



Appalachian Power
Hydro Generation
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Roanoke, VA 24022-2121
aep.com

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

September 14, 2023

Dear Secretary:

RE: Smith Mountain Project No. 2210
Article 411- Debris Management
2022 Annual Report
Documentation of Supplemental Consultation

Further to Appalachian Power Company's (Appalachian) letter of March 31, 2023 conveying the 2022 Debris Management Annual Report (Annual Report) and comments from the Smith Mountain Project Debris Management Plan Technical Review Committee (TRC), this letter serves as supplemental information. In its March 31, 2023 letter to the Federal Energy Regulatory Commission (Commission), Appalachian stated that both the Leesville Lake Association (LLA) and the Tri-County Lakes Administrative Commission (TLAC) offered multiple comments on Appalachian's debris removal program and the Debris Management Plan that were similar in topic and concern to those that these two organizations provided in their review comments on the 2021 draft debris report. As such, Appalachian proposed to address the comments with all members of the Debris TRC during the annual meeting to be scheduled in April 2023 and to subsequently make a supplemental information filing with the Commission. Appalachian also indicated that meeting notes and Appalachian's specific response to each comment in the draft report review letters will be included in the filing.

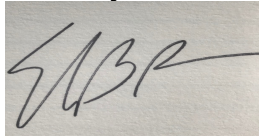
The annual Debris Technical Review Committee meeting was held on April 27, 2023. Meeting notes were subsequently distributed to the TRC for review and comment on July 31, 2023. TLAC responded with comments on August 7, 2023. The LLA responded with comments on August 8, 2023. No other TRC parties responded. TLAC offered comments on the meeting notes and noted a typo in the 2023 Overall Plan (included with the meeting notes). Regarding the meeting notes, TLAC noted that Appalachian did not participate in the April 1, 2023 Clean Valley Day and thanked Appalachian for correcting the number of reports stated in the 2022 Annual Report (i.e., 258 debris reports and not "over 400"). The meeting notes were corrected to reflect the requested changes. The typo was removed from the 2023 Overall Plan.

The LLA requested that the April 27, 2023 meeting notes reflect that the LLA Debris Chairman's statement that Appalachian's 2023 Overall Plan to control the amount of debris is inadequate and that the delayed response time by AEP to address debris from the February 12-13, 2023 high flow event is not in keeping with Appalachian's statement that they escalate efforts following such an event. The meeting notes were modified to include these statements. The LLA also indicated that they recognize the importance of continued open dialogue with Appalachian for the safety of all stakeholders and looks forward to improvements regarding debris issues on the lake.

As a result of these comments, Appalachian revised the meeting notes from the April 27, 2023 Annual Debris Technical Review Committee Meeting, the 2023 Overall Plan, and the 2022 Annual Debris Report. Copies of each of the revised documents are attached as well as documentation of consultation.

If there are any questions, please contact the undersigned at (540) 985-2441.

Sincerely,

A handwritten signature in black ink, appearing to read 'E. B. Parcell', is shown on a light-colored background.

Elizabeth B. Parcell
Process Supervisor

Attachments

CC: Distribution List
 Steve Dolan – AEP
 Dwain Bever – AEP
 Ed Brennan/Nick Sink - AEP
 David Agee – Appalachian
 Mark McGlothlin – Appalachian
 Rob Sanders, Smith Mountain Lake Association
 Kristina Sage, Tri County Lakes Administrative Commission
 Dan Wilson, Virginia Department of Wildlife Resources
 Pam McMillan, Leesville Lake Association Debris Committee

Documentation of Consultation

- Consultation on the April 27, 2023 Meeting Notes

Elizabeth B Parcell

From: Elizabeth B Parcell
Sent: Monday, July 31, 2023 4:37 PM
To: Dan.wilson@dwr.virginia.gov; ksage.tlac@sml.us.com; rsandersva@verizon.net; Pam Mcmillan
Cc: Edward S Brennan; David B Agee; James M McGlothlin; Nicholas C Sink
Subject: Smith Mountain Project Debris Management Plan Annual Meeting Notes
Attachments: N SM Debris TRC Meeting 04 28 23 To TRC 07 31 23.pdf

All,

Attached please find the meeting notes from the Smith Mountain Project’s Debris Technical Review Committee’s annual meeting held on April 28, 2023 in Rocky Mount, Virginia. You may recall that we discussed the Tri-Counties Lake Administrative Commission’s and the Leesville Lake Association’s comments on the 2022 Annual Report. Please let us have the benefit of your comments on these meeting notes within 30 days of the date of this email and recall that the meeting notes and any comments received will be filed with the Federal Energy Regulatory Commission as a supplemental filing on the 2022 Annual Report.

Please let us know if you have any questions.

Liz



ELIZABETH B PARCELL | PROCESS SUPV
EBPARCELL@AEP.COM | D:540.985.2441
40 FRANKLIN ROAD SW, ROANOKE, VA 24011

Updated Documents

- Revised April 27, 2023 Meeting Notes
- Revised 2023 Overall Plan
- Revised 2022 Debris Annual Report

**Appalachian Power Company
Smith Mountain Project No. 2210
Debris Management Plan Technical Review Committee Annual Meeting
Appalachian Power Company's Rocky Mount Service Center
April 28, 2023; 10:00 AM
Revised September 13, 2023**

Participants:

Appalachian Power Company (Appalachian)

Liz Parcell, Ed Brennan (virtual participation), Anna Painter, David Agee

Leesville Lake Association (LLA)

Pam McMillan

Tri-County Lakes Administrative Commission (TLAC)

Kristina Sage

Smith Mountain Lake Association (SMLA)

Rob Sanders

Liz Parcell began the meeting, welcomed, and introduced all present. Anna Painter presented a safety topic on the importance of wearing sunscreen.

- I. Review of 2023 Activities to Date*** – David Agee provided the status of 2023 activities including high flow events and amounts of debris removed from each lake.
 - A. High Flow Events
 - i. To date, one rain event has resulted in 2 tributary triggers.
 1. February 12th the Roanoke River and Pigg River exceeded their triggers. Blackwater River crested at 7.77 feet and the Pigg River crested at 10.23 feet.
 - B. Amounts Removed.
 - i. Smith Mountain Lake
 1. 380 tons removed by Appalachian as of April 28th
 - ii. Leesville Lake
 1. 845 tons removed by Appalachian as of April 28th .
- II. Proposed 2023 Activities***
 - A. Overall Plan - Liz Parcell reviewed the proposed Overall Plan for 2023 (attached)
 - i. Copies of the 2023 Overall Plan were provided to all meeting participants.

- ii. It was noted that debris assessments following the current high-water event (4/28-4/29) would likely, necessitate changes to the 2023 Overall Plan.
- B. New Equipment - David Agee reviewed the following improvements:
 - i. Two sections have been installed on the Leesville barge to increase carrying capacity and increase efficiency.
 - ii. Two new outboard engines were added to the Leesville push boat
 - iii. A new loading ramp was installed at the Leesville Hydro storage yard for the chipper to offload debris into tractor trailers.
 - iv. A new skimmer has been ordered; it will be shared with both lakes and is expected to arrive in 2024. Pam McMillan requested that Appalachian prepare a press release on the purchase of the skimmer so that they could share. [Note: press release prepared and shared with the LLA.]
- C. Myers Creek
 - i. Appalachian continues to work with DEQ in the permitting process.
 - ii. Ramp is functional and available to use, if needed.
- D. Diversion Device
 - i. Environmental and engineering considerations are still being explored.
 - ii. Appalachian will present a final concept to the Debris Technical Review Committee prior to application for permit.
- E. Roanoke Valley Clean Valley Day Event
 - i. Held on April 1, 2023. No one from any of the organizations represented on the Debris Technical Review Committee, including Appalachian, participated in the event.
- F. Take Pride in Smith Mountain Lake – Kristina Sage provided an update on this year’s event:
 - i. To be held throughout the month of May, specifically the first three Saturdays of the month with 8 receiving locations.
 - ii. An Appreciation Dinner will be held on May 24, 2023 to recognize sponsors.
 - iii. Appalachian provided funding to the SMLA for the event.
- G. Leesville Lake Beautification Day
 - i. Scheduled for June 10, 2023.
 - ii. Appalachian provided funding to the LLA for the event.
 - iii. The LLA’s coordinator should coordinate directly with Mark McGlothlin regarding work location.

