Identification of actions to be taken by Appalachian to address impacts of sediment deposits on project operations, with any proposed action to be taken within the project boundary requiring Commission approval.

On November 5, 2010, the Commission issued *Order Modifying and Approving Revised Sedimentation Monitoring Plan* pursuant to Article 403 of the project license, as modified by ordering paragraph (B).

2.0 Review Process

The most recent five-year sedimentation survey was completed in August and September 2021. Pursuant to the Plan, Appalachian should file the final report with the Commission

within six months of the sedimentation survey. However, during an internal review in March 2023, Appalachian found that the report was not filed. Therefore, on March 16, 2023, Appalachian filed a request for an extension of time (EOT) with the Commission to file the report by June 30, 2023. On April 18, 2023, the Commission issued an Order Granting Extension of Time to File Sedimentation Monitoring Report Pursuant to Article 403, extending the filing deadline as requested. Due to staffing changes, Appalachian was not able to meet the granted filing deadline. Therefore, on August 7, 2023, Appalachian filed a request for an EOT with the Commission to file the report by October 31, 2023. On August 25, 2023, the Commission issued an Order Granting Extension of Time to File Sedimentation Monitoring Report Pursuant to Article 403, extending the filing deadline as requested.

Pursuant to the Plan, Appalachian is to prepare a draft report that is to be provided to Aids to Navigation, Recreation, Aquatic Vegetation, Habitat, and Water Quality Technical Review Committees (TRCs) for 30-day review and comment. Appalachian will then prepare a revised draft report based on input from the various TRCs and provide the revised report to the Erosion/Sediment TRC for 30-day review and comment. Appalachian will then prepare the final report to be filed with the Commission. This is the final 2021 Five-Year Sedimentation Survey Report.

3.0 Results of the 2021 Five-Year Sedimentation Survey

(1) Results of sedimentation survey

The drawings contained in Appendix A show the elevation contours generated from the 2021 survey for each of the following sites:

- Anthony Ford Boat Launch
- Beaver Dam Creek
- Becky's Creek
- Betty's Creek
- Big Indian Creek
- Blackwater River (headwaters)
- Craddock Creek
- Gills Creek
- Grimes Creek
- Hales Ford Boat Launch
- Hardy Ford Boat Launch
- Leesville Dam Boat Launch
- Little Indian Creek
- Lynville Creek
- Mariners Landing
- Mitchell's Cove
- Myers Creek Boat Launch

- Old Woman's Creek
- Penhook Boat Launch
- Pigg River
- Roanoke River (headwaters)
- Scruggs Boat Launch
- Standiford Creek
- State Park Boat Launch

(2) Comparison of survey data to previous survey results

The profiles included on the drawings in Appendix A show a comparison of sediment elevation data generated from all four surveys completed to date (i.e., the 2005 base survey, the 2011 survey, the 2016 survey, and the 2021 survey)**.** Profile One represents the stream thalweg, where the greatest amount of sediment could potentially accumulate or erode. The two additional profiles provide representative views of the channel morphology. Note that wherever the 2021 profiles terminate at different (i.e., shorter length) stations than prior-year profiles or are absent, either the water depth was less than approximately 2 feet (i.e., near-shore or other shallow locations) or the profile length was sufficiently far enough out into deeper water.

Public Access Survey Sites (Boat Launches)

Anthony Ford Boat Launch

Due to insufficient areal coverage, no data was collected along the transect for Profile One (as noted on the drawing) or along the distal portions of the transects for Profiles Two and Three at the Anthony Ford Boat Launch site during the 2021 survey. The data gaps were inadvertent by the survey field personnel.

In comparing the 2021 survey data for the surveyed portions of Profiles Two and Three to the data from the prior surveys, the 2021 data for the Anthony Ford Boat Launch (Sheet 1) showed the same departure from the 2005 baseline survey on Profile Two between approximately Stations 2 and 3 as depicted on the prior two surveys. Whereas increased sediment scouring is indicated at approximately Station 3 on Profile Two as compared to the prior two surveys. Negligible differences were indicated on the Profile Three.

Hales Ford Boat Launch

Due to insufficient areal coverage, no data was collected along the proximal portions of the transects for Profiles One and Two at the Hales Ford Boat

Launch site during the 2021 survey. The data gaps were inadvertent by the survey field personnel.

In comparing the 2021 survey data for the surveyed portions of the profiles to the data from the prior surveys, the 2021 data for the Hales Ford Boat Launch (Sheet 10) indicates slightly increased sediment deposition on Profiles One and Three. Negligible differences were indicated on Profile Two.

Hardy Ford Boat Launch

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Hardy Ford Boat Launch (Sheet 11) indicates slightly increased sediment deposition on Profiles One and Two. Negligible differences were indicated on Profile Three with the exception of the portion beyond approximately Station 6, which indicated increased sediment deposition since the 2016 survey.

Penhook Boat Launch

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Penhook Boat Launch (Sheet 19) indicates negligible differences on all three profiles.

Scruggs Boat Launch

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Scruggs Boat Launch (Sheet 22) indicates negligible differences on all three profiles.

Smith Mountain Lake State Park Boat Launch

As noted within the Sedimentation Study Report (Kleinschmidt & Baird, 2007), the largest source of sediment is derived from soil erosion from within the upland areas of the watershed. Therefore, to serve as a relative control site to compare anthropologic disturbances from more "natural" erosional forces, the 2011 survey coverage area was expanded for the State Park Boat Launch (Sheet 24) site to include the coves in close proximity to the boat launch. A comparison of survey profiles between the 2005 base survey and the 2011 survey within the State Park Boat Launch area revealed a notable departure from the base survey data in the near shore area (at approximately Station 14 for both Profiles One and Two). The remainder of these two profiles, as well as essentially all of Profile Three, revealed negligible differences between the 2005 base survey and the 2011 survey.

Because there were negligible differences identified between the 2005 base survey and the 2011 survey (other than the noted near shore area), expansion to include the coves in close proximity to the State Park Boat Launch was not repeated during the subsequent two surveys. Thus, the 2016 and 2021 sediment elevation data (i.e., green and blue lines, respectively) depicted on Profile One and Profile Two terminate at lower survey station points than those depicted for the 2005 and 2011 surveys (i.e., pink and yellow lines, respectively).

In comparing the 2021 survey data profiles to the data from the prior surveys, increased sediment deposition is indicated from approximately Station 12 to Station 14 on Profile One and approximately Station 2 to Station 3 on Profile Three. No significant differences were indicated on Profile Two.

Leesville Boat Launch

Due to insufficient areal coverage, no data was collected along the transect for Profile Two (as noted on the drawing) or along the proximal portion of the transect for Profile One at the Leesville Boat Launch site during the 2021 survey. The data gaps were inadvertent by the survey field personnel.

In comparing the 2021 survey data for the surveyed portions of Profile One and all of Profile Three to the data from the prior surveys, the 2021 data for the Leesville Boat Launch (Sheet 12) indicates negligible differences on Profiles One and Three.

Myers Creek Boat Launch

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Myers Creek Boat Launch (Sheet 17) indicates slightly increased sediment deposition on portions of all three profiles.

Other Designated Sites

Beaverdam Creek

In comparing the 2021 survey data profiles to the data from the 2016 survey, the 2021 data for the Beaverdam Creek site (Sheet 2) indicates negligible differences on all three profiles. The sediment deposition indicated on Profiles Two and Three between Stations 1 and 2 on the 2016 profiles as compared to the two prior survey profiles has not changed on the 2021 profiles.

Beckys Creek

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Beckys Creek site (Sheet 3) indicates slightly increased sediment deposition on all three profiles.

Bettys Creek

The 2021 survey data profiles for the Bettys Creek site (Sheet 4) indicate stable conditions that essentially mirror the 2016 profiles.

Big Indian Creek

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Big Indian Creek site (Sheet 5) indicates slightly increased sediment deposition on portions of all three profiles.

Blackwater River

The 2021 data shows that the headwater of the Blackwater River (Sheet 6) continues to be where the greatest change relative to sediment deposition is evident for the Smith Mountain Lake survey sites, as compared to the prior-year survey data. Increased sediment deposition was evident to the greatest extent on Profile Two, and to a lesser degree on Profile Four. Negligible sedimentation differences are indicated on Profiles One and Three. [As reported in the 2016 five-year sedimentation survey report, Profile Four was added during the 2016 survey in lieu of repeating Profile Three in an effort to further investigate sediment deposition at the Blackwater River site. However, Profile Three was covered during the 2021 survey where water depth was sufficient for the survey boat to travel.]

Craddock Creek

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Craddock Creek site (Sheet 7) indicates negligible differences on all three profiles.

Gills Creek

During the date of the 2021 sedimentation survey, water depth was too shallow for the survey boat to travel along any of the transect for Profile Three and much of the transect for Profile One at the Gills Creek site.

In comparing the 2021 survey data for the surveyed portions of Profiles One and Two to the data from the prior surveys, the 2021 data for the Gills Creek site (Sheet 8) indicates slightly increased sediment deposition on portions of Profiles One and Two.

Grimes Creek

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Grimes Creek site (Sheet 9) indicates slightly increased sediment deposition on portions of all three profiles.

Little Indian Creek

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Little Indian Creek site (Sheet 13) indicates slightly increased sediment deposition on portions of all three profiles.

Lynville Creek

As stated in the 2016 five-year sedimentation survey report, notable sediment deposition is evident at the Lynville Creek site (Sheet 14). The 2021 survey data for Profiles One and Two indicate negligible differences to the 2016 data for the portions of the transects where water depth was sufficient for the survey boat to travel. Whereas the water depth at Profile Three had become too shallow for the survey boat to operate, so no line representing 2021 data shows on the profile (as noted on the drawing).

Mariners Landing

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Mariners Landing site (Sheet 15) indicates negligible differences on the majority all three profiles.

Mitchells Cove

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Mitchells Cove site (Sheet 16) indicates negligible differences on all three profiles.

Old Womans Creek

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Old Womans Creek site (Sheet 18) indicates slightly increased sediment deposition on the majority of all three profiles.

Pigg River

The Pigg River site (Sheet 20) continues to be where the greatest change relative to sedimentation differences are evident for the Leesville Lake survey sites, as compared to the prior-year survey data. While lake bed conditions have remained relatively stable over time at Profile Two, conditions at Profiles One and Three have varied from periods of scouring to periods of deposition (i.e., dynamic conditions). The 2021 data indicates that a period of sediment deposition had occurred along these two profiles since the 2016 sedimentation survey.

Roanoke River

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Roanoke River site (Sheet 21) indicates slightly increased sediment deposition on the majority of Profile One and negligible differences on Profiles Two and Three.

Standiford Creek

In comparing the 2021 survey data profiles to the data from the prior surveys, the 2021 data for the Standiford Creek site (Sheet 23) indicates slightly increased sediment deposition on the majority of all three profiles.

(3) Identification of impacts of sediment deposits on public access sites as identified in Appalachian's Recreation Management Plan

The recreation sites identified from the 2011 survey data as being impacted by sediment deposits include access to the Hardy Ford and Hales Ford public boat launch sites. These conditions are not the result of new sediment deposited since the original survey in 2005, but from conditions that Appalachian was made aware of during relicensing and while consulting with the Virginia Department of Wildlife Resources on recreation access issues.

(4) Identification of Actions to be taken by Appalachian to address impacts of sediment deposits on public access sites as identified in Appalachian's Recreation Management Plan. Any proposed action to be taken within the project boundary will require prior Commission review and approval.

The Hales Ford public boat launch site was improved in 2012. Improvements included increasing the number of parking spaces and adding restroom facilities. Also, the area beyond the base of the boat ramp was dredged to remove mounded sediment that had been disturbed and accumulated over time during boat take out activities. The 2012 dredging project restored adequate water

depth at the base of the ramp for put in and take out of boats during periods of lower lake levels. As indicated on the subsequent 2016 and 2021 sedimentation survey profiles, conditions have remained relatively stable in the immediate vicinity of the boat launch.

The Hardy Ford public boat launch region was improved in 2017. Subsequent to consultation with the Erosion/Sediment and Recreation TRCs, and approval from the U.S. Army Corps of Engineers and the Commission, Appalachian dredged 1,000 cubic yards of sediment in December 2017. The dredging project improved boating access between the boat ramp and the main channel during lower than normal water elevations. [Note that the aforementioned sedimentation profile locations in the vicinity of the Hardy Ford public boat launch are outside of the dredged areas, which were closer to the shoreline in lateral proximity, with the exception of middle portion of Profile Three.]

(5) Identification of any actions to be taken by the Erosion/Sediment Technical Review Committee as a whole or by individual members of the committee. Any proposed action to be taken within the project boundary will require prior Commission review and approval.

Proposed actions, if any, pending Erosion/Sediment Technical Review Committee consultation.

(6) Identification of measures/actions that are intended to be implemented under the license and those that should be considered outside of the license.

No measures/actions are intended to be implemented outside of the license.

(7) Comments provided by the members of the Technical Review Committee.

The Draft 2021 Smith Mountain Project Sedimentation Survey Report was sent (via email link to download the report) to the Aids to Navigation, Aquatic Vegetation, Habitat, Recreation, and Water Quality Technical Review Committee (TRC) representatives for 30-day review and comment on August 31, 2023. Appalachian Power Company (Appalachian) received replies (via email) from the Virginia Department of Wildlife Resources, the Virginia Cooperative Extension, the Virginia Department of Conservation and Recreation, and Dr. Heck that they had no comments on the draft report. Appalachian received comments (via email attachment) from the Leesville Lake Association and the Tri-County Lakes Administrative Commission (TLAC). These comments did not require specific revisions to the draft report. Appalachian also received comments (via email attachment) from the Smith Mountain Lake Association (SMLA). Documentation of consultation is included in Appendix B.

The draft report was revised to address SMLA's comments regarding data gaps and a Revised Draft 2021 Five-Year Sedimentation Survey Report was sent (via email link to download the report) to the Erosion/Sediment TRC on September 30, 2023. Appalachian also provided the comments received on the draft report to the Erosion/Sediment TRC (via email attachment) as well as a discussion of those comments and background information on sedimentation monitoring at the Project in a separate email on the same date. Appalachian received an email reply from the SMLA on October 1, 2023 inquiring about the review period and inclusion of SMLA's comments on the draft report in documentation of consultation. Appalachian received an email reply from TLAC on October 2, 2023 noting a boat launch naming error in the revised draft report. Appalachian replied to SMLA's inquiries and notified the Erosion/Sediment TRC of one additional revision to the report regarding a boat launch name correction via email dated October 2, 2023. Appalachian received an email reply from TLAC on the same date stating that they had no further comments on the revised report. No other replies were received by Appalachian on the revised draft report. Documentation of consultation is included in Appendix B.

(8) Identification of impacts of sediment deposits on project operation.

No impacts to project operations have been identified. The survey sites with the greatest change from the 2005 baseline survey are located at the upper reaches of Pigg River and the Blackwater River and are not impacting the ability of Appalachian to operate its facilities. The source of the sediment is from activities outside of the project boundary (i.e., upstream locations).

(9) Identification of actions to be taken by Appalachian to address impacts of sediment deposits on project operations, with any proposed actions to be taken within the project boundary requiring Commission approval.

No impacts to project operations have been identified.

APPENDIX A

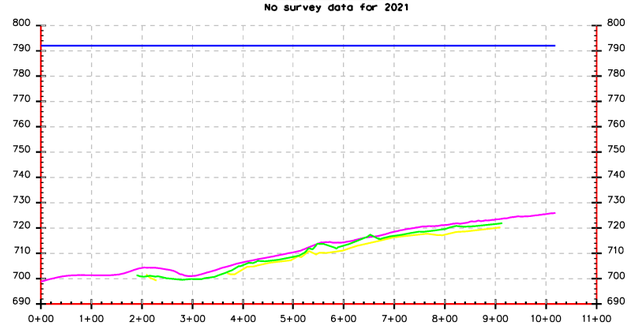
2021 Sedimentation Survey Profiles

APPENDIX A

2021 Sedimentation Survey Profiles

PROFILE ONE

No survey data for 2021



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	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 792.53	0.00

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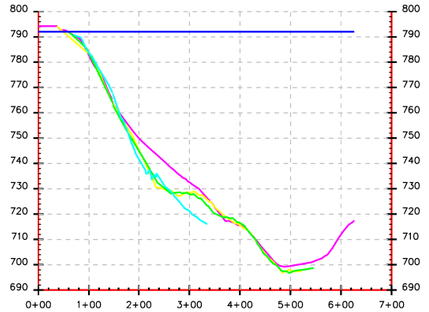
Scaled 1.0000 Times Hor.

