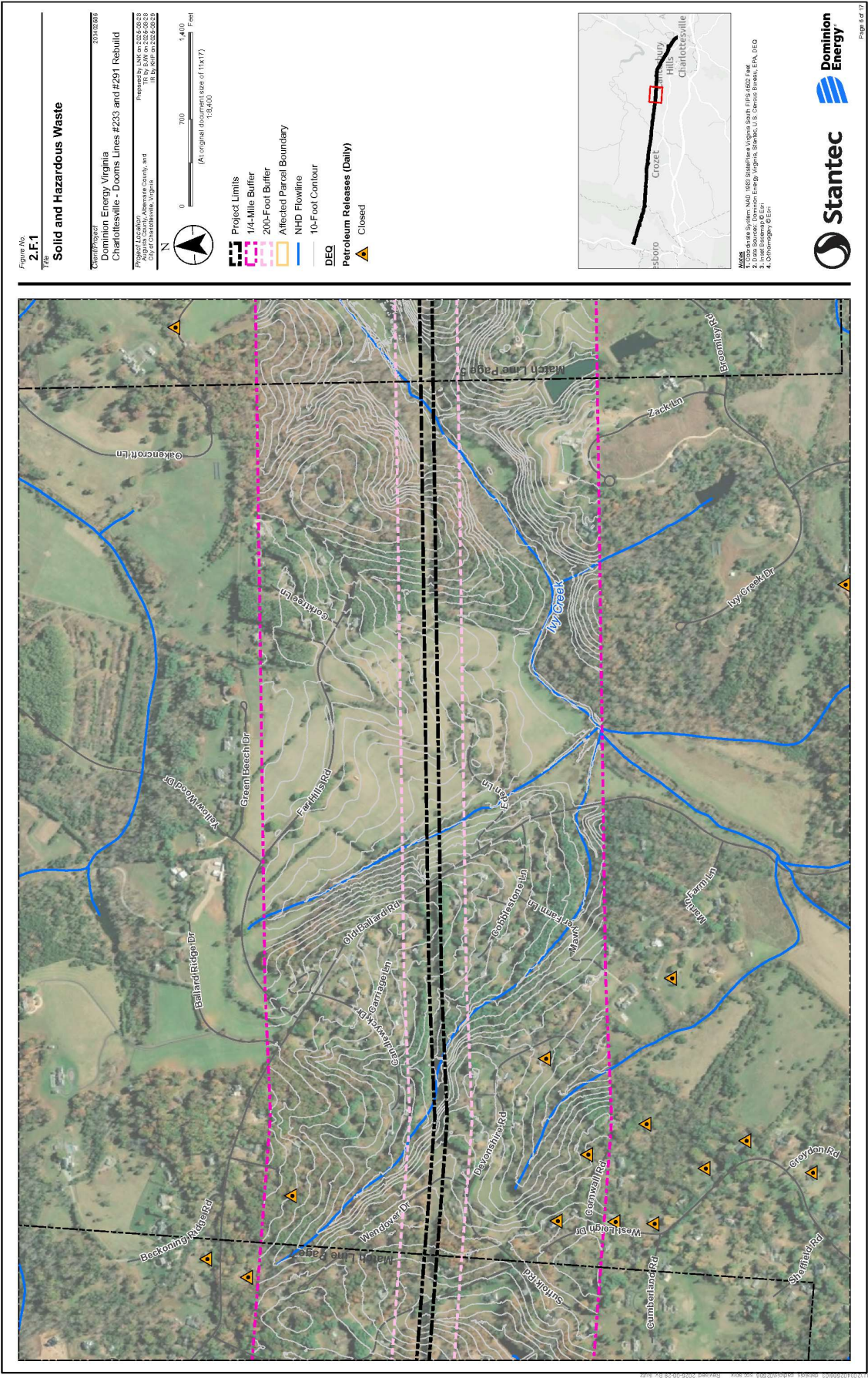
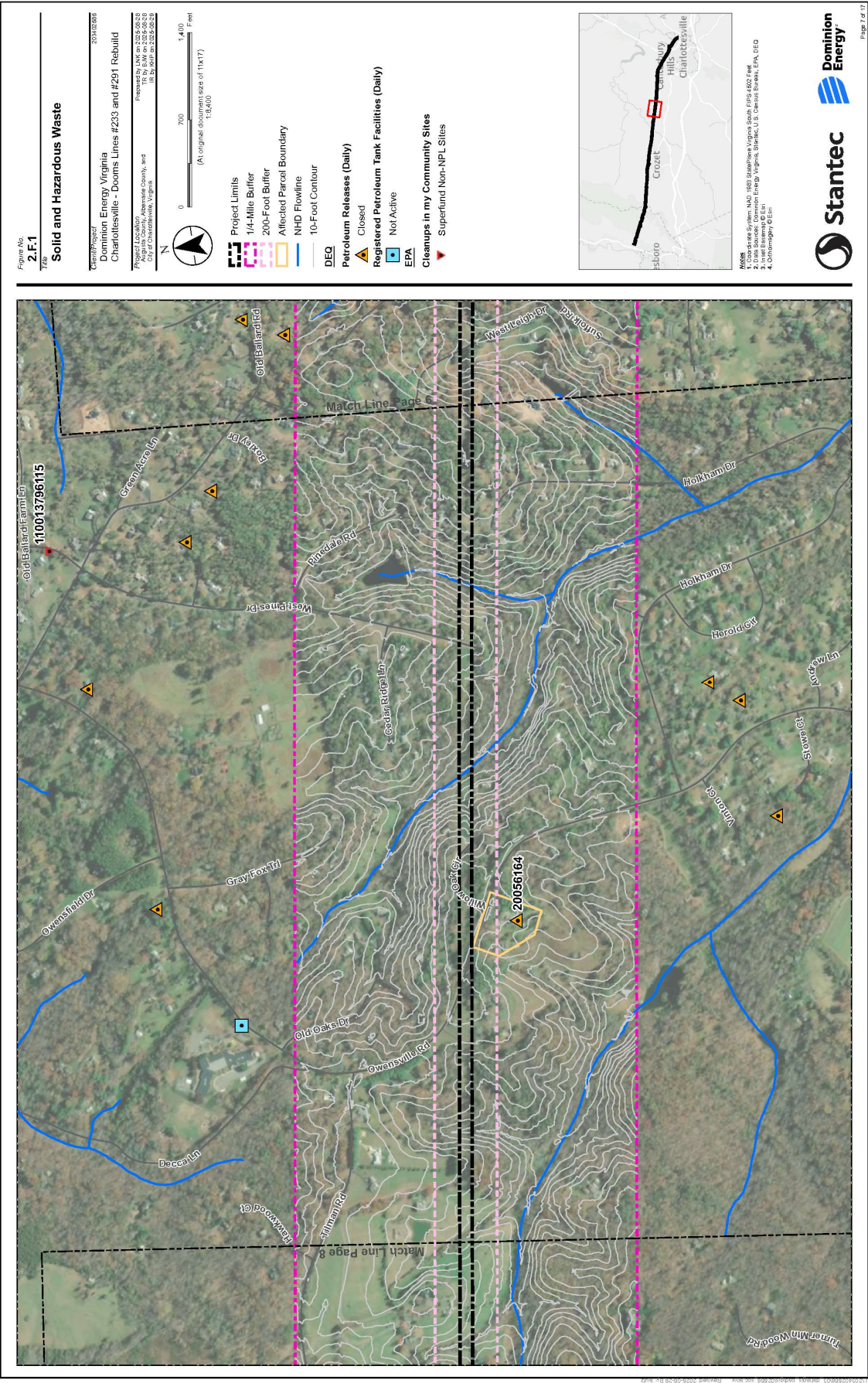
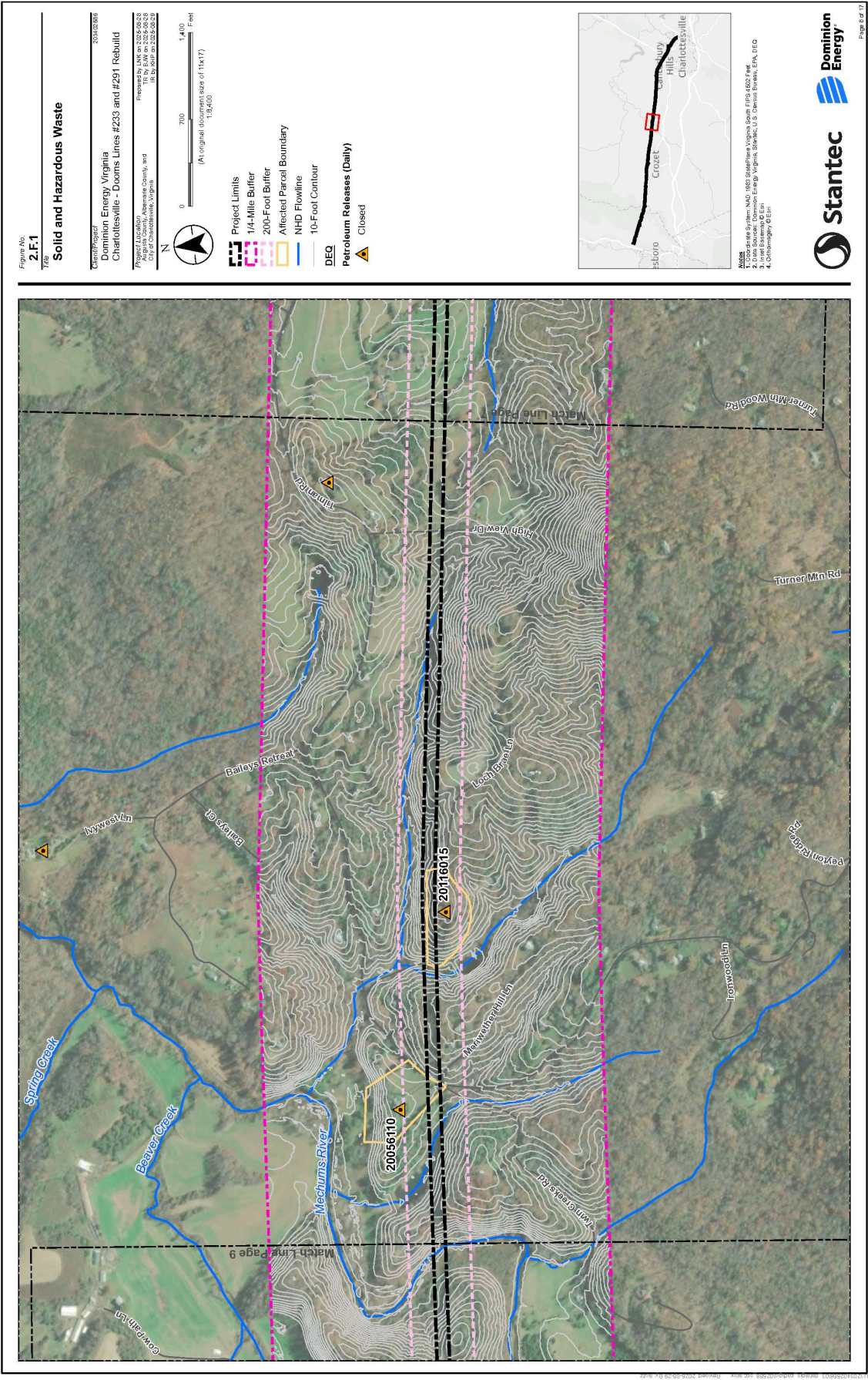