III. Old Business

- A. 2022 Annual Report

- i. Has been filed.
- ii. Supplemental filing addressing comments to follow.
- iii. Discussion of comments:
 - 1. The contractor's availability in March and April was reviewed.
 - 2. The number of debris reports will be corrected; the table reflects 258 (SML 169 and LVL 89) but the written report incorrectly states over 400. It was noted that debris reports do not include reports on aids to navigation. Kristina Sage expressed appreciation for the correction.
 - 3. License responsibilities as noted in Appendix A were discussed.
 - a. Reports of floating debris April – October are license responsibilities
 - b. Reports of floating debris after high flow events throughout the year are license responsibilities.
 - c. Examples of non-license responsibilities include accumulated debris in the backs of coves reported November – May unless associated with a high flow event, and natural debris around docks (although Appalachian will assist if possible).

Both TLAC and the LLA expressed appreciation to the lake crews for their dedicated efforts and encouraged additional resources (e.g., time, crews, resources, equipment, etc.) for the removal of debris at Leesville Lake. Pam McMillan, Leesville Lake Association Debris Committee Chair, noted that Appalachian's 2023 Proposed work Plan to control the amount of debris is inadequate and the delayed response time (+20 days) by AEP to address debris from the February 12-13 high flow event does not exemplify escalated efforts.

There being no further questions or comments the meeting adjourned at 12:15 PM.

ATTACHMENT

SMITH MOUNTAIN PROJECT NO. 2210

DEBRIS MANAGEMENT PLAN

ANNUAL MEETING

2023 OVERALL PLAN

**Appalachian Power Company
Smith Mountain Project No. 2210
Debris Management Plan
2023 Overall Plan
April 27, 2023
Corrected September 13, 2023**

Section 3.5, Coordination of License Article 411

Section 3.5, Coordination of License Article 411, Debris Management Plan (DMP) states:

The coordination of the debris removal efforts for Smith Mountain and Leesville Lakes (sic) will continue as is currently being done through Tri-Counties Lake Administrative Commission (TLAC) and the Leesville Lake Association (LLA), or any entity that replaces either or bothⁱ. Appalachian will inspect both lakes once each month from April to October and following heavy inflow events to assess the debris load. A summary of the results will be provided to TLAC and LLA for review starting in April. An overall plan will be developed at that time for directing debris removal efforts for the upcoming months. Appalachian's debris removal equipment operations will be supplemented with contractor labor as necessary. The overall plan will be revised as necessary based on the monthly inspection reports, with input from TLAC and LLA.

Coordination of debris removal efforts has progressed since 2008, when the DMP was filed with the Federal Energy Regulatory Commission (Commission) for approval. Currently, TLAC continues to submit debris reports to Appalachian on behalf of Smith Mountain Lake and Leesville Lake residents. In March 2018, Appalachian began extending invitations to the LLA to participate on monthly debris surveys (April to October) and after high flow events to further their understanding of Appalachian's debris removal processes and Leesville Lake debris loading and dynamics. Invitations were extended to TLAC beginning in 2019 to also participate in monthly surveys. In 2020, due to COVID-19, social distancing practices were implemented, and separate boats were utilized during the surveys. Although "Take Pride in Smith Mountain Lake" and "Leesville Lake Beautification Day" were cancelled in 2020, abbreviated events were held in 2021 and 2022 with 16.27 tons and 22.67 tons being removed, respectively. Appalachian continues to also receive debris reports via its website (www.smithmountainproject.com) and Customer Solutions Center. Appalachian continues to be solely financially responsible for debris removal and disposal of debris removed via Appalachian's debris removal equipment.

"Take Pride in Smith Mountain Lake" will be held throughout the month of May 2023 and "Leesville Lake Beautification Day" is scheduled for June 10, 2023. In addition to providing equipment and manpower, Appalachian financially sponsors both events.

In accordance with the DMP, a summary of the debris survey results (April to October and following high flow events) is required to be provided to TLAC. In addition, Appalachian forwards the summaries to the full Debris Technical Review Committee (TRC) [i.e., TLAC, LLA, the Smith Mountain Lake Association, Virginia Department of Wildlife Resources]. Beginning in February of 2019, in addition to providing the results of the debris inspections, Appalachian also began providing: a) the amount of debris removed

from Smith Mountain Lake and Leesville Lake by its Lake Crew(s); b) the amount of debris removed from Smith Mountain Lake and Leesville Lake by any contractor(s); c) work conducted by any additional contractors (e.g. for grinding); d) total amounts of debris by lake cumulatively for the year; e) any high flow events during the previous month and details thereof; f) debris survey results (April to October and after high flow events); g) proposed work plans; and h) an opportunity to comment on the proposed work plans. Additionally, Appalachian continues to report on i) previous month's collection locations; j) intended number of days to work (until the next reporting period); and actual days worked for the previous reporting period.

2023 Overall Plan

For the upcoming months (May to October), Appalachian's overall plan is as follows:

Background

A record amount of debris was removed from Smith Mountain Lake (2,970 tons), Leesville Lake (7,457 tons), and thus from the Smith Mountain Project, as a whole (10,427 tons) because of 18 high flow events in 2020. In comparison, in 2021, there were 4 high flow events resulting in 6 trigger events and a total of 3,701 tons removed from the Smith Mountain Project (1,881 tons removed from Smith Mountain Lake and 1,820 tons removed from Leesville Lake). In 2022, 5 high flow events occurred, resulting in 9 trigger events and the removal of 629 tons from Smith Mountain and 1,182 tons from Leesville. One of the 2022 high flow events (Pigg River only) occurred on December 23, 2022 and thus, because of colder temperatures, removal of the debris from this high flow event did not begin until early January, 2023.

Current Situation:

In general, the Smith Mountain Project began 2023 in excellent shape, with the exception of Leesville Lake which received an influx of debris from the December 23, 2022 high flow event. Both the Roanoke and the Pigg River reached their triggers on February 12-13, 2023. Subsequent surveys revealed in general, very light loading on the Roanoke and additional loading of debris on the Pigg River. Persistent high winds following the February high flow event also contributed to additional debris loading within the reservoir.

As is required by its license, Appalachian via its lake crews and a contractor continue to remove residual debris from these high flow events. The Leesville Lake Crew has been removing debris from Leesville Lake since January of 2023, to remove floating debris from the two 2023 high flow events. Additionally, in that same timeframe, a contractor has been assisting with debris removal and solitary items from the Roanoke River, Craddock Creek, Blackwater River, and Leesville Lake. As of March 30, 2023, 160 tons of debris has been removed from the Smith Mountain Project and 260 tons have been removed from Leesville Lake.

Per the Debris Management Plan, debris inspections were conducted on the Roanoke River (794.15'), the Blackwater River (794.24'), and Leesville Lake (607.57') in April of 2023. According to the inspections conducted on April 4, 2023, April 5, 2023, and April 5, 2023, respectively, the greatest amounts of debris were observed at the following locations:

Roanoke River

- Only a few very small free-floating pieces of woody debris were observed in the main channel throughout the survey. Mixed debris collected at back of left-ascending small, shallow cove across the main channel from R75A; and back of right-ascending small, shallow cove near R76 (total volume of debris approximately 1 -2 barge loads.)

Blackwater River

- Overall, the main channel was predominately clear; there was one medium sized log in the B40-B43 vicinity.
- There was some debris along the shorelines between B43 and B49.

Leesville Lake

- The main channel contained several areas of mulchy debris and various sized logs.
- The highest concentration of debris was located between MM 5 – 8 with additional noted concentrations in MM 13 - 14.5 area.

Proposed Debris Removal Plans: Utilizing debris removal equipment and crews dedicated to each lake, Appalachian will maintain crews on both Smith Mountain Lake and Leesville Lake. Appalachian's Smith Mountain crew will work one-two, 10-hour days and the Leesville Lake crew will work two-three, 10-hour days (any days Monday through Thursday depending upon debris loading, weather, holidays, and staff availability) to take advantage of reduced travel times and lighter boat traffic. During this period (with routine lake inflow conditions), the Leesville Lake Crew will remove debris from coves on an average of one of the days (as the Lake Crew works an area and it would be inefficient to move from cove to cove). Additionally, Appalachian's contractor will assist with debris removal from the MM8-14 area one day a week, as available, and on the Roanoke River and Beaverdam Creek, as available. There may be periods of times when either crew will work more than the number of days proposed depending upon debris loading, schedules, and/or survey observations. Any changes will be noted in the monthly report.