PROFILE TWO



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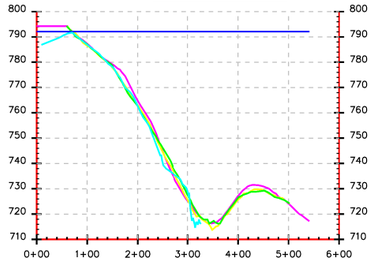
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 792.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



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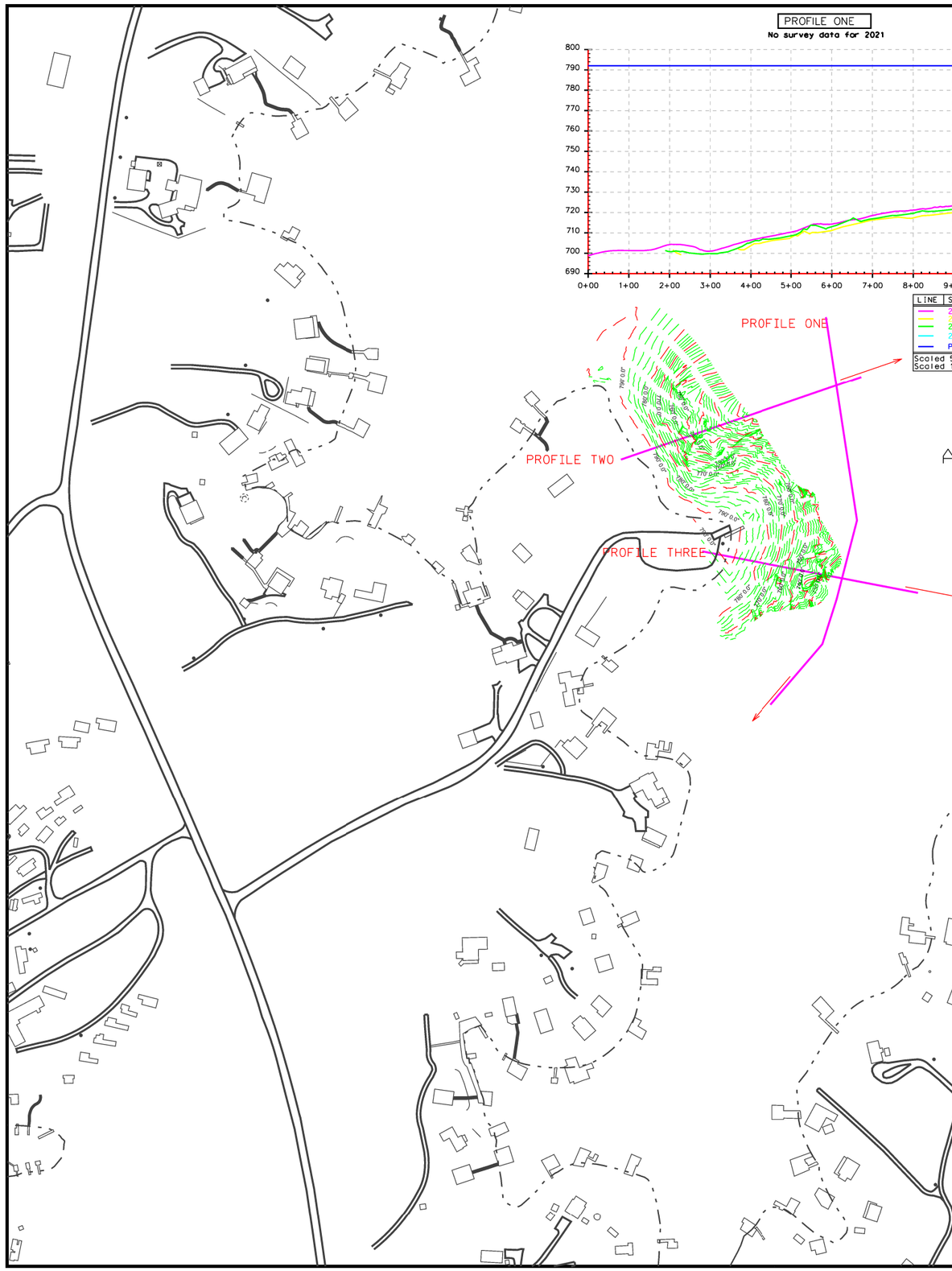
	2021 REVIEW	0.00
	POOL 792.53	0.00

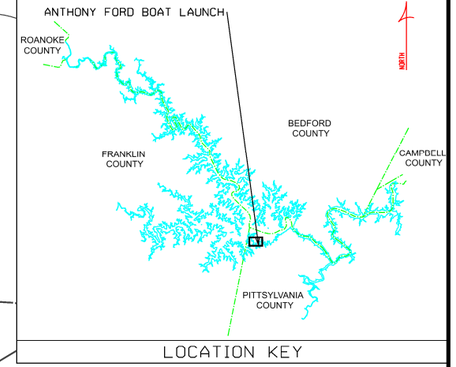
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.



GRID NORTH

ANTHONY FORD BOAT LAUNCH

POOL ELEVATION 792.53'

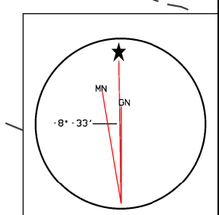


LOCATION KEY

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

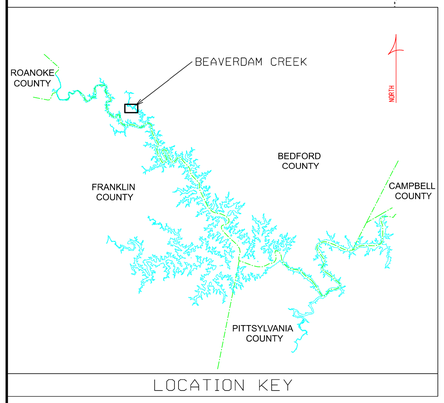
SHEET 1 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE AUG 25TH, 2021

GRID NORTH



LOCATION KEY

PROFILE TWO

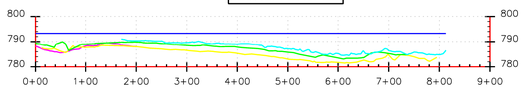
PROFILE THREE

PROFILE ONE

BEAVERDAM CREEK

POOL ELEVATION 793.93'

PROFILE ONE



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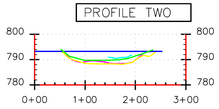
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL	793.93	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE TWO



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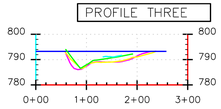
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL	793.93	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



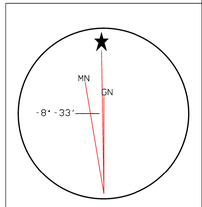
LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL	793.93	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 2 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 9/14/21

GRID NORTH

PROFILE ONE

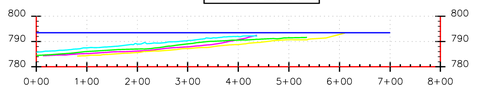
PROFILE TWO

PROFILE THREE

BECKYS CREEK

POOL ELEVATION 793.33'

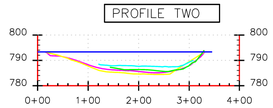
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 793.33	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

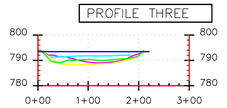
PROFILE TWO



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 793.33	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



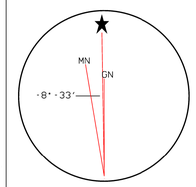
LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 793.33	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

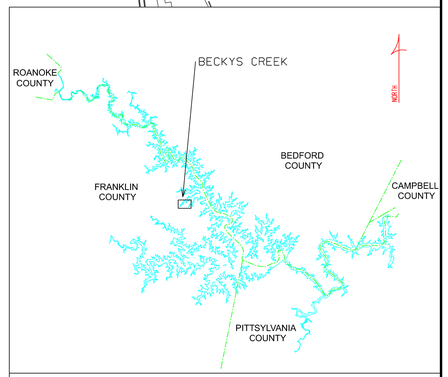
300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH



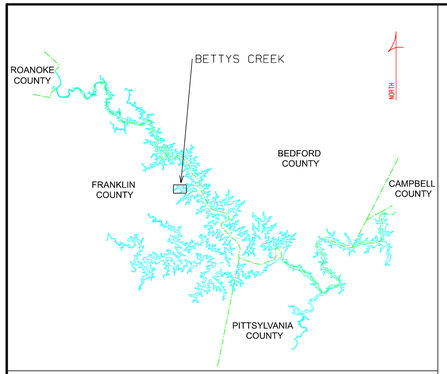
LOCATION KEY

SHEET 3 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 9/15/21



LOCATION KEY

PROFILE TWO

PROFILE THREE

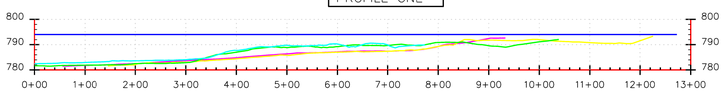
PROFILE ONE

BETTYS CREEK

POOL ELEVATION 794.53'

GRID NORTH

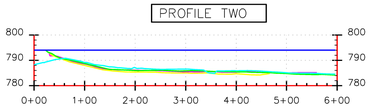
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

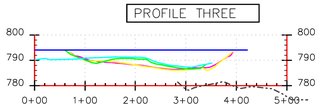
PROFILE TWO



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



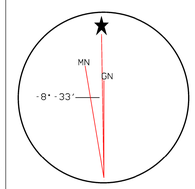
LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



2025 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 4 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 9/14/21

GRID NORTH

PROFILE THREE

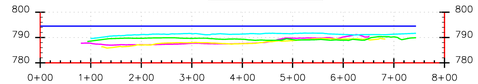
PROFILE TWO

PROFILE ONE

BIG INDIAN CREEK

POOL ELEVATION 794.53'

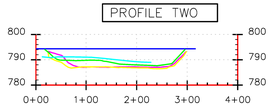
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

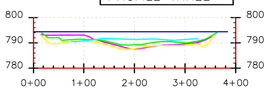
PROFILE TWO



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.53	0.00

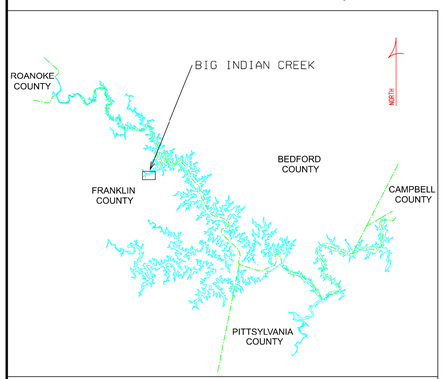
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

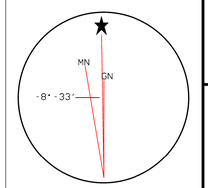


LOCATION KEY

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 5 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 9/14/21

PROFILE THREE

PROFILE TWO

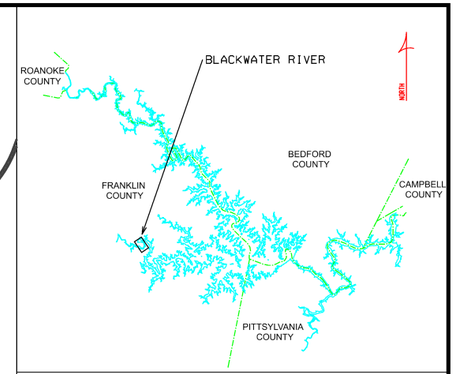
PROFILE FOUR

PROFILE ONE

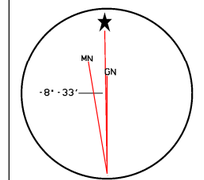
BLACKWATER RIVER

POOL ELEVATION 794.73'

OHIO NORTH



LOCATION KEY



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

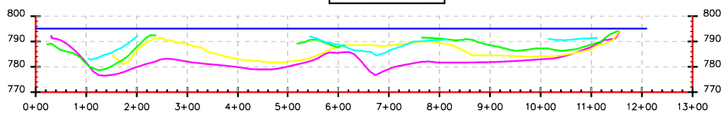
PROFILE FOUR

PROFILE ADDED IN 2016

LINE	SURFACE	OFFSET
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.73	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE TWO

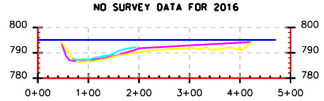


LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.73	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE

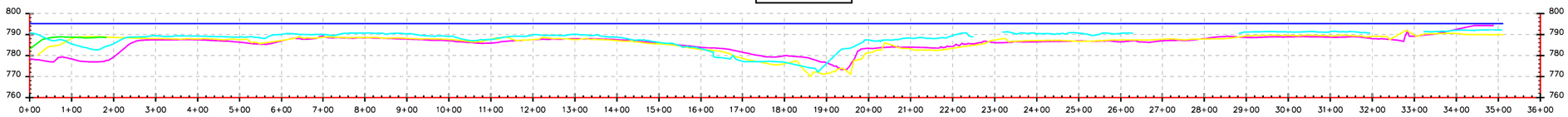
NO SURVEY DATA FOR 2016



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.73	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.73	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

300' 0' 300' 600'

SCALE: 1"= 300'

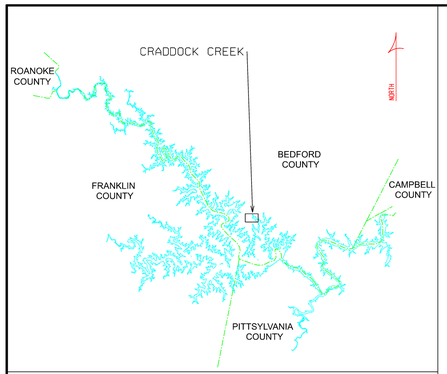
CONTOUR INTERVAL: 2'

SHEET 6 OF 24 SHEETS

APPALACHIAN POWER COMPANY

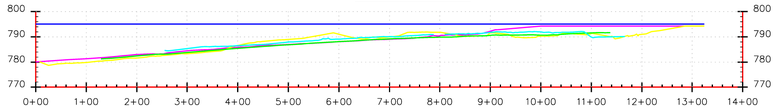
SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 8/24/21



LOCATION KEY

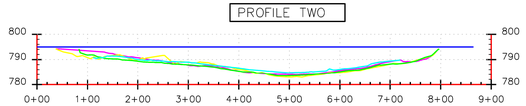
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.33	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

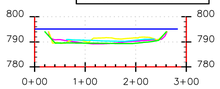
PROFILE TWO



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.33	0.00

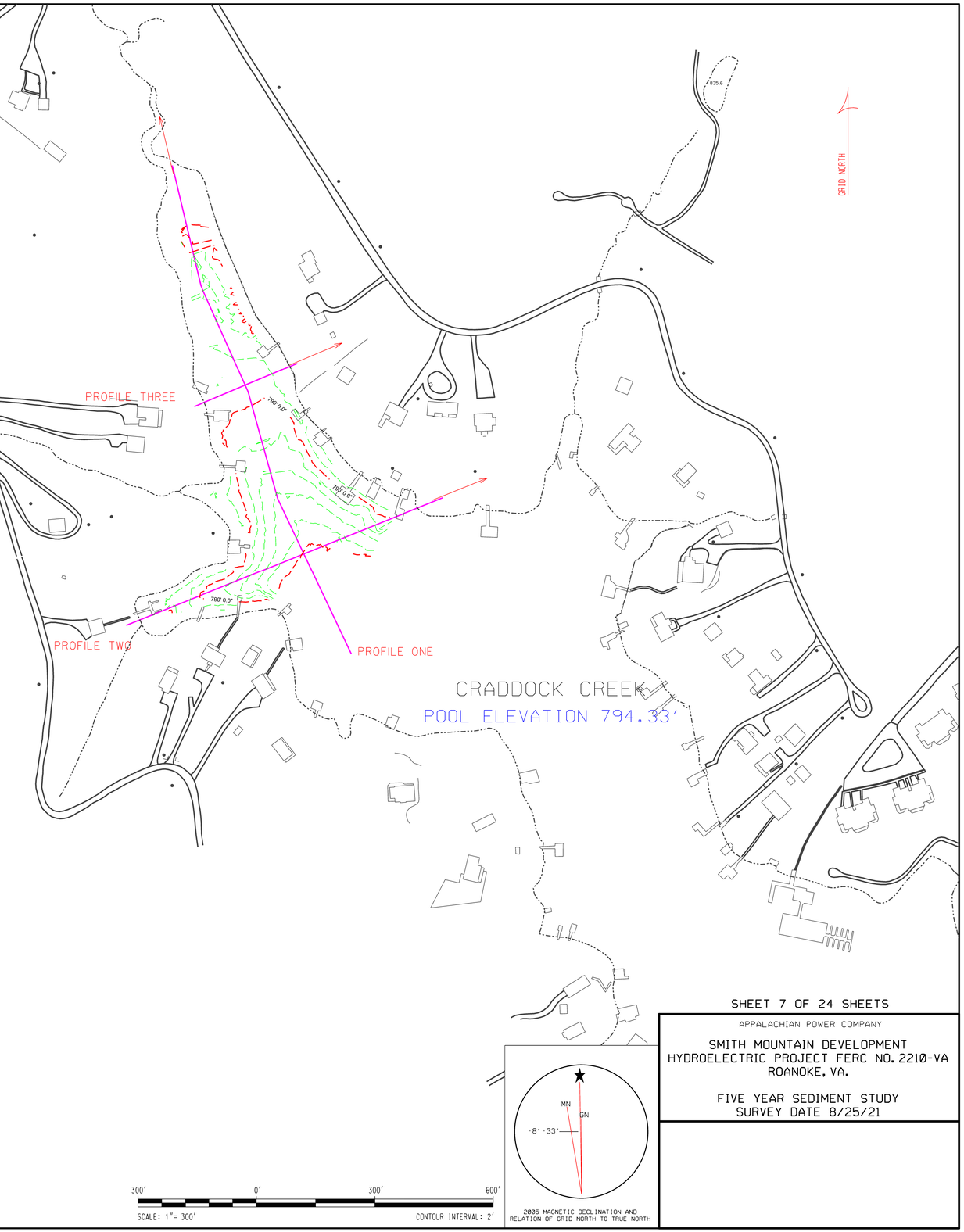
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.33	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.