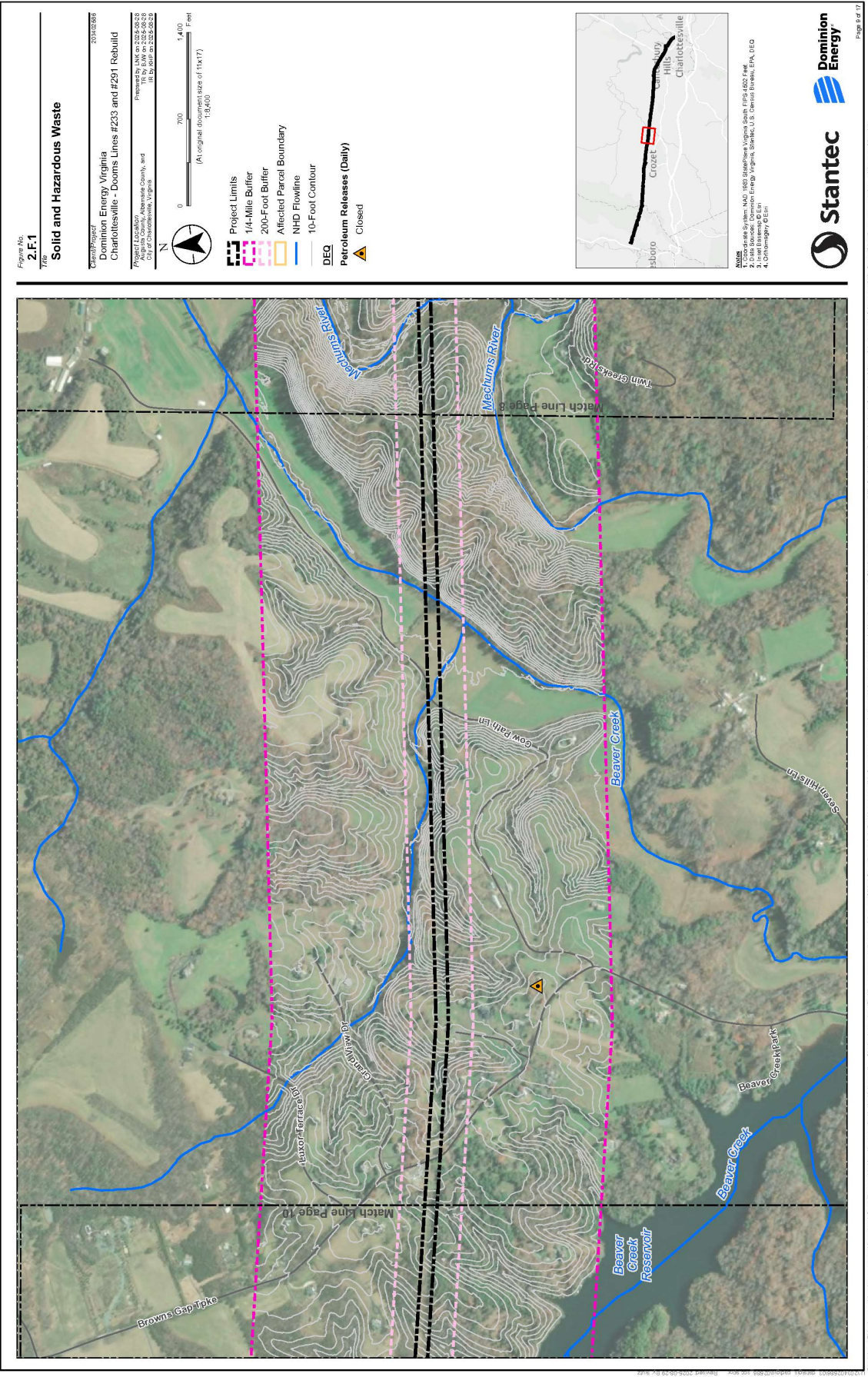


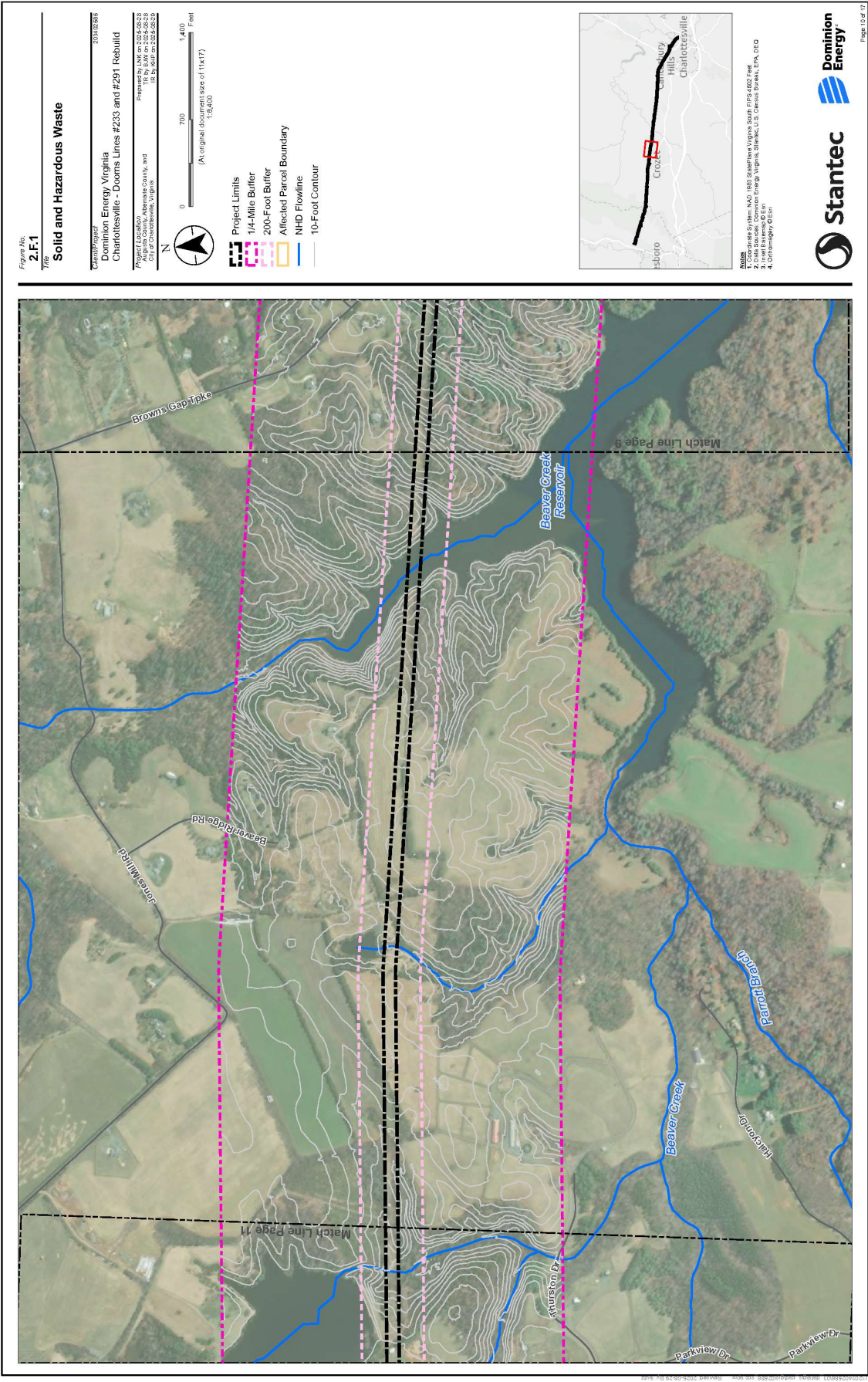


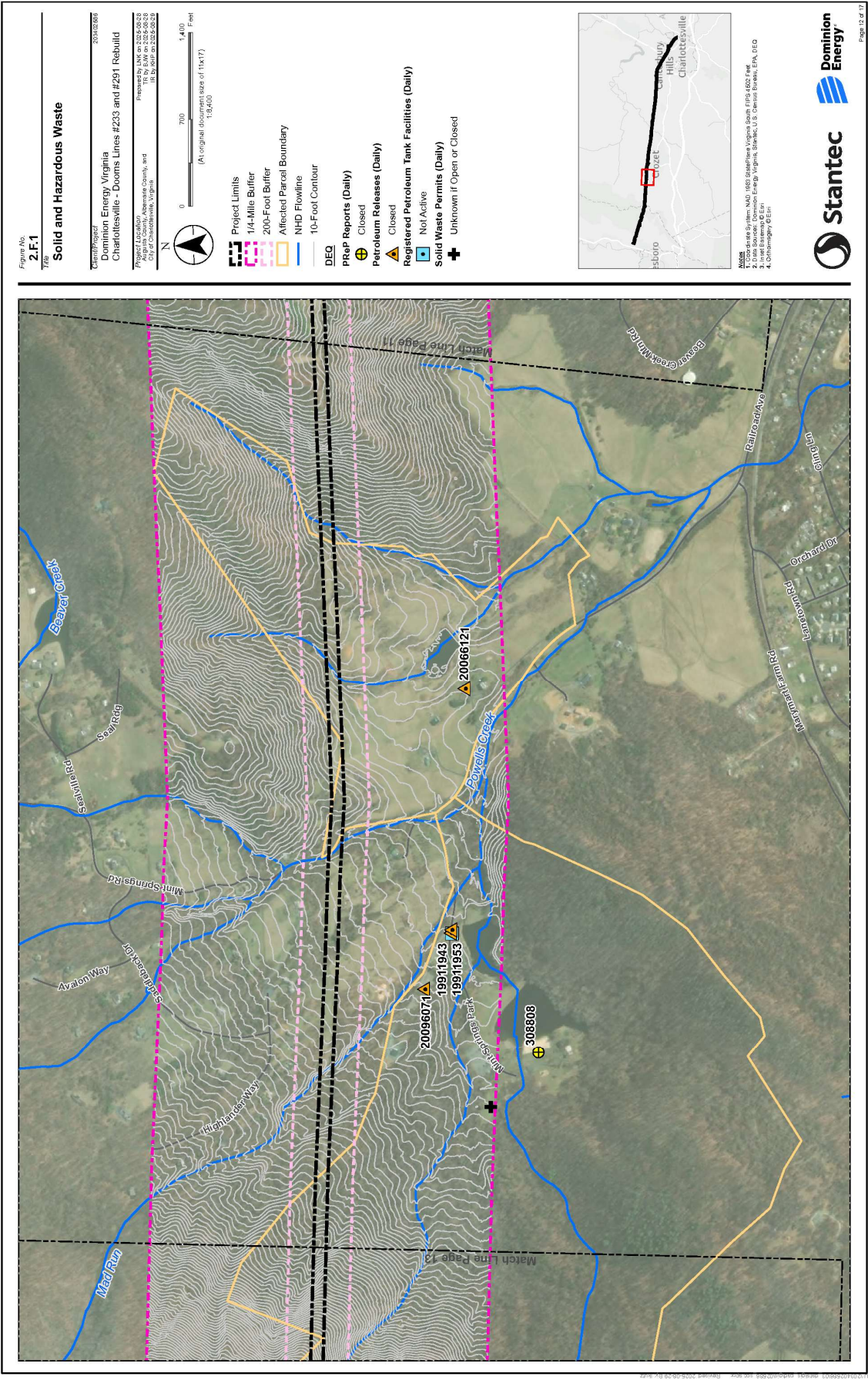
Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