For Smith Mountain Lake, Appalachian's priorities will be 1) main channel and public access areas; 2) areas along the shoreline where debris could reenter the main channel; and 3) maintenance – debris in the backs of coves. For Leesville Lake, Appalachian's priorities will be 1) Leesville forebay and main channel (with on-average one day spent working on the coves adjacent to the main channel being worked; 2) areas along the shoreline where debris may re-enter the main channel; and 3) maintenance – debris in the backs of coves.

Removing debris around docks remains a challenge because of wind, shallow water, potential property damage, limited space between docks, etc. Should property owners wish to push debris out to Appalachian's equipment, they may do so should the equipment be available. Appalachian asks for property owners wishing to push debris to Appalachian's equipment to clearly communicate their intentions so as to maintain a safe working environment for all parties. If during its maintenance efforts,

Appalachian can remove debris from around a dock, it will do so. Appalachian continues to encourage lake property owners and users to tie floating debris to shoreline, not docks or other personal property structures. Appalachian requests the Debris TRC's assistance with this communication.

Debris removed from Smith Mountain Lake is disposed at an approved debris off-site disposal location. Debris removed from Leesville Lake may be hauled directly to an approved off-site location, a nearby landfill, or temporarily stored below the Leesville Dam. At such time when the Leesville Dam site is nearing capacity, Appalachian will perform chipping and off-site disposing of the debris. A ramp dedicated to debris removal has been installed at the Myers Creek Public Boat Access Facility. Efforts continue to obtain a stormwater management permit from the Virginia Department of Environmental Quality/Pittsylvania County to develop the site as an additional debris offloading and temporary storage site. Myers Creek site is closer to the Pigg River, which is a significant source of debris into Leesville Lake.

Should additional high flow events occur resulting in additional debris loading into the Project, Appalachian will reassess its plan (including the possibility of reallocating non-Lake Crew staff, work schedules, and debris removal locations) and coordinate any revisions to this plan to the Debris TRC.

Section 3.0 Management Measures of the DMP and more specifically, Section 3.1 Debris Removal states "Appalachian working with TLAC and LLA will annually establish a blanket contract with a contractor(s) to assist in debris removal efforts when it is determined, in consultation with TLAC and LLA, to be essential". Appalachian currently contracts with Clifton F. Byrd and Sons. They have assisted Appalachian primarily with debris removal efforts on the Roanoke River to allow the Smith Mountain Lake Crew to concentrate its efforts on the Blackwater River and to allow for a separate lake crew on Leesville Lake. In addition to removing debris on the Roanoke River, the contractor also removes debris from Leesville Lake, working out of Three Pipes (MM8), as needed, and assists with hauling debris removed from Leesville Lake when it can improve the efficiency of the Leesville Lake Crew's debris removal efforts.

Additionally, Appalachian has researched the availability of other contractors that meet American Electric Power's contractor procurement requirements. Historically, Appalachian has also donated funds to TLAC and to the LLA on occasion to allow them to oversee debris removal contractors. Appalachian considers the current arrangement with its experienced contractor to be satisfactory.

ⁱ A description of "currently being done" is described in Section 2.1 of the DMP. In short, prior to July 2008, one "skimmer" was utilized for both reservoirs and TLAC received and forwarded debris reports to APCo, hauled debris, covered landfill costs, contracted with debris removal contractors following high flow events, and assisted in coordination of Take Pride In Smith Mountain Lake. The LLA also contracted with debris removal contractors following high flow events and assisted with Leesville Lake Beautification Day. It is also noted that for Leesville Lake, natural debris was stacked on shore and allowed to dry; the material either burned on site or taken off-site for appropriate disposal.

APPALACHIAN POWER COMPANY
SMITH MOUNTAIN PUMPED STORAGE PROJECT, NO. 2210
ARTICLE 411 - DEBRIS MANAGEMENT
ANNUAL REPORT
JANUARY 1, 2022 - DECEMBER 31, 2022

Appalachian Power Company
Hydro Generation
P.O. Box 2021
Roanoke, Virginia 24022-2121

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Appendices

Appendix A Reports of Debris

Appendix B Map of Off-load Sites

Appendix C Consultation

1.0 Introduction

The following Debris Management Plan Annual Report for the Smith Mountain Project No. 2210 (Project) was prepared in accordance with License Article 411 (Debris Management) approved and modified by the *ORDER ISSUING NEW LICENSE* issued on December 15, 2009 and the *ORDER ON REHEARING AND CLARIFICATION* issued September 16, 2010 by the Federal Regulatory Commission (Commission). The Debris Management Plan (DMP) requires that Appalachian Power Company (Appalachian) compile and file with the Commission an annual report regarding certain activities identified in the DMP. According to Section 5.0, Report, Appalachian is to prepare an annual report documenting debris removal efforts. The annual report will contain the following:

- a. Summary of the amount of debris removed for each lake including details of the methods used.
- b. Summary of debris removal efforts that take place outside of the license or by other parties
- c. Summary of Volunteer Lake Cleanup Efforts
- d. Summary of Education Efforts
- e. Discussion of the off-load sites utilized to remove debris, an update on status of securing additional sites and alternative methods that are identified
- f. Summary of evaluation of sites for possible debris diversion and collection devices
- g. Details of any plans that require Commission approval including costs and implementation schedule
- h. Proposed modifications to the plan.
- i. Consultation documentation

On September 11, 2012, the Commission issued an *Order Amending Debris Management* approving Appalachian's request to amend the filing date from January 30th to March 31st of each year.

2.0 Summary of the amount of debris removed for each lake including details of the methods used

In the *Order on Rehearing and Clarification* issued September 16, 2010, the Debris Management Plan was modified to clarify Appalachian's responsibilities for debris removal. From April through October, Appalachian is to remove and properly dispose debris from the Project reservoirs that creates safety hazards, interferes with public access to public recreation facilities, or results in adverse aesthetic impacts. Appalachian must address, throughout the year, recreational hazards created by floating debris resulting from high flow events, including not only the removal of floating debris immediately after the high flow event, but also removal of floating debris created by dislodged debris on an ongoing basis after the event has occurred.

Signs are posted at public boat ramps and/or marinas alerting the public of debris in the main channel.

Below is a summary of debris removed from each lake in 2022 (rounded to nearest ton), including Volunteer Lake Cleanup efforts:

Smith Mountain Lake

Volunteer Lake Cleanup Effort	4 tons*
Appalachian crew and equipment	425 tons
Contractor	<u>200 tons</u>
Total	629 tons

Leesville Lake

Volunteer Lake Cleanup Effort	47 tons*
Appalachian crew and equipment	1,095 tons
Contractor	<u>40 tons</u>
Total	1,182 tons

Total Tonnage Removed from the Project 1,811 tons

*tonnage also included in the totals reported in Section 4.0

A total of five high flow events occurred during 2022, resulting in one or more rivers to the Project reaching their respective trigger stage (i.e., gauge height). Reaching the triggers prompts additional post-high flow debris surveys and removal of floating debris from the main channels.

Under normal inflow conditions, Appalachian is required to remove floating debris from Smith Mountain Lake and Leesville Lake from April through October. Debris removal from both lakes in 2022 began in February and continued through October for Leesville Lake and through December for Smith Mountain Lake. Debris removal was supported by Appalachian's contractor during eight of the months on Smith Mountain Lake and two months on Leesville Lake.

As stated above, there were five high flow events in 2022, each requiring debris removal crews to conduct post-high flow debris surveys and public boat ramps inspections. High flow events result in increased volume of debris entering the developments. Accordingly, debris removal efforts are escalated following high flow events.

On both lakes, Appalachian utilizes 30-foot wide by 60-foot long barges equipped with a push boat and an excavator for removing large items and bulk debris. On Smith Mountain

Lake, debris is loaded into a 30 cubic yard roll-off dumpster staged on the barge. When fully loaded the average weight is 10 tons per dumpster. The dumpsters are off loaded from the barge and then transported to the landfill for disposal. At Leesville Lake, the debris is loaded directly onto the barge and transported to one of multiple sites where it is offloaded. The woody debris offloaded at the Leesville Dam site is first chipped/shredded, loaded into trucks, and then transported off site to a facility where it is repurposed as a fuel supply or landscaping mulch product.

Appalachian's contractor utilizes similar equipment and methods for debris removal.

A multi-purpose work boat is also utilized on Leesville Lake to aid in the removal of smaller solitary items such as dead animals, solitary logs, floating docks, etc.