300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'

2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 7 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 8/25/21

GRID NORTH

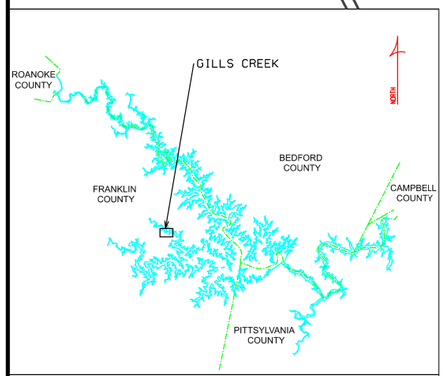
PROFILE ONE

PROFILE TWO

PROFILE THREE

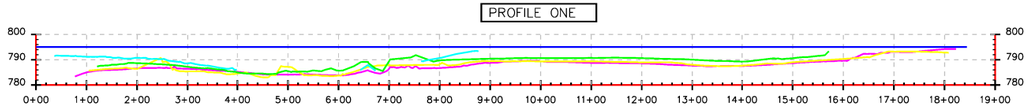
GILLS CREEK

POOL ELEVATION 794.73'



LOCATION KEY

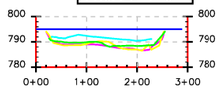
PROFILE ONE



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 794.73		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE TWO

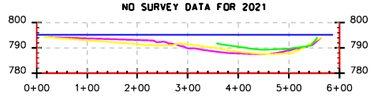


LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 794.73		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE

NO SURVEY DATA FOR 2021



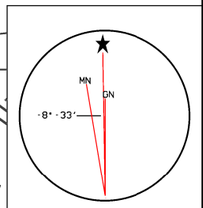
LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 794.73		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 8 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 8/24/21

GRID NORTH

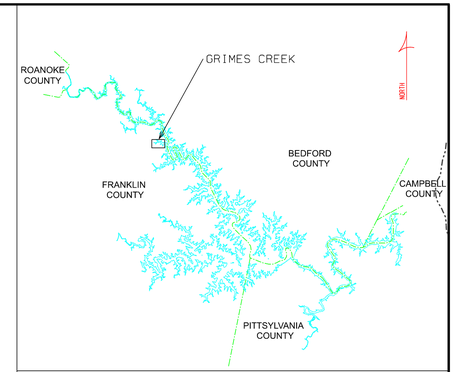
PROFILE TWO

PROFILE ONE

PROFILE THREE

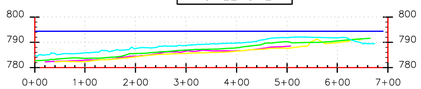
GRIMES CREEK

POOL ELEVATION 794.43'



LOCATION KEY

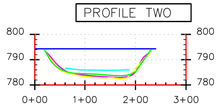
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.43	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

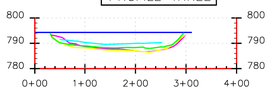
PROFILE TWO



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.43	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



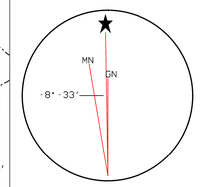
LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.43	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 9 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 9/14/21


HALES FORD BOAT LAUNCH
POOL ELEVATION 794.03'
LOCATION KEY
HALES FORD BOAT LAUNCH
ROANOKE COUNTY
BEDFORD COUNTY
FRANKLIN COUNTY
CAMPBELL COUNTY
PITTSYLVANIA COUNTY
NORTH
GRID NORTH
PROFILE ONE
PROFILE TWO
PROFILE THREE
765' 0.0"
775' 0.0"
785' 0.0"
770' 0.0"
775' 0.0"
780' 0.0"
785' 0.0"
780' 0.0"
790' 0.0"
785' 0.0"
PROFILE ONE
800 790 780 770 760 750 740
0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00
LINE SURFACE OFFSET
2005 BASE 0.00
2011 REVIEW 0.00
2016 REVIEW 0.00
2021 REVIEW 0.00
POOL 794.03 0.00
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.
PROFILE TWO
800 790 780 770 760 750
0+00 1+00 2+00 3+00 4+00 5+00 6+00
LINE SURFACE OFFSET
2005 BASE 0.00
2011 REVIEW 0.00
2016 REVIEW 0.00
2021 REVIEW 0.00
POOL 794.03 0.00
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.
PROFILE THREE
800 790 780 770
0+00 1+00 2+00 3+00 4+00
LINE SURFACE OFFSET
2005 BASE 0.00
2011 REVIEW 0.00
2016 REVIEW 0.00
2021 REVIEW 0.00
POOL 794.03 0.00
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.
300' 0' 300' 600'
SCALE: 1"= 300'
CONTOUR INTERVAL: 2'
MN
GN
-8°-33'
2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH
SHEET 10 OF 24 SHEETS
APPALACHIAN POWER COMPANY
SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.
FIVE YEAR SEDIMENT STUDY
SURVEY DATE 9/14/21

HARDY FORD BOAT LAUNCH

POOL ELEVATION 793.83'

GRID NORTH

PROFILE THREE

PROFILE TWO

PROFILE ONE

790' 0.0"

790' 0.0"

785' 0.0"

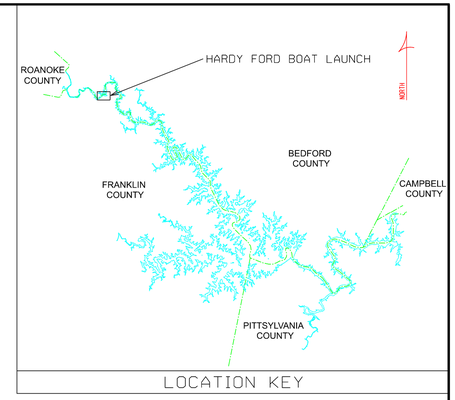
790' 0.0"

785' 0.0"

785' 0.0"

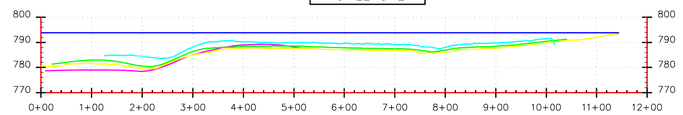
790' 0.0"

785' 0.0"



LOCATION KEY

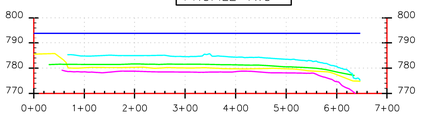
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 793.83	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

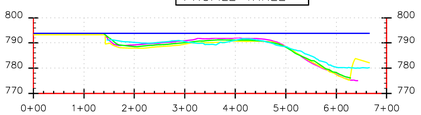
PROFILE TWO



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 793.83	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



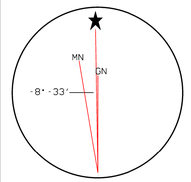
LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 793.83	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



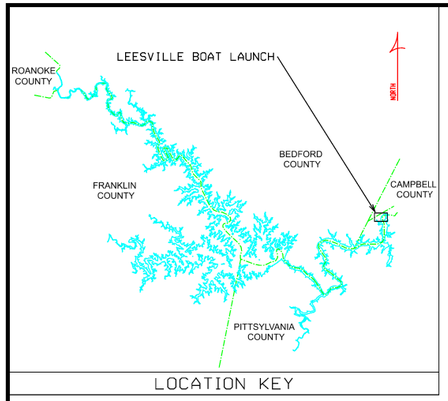
2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 11 OF 24 SHEETS

APPALACHIAN POWER COMPANY

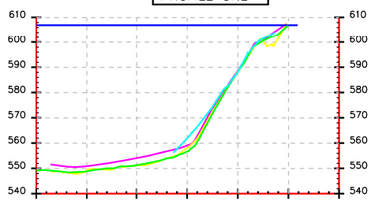
SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 9/16/21



LOCATION KEY

PROFILE ONE

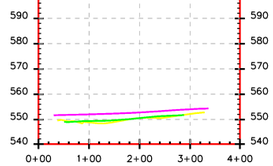


LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 606.93		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE TWO

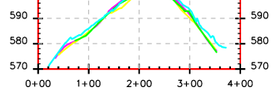
NO 2021 SURVEY DATA AVAILABLE



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 606.93		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 606.93		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

GRID NORTH

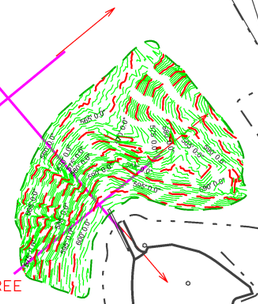
LEESVILLE BOAT LAUNCH

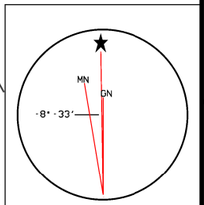
POOL ELEVATION 606.93'

PROFILE ONE

PROFILE TWO

PROFILE THREE





2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'

SHEET 12 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 09/15/21

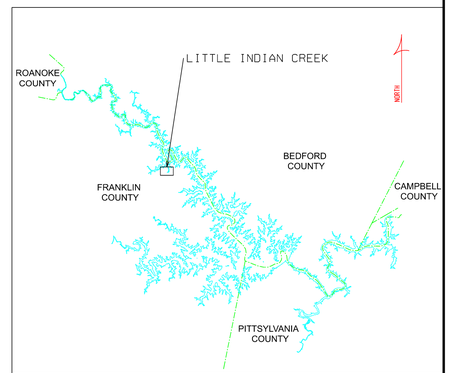
PROFILE ONE

PROFILE TWO

PROFILE THREE

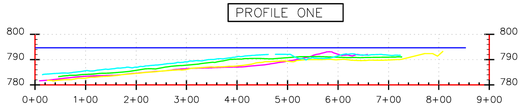
LITTLE INDIAN CREEK

POOL ELEVATION 794.53'



LOCATION KEY

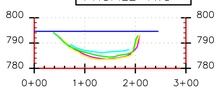
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2016 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

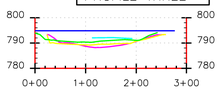
PROFILE TWO



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2016 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



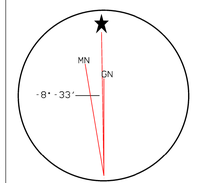
LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2016 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

GRID NORTH

300' 0' 300' 600'

SCALE: 1"= 300' CONTOUR INTERVAL: 2'



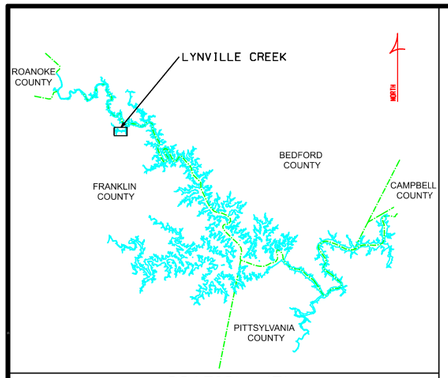
2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 13 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 09/14/21



LOCATION KEY

GRID NORTH

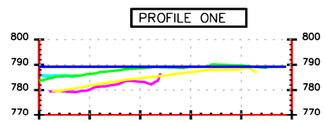
PROFILE ONE

PROFILE TWO

PROFILE THREE

LYNVILLE CREEK

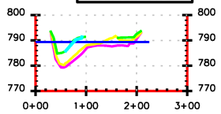
POOL ELEVATION 788.50'



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 788.50	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE TWO

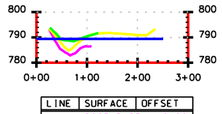


LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 788.50	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE

NO 2021 SURVEY DATA AVAILABLE



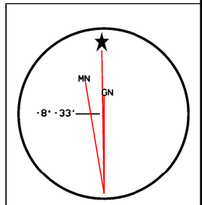
LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 788.50	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



2025 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 14 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE SEPT. 16, 2021.

GRID NORTH

PROFILE ONE

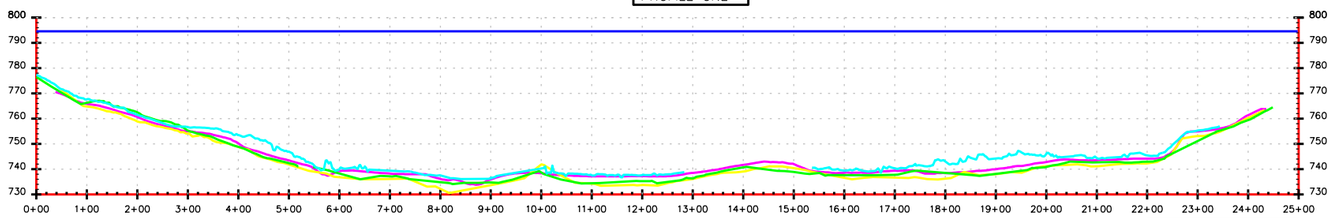
PROFILE TWO

PROFILE THREE

MARINERS LANDING

POOL ELEVATION 794.43'

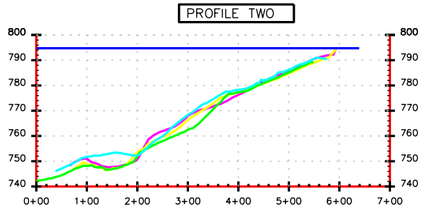
PROFILE ONE



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 794.31		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

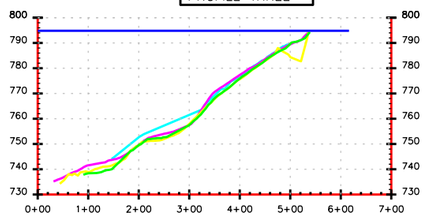
PROFILE TWO



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 794.31		0.00

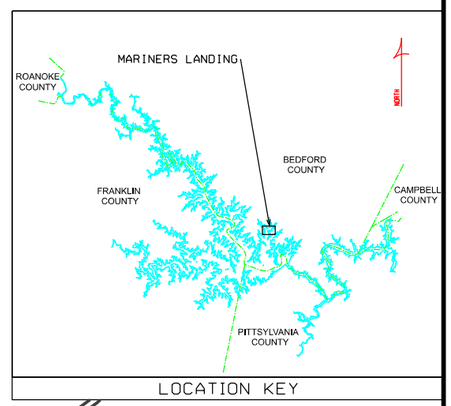
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 794.31		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

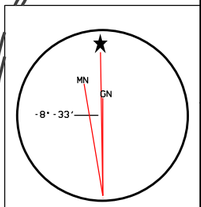


LOCATION KEY

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 15 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

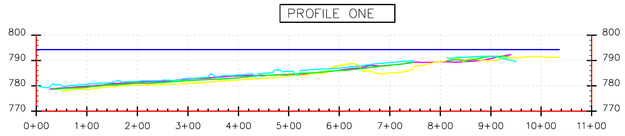
FIVE YEAR SEDIMENT STUDY
SURVEY DATE 08/25/21

MITCHELLS COVE
POOL ELEVATION 794.13'

PROFILE THREE

PROFILE TWO

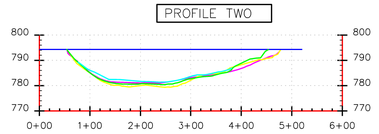
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.13	0.00

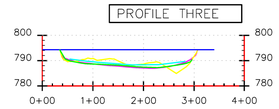
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

GRID NORTH



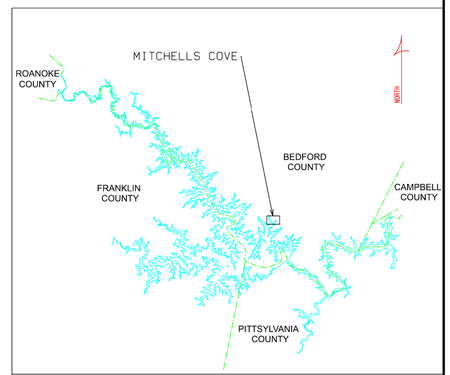
LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.13	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.13	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

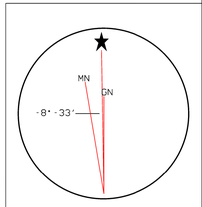


LOCATION KEY

300' 0' 300' 600'

SCALE: 1" = 300'

CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 16 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 08/25/21

GRID NORTH

PROFILE ONE

PROFILE TWO

PROFILE THREE

MYERS CREEK BOAT LAUNCH

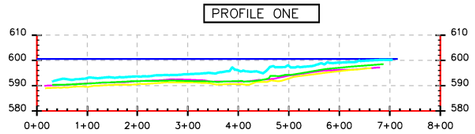
NORTH

LOCATION KEY

MYERS CREEK BOAT LAUNCH

POOL ELEVATION 600.50'

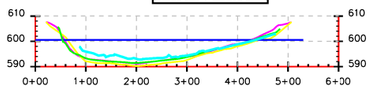
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 600.50	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

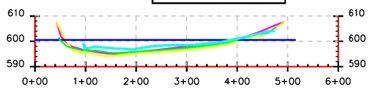
PROFILE TWO



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 600.50	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 600.50	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'

MN GN

-8° 33'

2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 17 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE SEPT. 15, 2021

GRID NORTH

PROFILE ONE

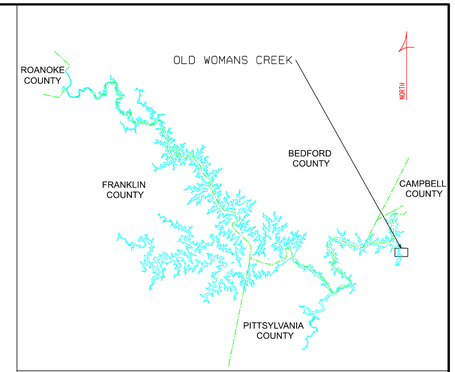
PROFILE TWO

PROFILE THREE

600' 0.0"

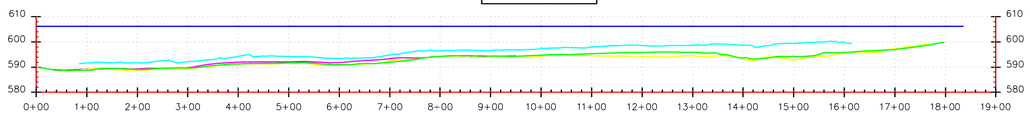
OLD WOMANS CREEK

POOL ELEVATION 606.03'



LOCATION KEY

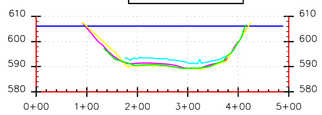
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 606.03	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

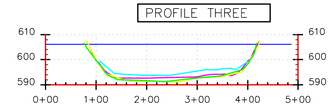
PROFILE TWO



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 606.03	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



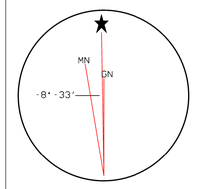
LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 606.03	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



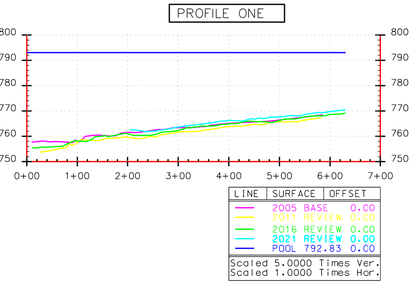
2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

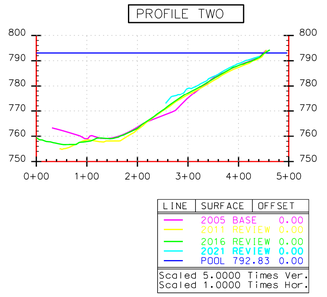
SHEET 18 OF 24 SHEETS

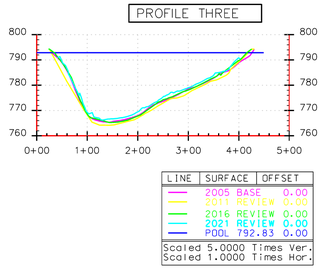
APPALACHIAN POWER COMPANY

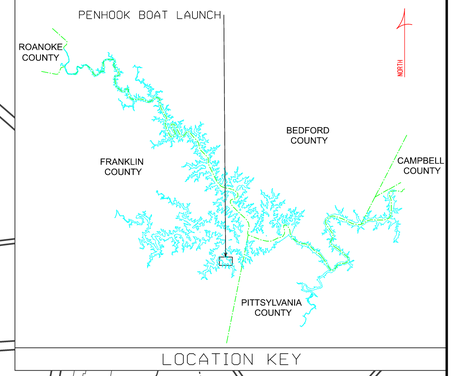
SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 09/15/21