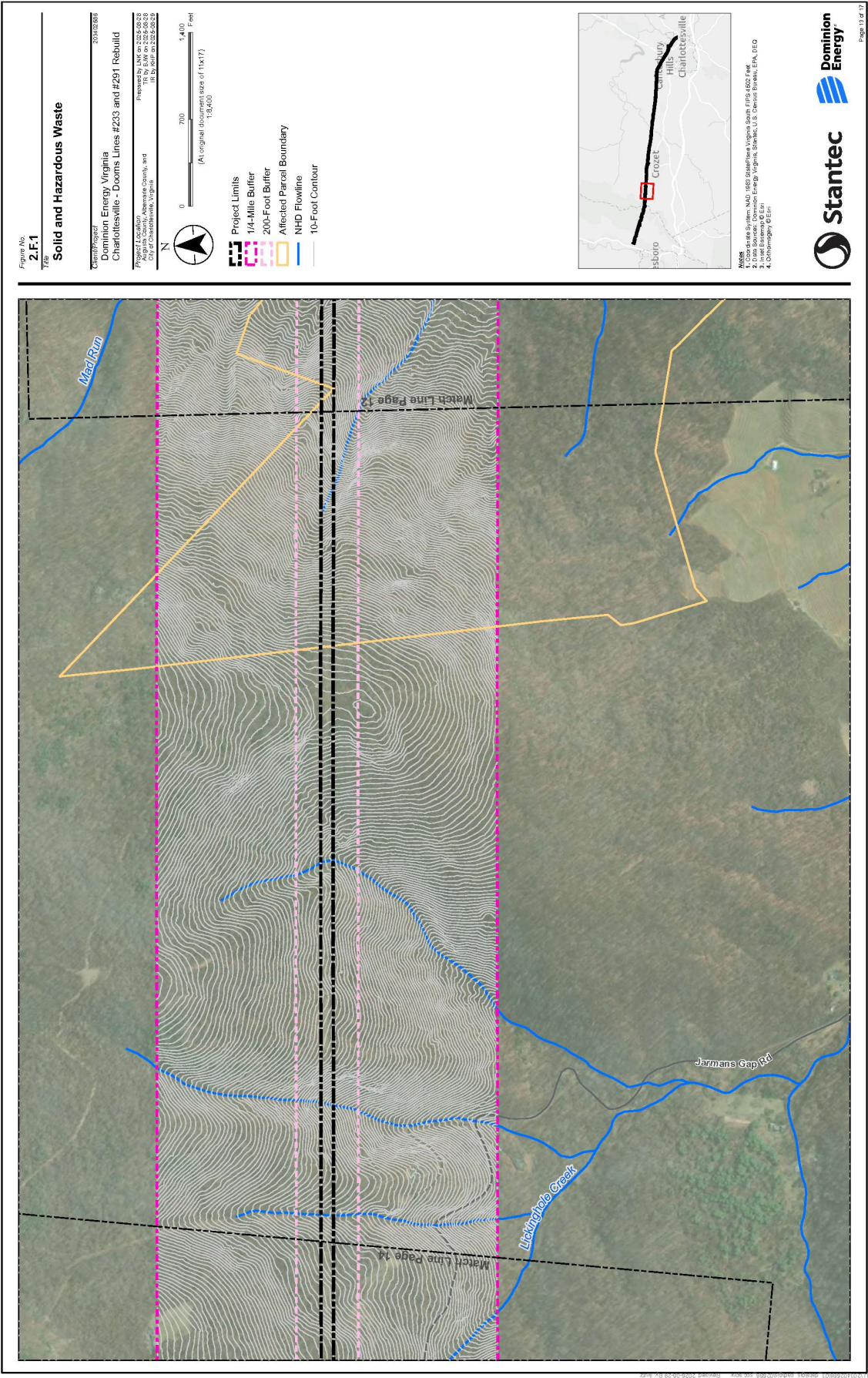


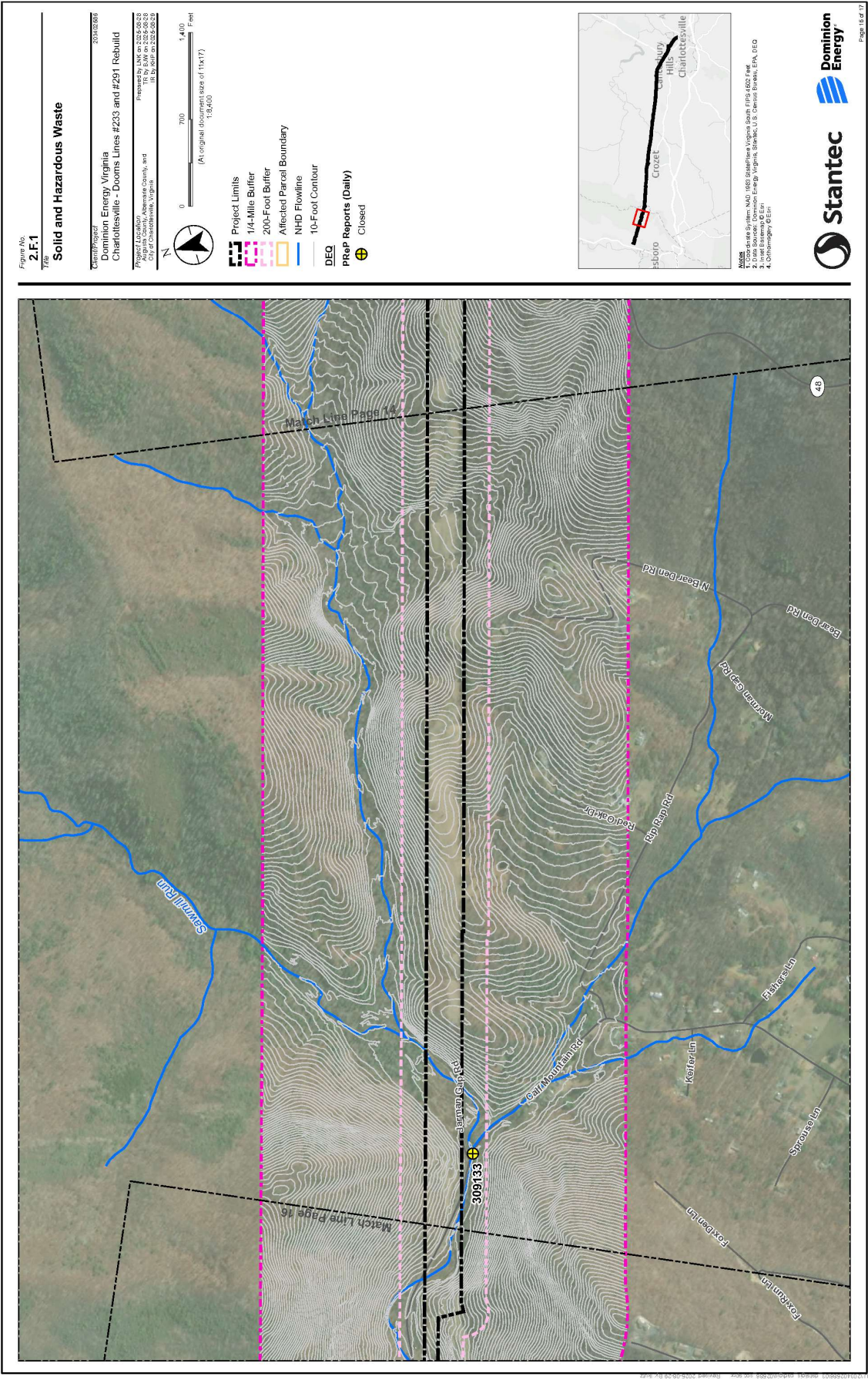
Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