As previously stated, Appalachian is to remove and properly dispose of debris from the Project reservoir that creates safety hazards, interferes with public access to public recreation facilities, or results in adverse aesthetic impacts. Appalachian must address, through the year, recreational hazards created by floating debris resulting from high flow events, including not only the removal of floating debris immediately after the high flow event, but also removal of floating debris created by dislodged debris on an ongoing basis after the event has occurred. While complying with these license requirements, Appalachian's debris removal crew also removes debris from coves and shorelines in an effort to be proactive and efficient in its use of time and expenditures.

With the implementation of the new license in 2010, the public began reporting debris directly to Appalachian either through Appalachian's website (www.smithmountainproject.com) or by calling Appalachian's toll-free Customer Operations Center. Use of the website allows submission of information by the user, which results in an email to appropriate Appalachian staff. The Tri-County Lakes Administrative Commission (TLAC), a joint county lake administrative organization, regularly makes debris reports on behalf of citizens, and does so via Appalachian's website.

Appalachian's Customer Operations Center is staffed 24 hours a day, seven days a week and 365 days a year. The Customer Operations Center requests information from the caller pertaining to the location (address, area of the lake or closest lateral mark) and type of debris observed. The Customer Operations Center then sends an email to Hydro personnel, providing the information. This information is then entered into a database and, along with the information obtained during the monthly debris surveys, is utilized in determining the appropriate locations for staging equipment. Each month following the debris survey, Appalachian staff consults with the Debris Technical Review Committee on the proposed location(s) for debris removal.

Appendix A includes a table of the calls and debris reports via the website (including those entered by TLAC) or the Customer Operations Center. In 2022, 258 debris reports were recorded; of that number, 169 pertained to Smith Mountain Lake and 89 pertained to Leesville Lake. As indicated on the table in Appendix A, some of the reports are duplicates. Reports of debris are beneficial in determining where to focus crew

and/or contractor operations. Note that it is often not possible to give a specific date when debris was removed from a given reported location due to the mobile nature of floating debris. Also note that it may not be possible to know what debris was associated with routine monthly debris removal (April-October) versus post-high flow debris removal, or whether or not the debris removed was a license requirement.

3.0 Summary of debris removal efforts that take place outside of the license or by other parties

The Virginia Department of Transportation (VDOT) does, on occasion, remove debris from the Blackwater River that has accumulated at Brooks Mill Bridge (Route 834). VDOT did not remove debris from the Brooks Mill Bridge in 2022.

In addition to VDOT, contractors, and volunteers (both on the cleanup days and throughout the year), it should be recognized that the Smith Mountain Marine Volunteer Fire and Rescue (SMMVFR) assists in retrieving floating logs and solitary items such as floating docks from the main channel and securing them to the shoreline for subsequent removal by Appalachian.

4.0 Summary of Volunteer Lake Cleanup Efforts

Volunteer cleanup efforts were conducted during 2022 on both lakes. As previously noted, the amount of debris listed in Section 2.0 includes amounts removed during the cleanup efforts. Summaries of each volunteer event are provided below.

In addition to scheduled/organized events, individual property owners are observed throughout the year removing trash and floating debris. Numerous stockpiles of natural wood debris are visible along the shorelines of the lakes, where property owners are waiting for the wood to dry and for fire bans to be lifted before having bonfires along the lakes' edge. Also, Appalachian installed a pole in Leesville Lake in a cove near the public recreation area where floating debris may be tied off for later retrieval by Appalachian's debris removal crew.

4.1 Take Pride in Smith Mountain Lake

The 2022 Take Pride in Smith Mountain Lake cleanup event was again held throughout the month of May. Individual groups comprised of residents and businesses held their own events and were provided with clean up supplies. There were a total of 12 debris collection reports with 128 participants. The cleanup efforts covered approximately 25.4 miles and resulted in over 4 tons of trash and debris removed for disposal.

4.2 Leesville Lake Beautification Day

The Leesville Lake Beautification Day was held on June 11, 2022. Participants removed approximately 47 tons of debris, which was offloaded at three locations on the lake. Appalachian's debris removal crew also participated and staged its barge at the location requested by the Leesville Lake Association Beautification Day representative. A total of 30 tons of debris was collected on the barge.

5.0 **Summary of Education Efforts**

Section 3.4 of the Debris Management Plan states that Appalachian will work with TLAC, the LLA, and stakeholders to educate the public regarding the impact debris has on recreation, the environment, and aesthetics for both lakes. Educational efforts include newsletters and online articles generated by TLAC and LLA, and the availability of "Frequently Asked Questions" on Appalachian's website (www.smithmountainproject.com). The website includes photographs of the types of debris that may and may not be removed as well as photographs of Appalachian's debris removal equipment.

Additionally, signage is installed at public boat ramps warning the public of potential debris conditions. Also, high flow and/or debris related information was communicated via numerous news releases, media articles, and social media postings (e.g., Appalachian's Smith Mountain Facebook page and Nextdoor).

The brochure entitled *Guidelines for Fish Habitat along Shorelines at Smith Mountain Lake* continues to be distributed. This brochure provides information to property owners on how to create aquatic habitat enhancements utilizing debris recovered from the lake or removed from the shoreline.

Monthly reports indicating debris removal locations, days worked, amounts of debris removed, proposed work locations for the upcoming month, etc. are provided via emails to the Debris Technical Review Committee. TLAC, through its website (<http://sml.us.com/environmental/debris-removal-projects/>), also educates the public regarding debris removal responsibilities.

6.0 **Discussion of the off-load sites utilized to remove debris, an update on status of securing additional sites and alternative methods that are identified**

The following off-load sites were utilized by Appalachian or its contractor during 2022:

Smith Mountain:

- VDOT ramp at end of State Road (Webster Road) on Blackwater River
- Camp Kilowatt – private Appalachian-owned property on Blackwater River
- Waterwheel Marina – private commercial ramp on Roanoke River

Penn Hall – private Appalachian-owned property on Bull Run

Leesville:

Leesville Dam

Private property owner ramp (Three Pipes)

A map showing the off-load sites utilized in 2022 is included as Appendix B.

The off-load sites utilized during 2022 were sufficient for addressing debris removal throughout the year. However, on August 14, 2020, and supplemented on September 10, 2020, Appalachian filed to amend the Debris Management Plan to add a debris off-load site at the Myers Creek Public Boat Access Facility at the Project's Leesville Development. The Commission issued its order approving modification of the plan to add this site on September 16, 2020. Construction of the Myers Creek debris off-load site is expected begin pending completion of permit issuance by Pittsylvania County, Virginia. Additional sites may be considered at both developments in the future to improve off-loading efficiency.

Appalachian utilized dedicated lake crews and equipment in 2022. Appalachian's contractor performed debris removal on both lakes.

7.0 Summary of evaluation of sites for possible debris diversion and collection devices

None of the sites currently utilized for debris off-loading are considered to be conducive to installing debris diversion and collection devices as they are private ramps, state-managed public ramps, or located in an area that does not receive heavy debris during high flow events. In 2020, Appalachian expanded its efforts to evaluate the feasibility of debris diversion and collection devices as described in Section 3.2 of the Debris Management Plan and to monitor the availability of lands in the area of the Pigg River, a major contributor of debris on Leesville Lake. Appalachian's evaluation of possible debris diversion and collection measures includes engineering and cost-benefit analysis, impacts to surrounding properties, navigation, safety concerns, permitting implications, environmental impacts, and site access. Appalachian continues to conduct exploratory efforts regarding the feasibility and permitting requirements of a debris diversion/collection measures. Should it seem feasible to consider the installation of a debris diversion and collection measures after review of the above described environmental and engineering considerations, debris diversion and collection measures supported by Appalachian, TLAC, LLA, and other stakeholders will be considered. Pursuant to the Debris Management Plan, prior to implementation, any proposed plans for debris diversion devices or collection devices will be filed with the Commission for review and approval.

8.0 Details of any plans that require Commission approval including costs and implementation schedule

There are no plans at this time that require Commission approval.

9.0 Proposed Modifications to the Plan

There are no proposals to modify the DMP at this time.

10.0 Consultation Documentation

The annual Debris Technical Review Committee meeting was held on April 26, 2022. Meeting notes are included in Appendix C.

A draft copy of the 2022 Smith Mountain Project Debris Management Plan Annual Report was forwarded to the Debris Technical Review Committee for a 30 day review period on March 1, 2023. Copies of the correspondence are included in Appendix C.