PENHOOK BOAT LAUNCH
POOL ELEVATION 792.83'

PROFILE ONE

PROFILE TWO

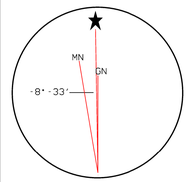
PROFILE THREE

GRID NORTH

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

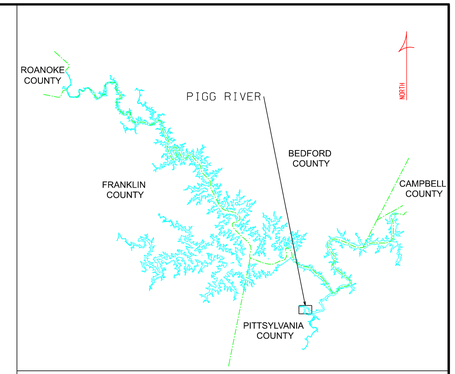
SHEET 19 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 08/24/21

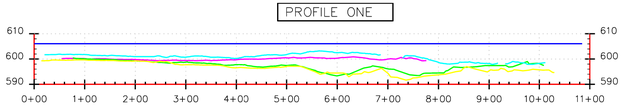
GRID NORTH



LOCATION KEY

PIGG RIVER
POOL ELEVATION 606.33'

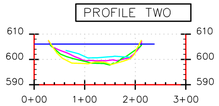
PROFILE ONE



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 606.33		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

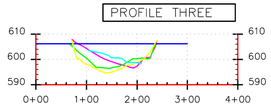
PROFILE TWO



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 606.33		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 606.33		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

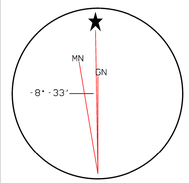
PROFILE THREE

PROFILE TWO

PROFILE ONE

300' 0' 300' 600'

SCALE: 1"= 300' CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

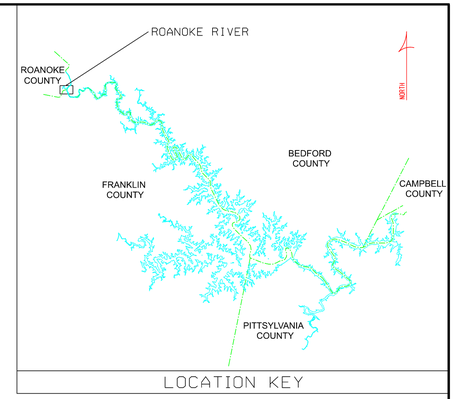
SHEET 20 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 09/15/21

GRID NORTH



LOCATION KEY

ROANOKE RIVER

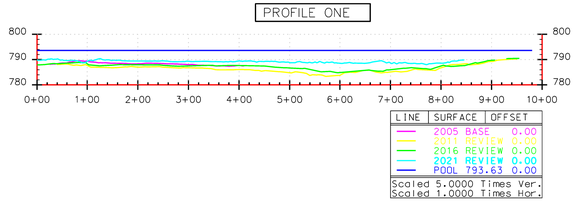
POOL ELEVATION 793.63'

PROFILE THREE

PROFILE TWO

PROFILE ONE

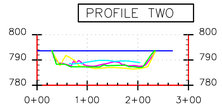
PROFILE ONE



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 793.63		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

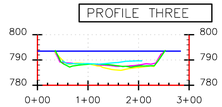
PROFILE TWO



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 793.63		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



LINE	SURFACE	OFFSET
2005 BASE		0.00
2011 REVIEW		0.00
2016 REVIEW		0.00
2021 REVIEW		0.00
POOL 793.63		0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

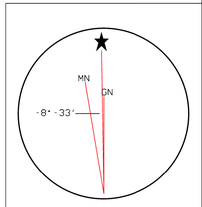
823

823

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



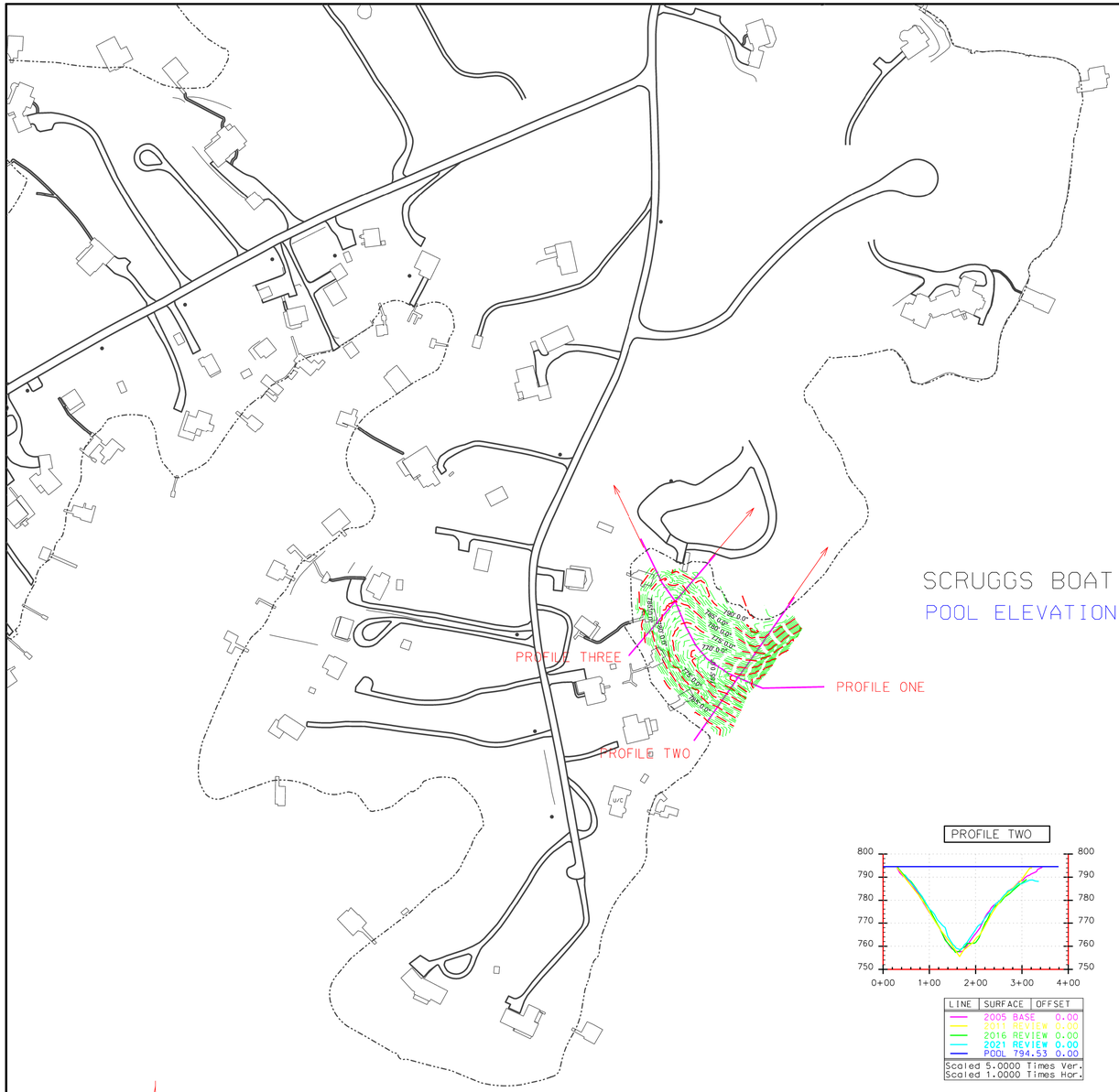
2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 21 OF 24 SHEETS

APPALACHIAN POWER COMPANY

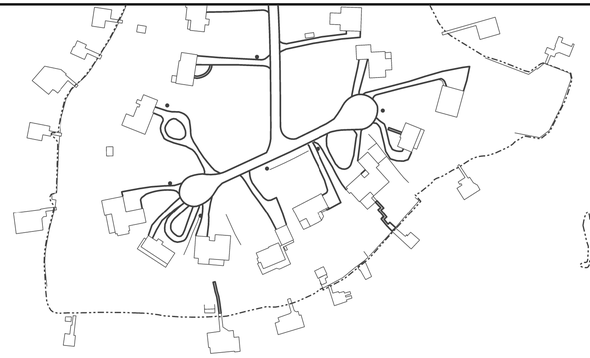
SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

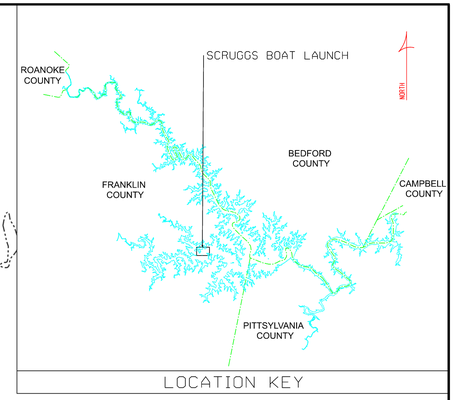
FIVE YEAR SEDIMENT STUDY
SURVEY DATE 9/16/21



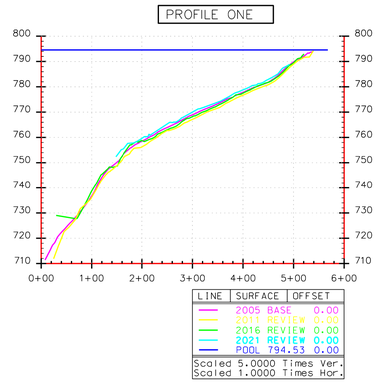
SCRUGGS BOAT LAUNCH

POOL ELEVATION 794.53'





LOCATION KEY

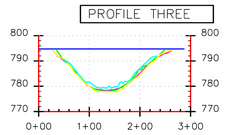


LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

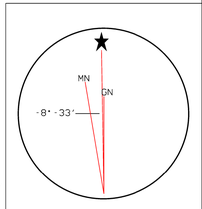


LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.53	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

300' 0' 300' 600'

SCALE: 1"= 300' CONTOUR INTERVAL: 2'



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 22 OF 24 SHEETS

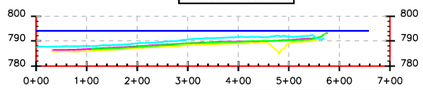
APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 08/25/21

GRID NORTH

PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.33	0.00

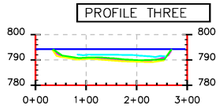
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE TWO

LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.33	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.33	0.00

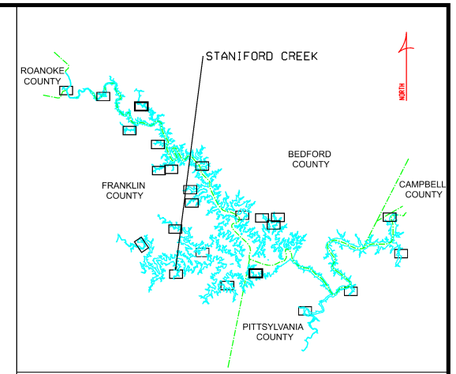
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

STANDIFORD CREEK
POOL ELEVATION 794.33'

PROFILE ONE

PROFILE TWO

PROFILE THREE

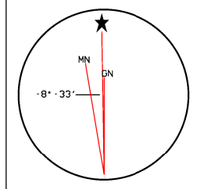


LOCATION KEY

300' 0' 300' 600'

SCALE: 1"= 300'

CONTOUR INTERVAL: 2'



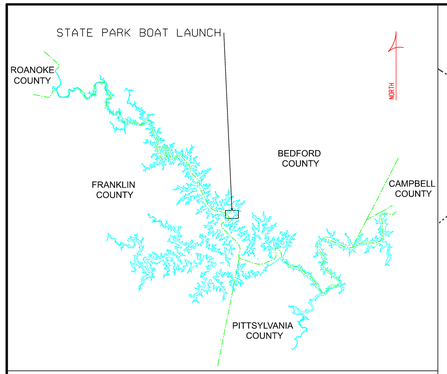
2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

SHEET 23 OF 24 SHEETS

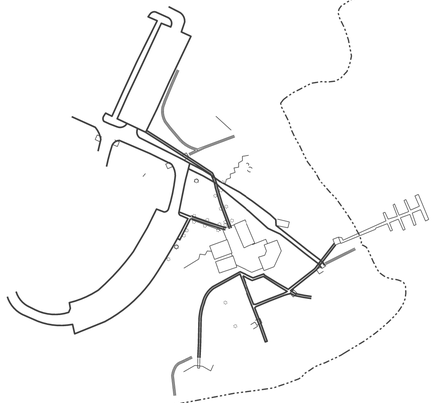
APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 08/25/21

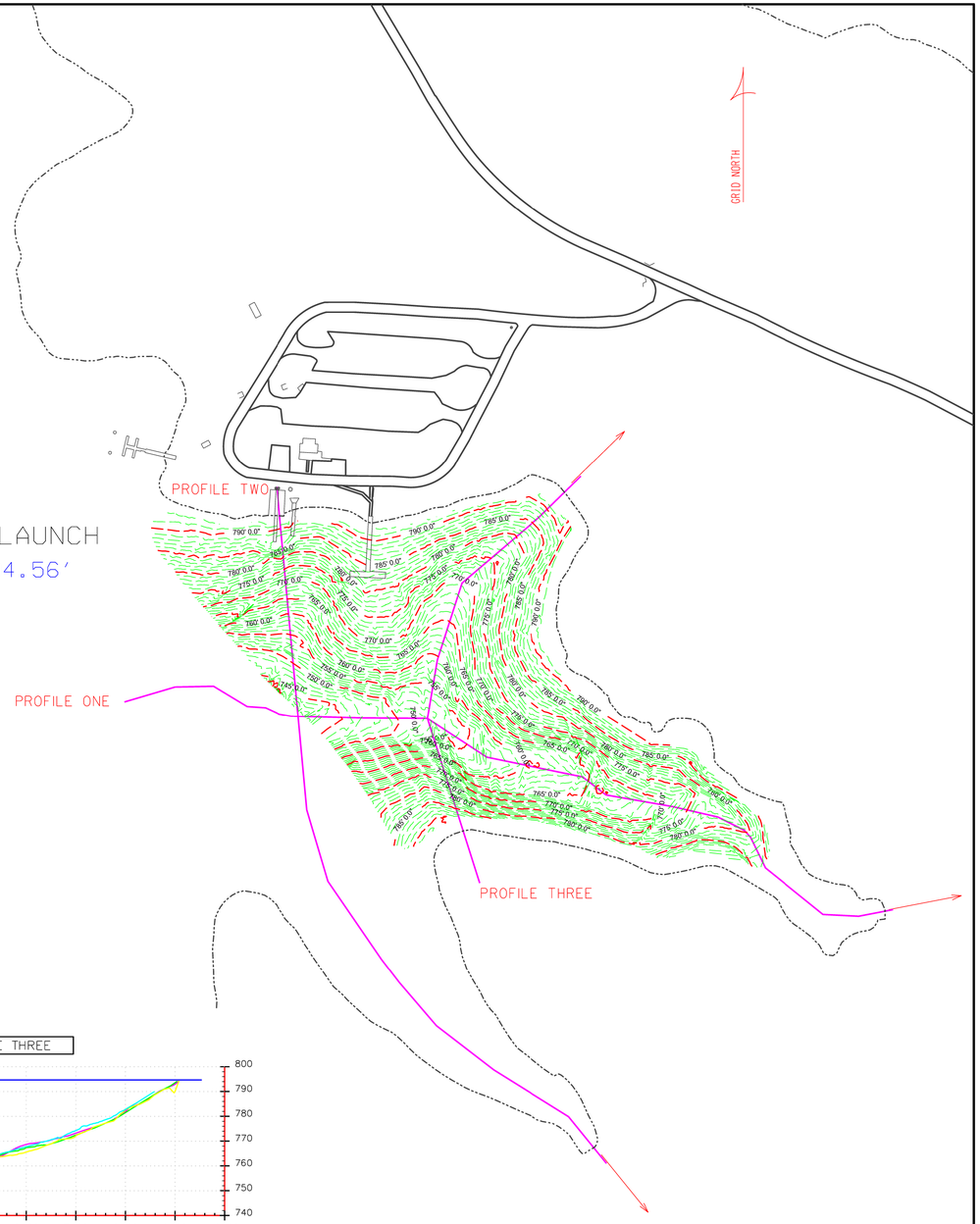


LOCATION KEY

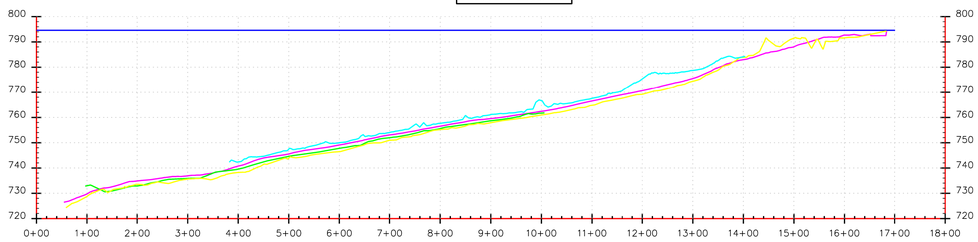


STATE PARK BOAT LAUNCH

POOL ELEVATION 794.56'



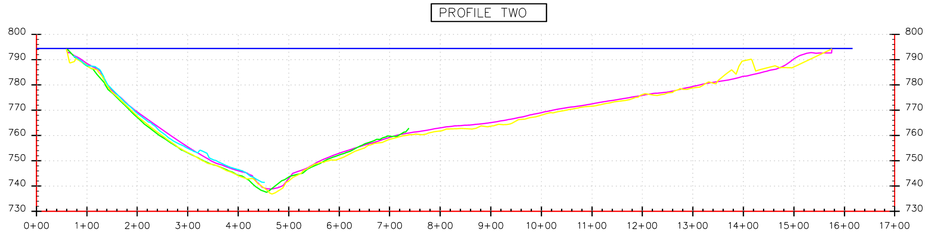
PROFILE ONE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.56	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

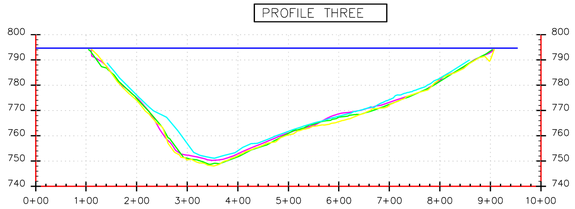
PROFILE TWO



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.56	0.00

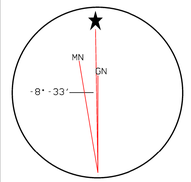
Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.

PROFILE THREE



LINE	SURFACE	OFFSET
	2005 BASE	0.00
	2011 REVIEW	0.00
	2016 REVIEW	0.00
	2021 REVIEW	0.00
	POOL 794.56	0.00

Scaled 5.0000 Times Ver.
Scaled 1.0000 Times Hor.



2005 MAGNETIC DECLINATION AND RELATION OF GRID NORTH TO TRUE NORTH

300' 0' 300' 600'

SCALE: 1" = 300'

CONTOUR INTERVAL: 2'

SHEET 24 OF 24 SHEETS

APPALACHIAN POWER COMPANY

SMITH MOUNTAIN DEVELOPMENT
HYDROELECTRIC PROJECT FERC NO. 2210-VA
ROANOKE, VA.

FIVE YEAR SEDIMENT STUDY
SURVEY DATE 09/14/21

APPENDIX B

Consultation

Revised Draft 2021 Five-Year Sedimentation Survey Report Consultation

Edward S Brennan

From: rsandersva@verizon.net
Sent: Monday, October 30, 2023 2:06 PM
To: Edward S Brennan
Subject: [EXTERNAL] Re: Revised Draft 2021 Smith Mountain Project Sedimentation Survey Report

No further comment from SMLA.

Thank you,
Rob Sanders

On Saturday, September 30, 2023 at 05:38:59 PM EDT, Edward S Brennan <esbrennan@aep.com> wrote:

Dear Erosion/Sedimentation Technical Review Committee,

The Draft 2021 Smith Mountain Project Sedimentation Survey Report was sent to the Aids to Navigation, Aquatic Vegetation, Habitat, Recreation, and Water Quality Technical Review Committee (TRC) representatives for 30-day review and comment on August 31, 2023. Appalachian Power Company (Appalachian) received replies (via email) from the Virginia Department of Wildlife Resources, the Virginia Cooperative Extension, the Virginia Department of Conservation and Recreation, and Dr. Heck that they had no comments on the draft report. Appalachian received comments (via email attachment) from the Leesville Lake Association (attached) and the Tri-County Lakes Administrative Commission (attached). These comments do not require specific revisions to the draft report. Appalachian also received comments (via email attachment) from the Smith Mountain Lake Association (SMLA) (attached). The SMLA comments were extensive and speak to relation of the *Sedimentation Monitoring Plan* to other Project plans, survey methodologies, report format and content, data gaps, etc. [Note that Appalachian also received comments (via email attachment) from an individual who is not a TRC representative. Appalachian will address the consultation requirements in the *Sedimentation Monitoring Plan* with the individual.]

The Revised Draft 2021 Smith Mountain Project Sedimentation Survey Report will be made available to you via a separate email that includes a link to download the report. The report has been revised to address SMLA's comments regarding data gaps, as well as adding the above information on the comments received on the first draft report. The revisions are denoted in red font. With respect to other comments by the SMLA, the 2021 sedimentation survey report is: 1) consistent in format and content with the prior 5-year sedimentation survey report filed with the Federal Energy Regulatory Commission (FERC) on May 5, 2017; and, 2) meets the reporting requirements of the FERC-approved *Sedimentation Monitoring Plan*. In addition, the profiles presented in the report are consistent with conventional practice, where elevation (in feet) is the vertical/*y*-axis and transect station is denoted as 0+00 (representing the point of origin), 1+00 (representing 100 feet in lateral distance

along the transect from the point of origin), etc. on the horizontal/*x*-axis. The processes of erosion and sedimentation are dynamic. As such, each profile represents a "snapshot" in time. Therefore, comparisons of the 2021 profiles to those from prior years discussed in the draft report speak qualitatively to general trends/differences (e.g., negligible, significant, etc.) regarding any given profile.

Appalachian staff members are aware of and understand the concerns of the Smith Mountain Lake and Leesville Lake communities with respect to sedimentation. There may, however, be misunderstanding/misinterpretation of historical findings, which are summarized under **Background** in the *Sedimentation Monitoring Plan*, as well as Appalachian's responsibilities under the plan.

As stated in the plan, "The Sedimentation Study determined that Project operation is not the primary source of sediment coming into the reservoirs.", referring to the study conducted in 2007 as part of the relicensing of the Smith Mountain Project (as is also stated in the plan). This finding has not changed and, in fact, the sedimentation profiles bear that out. Namely, that the furthest upstream survey locations in the Roanoke River, Blackwater River, and Pigg River, as well as several smaller tributaries to the Project (e.g., Lynville Creek) correspond with locations where the greatest sediment deposition has occurred and continues to occur. This continued finding demonstrates that the source of the sediment loading to the Project is from upstream areas throughout the watershed. These sediments are transported in the rivers and creeks, particularly during periods of higher flow velocities, and are deposited in areas where the rivers and streams meet the lakes (i.e., their mouths) and flow velocities are dramatically reduced and the carrying capacity of the rivers and creeks are simultaneously decreased. Appalachian has no purview over erosion or stormwater control/management outside of the Project nor above the 800-foot and 620-foot elevation contours at Smith Mountain Lake and Leesville Lake, respectively. It is Appalachian's understanding that the counties and the Virginia Department of Environmental Quality do have regulations and enforcement actions regarding erosion, sedimentation, and stormwater management. Likewise, Appalachian has no purview over the operation of watercraft at the Project, which do cause waves that contribute shoreline erosion and subsequent sediment deposition.

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Sincerely,

Ed Brennan

EDWARD S BRENNAN | **PLANT ENVIRONMENTAL COORD PRIN**
ESBRENNAN@AEP.COM | D:540.985.2984
40 FRANKLIN ROAD SW, ROANOKE, VA 24011

Edward S Brennan

From: ksage.tlac@sml.us.com
Sent: Monday, October 2, 2023 2:56 PM
To: Edward S Brennan; rsandersva@verizon.net; president@leesvillelake.org; crpoindex@embarqmail.com; riverbluffva@gmail.com; William.Raney@franklincountyva.gov; k.leamy@bedfordcountyva.gov; BRStokes@co.campbell.va.us; greg.sides@pittgov.org; dheck@ferrum.edu; Dan.Wilson@dwr.virginia.gov; mike.vanlandingham@dcr.virginia.gov; Elizabeth.Gallup@deq.virginia.gov; ksmith@brswcd.org; tcposwcd@shentel.net; Jonathan.wooldridge@releeconservation.com; pittsswcd@yahoo.com; Elizabeth B Parcell
Cc: Elizabeth B Parcell
Subject: [EXTERNAL] RE: File('Revised Draft 2021 Sedimentation Survey Report to E-S TRC_09-30-2023.pdf') from AEP is ready to download

Hello Ed,

With the change being made to the Penhook Boat Ramp summary, TLAC has no further comment on the Revised Draft 2021 Sedimentation Survey Report.

Best regards,

Kristina Sage
Executive Director
Tri-County Lakes Administrative Commission
400 Scruggs Road, Suite 200
Moneta, VA 24121
(540) 721-4400

-----Original Message-----
From: esbrennan@aep.com <esbrennan@aep.com>
Sent: Saturday, September 30, 2023 5:54 PM
To: ksage.tlac@sml.us.com; rsandersva@verizon.net; president@leesvillelake.org; crpoindex@embarqmail.com; riverbluffva@gmail.com; William.Raney@franklincountyva.gov; k.leamy@bedfordcountyva.gov; BRStokes@co.campbell.va.us; greg.sides@pittgov.org; dheck@ferrum.edu; Dan.Wilson@dwr.virginia.gov; mike.vanlandingham@dcr.virginia.gov; Elizabeth.Gallup@deq.virginia.gov; ksmith@brswcd.org; tcposwcd@shentel.net; Jonathan.wooldridge@releeconservation.com; pittsswcd@yahoo.com; ebparcell@aep.com; esbrennan@aep.com
Cc: ebparcell@aep.com
Subject: File('Revised Draft 2021 Sedimentation Survey Report to E-S TRC_09-30-2023.pdf') from AEP is ready to download

Use the link below to download your file. The file is available until 10/03/2023.

https://p2p.aep.com:443/AEPLargeFile/fileDownload.dsp?isEncrypted=true&isEnSet=true&fileStage=3&fileName=Yx95aJXFi1HWvBcaRiiV%2FC9DgePk1zYX2WFMj26Qyd%2BMZD10dBJxTIQ6H0uEwCv0DRdw%2BHOygO90%0D%0AFWS8ZD1ovFaLDSSaZoLPl%2BmaluB6dABNhUk76M0aoQ%3D%3D&fop=812d9d7119c640e6951192a8231ad6795&version=v2

File Size = 30616 kb

Comments: Dear Smith Mountain Project Erosion/Sedimentation Technical Review Committee Representative,

Please find a below link that will allow you to download the Revised Draft 2021 Smith Mountain Project Sedimentation Survey Report. Please provide me with your review comments by October 30, 2023. Please respond even if you have no comments. Kindly "Reply All" with your response at your earliest convenience to allow the maximum amount of time to prepare the final report to be filed with the Federal Energy Regulatory Commission. [Note that several of you are the representative for multiple TRCs and received the first draft for review and comment. Please respond if you have no additional comments to those you provided on the first draft report.]

NOTE THAT THE BELOW LINK ONLY REMAINS ACTIVE FOR 3 DAYS DUE TO SECURITY RESTRICTIONS

Sincerely,

Ed Brennan
American Electric Power

(This note processed by "p2p.aep.com")

Edward S Brennan

From: Edward S Brennan
Sent: Monday, October 2, 2023 10:33 AM
To: rsandersva; ksage.tlac@sml.us.com; president@leesvillelake.org; crpoindex@embarqmail.com; riverbluffva@gmail.com; Raney, William; k.leamy@bedfordcountyva.gov; BRStokes@co.campbell.va.us; greg.sides@pittgov.org; dheck@ferrum.edu; Dan.wilson@dwr.virginia.gov; Mike.Vanlandingham@dcr.virginia.gov; Gallup, Elizabeth (DEQ); ksmith@brswcd.org; Tracy Culbertson; Jonathan.wooldridge@releeconservation.com; pittsswcd@yahoo.com
Cc: Elizabeth B Parcell
Subject: RE: [EXTERNAL] RE: Revised Draft 2021 Smith Mountain Project Sedimentation Survey Report

Rob,

I sent a separate email with a link to download the revised draft report and that email stated that comments on the revised draft are due by October 30, 2023 (see the first sentence of the second paragraph of my below email).

In Appendix B of the revised report, I only included your email dated September 27, 2023 since I attached your/LLA's comments to my below email. But you can be assured that your/LLA's comments (along with your email) will be included as written in the final report to be filed with the Federal Energy Regulatory Commission.

All,

Note that there was one edit missed in the revised report. On page 4, under *Penhook Boat Launch*, "Hardy Ford" should be replaced with "Penhook". I have marked that edit for the final report.

Again, kindly provide me with a reply with your review comments on the revised report (even if you have no comments) at your earliest convenience, and please "Reply All" (to the separate email with the download link) so that everyone may have the benefit of your comments.

Thank you,

Ed

AMERICAN ELECTRIC POWER
EDWARD S BRENNAN | **PLANT ENVIRONMENTAL COORD PRIN**
ESBRENNAN@AEP.COM | D:540.985.2984
40 FRANKLIN ROAD SW, ROANOKE, VA 24011

From: rsandersva <rsandersva@verizon.net>
Sent: Sunday, October 1, 2023 9:12 AM
To: Edward S Brennan <esbrennan@aep.com>; ksage.tlac@sml.us.com; president@leesvillelake.org;

crpoindex@embarqmail.com; riverbluffva@gmail.com; Raney, William <William.Raney@franklincountyva.gov>; k.leamy@bedfordcountyva.gov; BRStokes@co.campbell.va.us; greg.sides@pittgov.org; dheck@ferrum.edu; Dan.wilson@dwr.virginia.gov; Mike.Vanlandingham@dcr.virginia.gov; Gallup, Elizabeth (DEQ) <Elizabeth.Gallup@deq.virginia.gov>; ksmith@brswcd.org; Tracy Culbertson <tcposwcd@shentel.net>; Jonathan.wooldridge@releeconservation.com; pittsswcd@yahoo.com
Cc: Elizabeth B Parcell <ebparcell@aep.com>
Subject: [EXTERNAL] RE: Revised Draft 2021 Smith Mountain Project Sedimentation Survey Report

Ed,

Thank you for getting this turned around so quickly.

Your email does not state whether or not the second 30-day review period has begun.

I am also concerned that my full comments were not included in the consultation section. You included my email stating comments were attached, but there were no comments shown. I appreciate your comments in this email, but my comments, on behalf of SMLA, are part of the consultation. Will they be added, as written, prior to submission?

Rob Sanders

Sent from my Verizon, Samsung Galaxy smartphone

-------- Original message --------
From: Edward S Brennan <esbrennan@aep.com>
Date: 9/30/23 5:38 PM (GMT-05:00)
To: ksage.tlac@sml.us.com, rsandersva@verizon.net, president@leesvillelake.org, crpoindex@embarqmail.com, riverbluffva@gmail.com, "Raney, William" <William.Raney@franklincountyva.gov>, k.leamy@bedfordcountyva.gov, BRStokes@co.campbell.va.us, greg.sides@pittgov.org, dheck@ferrum.edu, "Dan.wilson@dwr.virginia.gov" <Dan.Wilson@dwr.virginia.gov>, "Mike.Vanlandingham@dcr.virginia.gov" <mike.vanlandingham@dcr.virginia.gov>, "Gallup, Elizabeth (DEQ)" <Elizabeth.Gallup@deq.virginia.gov>, ksmith@brswcd.org, Tracy Culbertson <tcposwcd@shentel.net>, Jonathan.wooldridge@releeconservation.com, pittsswcd@yahoo.com
Cc: Elizabeth B Parcell <ebparcell@aep.com>
Subject: Revised Draft 2021 Smith Mountain Project Sedimentation Survey Report

Dear Erosion/Sedimentation Technical Review Committee,

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comments on the draft report. Appalachian received comments (via email attachment) from the Leesville Lake Association (attached) and the Tri-County Lakes Administrative Commission (attached). These comments do not require specific revisions to the draft report. Appalachian also received comments (via email attachment) from the Smith Mountain Lake Association (SMLA) (attached). The SMLA comments were extensive and speak to relation of the *Sedimentation Monitoring Plan* to other Project plans, survey methodologies, report format and content, data gaps, etc. [Note that Appalachian also received comments (via email attachment) from an individual who is not a TRC representative. Appalachian will address the consultation requirements in the *Sedimentation Monitoring Plan* with the individual.]

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Appalachian staff members are aware of and understand the concerns of the Smith Mountain Lake and Leesville Lake communities with respect to sedimentation. There may, however, be misunderstanding/misinterpretation of historical findings, which are summarized under **Background** in the *Sedimentation Monitoring Plan*, as well as Appalachian's responsibilities under the plan.

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Sincerely,

Ed Brennan

AMERICAN ELECTRIC POWER

EDWARD S BRENNAN | **PLANT ENVIRONMENTAL COORD PRIN**
ESBRENNAN@AEP.COM | D:540.985.2984
40 FRANKLIN ROAD SW, ROANOKE, VA 24011

Edward S Brennan

From: ksage.tlac@sml.us.com
Sent: Monday, October 2, 2023 9:45 AM
To: Edward S Brennan
Subject: [EXTERNAL] RE: File('Revised Draft 2021 Sedimentation Survey Report to E-S TRC_ 09-30-2023.pdf') from AEP is ready to download

Good morning Ed,

Thank you for the prompt turn-around of the Sedimentation Survey Report.
One note of a change to be made in the summary for Penhook Boat Launch, the Hardy Ford Boat Launch is still referenced.