Appendix A

Debris Reports

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
1/10/2022/No	Smith Mountain/Craddock Creek/C3A	Large tree under dock	2/14/2023	
1/13/2022/No	Smith Mountain/Gills Creek/G10	Old dock	4/5/2022	
1/14/2022/Yes	Smith Mountain/Roanoke/R43	Large trees and logs	6/5/2022	
1/18/2022/Yes	Leesville//MM1-MM2	Large logs	Not found 1/26/2022	
1/19/2022/No	Smith Mountain/Roanoke/R30	Tree	4/3/2022	Duplicate report contacted on 9/7/2021/
1/20/2022/No	Smith Mountain/Roanoke/R31	Floating dock	4/3/2022	
1/26/2022/No	Leesville//MM2	16x10 foot log	3/15/2022	
1/31/2022/No	Smith Mountain/Roanoke/R13	Floating dock with yard debris on it	2/16/2022	
2/5/2022/No	Smith Mountain/Roanoke/R27	Floating jet ski dock	4/5/2022	
2/6/2022/No	Smith Mountain/Roanoke/R13	Full tree and branches 20-25 feet	4/4/2022	
2/6/2022/No	Smith Mountain/Roanoke/R47	Large tree and logs	6/3/2022	
2/6/2022/No	Smith Mountain/Roanoke/R30	40-50 foot tree	2/16/2022	
2/7/2022/Yes	Smith Mountain/Roanoke/R26-27	Floating dock with wood debris on top	2/16/2022	
2/7/2022/Yes	Smith Mountain/Roanoke/R25	Floating dock	2/16/2022	Duplicate Report
2/10/2022/No	Smith Mountain/Roanoke/R30	Large tree	2/16/2022	DuplicateReport
2/11/2022/No	Smith Mountain/Witcher Creek/W1	Tree fallen in water still attached to shore		Forward to Shoreline Management 2/15/2022/
2/18/2022/No	Smith Mountain/Blackwater/B29	Piece of wood size of a door	4/5/2022	Duplicate report sent 2/18/2022 did not enter in DB
2/28/2022/Yes	Smith Mountain/Blackwater/B10A	Dead deer	3/2/2022	
3/2/2022/Yes	Smith Mountain/Roanoke/R31	Long dock floater	4/1/2022	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
3/2/2022/Yes	Smith Mountain/Blackwater/B10A	Dead deer	3/2/2022	Duplicate - First reported 2/28/2022 by 911 dispatch/
3/2/2022/Yes	Smith Mountain/Blackwater/B10A	Dead deer	3/2/2022	Duplicate - First reported 2/28/2022 by 911 dispatch/
3/7/2022/No	Smith Mountain/Roanoke/R58	Trash, tennis balls, branches, brush	4/1/2022	
3/7/2022/No	Smith Mountain/Roanoke/R47	tremendous amounts of fallen trees laying in lake	4/1/2022	
3/11/2022/No	Smith Mountain/Gills Creek/G10	Dock	4/6/2022	
3/17/2022/No	Smith Mountain/Roanoke/R36	substantial amount of huge logs in cove	6/3/2022	
3/17/2022/No	Smith Mountain/Blackwater/B43	Logs brush stumps	4/12/2022	
3/24/2022/Yes	Smith Mountain/Blackwater/B49	Trees, stumps, trash	Not found 4/12/22	
3/25/2022/Yes	Smith Mountain/Blackwater/B37	Two larger trees one is approximately 60 feet e	4/5/2022	
3/25/2022/No	Smith Mountain/Roanoke/R49	24' Floating Dock	3/25/2022	
3/25/2022/No	Smith Mountain/Roanoke/R30	large tree limb with branches	6/10/2022	
3/26/2022/Yes	Smith Mountain/Blackwater/B46	Logs	4/12/2022	
3/28/2022/No	Smith Mountain/Roanoke/R27	Large logs - tree parts, junk		Debris Inaccessible. Back of cove shallow water/
3/31/2022/Yes	Smith Mountain/Blackwater/B46	Logs, branches etc	4/21/2022	
4/1/2022/Yes	Smith Mountain/Blackwater/B12	8ft x 10ft floating dock	3/31/2022	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
4/1/2022/Yes	Smith Mountain/Roanoke/R30	Tree and logs	4/1/2022	
4/3/2022/Yes	Smith Mountain/Roanoke/R13	Old trunk and stump 8' x 30'	4/4/2022	
4/3/2022/Yes	Smith Mountain/Witcher Creek/W1	Dead Deer	4/4/2022	
4/4/2022/Yes	Smith Mountain/Roanoke/R13	Tree trunk	4/4/2022	
4/4/2022/Yes	Leesville//MM2	floating wooden pallet	Not found 4/6/2022	
4/5/2022/Yes	Leesville//MM1.5	Branches and trash floating	Not found 4/6/22	
4/5/2022/Yes	Leesville//MM10.5	Huge 20ft tree with massive rootball	5/12/2022	
4/14/2022/Yes	Smith Mountain/Roanoke/R47	tremendous amount of fallen trees	6/3/2022	
4/15/2022/Yes	Smith Mountain/Gills Creek/G10	logs of varying size, some trash, etc.	Cannot reach (deep water 5/16/2022)	
4/17/2022/Yes	Smith Mountain/Roanoke/R2	Hazard marker in cove	Not found 4/21/2022	
4/17/2022/Yes	Smith Mountain/Roanoke/R47	Long tree trunk plus dead Ash tree	6/3/2022	
4/18/2022/Yes	Smith Mountain/Blackwater/B42	Dock	Not found 4/25/2022	
4/19/2022/Yes	Smith Mountain/Roanoke/R58	trash, tennis balls, branches, brush	6/3/2022	
4/19/2022/Yes	Smith Mountain/Roanoke/R36	substantial amount of huge logs and debris	6/3/2022	
4/20/2022/No	Smith Mountain/Blackwater/B23	Possibly old dock	Cannot reach (Deep water) 5/17/2022	
4/25/2022/Yes	Smith Mountain/Blackwater/B25	Trees in cove	5/17/2022	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
4/25/2022/Yes	Smith Mountain/Roanoke/R37A	Brush, branches, trees, assorted debris mix	6/3/2022	
4/26/2022/Yes	Smith Mountain/Roanoke/R47	Limbs	6/3/2022	
4/28/2022/Yes	Leesville//MM10.5	Huge 20ft tree with massive rootball	5/12/2022	
5/2/2022/Yes	Smith Mountain/Roanoke/R30	Huge log	6/3/2022	Initial report: Reported again on 5/24/2022/
5/4/2022/Yes	Leesville//MM8	Several logs and a stump	5/12/2022	
5/5/2022/Yes	Leesville//MM2-MM3	Floating logs, branches, misc debris	5/5/2022	
5/6/2022/Yes	Leesville//MM10.5	Huge 20ft tree with massive rootball	5/12/2022	
5/6/2022/No	Smith Mountain//B41	Fallen oak tree still attached blocking dock		N/A Forwarded to Shoreline 5/6/2022/
5/9/2022/Yes	Smith Mountain/Blackwater/B46	Trees/brush	5/17/2022	
5/9/2022/Yes	Smith Mountain/Beaver Dam/BE7-9	Misc. trash	Scheduled for 2023	Beaver Dam scheduled for 2023
5/13/2022/Yes	Smith Mountain/Roanoke/R30	40 foot tree	6/29/2022	
5/13/2022/No	Smith Mountain/Gills Creek/G2	Unsure??	N/A	Sitting on bottom - cannot reach (Deep Water) 5/17/2022/
5/14/2022/Yes	Smith Mountain/Roanoke/R49	Large logs	Contractor working in area 6/3/22	
5/14/2022/Yes	Smith Mountain/Blackwater/B46	Tree trunks, logs secured to dock	5/17/2022	
5/17/2022/Yes	Smith Mountain/Roanoke/R47	Tremendous amount of fallen trees	Contractor worked area 6/3/22	
5/17/2022/Yes	Smith Mountain/Gills Creek/G9	Logs	5/17/2022	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
5/18/2022/Yes	Leesville//MM13.5	Large trees clusters of debris	Not found 5/19/22	
5/19/2022/Yes	Leesville//MM8	25' Log blocking ramp	5/19/22	
5/19/2022/Yes	Leesville//MM13.5	Large submerged tree clusters of debris	Not found 5/19/22	
5/20/2022/Yes	Smith Mountain/Bettys Creek/R26	Large tree trunk 10' long	Contractor worked area 8/18/22	
5/20/2022/Yes	Leesville//MM13.5	Signficient amount of debris and lg trees	Item not found 7/6/22	
5/21/2022/No	Smith Mountain/Roanoke/R76	Large amounts of trash, plastic, styrofoam, barrel		
5/23/2022/Yes	Leesville//MM10.5	Two lg logs tied to shoreline	6/8/2022	
5/24/2022/Yes	Smith Mountain/Roanoke/R36	Substantial amount of huge logs and debris in cove	6/3/2022	
5/24/2022/Yes	Smith Mountain/Roanoke/R30	Log	6/3/2022	
5/24/2022/Yes	Smith Mountain/Beaver Dam/BE7	Logs, wood pieces, tree debris	Beaver Dam scheduled for 2023	
5/24/2022/Yes	Smith Mountain/Roanoke/R27	Logs, flip flops, trash, branches	6/3/2022	
5/26/2022/Yes	Smith Mountain/Roanoke/R58	Tires, trees, brush	6/3/2022	
5/28/2022/Yes	Smith Mountain/Roanoke/R30	Tree across the cove	6/10/2022	
5/30/2022/No	Smith Mountain/Gills Creek/Past G10	Heavy Logs		