With best regards,

Kristina Sage
Executive Director
Tri-County Lakes Administrative Commission
400 Scruggs Road, Suite 200
Moneta, VA 24121
(540) 721-4400

-----Original Message-----
From: esbrennan@aep.com <esbrennan@aep.com>
Sent: Saturday, September 30, 2023 5:54 PM
To: ksage.tlac@sml.us.com; rsandersva@verizon.net; president@leesvillelake.org; crpoindex@embarqmail.com; riverbluffva@gmail.com; William.Raney@franklincountyva.gov; k.leamy@bedfordcountyva.gov; BRStokes@co.campbell.va.us; greg.sides@pittgov.org; dheck@ferrum.edu; Dan.Wilson@dwr.virginia.gov; mike.vanlandingham@dcr.virginia.gov; Elizabeth.Gallup@deq.virginia.gov; ksmith@brswcd.org; tcposwcd@shentel.net; Jonathan.wooldridge@releeconservation.com; pittsswcd@yahoo.com; ebparcell@aep.com; esbrennan@aep.com
Cc: ebparcell@aep.com
Subject: File('Revised Draft 2021 Sedimentation Survey Report to E-S TRC_09-30-2023.pdf') from AEP is ready to download

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https://p2p.aep.com:443/AEPLargeFile/fileDownload.dsp?isEncrypted=true&isEnSet=true&fileStage=3&fileName=Yx95aJXFi1HWvBcaRiiV%2FC9DgePk1zYX2WFMj26Qyd%2BMZD10dBJxTIQ6H0uEwCv0DRdw%2BHOygO90%0D%0AFWS8ZD1ovFaLDSSaZoLPl%2BmaluB6dABNhUk76M0aoQ%3D%3D&fop=812d9d7119c640e6951192a8231ad6795&version=v2

File Size = 30616 kb

Comments: Dear Smith Mountain Project Erosion/Sedimentation Technical Review Committee Representative,

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Sincerely,

Ed Brennan
American Electric Power

(This note processed by "p2p.aep.com")

Edward S Brennan

From: Edward S Brennan
Sent: Saturday, September 30, 2023 5:37 PM
To: ksage.tlac@sml.us.com; rsandersva@verizon.net; president@leesvillelake.org; crpoindex@embarqmail.com; riverbluffva@gmail.com; Raney, William; k.leamy@bedfordcountyva.gov; BRStokes@co.campbell.va.us; greg.sides@pittgov.org; dheck@ferrum.edu; Dan.wilson@dwr.virginia.gov; Mike.Vanlandingham@dcr.virginia.gov; Gallup, Elizabeth (DEQ); ksmith@brswcd.org; Tracy Culbertson; Jonathan.wooldridge@releeconservation.com; pittsswcd@yahoo.com
Cc: Elizabeth B Parcell
Subject: Revised Draft 2021 Smith Mountain Project Sedimentation Survey Report
Attachments: LLA comments_09-15-2023.pdf; TLAC comments_09-22-2023.pdf; SMLA review comments_RSanders.pdf

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Sincerely,

Ed Brennan

AMERICAN ELECTRIC POWER

EDWARD S BRENNAN | **PLANT ENVIRONMENTAL COORD PRIN**
ESBRENNAN@AEP.COM | D:540.985.2984
40 FRANKLIN ROAD SW, ROANOKE, VA 24011

Draft 2021 Five-Year Sedimentation Survey Report Consultation

Edward S Brennan

From: rsandersva@verizon.net
Sent: Wednesday, September 27, 2023 9:50 AM
To: ksage.tlac@sml.us.com; smlstow@gmail.com; lakestersml@gmail.com; davidbg63 @gmail.com; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; bod1@leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; shahady@lynchburg.edu; dheck@ferrum.edu; chiefcompany11@gmail.com; mwbarrow@vt.edu; timothy.dooley@dwr.virginia.gov; pete.schula@dwr.virginia.gov; dan.wilson@dwr.virginia.gov; james.slaughter@dwr.virginia.gov; mike.vanlandingham@dcr.virginia.gov; brian.heft@dcr.virginia.gov; elizabeth.gallup@deq.virginia.gov; mary.dail@deq.virginia.gov; george.devlin@deq.virginia.gov; roger.kirchen@dhr.virginia.gov; larry.nichols@vdacs.virginia.gov; gale.w.howerton@uscg.mil; matthew.k.creelman2 @uscg.mil; Elizabeth B Parcell; Edward S Brennan
Subject: [EXTERNAL] Re: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download
Attachments: AEP 2021 Sedimentation Report-FINAL.pdf

Ed,

Attached are the comments from the Smith Mountain Lake Association.

Rob Sanders

On Thursday, August 31, 2023 at 04:24:11 PM EDT, <esbrennan@aep.com> wrote:

Use the link below to download your file. The file is available until 09/03/2023.
https://p2p.aep.com:443/AEPLargeFile/fileDownload.dsp?isEncrypted=true&isEnSet=true&fileStage=3&fileName=JUgLzpJH9O8vQ4Hj5Nc2F6SKVApOrCvUtJe%2FjTMF8FPBbDZxQw09EypXCrmUJxc%2Fm7TYdRkPYstw%0D%0AZms7PggUrZxwfUPw%2F%2BBLZuplo2MkTeo%3D&fop=2eb3fec805f34836b5c9a9566b6d47b88&version=v2

File Size = 23983 kb

Comments: Dear Smith Mountain Project Technical Review Committee Representative,

Please find a below link that will allow you to download the Draft 2021 Smith Mountain Project Sedimentation Survey Report. Please provide me with your review comments by September 30, 2023. Kindly "Reply All" with your response as soon as possible, even if you have no comments, to allow the maximum amount of time to prepare a revised draft report for the Erosion/Sedimentation TRC.

NOTE THAT THE BELOW LINK ONLY REMAINS ACTIVE FOR 3 DAYS DUE TO SECURITY RESTRICTIONS

Sincerely,

Ed Brennan
American Electric Power

(This note processed by "p2p.aep.com")

2021 Sedimentation Report Notes- Smith Mountain Lake Association

Compiled by Rob Sanders

Sedimentation Monitoring Plan Relationship to Other Appalachian Operational Plans

The FERC license that permits Appalachian to operate the Smith Mountain and Leesville Lakes project contains multiple articles that require Appalachian to monitor and research, and even to mitigate, impacts from project operations. Many of these articles require management plans and these plans are often interrelated and require cross-monitoring for appropriate adaptive management. The Sedimentation Monitoring Plan is one such plan, and other plans that reference or have alignment with this Plan are noted below. The significant consequences of unmitigated sedimentation should be considered by Appalachian and FERC with respect to the other management programs.

Aids to Navigation Plan

Section 10.7 Coordination with other Plans and Section 11 Consultation: The Aids to Navigation Technical Review Committee wasn't provided timely 5-year Sedimentation survey data so that information regarding changes in water depths has not been available for the past two years. The Aids to Navigation Plan states: "The Aids to Navigation Technical Review committee is to review any updated bathymetric data and monitor the development or relocation of shoals, in order to provide input on recommendations and proposed solutions." Without timely access to survey data, these recommendations cannot be made, and further degradation of navigable waterways has likely occurred.

In the Aid to Navigation Plan, Appalachian notes that "constant assessment of water levels, exposed shoals, and monitoring of new shoals that may be created as a result of sedimentation" represents a challenge. Appalachian identified a hybrid approach to marking a defined waterway navigable under the various water levels and for identifying obstructions. The Aid to Navigation Plan requires maintenance of these marks so that mariners are aware of safe travel routes under various water elevations. Without timely information about changing shoals and transport of sediment, safe navigation is compromised.

With regard to Gills Creek, the Upper Blackwater River and the Upper Roanoke River where sedimentation changes are noted to be the greatest since the 2016 survey, and in fact since Appalachian has been monitoring sedimentation it is likely today that the sedimentation levels have changed water levels even more and represent a current and ongoing danger to mariners.

Recreation Management Plan

The Appalachian Recreation Management Plan stated purpose is to "identify measures for enhancing public access to project lands and waters". Although the Recreation Management Plan focuses on specific recreational facilities which are within the Project Boundary, the stated intention to enhance access to the waters of the project should include access to the navigable waterways of the project. In Section 2.2.12 – ISLANDS, sedimentation is a factor to be used in evaluating how to minimize resource damage to project owned islands. By that measure, sedimentation that prevents access to navigable waters of the project must be addressed.

Unmitigated sedimentation will prevent the various stakeholders such as kayak/canoe users from utilizing blueways. Additionally, residents within the upper reaches are not able to access the project recreational waters from their docks.

Roanoke Logperch Plan

Article 408 of the Appalachian license requires that Appalachian assist in various initiatives to enhance and restore Roanoke Logperch in the Upper Roanoke watershed. Some of the initiatives suggested in the plan include

the identification of sedimentation sources in the Pigg River and potential mitigation of these sources. If sedimentation sources were of significant concern in 2008 when the plan was written, today with documented sedimentation at multiple locations throughout the upper reaches of the project, it stands to reason that Roanoke Logperch habitat that exists or areas where logperch may have been reintroduced do not currently function as suitable habitat.

Erosion Monitoring Plan

The Erosion Monitoring Plan requires similar monitoring as the Sediment Monitoring Plan, with 5-year surveys provided to Technical Review Committees for comments and adaptive management. The 2021 Erosion Survey has not been released. Information about project erosion must be considered when considering the impact on project operations of increased sedimentation. Without appropriate monitoring and reporting, it becomes more and more difficult to determine what forces are contributing to sedimentation or erosion within the project.

Additional Consequences of Unmitigated Sedimentation

A significant invasive species in North America, Japanese Knotweed (*Polygonum cuspidatum*) is appearing in riparian habitats across southern and central Virginia. This species of bamboo-like vegetation is documented to completely subsume stream banks in most freshwater wetland and stream habitats, particularly in areas of high sunlight. This species has already been noted in the tributaries of the Blackwater and Gills Creek, as well as the main Roanoke. The penchant for spread to unconsolidated sediments is enhanced by the tendency of this species to propagate when physically disturbed, e.g., cut. Even very small fragments of the plant can find purchase well downstream of original populations and regrow into dense, impenetrable stands. Control of this species, once established, is virtually impossible, short of heavy use of herbicides. The best defense against invasion by Japanese knotweed is to prevent the creation of its preferred habitat, the unconsolidated riverbank, and shoaled sediments, with full sunlight. The noted sedimentation increases in the upper reaches of the SML project are particularly suited for invasion by this plant, and once established, will continue to encroach into the main lake. The destruction of the natural riverbank habitat that is wrought by this species is permanent and significant, but the opportunity to reduce this invasion lies with the mitigation of new sediment islands in the upper reaches of the project.

<u>Delay in Meeting Requirements for Reporting Results of the Sedimentation Monitoring Plan</u>

Appalachian is required to submit a final report to the Commission within six months of the sedimentation survey. An internal review by Appalachian found that the 2021 report was not filed with FERC within six months of data collection.

Why was notice made by Appalachian to FERC, rather than FERC taking action when the report was not received prior to March 2022? The 2021 report is now 30 months overdue.

Appalachian writes “Due to staffing changes, Appalachian was not able to meet the granted filing deadline.”

What staffing changes impacted the production of the report prior to March 2022? What additional staffing changes impacted the production of the report when the June 30, 2023, deadline was granted and subsequently missed?

SMLA requested this report from Appalachian- through its Board of Directors member- numerous times and never received a response to those requests.

<u>Glossary of Terms</u>

The following terms are used throughout the document, but are never defined. Please provide quantitative definitions, where applicable, for the following qualitative terms:

- Negligible difference
- Slightly increased
- Increased sediment deposition
- Increased sediment scouring
- Same departure
- No difference
- Impact on project operations
- Main channel
- Operational limits of the reservoir pools

Methodology

The 2021 Five-Year Sedimentation Survey Report provides no information on the methodology and process used to conduct the survey. There is no mention of how the conclusions in the report were determined using the data collected.

What departures, if any, in data collection were there between the current year and prior surveys?

The 2021 Five-Year Sedimentation Survey Report is, supposedly, a scientifically-based technical document.

Why is there no indication of the personnel involved in the collection, review, and conclusions developed from this survey? What are the scientific degrees and/or training of the personnel involved in the production of the report? What, if any, secondary scientific review is made and by whom?

According to the written report (3.0- Results of the 2021 Five-Year Sedimentation Survey), "wherever the 2021 profiles terminate at different (i.e., shorter length) stations than prior year profiles or are absent, either the water depth was less than two feet (i.e., near-shore or other shallow locations) or profile length was far enough out into deeper water."

This comment appears to relieve Appalachian of collecting data for mere convenience rather than based on any scientific basis. In other words, Appalachian desires to compare apples to oranges rather than apples to apples. If water depth is "less than two feet," then the depth could be zero (due to collection of sedimentation). If the 2005 study was the starting point for data collection, should not all data collection events after the initial collection measure the same profiles regardless of depth of water? Sediment deposits that have exceeded pool elevation need to be noted as such.

Reporting Methods

The presentation of the survey data is inadequate for review by persons without access to the collected data. Profile data is presented graphically on each of the "sheets" in the report and formatted to fit within the available white-space on each "sheet." Profile data should be presented so that it can be understood and interpreted outside of Appalachian.

The profile graphs should appear on a single page for each profile. If there are three profiles, as is the case on most locations, then there should be three pages representing each of the profiles, and at such a scale to allow comparison to all prior years' data.

Graphical representation is only valuable when the data used to create the graph is provided as well. In addition to profile graphs being presented on a single page per profile, the data supporting the graphical representation should also be presented in table form.

There are NO comments by Appalachian concerning the IMPACT of sediment deposits on public access sites.

For example, increased sediment deposits at Hardy Ford Boat Launch may impact the ability of the public to use the boat launch during lower water levels.

The report provides no information as to what actions Appalachian would take to address the impact of sediment deposits. If Appalachian is responsible for mitigating sedimentation at public access sites, why would they not be responsible for mitigating sedimentation in navigable waters of the lake at the levels indicated on the 2005 survey?

What constitutes an adverse effect of sedimentation on project operations?

How does dredging- conducted by permit- in a surveyed area appear on the profiles? For example, if dredging were completed at the Hardy Ford Boat Launch, prior to the 2021 survey, would the data be skewed due to dredging? Can notations concerning dredging, in a monitored area, be included on future surveys? Dates, location within the survey area, and amount removed would prove to be useful.

<u>Lack of Proposed Actions</u>

In the 2010 Order Modifying and Approving Revised Sedimentation Monitoring Plan, under background, states "sedimentation from shoreline erosion was concentrated along nearly the entire reservoir margins. It was concentrated as bench deposits in the littoral areas in both Smith Mountain and Leesville Lakes. However, it is likely that much of the erosion occurred during the initial years of project operation and it taking place at a lower rate now that most wave action (the dominant erosive force) is occurring against a more resistant underlying rock. While shoreline erosion results in a net transfer of sediment within the operational limits of the reservoir pools, it is sedimentation sources with origins external of the project that reduces reservoir storage capacity and causes extensive shoaling and subaqueous sedimentation."

Why were these comments/conclusions not mentioned in the current report? Many residents believe that wave action, as stated, is the dominant erosive force in the project at this time. What steps are Appalachian taking to address wave action (particularly in light of wakes created by wake surfing) impact on sedimentation and erosion?

Further, this section states, "over the term of next license, Appalachian is proposing to conduct post licensing monitoring of specific sites…this monitoring will document the rate of sedimentation in these areas and identify impacts of sediment in these areas."

The report contains no comments on the "impact of sediment" in any area. However, there are significant impacts due to sedimentation in the following sites: Blackwater River (headwaters), Gills Creek, Lynville Creek, and Roanoke River (headwaters at Back Creek). Please identify the impact of sediment on each of these areas.

<u>Notes Concerning Surveyed Sites</u>

<u>Public Access Survey Sites (Boat Launches)</u>

<u>Anthony Ford Boat Launch</u>

Profile 1 shows "no survey data for 2021".

Why is there no data? When was it determined that there was no profile data? Since there was a two-year delay in completing the report, why was the data not collected and annotated as new data? Why was a fourth profile not taken as previously done on the Blackwater River when a profile was missed?

Appalachian writes "In comparing the 2021 survey data profiles to the data from prior surveys…"

How can this statement be made when a complete profile is missing?

Profiles 2 and 3 show considerably more data in prior years compared to 2021.

What accounts for this discrepancy?

Hales Ford Boat Launch

Profiles 1 and 2 start later and terminate earlier than in prior surveys and does not appear to be explained by Section 3.0 (2).

What accounts for this discrepancy?

Hardy Ford Boat Launch

"2021 data…indicates slightly increased sediment deposition." Profiles 1 and 2 both show a two-to-four-foot increase in sediment deposition.

What constitutes "slightly increased?"

Whereas profile 3 shows "increased sediment deposition" of four feet.

How is flowage impacted by these deposits? What impact did the replacement of the Hardy Ford Bridge have on the survey results? Why is there no notation on the survey of the construction that was done?

Penhook Boat Launch

The written portion of the report references Hardy Ford Boat Launch.

How can a comparison show negligible differences when two of three profiles have incomplete data?

Profile 2 data is incomplete for 2021.

What accounts for the change in starting depth of profile 2 since base depth was 10 feet higher than current?

Scruggs Boat Launch

Although data appears to be incomplete, there does not appear to be significant increases in sedimentation.

How can a comparison show negligible differences when data is missing from the profiles?

State Park Boat Launch

Please explain the following statement- "To serve as a relative control site to compare anthropologic disturbances from more natural erosional forces."

Profile 1 shows incomplete data for 2021, but increases in sedimentation are evident.

Please explain the incomplete data for profile 2 (over one-half of the survey).

Profile 3 shows decreases in depth up to ten feet. Negligible differences between 2005 and 2011- profiles 1 and 2 show five-to-six-foot increases in sediment at station 14.

Why was testing stopped with these results?

Profile 1 at station 12 and profile 3 at station 2-3, show eight-foot and ten-foot increases respectively.

When is an increase in sediment deposition "significant?"

Profile 2, for 2021, stops at station 4.5, but prior years data goes beyond station 15.

How can the statement- no significant differences- be made?

Other Designated Sites

Beaverdam Creek

Profile 1 shows two-foot increase in sediment over 2016 and is missing data for the first two stations. Both profiles 2 and 3 contain less than one station's data for comparison.

How can this be quantified as "negligible?" Why is the data incomplete? Why was this not remediated during the two-year delay?

Becky's Creek

The 2021 data on Profile 1 shows considerable loss of depth of two or more feet compared to 2016 and 2011. Profiles 2 and 3 are similar is loss of depth.

What impact does the loss of depth in the area have of water flowage? What impact does the loss of depth have on debris collection in the surveyed zone after high water events?

Betty's Creek

Written report claims "stable conditions."

Why does data in profile 1 end between stations 7 and 8, and prior years continue to station 12? Is this due to greater sediment deposition than can be shown on the survey?

In profiles 2 and 3, the starting depth for 2021 is four-to-six feet deeper than in prior surveys.

What accounts for this change?

Big Indian Creek

Profiles show one-to-three-foot increases in sediment deposition. Profiles 2 and 3 also show increased sedimentation approaching the pool elevation at time of testing.

If this area were to fill prior to the next survey, how will the new conditions impact flowage? How will debris collection be completed after high water events if the area does not have navigable water?

Blackwater River

Written report states "2021 data shows greatest change relative to sediment deposition." This appears to be the case. All profiles show incomplete data for 2021 and 2016. Profile 2 shows the greatest increase is sediment deposition (data is very incomplete, if section 3.0 (2) is true here, then there appears to be multiple stations where the depth is zero). Profile 4 shows up to four-foot increases with possible zero depth at four stations.

Why is the data incomplete? Is the data incomplete due to increased sedimentation resulting in un-navigable water? All profiles show continued increases in sedimentation, how has this impacted flowage? After a high-water event is this area more prone to debris collection due to how shallow the area is?

A fourth profile of this area was initiated in 2016 as noted on the chart, and was due to missing profile 3 at the time. There are several profiles missing in this report.

Why are there not new profiles in other surveyed areas due to missed profiles?

Craddock Creek

Profile 1 shows greater depth in the survey than in 2005. Profiles 2 and 3 are similar.

What is being done in Craddock Creek to control sedimentation?

Gills Creek

"Indicates slightly increased sediment deposition on portions of profiles 1 and 2. Profile 1 shows two-to-four-foot increases and the data stops at station 9, yet prior years go to station 18.

What accounts for the incomplete data in profile 1? Does this indicate that the sedimentation has exceeded pool elevation (like the creation of an island)?

Profile 3 indicates no data for 2021.

Why is there no data? When was it determined that there was no profile data? Since there was a two-year delay in completing the report, why was the data not collected and annotated as "new data?"

Grimes Creek

All profiles show increased sediment deposition in the range of two-to-three feet. Profiles 2 and 3 show these increases on incomplete data.

What impact on flowage has occurred due to this increase in sedimentation?

Little Indian Creek

All profiles show incomplete data for 2021, and an increase in deposition of about two feet.

In profile 1, at station 7, are we to assume that depth was zero feet? Why is the data incomplete? When was it determined that it was incomplete? Since there was a two-year delay in completing the report, why was the data not collected and annotated as "new data?"

Lynville Creek

All profiles show incomplete data. All profiles appear to reach zero feet in depth. Pool elevation is listed as 788.50 feet, but the lake level on September 16, 2021, according to smithmountainlakelevel.com, was roughly 793 feet. We are told to treat the lake as a flat surface. The pool elevation at the dam is considered the pool elevation throughout the lake.

Please explain the discrepancy in pool elevation. Is it possible that the flow of water into Lynville Creek has been influenced by other factors? Has Appalachian investigated what accounts for the lower level?

Mariners Landing

Appalachian states the negligible differences on the majority of all three profiles. However, profile 1, with incomplete data, shows four-to-six-foot changes (stations 3-6 and 17-21). Profile 2 shows two-to-six-foot increases and profile 3 a two-to-three-foot change. Although these increases are in deep water (750'), the changes are not negligible.

Mitchells Cove

Profile 1 shows incomplete data for 2021.

Why is the data incomplete? When was it determined that it was incomplete? Since there was a two-year delay in completing the report, why was the data not collected and annotated as "new data?"

All profiles show a 1-foot increase.

Roanoke River (at Back Creek)

Appalachian states slight increases on profile 1. This profile shows up to five-foot increases, with increased deposition through the entirety of the profile. Appalachian states negligible increases for profiles 2 and 3, but even with incomplete data the profiles show two-to-four-foot increases.

Standiford Creek

All profiles show increased levels of sedimentation of about two feet.

What impact does the reduced depth have on flowage? How does the increase in sediment deposition influence algal blooms?

Standiford Creek is one of the locations testing positive for cyanobacteria during the HAB in the summer of 2023.

Comparison Between Qualitative Statements and Quantitative Values from Graphical Data

The following chart, AEP Definition of Increase/Loss of Sedimentation Versus Data from Profile Charts, displays the qualitative statement provided by Appalachian for each profile to the actual change, in feet (quantitative), as shown on each graph.

AEP Definition of Increase/Loss of Sedimentation versus Data from Profile Charts

Sheet and Location		Profile data per AEP				Change in FEET from 2016			
Sheet #	Location	Profile 1	Profile 2	Profile 3	Profile 4	Profile 1	Profile 2	Profile 3	Profile 4
1	Anthony Ford Boat Launch	SD	ISS	N	-	ID	-12	0	-
2	Beaverdam Creek	N	N	N	-	2 to 4	1 to 2	1	-
3	Becky's Creek	SI	SI	SI	-	2 to 3	2 to 4	2 to 3	-
4	Betty's Creek	ND	ND	ND	-	± 1 to 2	± 1	1 to 3	-
5	Big Indian Creek	SI	SI	SI	-	2 to 3	1 to 2	1 to 3	-
6	Blackwater River	N	ISD	N	ISD	2 to 10	0 to 6	1 to 2	2 to 6
7	Craddock Creek	N	N	N	-	1 to 2	1 to 3	2	-
8	Gills Creek	SI	SI	U	-	± 4	2 to 3	ND	-
9	Grimes Creek	SI	SI	SI	-	2 to 4	2 to 3	2	-
10	Hales Ford Boat Launch	SI	N	SI	-	1 to 3	1	1 to 4	-
11	Hardy Ford Boat Launch	SI	SI	N/ISD	-	1 to 5	2 to 5	± 3	-
12					-				-
13	Little Indian Creek	SI	SI	SI	-	± 1 to 2	1 to 3	1 to 2	-
14	Lynville Creek	N	N	?	-	ID	ID	ID	-
15	Mariners Landing	N	N	N	-	1 to 4	0 to 4	1 to 2	-
16	Mitchells Cove	N	N	N	-	2	1 to 2	1 to 2	-
17					-				-
18					-				-
19	Penhook Boat Launch	N	N	N	-	1 to 2	1 to 2	0 to 3	-
20					-				-
21	Roanoke River	SI	N	N	-	2 to 5	2 to 4	2 to 3	-
22	Scruggs Boat Launch	N	N	N	-	1 to 2	0 to 6	0 to 2	-
23	Standiford Creek	SI	SI	SI	-	1 to 2	1 to 2	1 to 2	-
24	State Park Boat Launch	ISD	ND	ISD	-	2 to 8	2 to 3	2 to 10	-

AEP Written Description of Data
N- negligible
ND- no difference
ISD- increased sediment deposition
ISS- increased sediment scouring
SD- same departure
SI- slightly increased

All data is in FEET
ID- insufficent data
ND- no difference
± - plus or minus feet

The following chart, 2021 Profile Information, displays profiles that are incomplete and/or missing. Additionally, it provides a qualitative assignment to the change in depth for each profile.

Complete Profile Information

Sheet and Location		Is Profile Data Complete?		Change in depth compared to 2016*			
Sheet #	Location	Profile data incomplete	No profile data	Loss of depth	Increased depth	Unable to determine**	Unknown
1	Anthony Ford Boat Launch	P2, P3	P1		P2, P3		P1
2	Beaverdam Creek	P1, P2, P3		P1, P2, P3			
3	Becky's Creek	P1, P2		P1, P2, P3			
4	Betty's Creek	P1, P3		P1, P2, P3			
5	Big Indian Creek	P1, P2, P3		P1, P2, P3			
6	Blackwater River	P1, P2, P4	P3	P1, P2, P4			P3
7	Craddock Creek	P1		P2, P3		P1	
8	Gills Creek	P1, P2	P3	P1, P2			P3
9	Grimes Creek	P2, P3		P1, P2, P3			
10	Hales Ford Boat Launch	P1		P1, P2, P3			
11	Hardy Ford Boat Launch	P1, P2		P1, P2, P3			
12							
13	Little Indian Creek	P1, P2, P3		P1, P2, P3			
14	Lynville Creek	P1, P2	P3	P1, P2			P3
15	Mariners Landing	P1, P3		P1, P2, P3			
16	Mitchells Cove	P1		P1, P2, P3			
17							
18							
19	Penhook Boat Launch	P2		P1, P2, P3			
20							
21	Roanoke River	P1, P2, P3		P1, P2, P3			
22	Scruggs Boat Launch	P1		P1, P2, P3			
23	Standiford Creek	P2, P3		P1, P2, P3			
24	State Park Boat Launch	P1, P2		P1, P3		P2	

*if incomplete data is shown, comparison is to available data
**unable to discern change due to scale of profile data

Requests and/or Recommendations for Reporting

Glossary of terms used in the report
Data tables for each site
Legible graphical representations of collected data
Re-collection of data when and wherever “no data was collected”
Complete profile data at the 2005 profile (noting level of sediment +/- pool elevation)
Proposed mitigation in areas of significant accumulation (recreation facilities)

Edward S Brennan

From: ksage.tlac@sml.us.com
Sent: Friday, September 22, 2023 10:51 AM
To: Edward S Brennan
Cc: smlstow@gmail.com; lakestersml@gmail.com; Davidbg63@gmail.com; rsandersva@verizon.net; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; BOD1 @leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; Shahady@lynchburg.edu; dheck@ferrum.edu; ChiefCompany11@gmail.com; mwbarrow@vt.edu; Timothy.Dooley@dwr.virginia.gov; Pete.Schula@dwr.virginia.gov; Dan.Wilson@dwr.virginia.gov; james.slaughter@dwr.virginia.gov; Mike.Vanlandingham@dcr.virginia.gov; Brian.Heft@dcr.virginia.gov; Elizabeth.Gallup@deq.virginia.gov; mary.dail@deq.virginia.gov; george.devlin@deq.virginia.gov; Roger.Kirchen@dhr.virginia.gov; Larry.Nichols@vdacs.virginia.gov; Gale.W.Howerton@uscg.mil; Matthew.K.Creelman2@uscg.mil; Elizabeth B Parcell; Edward S Brennan
Subject: [EXTERNAL] File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download
Attachments: 2021 5-Yr Sed Survey Response.pdf

Hello Ed,

The Tri-County Lakes Administrative Commission appreciates the opportunity to review Appalachian Power Company's draft 2021 Five-Year Sedimentation Survey Report, August 30, 2023 for Project No. 2210 in accordance with Article 403 - Sedimentation Monitoring Plan. Please find my comments attached. You will also receive this letter via USPS.

Thank you,

Kristina Sage
Executive Director
Tri-County Lakes Administrative Commission
400 Scruggs Road, Suite 200
Moneta, VA 24121
(540) 721-4400

-----Original Message-----
From: esbrennan@aep.com <esbrennan@aep.com>
Sent: Thursday, August 31, 2023 4:24 PM
To: ksage.tlac@sml.us.com; smlstow@gmail.com; lakestersml@gmail.com; Davidbg63@gmail.com; rsandersva@verizon.net; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; BOD1@leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; Shahady@lynchburg.edu; dheck@ferrum.edu; ChiefCompany11@gmail.com; mwbarrow@vt.edu; Timothy.Dooley@dwr.virginia.gov; Pete.Schula@dwr.virginia.gov; Dan.Wilson@dwr.virginia.gov; james.slaughter@dwr.virginia.gov; Mike.Vanlandingham@dcr.virginia.gov; Brian.Heft@dcr.virginia.gov; Elizabeth.Gallup@deq.virginia.gov; mary.dail@deq.virginia.gov; george.devlin@deq.virginia.gov; Roger.Kirchen@dhr.virginia.gov; Larry.Nichols@vdacs.virginia.gov; Gale.W.Howerton@uscg.mil; Matthew.K.Creelman2@uscg.mil; ebparcell@aep.com; esbrennan@aep.com
Cc: ebparcell@aep.com

Subject: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

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NOTE THAT THE BELOW LINK ONLY REMAINS ACTIVE FOR 3 DAYS DUE TO SECURITY RESTRICTIONS

Sincerely,

Ed Brennan
American Electric Power

(This note processed by "p2p.aep.com")

TRI-COUNTY LAKES ADMINISTRATIVE COMMISSION
400 Scruggs Road, Suite 200
Moneta, VA 24121
Telephone: (540) 721-4400

Leesville Lake *Smith Mountain Lake*

September 22, 2023

Mr. Ed Brennan
Plant Environmental Coordinator Principal
American Electric Power
40 Franklin Road SW
Roanoke, VA 24011

Dear Mr. Brennan,

The Tri-County Lakes Administrative Commission (TLAC) appreciates the opportunity to review Appalachian Power Company's (APCo) draft 2021 Five-Year Sedimentation Survey Report, August 30, 2023 for Project No. 2210 in accordance with Article 403 - Sedimentation Monitoring Plan.

Though the survey did not identify any appreciable sedimentation in designated public access sites, the Blackwater River, Lynville Creek and the Pigg River sites continue to be areas of concern. Recognizing that the license only requires APCo to determine if dredging is required at recreation sites, I understand dredging is not APCo's responsibility in these three channels. The Sedimentation Monitoring Plan (Plan) does require the monitoring report include: "Identification of measures/actions that are intended to be implemented under the license and those that should be considered outside of the license." It would be helpful to know of any causes that have been identified and recommendations of measures/actions that should be considered outside of the license and/or that may be addressed with other responsible organizations.

In addition to the concerns raised by increasing sedimentation as indicated in the report, several residents on the Blackwater channel have contacted TLAC requesting information about the removal of B49 channel marker rather than removal of the continued sedimentation of the channel. Profile Two and Profile Four in the report do indicate significant increases of sediment in the Blackwater channel. Residents' concerns include safe navigation, water quality, property values, and aesthetics. It would be helpful to know of any causes identified that may be addressed.

The Pigg River, where the greatest changes in sedimentation are evident for Leesville Lake, continues to be a major source of both sediment and debris. The sediment deposition that has occurred between the 2016 survey and the 2021 survey is concerning as it correlates to the removal of the Rocky Mount Dam. The Pigg River has been a major source of both sediment and debris since the removal of the dam.

APCo's sedimentation monitoring and other initiatives provide the opportunity to identify and implement best management practices to ensure continued fishing, boating, and other recreational uses in the Project. We are committed to working cooperatively with APCo and the Technical Review Committees to protect the safe navigation, recreational use, and water quality at Smith Mountain and Leesville Lakes.

Thank you for the opportunity to comment on this report.

Sincerely,

Kristina Sage
Executive Director
Tri-County Lakes Administrative Commission
400 Scruggs Road, Suite 200
Moneta, VA 24121
(540) 721-4400

Edward S Brennan

From: Delia Heck <dheck@ferrum.edu>
Sent: Thursday, September 21, 2023 1:10 PM
To: Edward S Brennan
Subject: [EXTERNAL] Re: Draft 2021 Smith Mountain Project Sedimentation Survey Report
Attachments: image001.png

No comments from me.

Delia

On Thu, Sep 21, 2023 at 12:46 PM Edward S Brennan <esbrennan@aep.com> wrote:

> All,
>
> As a reminder, review comments on the draft 2021 Smith Mountain Project Sedimentation Survey Report are due by September 30, 2023. I would greatly appreciate your response at your earliest convenience prior to the deadline so that I may send the revised draft (if applicable) to the Erosion/Sediment TRC representatives as soon as possible. Thus far, all the responses that I have received have been either no comments or general comments that do not require revisions to the draft report. Kindly provide me with a reply, even if it's that you have no comments.
>
> Thank you,
>
> Ed Brennan
>
>
> **EDWARD S BRENNAN** | **PLANT ENVIRONMENTAL COORD PRIN**
> ESBRENNAN@AEP.COM | D:540.985.2984
> 40 FRANKLIN ROAD SW, ROANOKE, VA 24011
>

--
Delia R. Heck, Ph.D.
Director of Institutional Effectiveness
Professor of Environmental Science
Director, Smith Mountain Lake Water Quality Monitoring Program

FERRUM COLLEGE
Environmental Science
Garber 213, 80 Wiley Drive
P.O. Box 1000 | Ferrum, VA 24088-9000
p 540.365.6945 | c 540.420.3169
dheck@ferrum.edu

Edward S Brennan

From: jehumphrey@verizon.net
Sent: Friday, September 15, 2023 9:33 AM
To: Edward S Brennan
Cc: Roy Kelley; Chip Zimmerman; Glenn Coleman; Dave Rives
Subject: [EXTERNAL] 2021 Five-Year Sedimentation Survey Report

Ed,

The Leesville Lake Association has reviewed the **2021 Five-Year Sedimentation Survey Report - Draft** and have no comments other than it appears there is nothing in the report that affects navigation on Leesville Lake.

Regards,
Joe Humphrey

Edward S Brennan

From: Charlie Hamilton <cshamilton2@gmail.com>
Sent: Thursday, September 14, 2023 9:31 AM
To: Edward S Brennan; ksage.tlac@sml.us.com; smlstow@gmail.com; lakestersml@gmail.com; Davidbg63@gmail.com; rsandersva@verizon.net; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; BOD1@leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; Shahady@lynchburg.edu; dheck@ferrum.edu; ChiefCompany11@gmail.com; mwbarrow@vt.edu; Timothy.Dooley@dwr.virginia.gov; Pete.Schula@dwr.virginia.gov; Dan.Wilson@dwr.virginia.gov; james.slaughter@dwr.virginia.gov; Mike.Vanlandingham@dcr.virginia.gov; Brian.Heft@dcr.virginia.gov; Elizabeth.Gallup@deq.virginia.gov; mary.dail@deq.virginia.gov; george.devlin@deq.virginia.gov; Roger.Kirchen@dhr.virginia.gov; Larry.Nichols@vdacs.virginia.gov; Gale.W.Howerton@uscg.mil; Matthew.K.Creelman2@uscg.mil; Elizabeth B Parcell
Cc: Elizabeth B Parcell
Subject: [EXTERNAL] RE: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

Ed,

LLA appreciates the opportunity to review the 2021 Five Year Sedimentation Survey Draft Report, August 30,2023. Two specific citations are worthy of inspection and comment:

Page 7
“Pigg River The Pigg River site (Sheet 20) continues to be where the greatest change relative to sedimentation differences are evident for the Leesville Lake survey sites, as compared to the prior-year survey data. While lake bed conditions have remained relatively stable over time at Profile Two, conditions at Profiles One and Three have varied from periods of scouring to periods of deposition (i.e., dynamic conditions). The 2021 data indicates that a period of sediment deposition had occurred along these two profiles since the 2016 sedimentation survey. “

Page 9

“Identification of impacts of sediment deposits on project operation. No impacts to project operations have been identified. The survey sites with the greatest change from the 2005 baseline survey are located at the upper reaches of Pigg River and the Blackwater River and are not impacting the ability of Appalachian to operate its facilities. The source of the sediment is from activities outside of the project boundary (i.e., upstream locations)”

Comment: The increase in sedimentation from the 2016 survey to the 2021 survey cited above is most likely based on the removal of the Rocky Mount Power Dam, and the subsequent flushing of that sediment down the Pigg River and into Leesville Lake. As the pump back from Leesville Lake into Smith Mountain Lake pulls this increased sediment though APCo Power Turbines, it would seem to create severe maintenance concerns over

time for the turbine blades and should impact the ability of Appalachian to operate its facilities. Long term deleterious effects to operation should result.