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
5/31/2022/No	Smith Mountain/Roanoke/R28	Large tree fallen across cove - storm damage	Tree not blocking cove or docks	
5/31/2022/Yes	Smith Mountain/Blackwater/B44	Large logs, sticks	6/1/2022	
5/31/2022/Yes	Smith Mountain/Roanoke/R50	Floating dock	Not found 6/3/22	
5/31/2022/Yes	Smith Mountain/Blackwater/B49	Trees floating in circle, island made of wood	6/1/2022	
5/31/2022/Yes	Leesville//MM2	Three large logs on shore	6/6/2022	
5/31/2022/Yes	Leesville//MM6-7	Driftwood	6/6/2022	
5/31/2022/No	Smith Mountain/Roanoke/R27A	Construction work - debris getting into lake	Status unknown; research underway	
6/1/2022/Yes	Smith Mountain/Blackwater/B48	Logs	6/1/2022	
6/1/2022/Yes	Smith Mountain/Blackwater/B49	Wood, logs, bottles	6/1/2022	
6/1/2022/Yes	Smith Mountain/Blackwater/B12	Floating Dock	Tied to ramp 6/21/22	
6/1/2022/Yes	Smith Mountain/Blackwater/B48	Trees and logs	6/14/2022	
6/1/2022/Yes	Smith Mountain/Roanoke/R34A	Dead dog	Not found 6/3/22	
6/2/2022/Yes	Leesville//MM8	Hundreds of large logs	6/7/22 and 6/8/22	
6/2/2022/Yes	Smith Mountain/Blackwater/B49	Trees floating in circle, island made of wood	6/14/2022	
6/2/2022/No	Smith Mountain/Roanoke/R27	Dead deer	6/3/2022	
6/3/2022/No	Smith Mountain/Roanoke/R27	Dead deer	6/3/2022	Duplicate Report
6/4/2022/Yes	Smith Mountain/Blackwater/B35	Floating Dock	7/25/2022	
6/6/2022/Yes	Leesville//MM2	Multiple large trees	6/7/2022 and 6/8/2022	
6/6/2022/No	Smith Mountain/Blackwater/B11	Log under dock steps	6/6/2022	
6/6/2022/No	Smith Mountain/Roanoke/R37	Large trees being cut down and falling into lake		Forward to Shoreline Management 6/6/2022/