Submitted by Charlie Hamilton, Leesville Lake Association Water Quality Chair
Cshamilton2@gmail.com
703-439-9791

-----Original Message-----
From: esbrennan@aep.com <esbrennan@aep.com>
Sent: Thursday, August 31, 2023 4:24 PM
To: ksage.tlac@sml.us.com; smlstow@gmail.com; lakestersml@gmail.com; Davidbg63@gmail.com; rsandersva@verizon.net; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; BOD1@leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; Shahady@lynchburg.edu; dheck@ferrum.edu; ChiefCompany11@gmail.com; mwbarrow@vt.edu; Timothy.Dooley@dwr.virginia.gov; Pete.Schula@dwr.virginia.gov; Dan.Wilson@dwr.virginia.gov; james.slaughter@dwr.virginia.gov; Mike.Vanlandingham@dcr.virginia.gov; Brian.Heft@dcr.virginia.gov; Elizabeth.Gallup@deq.virginia.gov; mary.dail@deq.virginia.gov; george.devlin@deq.virginia.gov; Roger.Kirchen@dhr.virginia.gov; Larry.Nichols@vdacs.virginia.gov; Gale.W.Howerton@uscg.mil; Matthew.K.Creelman2@uscg.mil; ebparcell@aep.com; esbrennan@aep.com
Cc: ebparcell@aep.com
Subject: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

Use the link below to download your file. The file is available until 09/03/2023.

https://p2p.aep.com:443/AEPLargeFile/fileDownload.dsp?isEncrypted=true&isEnSet=true&fileStage=3&fileName=JUgLzpJH9O8vQ4Hj5Nc2F6SKVApOrCvUtJe%2FjTMF8FPBbDZxQw09EypXCrmUJxc%2Fm7TYdRkPYstw%0D%0AZms7PggUrZxwfUPw%2F%2BBLZuplo2MkTeo%3D&fop=2eb3fec805f34836b5c9a9566b6d47b88&version=v2

File Size = 23983 kb

Comments: Dear Smith Mountain Project Technical Review Committee Representative,

Please find a below link that will allow you to download the Draft 2021 Smith Mountain Project Sedimentation Survey Report. Please provide me with your review comments by September 30, 2023. Kindly "Reply All" with your response as soon as possible, even if you have no comments, to allow the maximum amount of time to prepare a revised draft report for the Erosion/Sedimentation TRC.

NOTE THAT THE BELOW LINK ONLY REMAINS ACTIVE FOR 3 DAYS DUE TO SECURITY RESTRICTIONS

Sincerely,

Ed Brennan
American Electric Power

(This note processed by "p2p.aep.com")

Edward S Brennan

From: Heft, Brian (DCR) <Brian.Heft@dcr.virginia.gov>
Sent: Friday, September 8, 2023 4:00 PM
To: Edward S Brennan; ksage.tlac@sml.us.com; smlstow@gmail.com; lakestersml@gmail.com; Davidbg63@gmail.com; rsandersva@verizon.net; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; BOD1@leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; Shahady@lynchburg.edu; dheck@ferrum.edu; ChiefCompany11@gmail.com; mwbarrow@vt.edu; Timothy.Dooley@dwr.virginia.gov; Schula, Pete (DWR); Wilson, Daniel (DWR); Slaughter, James (DWR); Vanlandingham, Mike (DCR); Gallup, Elizabeth (DEQ); Dail, Mary (DEQ); Devlin, George (DEQ); Kirchen, Roger (DHR); Nichols, Larry (VDACS); Gale.W.Howerton@uscg.mil; Matthew.K.Creelman2@uscg.mil; Elizabeth B Parcell
Cc: Elizabeth B Parcell
Subject: [EXTERNAL] RE: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

I just back in the office from my Lake Erie trip. No comment.

-----Original Message-----
From: esbrennan@aep.com <esbrennan@aep.com>
Sent: Thursday, August 31, 2023 4:24 PM
To: ksage.tlac@sml.us.com; smlstow@gmail.com; lakestersml@gmail.com; Davidbg63@gmail.com; rsandersva@verizon.net; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; BOD1@leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; Shahady@lynchburg.edu; dheck@ferrum.edu; ChiefCompany11@gmail.com; mwbarrow@vt.edu; Timothy.Dooley@dwr.virginia.gov; Schula, Pete (DWR) <Pete.Schula@dwr.virginia.gov>; Wilson, Daniel (DWR) <Dan.Wilson@dwr.virginia.gov>; Slaughter, James (DWR) <James.Slaughter@dwr.virginia.gov>; Vanlandingham, Mike (DCR) <Mike.Vanlandingham@dcr.virginia.gov>; Heft, Brian (DCR) <Brian.Heft@dcr.virginia.gov>; Gallup, Elizabeth (DEQ) <Elizabeth.Gallup@deq.virginia.gov>; Dail, Mary (DEQ) <Mary.Dail@deq.virginia.gov>; Devlin, George (DEQ) <George.Devlin@deq.virginia.gov>; Kirchen, Roger (DHR) <Roger.Kirchen@dhr.virginia.gov>; Nichols, Larry (VDACS) <Larry.Nichols@vdacs.virginia.gov>; Gale.W.Howerton@uscg.mil; Matthew.K.Creelman2@uscg.mil; ebparcell@aep.com; esbrennan@aep.com
Cc: ebparcell@aep.com
Subject: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

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File Size = 23983 kb

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NOTE THAT THE BELOW LINK ONLY REMAINS ACTIVE FOR 3 DAYS DUE TO SECURITY RESTRICTIONS

Sincerely,

Ed Brennan
American Electric Power

(This note processed by "p2p.aep.com")

Edward S Brennan

From: Barrow, Melanie <mwbarrow@vt.edu>
Sent: Tuesday, September 5, 2023 9:27 AM
To: Edward S Brennan; ksage.tlac@sml.us.com; smlstow@gmail.com; lakestersml@gmail.com; Davidbg63@gmail.com; rsandersva@verizon.net; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; BOD1@leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; Shahady@lynchburg.edu; dheck@ferrum.edu; ChiefCompany11@gmail.com; Timothy.Dooley@dwr.virginia.gov; Pete.Schula@dwr.virginia.gov; Dan.Wilson@dwr.virginia.gov; james.slaughter@dwr.virginia.gov; Mike.Vanlandingham@dcr.virginia.gov; Brian.Heft@dcr.virginia.gov; Elizabeth.Gallup@deq.virginia.gov; mary.dail@deq.virginia.gov; george.devlin@deq.virginia.gov; Roger.Kirchen@dhr.virginia.gov; Larry.Nichols@vdacs.virginia.gov; Gale.W.Howerton@uscg.mil; Matthew.K.Creelman2@uscg.mil; Elizabeth B Parcell
Subject: [EXTERNAL] Re: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

No comment.

Melanie W. Barrow

ANR Horticulture Extension Agent
Henry County/Martinsville Virginia Cooperative Extension
3300 Kings Mountain Road, Room 102
P.O. Box 7
Collinsville, VA 24078
Phone: (276) 634-4650
Fax: (276) 638-8901

If you are a person with a disability and require any auxiliary aids, services, or other accommodations to participate in these events, please identify your needs to the Pittsylvania County Extension Office at least 5 days prior to the event by calling 276/634-4650 [TDD (800)828-1120] between business hours of 8 a.m. and 4:30 p.m. Monday through Friday.

From: esbrennan@aep.com <esbrennan@aep.com>
Sent: Thursday, August 31, 2023 4:23 PM
To: ksage.tlac@sml.us.com <ksage.tlac@sml.us.com>; smlstow@gmail.com <smlstow@gmail.com>; lakestersml@gmail.com <lakestersml@gmail.com>; Davidbg63@gmail.com <Davidbg63@gmail.com>; rsandersva@verizon.net <rsandersva@verizon.net>; thardy8@comcast.net <thardy8@comcast.net>; navigation@leesvillelake.org <navigation@leesvillelake.org>; aquatictrc@leesvillelake.org <aquatictrc@leesvillelake.org>; BOD1@leesvillelake.org <BOD1@leesvillelake.org>; vicepresident@leesvillelake.org <vicepresident@leesvillelake.org>; wqc@leesvillelake.org <wqc@leesvillelake.org>; chris.whitlow@franklincountyva.gov <chris.whitlow@franklincountyva.gov>; Shahady@lynchburg.edu <Shahady@lynchburg.edu>; dheck@ferrum.edu <dheck@ferrum.edu>; ChiefCompany11@gmail.com <ChiefCompany11@gmail.com>; Barrow, Melanie <mwbarrow@vt.edu>; Timothy.Dooley@dwr.virginia.gov <Timothy.Dooley@dwr.virginia.gov>; Pete.Schula@dwr.virginia.gov <Pete.Schula@dwr.virginia.gov>; Dan.Wilson@dwr.virginia.gov <Dan.Wilson@dwr.virginia.gov>; james.slaughter@dwr.virginia.gov <james.slaughter@dwr.virginia.gov>; Mike.Vanlandingham@dcr.virginia.gov <Mike.Vanlandingham@dcr.virginia.gov>; Brian.Heft@dcr.virginia.gov <Brian.Heft@dcr.virginia.gov>; Elizabeth.Gallup@deq.virginia.gov <Elizabeth.Gallup@deq.virginia.gov>; mary.dail@deq.virginia.gov <mary.dail@deq.virginia.gov>; george.devlin@deq.virginia.gov <george.devlin@deq.virginia.gov>; Roger.Kirchen@dhr.virginia.gov <Roger.Kirchen@dhr.virginia.gov>; Larry.Nichols@vdacs.virginia.gov <Larry.Nichols@vdacs.virginia.gov>; Gale.W.Howerton@uscg.mil <Gale.W.Howerton@uscg.mil>; Matthew.K.Creelman2@uscg.mil <Matthew.K.Creelman2@uscg.mil>; ebparcell@aep.com <ebparcell@aep.com>; esbrennan@aep.com <esbrennan@aep.com>
Cc: ebparcell@aep.com <ebparcell@aep.com>
Subject: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

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File Size = 23983 kb

Comments: Dear Smith Mountain Project Technical Review Committee Representative,

Please find a below link that will allow you to download the Draft 2021 Smith Mountain Project Sedimentation Survey Report. Please provide me with your review comments by September 30, 2023. Kindly "Reply All" with your response as soon as possible, even if you have no comments, to allow the maximum amount of time to prepare a revised draft report for the Erosion/Sedimentation TRC.

NOTE THAT THE BELOW LINK ONLY REMAINS ACTIVE FOR 3 DAYS DUE TO SECURITY RESTRICTIONS

Sincerely,

Ed Brennan
American Electric Power

(This note processed by "p2p.aep.com")

Edward S Brennan

From: Joanne Bower Houpt <lakestersml@gmail.com>
Sent: Saturday, September 2, 2023 7:55 PM
To: Edward S Brennan
Cc: BOD1@leesvillelake.org; Brian.Heft@dcr.virginia.gov; ChiefCompany11@gmail.com; Dan.Wilson@dwr.virginia.gov; Davidbg63@gmail.com; Elizabeth.Gallup@deq.virginia.gov; Gale.W.Howerton@uscg.mil; Larry.Nichols@vdacs.virginia.gov; Matthew.K.Creelman2@uscg.mil; Mike.Vanlandingham@dcr.virginia.gov; Pete.Schula@dwr.virginia.gov; Roger.Kirchen@dhr.virginia.gov; Shahady@lynchburg.edu; Timothy.Dooley@dwr.virginia.gov; aquatictrc@leesvillelake.org; chris.whitlow@franklincountyva.gov; dheck@ferrum.edu; Elizabeth B Parcell; george.devlin@deq.virginia.gov; james.slaughter@dwr.virginia.gov; ksage.tlac@sml.us.com; mary.dail@deq.virginia.gov; mwbarrow@vt.edu; navigation@leesvillelake.org; rsandersva@verizon.net; smlstow@gmail.com; thardy8@comcast.net; vicepresident@leesvillelake.org; wqc@leesvillelake.org
Subject: [EXTERNAL] Re: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

Reviewed.

No Comment.

Joanne Houpt
SMLA

On Thu, Aug 31, 2023 at 4:24 PM <esbrennan@aep.com> wrote:

> Use the link below to download your file. The file is available until 09/03/2023.
> https://p2p.aep.com:443/AEPLargeFile/fileDownload.dsp?isEncrypted=true&isEnSet=true&fileStage=3&fileName=JUgLzpJH9O8vQ4Hj5Nc2F6SKVApOrCvUtJe%2FjTMF8FPBbDZxQw09EypXCrmUJxc%2Fm7TYdRkPYstw%0D%0AZms7PggUrZxwfUPw%2F%2BBLZuplo2MkTeo%3D&fop=2eb3fec805f34836b5c9a9566b6d47b88&version=v2
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>
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Sincerely,

Ed Brennan
American Electric Power

(This note processed by "p2p.aep.com")

Edward S Brennan

From: David Gay <davidbg63@gmail.com>
Sent: Saturday, September 2, 2023 7:20 AM
To: Edward S Brennan
Cc: ksage.tlac@sml.us.com; smlstow@gmail.com; lakestersml@gmail.com; rsandersva@verizon.net; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; BOD1@leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; Shahady@lynchburg.edu; dheck@ferrum.edu; ChiefCompany11@gmail.com; mwbarrow@vt.edu; Timothy.Dooley@dwr.virginia.gov; Pete.Schula@dwr.virginia.gov; Dan.Wilson@dwr.virginia.gov; james.slaughter@dwr.virginia.gov; Mike.Vanlandingham@dcr.virginia.gov; Brian.Heft@dcr.virginia.gov; Elizabeth.Gallup@deq.virginia.gov; mary.dail@deq.virginia.gov; george.devlin@deq.virginia.gov; Roger.Kirchen@dhr.virginia.gov; Larry.Nichols@vdacs.virginia.gov; Gale.W.Howerton@uscg.mil; Matthew.K.Creelman2@uscg.mil; Elizabeth B Parcell
Subject: [EXTERNAL] Re: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

No Comment
David Gay, SMLA Habitat

On Thu, Aug 31, 2023 at 4:24 PM <esbrennan@aep.com> wrote:

> Use the link below to download your file. The file is available until 09/03/2023.
> https://p2p.aep.com:443/AEPLargeFile/fileDownload.dsp?isEncrypted=true&isEnSet=true&fileStage=3&fileName=JUgLzpJH9O8vQ4Hj5Nc2F6SKVApOrCvUtJe%2FjTMF8FPBbDZxQw09EypXCrmUJxc%2Fm7TYdRkPYstw%0D%0AZms7PggUrZxwfUPw%2F%2BBLZuplo2MkTeo%3D&fop=2eb3fec805f34836b5c9a9566b6d47b88&version=v2
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>
> Sincerely,
>
> Ed Brennan
> American Electric Power

(This note processed by "p2p.aep.com")

Edward S Brennan

From: Wilson, Daniel (DWR) <Dan.Wilson@dwr.virginia.gov>
Sent: Friday, September 1, 2023 2:48 PM
To: Edward S Brennan; ksage.tlac@sml.us.com; smlstow@gmail.com; lakestersml@gmail.com; Davidbg63@gmail.com; rsandersva@verizon.net; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; BOD1@leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; Shahady@lynchburg.edu; dheck@ferrum.edu; ChiefCompany11@gmail.com; mwbarrow@vt.edu; Timothy.Dooley@dwr.virginia.gov; Schula, Pete (DWR); Slaughter, James (DWR); Vanlandingham, Mike (DCR); Heft, Brian (DCR); Gallup, Elizabeth (DEQ); Dail, Mary (DEQ); Devlin, George (DEQ); Kirchen, Roger (DHR); Nichols, Larry (VDACS); Gale.W.Howerton@uscg.mil; Matthew.K.Creelman2@uscg.mil; Elizabeth B Parcell
Cc: Elizabeth B Parcell
Subject: [EXTERNAL] RE: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

No Comment

Dan Wilson
Fisheries Biologist
O 434-525-7522 / M 434-942-0405
dan.wilson@dwr.virginia.gov
Virginia Department of Wildlife Resources
1132 Thomas Jefferson Road, Forest, VA 24551

-----Original Message-----
From: esbrennan@aep.com <esbrennan@aep.com>
Sent: Thursday, August 31, 2023 4:24 PM
To: ksage.tlac@sml.us.com; smlstow@gmail.com; lakestersml@gmail.com; Davidbg63@gmail.com; rsandersva@verizon.net; thardy8@comcast.net; navigation@leesvillelake.org; aquatictrc@leesvillelake.org; BOD1@leesvillelake.org; vicepresident@leesvillelake.org; wqc@leesvillelake.org; chris.whitlow@franklincountyva.gov; Shahady@lynchburg.edu; dheck@ferrum.edu; ChiefCompany11@gmail.com; mwbarrow@vt.edu; Timothy.Dooley@dwr.virginia.gov; Schula, Pete (DWR) <Pete.Schula@dwr.virginia.gov>; Wilson, Daniel (DWR) <Dan.Wilson@dwr.virginia.gov>; Slaughter, James (DWR) <James.Slaughter@dwr.virginia.gov>; Vanlandingham, Mike (DCR) <Mike.Vanlandingham@dcr.virginia.gov>; Heft, Brian (DCR) <Brian.Heft@dcr.virginia.gov>; Gallup, Elizabeth (DEQ) <Elizabeth.Gallup@deq.virginia.gov>; Dail, Mary (DEQ) <Mary.Dail@deq.virginia.gov>; Devlin, George (DEQ) <George.Devlin@deq.virginia.gov>; Kirchen, Roger (DHR) <Roger.Kirchen@dhr.virginia.gov>; Nichols, Larry (VDACS) <Larry.Nichols@vdacs.virginia.gov>; Gale.W.Howerton@uscg.mil; Matthew.K.Creelman2@uscg.mil; ebparcell@aep.com; esbrennan@aep.com
Cc: ebparcell@aep.com
Subject: File('Draft 2021 Smith Mountain Project Sedimentation Survey Report.pdf') from AEP is ready to download

Use the link below to download your file. The file is available until 09/03/2023.

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Comments: Dear Smith Mountain Project Technical Review Committee Representative,

Please find a below link that will allow you to download the Draft 2021 Smith Mountain Project Sedimentation Survey Report. Please provide me with your review comments by September 30, 2023. Kindly "Reply All" with your response as soon as possible, even if you have no comments, to allow the maximum amount of time to prepare a revised draft report for the Erosion/Sedimentation TRC.

NOTE THAT THE BELOW LINK ONLY REMAINS ACTIVE FOR 3 DAYS DUE TO SECURITY RESTRICTIONS

Sincerely,

Ed Brennan
American Electric Power

(This note processed by "p2p.aep.com")