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
6/6/2022/No	Leesville//MM10.5	additional logs tied up, huge log free floating	6/9/2022	
6/7/2022/Yes	Smith Mountain/Roanoke/R32	Large stump	Worked area 6/10/22	
6/7/2022/Yes	Smith Mountain/Roanoke/R27	Logs, flip flops, trash, branches	Worked area 8/18/22	
6/8/2022/Yes	Smith Mountain/Roanoke/R50	Floating Dock	Not found 6/3/22	
6/8/2022/Yes	Leesville//MM8	Debris mat of mixed wood	6/9/2022	
6/8/2022/Yes	Leesville//MM10.5	Mixed debris	6/9/2022	
6/8/2022/Yes	Leesville//MM10.5	Mixed debris	6/9/2022	
6/8/2022/No	Smith Mountain/Gills Creek/G10	Large tree limbs		
6/9/2022/Yes	Leesville//MM8	large poplar tree	6/9/2022	
6/10/2022/Yes	Leesville//MM13.5	Large trees and clusters of debris	Not found 6/21/22	
6/10/2022/No	Smith Mountain/Roanoke/R58	Trash, tennis balls, branches, brush	6/29/2022	
6/10/2022/No	Smith Mountain/Blackwater/B41	Fallen oak tree still attached blocking dock	Tree originated above 800 foot elevation contour and not blocking dock	
6/10/2022/Yes	Smith Mountain/Roanoke/R37A	Two coves full of debris	6/27/2022	
6/12/2022/No	Smith Mountain/Roanoke/R30	Tree under dock	6/29/2022	Duplicate Report:
6/13/2022/Yes	Leesville//MM13.4-13.7	Large trees and clusters of debris	Not found on 7/8/2022	
6/13/2022/Yes	Leesville//MM3	Large log	6/13/2022	
6/13/2022/No	Leesville//MM13.4	Large trees and clusters of debris	Not found on 7/8/2022	
6/13/2022/No	Leesville//MM8.5	Large trees and clusters of debris	Not found on 7/8/2022	
6/13/2022/No	Leesville//MM8.7-9	Large trees and clusters of debris	Not found on 7/8/2022	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
6/14/2022/Yes	Smith Mountain/Roanoke/R42-Bay Roc	Logs, wood, scattered debris	Not found on 7/6/2022	
6/15/2022/No	Smith Mountain/Roanoke/R25	3 large tree limbs near dock and rip rap	Not found on 8/16/2022	
6/17/2022/No	Leesville//MM10.5	large long tree with root ball	Lake Crew worked area 8/8/22	
6/18/2022/No	Smith Mountain/Roanoke/R30	20 foot dead tree under dock	6/24/2022	
6/21/2022/Yes	Leesville//MM2	two large logs	Not found 8/30/23	
6/21/2022/Yes	Smith Mountain/Roanoke/R30	Tree	6/29/2022	3rd report/
6/21/2022/No	Smith Mountain/Roanoke/R30	20 foot dead tree under dock	6/24/2022	Initial Report: 2nd report submitted 2 minutes later/
6/22/2022/No	Smith Mountain/Roanoke/R20	Large dock	6/29/2022	Stuck under stationary portion of their dock/
6/23/2022/Yes	Leesville//MM8	Mixed wood debris	6/23/2022	
6/23/2022/Yes	Smith Mountain/Blackwater/B47-48	Large trees on shoreline near dock	6/29/2022	
6/23/2022/Yes	Smith Mountain/Gills Creek/G2	Single large log	7/28/2022	
6/25/2022/Yes	Smith Mountain/Roanoke/R61	Large tree	Status unknown at this time; will continue to research	
6/25/2022/Yes	Smith Mountain/Roanoke/R36	Dead deer	Not found 6/27/2022	
6/26/2022/Yes	Smith Mountain/Roanoke/R37A	Dead deer	Not found 6/27/2022	
6/27/2022/Yes	Leesville//MM2-3	Big debris field	Not found 7/7/2022	
6/27/2022/Yes	Leesville//MM1.5	Multiple large logs	Not found 7/7/22	
6/27/2022/Yes	Leesville//MM7-9	Mixed wood, logs	7/13/2022	
6/27/2022/Yes	Leesville//MM7-9	Mixed wood, logs	7/13/2022	
7/1/2022/Yes	Smith Mountain/Roanoke/R39	5-7 logs tied to tree in cove	Status unknown, will continue to research	
7/4/2022/Yes	Smith Mountain/Roanoke/R21A	Floating dock	7/25/2022	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
7/5/2022/Yes	Leesville//MM8	Logs tied near MM8	7/19/2022	
7/5/2022/Yes	Leesville//MM1.8	3 lg logs ties to shore	7/20/2022	
7/5/2022/Yes	Leesville//MM8	100's of large trees in main channel and both shor	Not found 7/20/2022	
7/5/2022/Yes	Leesville//MM9	Whole trees, root balls, massive entangled islands	Not found 7/20/2022	
7/5/2022/Yes	Leesville//MM1	Large logs floating between Old womans Ck and Goat	Not found 7/20/2022	
7/6/2022/Yes	Smith Mountain//R11A	Dead deer	Removed by Property Owner 7/6/2022	
7/6/2022/No	Smith Mountain/Gills Creek/G10	Logs, wood debris		
7/7/2022/No	Leesville//MM13.4	Large trees and clusters of debris	Not found 7/26/2022	
7/8/2022/No	Leesville//MM13.4	3 Large trees tangled in silver double dock	Not found on 7/26/22	
7/8/2022/Yes	Smith Mountain/Roanoke/R21	Free floating dock	7/25/2022	
7/11/2022/Yes	Leesville//MM8	Several lg logs/trees on shoreline	7/25/2022	
7/11/2022/Yes	Smith Mountain/Roanoke/R32	Lg stump tied to shoreline	Contractor working in area 8/18/2022/	
7/12/2022/Yes	Smith Mountain/Roanoke/R13	Debris removed from main channel tied to dock	7/12/2022	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
7/13/2022/Yes	Leesville//MM1.5	log tied to dock	8/5/2022	
7/13/2022/Yes	Leesville//MM13.4	Lots of debris as result of storms	8/14/2022	
7/14/2022/Yes	Smith Mountain/Blackwater/B46	Trees and sticks	8/9/2022	
7/14/2022/Yes	Smith Mountain/Roanoke/R30	Tree across cove	Contractor worked in area 8/18/22	
7/15/2022/Yes	Leesville//MM9	large logs, trees submerged logs	Not found 7/26/22	
7/15/2022/Yes	Leesville//MM2	Tree with limbs	Not found on 8/30/22	
7/15/2022/Yes	Leesville//MM11.5	Several trees along shoreline Myers Creek	Not found 7/26/22	
7/18/2022/Yes	Leesville//MM2	Large log in middle of lake	Not found 7/26/22	
7/18/2022/Yes	Leesville//MM8	Large and small logs	Not found 7/26/22	
7/19/2022/Yes	Leesville//MM12	Large tree caught on island near Tolar Bridge	Lake Crew worked area on 7/26/22	
7/19/2022/Yes	Smith Mountain/Walton creek/R21	Floating dock	7/25/2022	
7/19/2022/Yes	Leesville//MM10-14	Large trees and large clusters of debris	Lake Crew worked area 7/26/2022/	
7/19/2022/No	Leesville//MM1.5	Large log and debris	Not found on 8/22/22	
7/19/2022/No	Leesville//MM11	Lots of debris piled up on sandbar	Lake Crew worked area 7/26/22	
7/20/2022/Yes	Leesville//MM8	Large and small logs	Lake Crew worked area 7/25/22	
7/20/2022/Yes	Smith Mountain/Grimes Creek/R39	Log	P/O stated no hurry - were secured. Not worked/	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
7/20/2022/No	Smith Mountain/Roanoke/R60	Lg tree has fallen across rip rap and sidewalk	Forwarded to Shoreline Management Group	
7/20/2022/No	Smith Mountain/Roanoke/R47	Hugh tree. Collection of debris in cove	Previously worked this area 6/3/22	
7/20/2022/No	Leesville//MM2-3	Debris in cove	Not found 8/3/22	
7/21/2022/No	Leesville//MM10.5	Large long tree with root ball	Duplicate report. Lake Crew worked area on 8/8/22	
7/21/2022/No	Leesville//MM2	2 large logs on shoreline	Not found 8/3/22	
7/21/2022/Yes	Smith Mountain/Grimes Creek/R39	Captured another log	P/O stated no hurry - were secured. Not worked/	
7/22/2022/Yes	Leesville//MM12.5	Large trees and clumps of branches and a dock	Not found on 8/22/22	
7/24/2022/Yes	Smith Mountain/Blackwater/B25	Large cut log	Not found on 7/28/22	
7/25/2022/Yes	Smith Mountain/Roanoke/R32	Dead deer	Not found on 7/27/22	
7/26/2022/No	Smith Mountain/Roanoke/R20	Large dock stuck under stationary dock and walkway	8/18/2022	
7/26/2022/No	Smith Mountain/Roanoke/R37A	Logs floating at shoreline	Status Unknown; continuing to research	
7/26/2022/Yes	Smith Mountain/Roanoke/R27	Large logs, wood debris, trash	8/18/2022	
7/26/2022/Yes	Smith Mountain/Beaver Dam/BE7	Logs, wood pieces, tree debris	Beaver Dam scheduled for 2023	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes	
7/30/2022/Yes	Smith Mountain/Blackwater/B29	Log	7/31/22		
8/1/2022/Yes	Leesville//MM1-3	Massive debris field	Not found 8/22/22		7/31/2022
8/1/2022/Yes	Leesville//MM13.5	Large debris field	Not found 8/22/22		
8/1/2022/Yes	Leesville//MM9	large logs, trash	Not found 8/22/22		
8/1/2022/Yes	Leesville//MM2	Lots of debris in LL Marina area	Not found on 8/22/22		
8/1/2022/No	Smith Mountain/Roanoke/R6	Foam filled barrel	Could not locate 8/15/22		
8/1/2022/No	Smith Mountain/Roanoke/R6	Barrel	Not found on 8/15/22		
8/3/2022/Yes	Leesville//MM13.5	Large debris field	Not found on 8/22/22		
8/4/2022/Yes	Leesville//MM8	Large trees along shoreline since July 4	Lake Crew worked area 8/8/22		
8/5/2022/Yes	Smith Mountain/Roanoke/R32	Logs in back of cove	8/18/2022		
8/8/2022/Yes	Leesville//MM8	Logs tied to MM8	8/17/2022		
8/9/2022/Yes	Smith Mountain/Roanoke/HFB	Dead deer	Not located 8/11/22		
8/9/2022/Yes	Smith Mountain/Blackwater/B43	Tree fallen across cove	8/10/2022		
8/12/2022/Yes	Smith Mountain/Roanoke/R81	Part of floating dock	Not found 9/6/22		
8/12/2022/No	Smith Mountain/Craddock/C6	Silt - runoff from construction site	Bedford County		
8/13/2022/Yes	Smith Mountain/Blackwater/B33	Log	Not found 9/15/22		
8/18/2022/Yes	Smith Mountain/Roanoke/R39	5-7 Logs tied to tree in cove	Status unknown at this time; will research		
8/22/2022/Yes	Leesville//MM9	Large logs and trees islands of debris	Not found 8/25/22		
8/22/2022/Yes	Leesville//MM1	Lots of debris in middle of lake	Not found 8/30/22		

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
8/22/2022/Yes	Leesville//MM8	25-30' log tied to MM8	8/25/2022	
8/23/2022/Yes	Smith Mountain/Roanoke/R61	20 log tied to shore	Status unknown at this time; will research	
8/24/2022/Yes	Leesville//MM8	Debris in main channel	Not found 8/30/22	
8/24/2022/No	Smith Mountain/Blackwater/B48	Logs	12/1/2022	
8/24/2022/No	Leesville//MM1.5	Trees fallen into water still attached to shore		
8/29/2022/Yes	Leesville//MM1-3	Debris from July	Not found 8/29/22	
8/29/2022/No	Smith Mountain/Gills Creek/G4	Dead deer	8/29/22 Not in the water but in PO's yard	
9/2/2022/Yes	Smith Mountain/Craddock Creek/C6	Dead deer	Not found 9/6/22	
9/3/2022/Yes	Smith Mountain/Roanoke/R50	Logs, tires,	Status unknown at this time; will continue to research	
9/6/2022/Yes	Leesville//MM9	Telephone pole sized logs and trees	Not found 9/28/22	
9/6/2022/No	Leesville//MM2-3	Wood debris in cove	Not accessible 10/18/2022 shallow water/	
9/6/2022/Yes	Smith Mountain/Roanoke/R25	Dead deer	9/6/2022	
9/8/2022/Yes	Smith Mountain/Roanoke/R54	Log 8-10 inches in diameter	Not found 9/8/22	
9/9/2022/Yes	Leesville//MM8	Large trees along shoreline since July	Not found on 9/28/22	
9/14/2022/Yes	Leesville//MM8	Logs tied to MM8	9/28/2022	
9/14/2022/Yes	Smith Mountain/Blackwater/B34	Dead deer	9/15/2022	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
9/19/2022/Yes	Leesville//MM8	Mixed wood debris	Worked area when?	
9/19/2022/No	Leesville//MM8	Vertical tree under dock		
9/19/2022/Yes	Smith Mountain/Roanoke/R27	Dead deer	9/21/2022	
9/21/2022/Yes	Smith Mountain/Roanoke/R28	Dead deer	9/21/2022	
9/22/2022/No	Leesville//MM2	Sticks	Not found 10/18/22	
9/24/2022/Yes	Smith Mountain/Blackwater/B19	Dead deer	Not found on 9/26/22	
9/26/2022/Yes	Smith Mountain/Blackwater/B23	Floating dock	Status unknown at this time; will continue to research	
10/4/2022/Yes	Smith Mountain/Bull Run/BR3	Dead deer	10/6/2022	
10/5/2022/No	Smith Mountain/Gills Creek/G10	Tree limb		
10/6/2022/Yes	Leesville//MM13	Large log lodged in bottom	10/17/2022	
10/6/2022/Yes	Smith Mountain/Blackwater/B46	Large amount of debris in cove	11/29/2022	
10/7/2022/No	Smith Mountain/Gills Creek/G10	Reporting second log in same location		
10/11/2022/Yes	Leesville//MM8	2 Logs tied to MM8	10/17/2022	
10/19/2022/No	Smith Mountain/Craddock Creek/C3A	Trees under dock		
10/24/2022/Yes	Smith Mountain/Blackwater/B46	Large amount of debris in cove	11/29/2022	
10/31/2022/Yes	Leesville//MM8	1 Large tree at shoreline		
10/31/2022/Yes	Smith Mountain/Blackwater/B19	Dead deer	11/1/2022	
11/3/2022/Yes	Smith Mountain/Roanoke/R11	Floating dock tied to shore	Status unknown at this time; will continue to research	
11/4/2022/Yes	Smith Mountain/Roanoke/R33	Piling/Log	11/10/2022	
11/5/2022/Yes	Smith Mountain/Roanoke/R33	Piling/Log	11/10/2022	

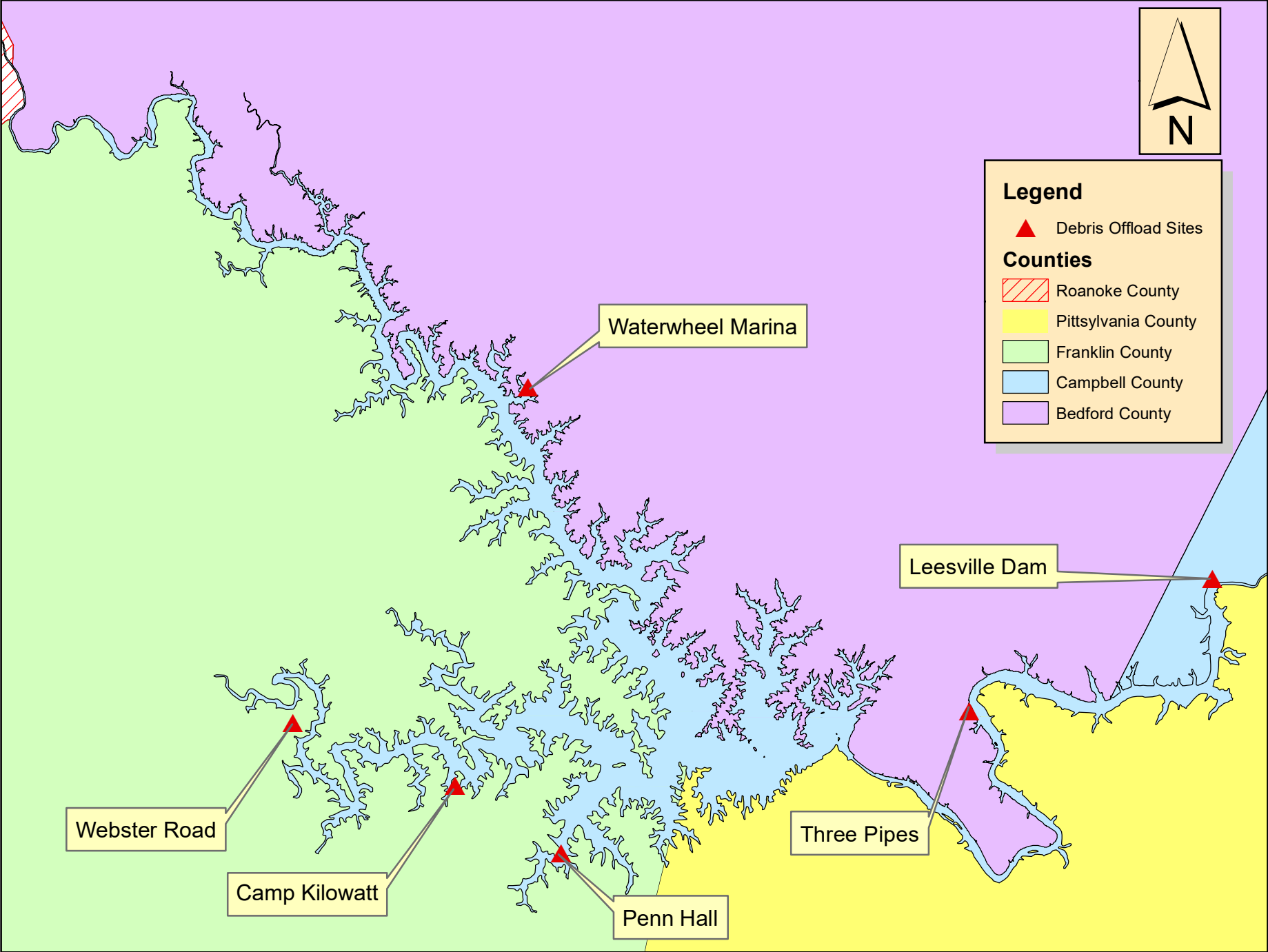
Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
11/7/2022/Yes	Smith Mountain/Roanoke/R33	Log	11/18/2022	
11/12/2022/Yes	Smith Mountain/Blackwater/B48	Large trees and debris	12/1/2022	
11/12/2022/Yes	Smith Mountain/Blackwater/B48	Log and branches	12/1/2022	
11/13/2022/Unknown	Smith Mountain/Roanoke/R27	Large tree trunk	Status unknown; will continue to research	
11/14/2022/No	Smith Mountain/Craddock Creek/C3A	Large tree under dock		
11/14/2022/Yes	Smith Mountain/Blackwater/B46	Woody debris	12/1/2022	
11/15/2022/No	Leesville//MM8	30 foot log tied to shore	Will investigate in 2023	
11/17/2022/Yes	Smith Mountain/Roanoke/R34	Piling	11/18/2022	
11/25/2022/Yes	Smith Mountain/Roanoke/R25	Dead deer	Removed; date unknown	
11/26/2022/Yes	Smith Mountain/Roanoke/R27	Dead deer	Removed; date unknown	
11/29/2022/Yes	Smith Mountain/Blackwater/B49	2 Large logs next marker	12/1/2022	
12/4/2022/Yes	Smith Mountain/Blackwater/B48	Debris in cove	Will remove in 2023	
12/6/2022/Yes	Leesville//MM13.5	Large debris field	Not found on 1/3/8/23	
12/6/2022/Unknown	Leesville//MM13.5	Tree across cove	Status unknown at this time; will research in 2023	
12/6/2022/Yes	Smith Mountain/Roanoke/R16	Floating dock	Status u	
12/8/2022/Yes	Leesville//MM1.5?	Debris mat	Not found 1/18/23	
12/12/2022/Yes	Smith Mountain/Blackwater/B49	Debris	Will remove in 2023	
12/13/2022/No	Smith Mountain/Roanoke/R26	Log under dock		
12/19/2022/Yes	Smith Mountain/Craddock Creek/C3A	Large tree under dock	2/14/2023	
12/20/2022/Yes	Smith Mountain/Roanoke/R25	Debris from logging site	Followed up with VA Department of Forestry	
12/30/2022/Yes	Leesville//MM13.5	3 Logs	Not found on 1/3/23	

Date/License Requirement	Lake/River or Creek/Location/Address	Type of Debris	Date Removed or Resolved	Notes
12/30/2022/Yes	Leesville//MM9	Telephone pole sized logs, Root balls, Large mats	Not found on 1/3/23	

Appendix B

Map of Off-load Sites

Smith Mountain Project No. 2210
2022 Debris Off-Load Sites



Appendix C

Consultation