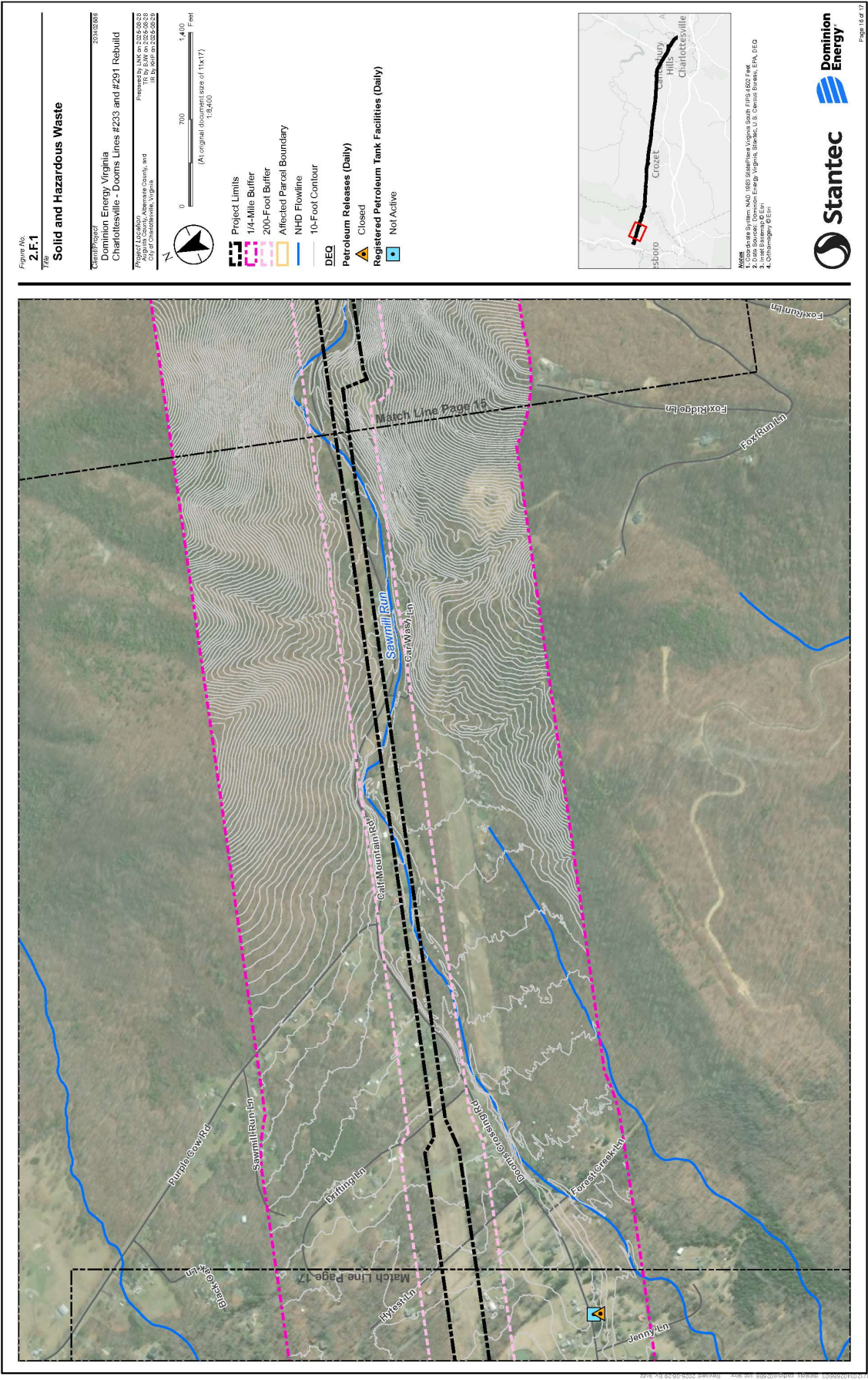












Attachment 2.F.2 DEQ Daily DEQ Daily Petroleum Releases mapped within 0.25 miles and greater than 200 feet from the Rebuild Project area			
Case Number	Case Name	Site Address	Agency Status
PC 20246073	Xu Residence	2307 Angus Rd, Charlottesville, Virginia 22901	Closed
PC 20046071	Thomas Allan Residence	2303 Angus Rd, Charlottesville, Virginia 22901	Closed
PC 20146115	Estate of Sam L Bickers	2301 Angus Rd, Charlottesville, Virginia 22901	Closed
PC 20086075	Raul Arbelaez Residence	1610 Saint Annes Rd, Charlottesville, Virginia 22901	Closed
PC 20126067	Trustees of Boston University	142 W Park Drive, Charlottesville, Virginia 22901	Closed
PC 20216089	Roberts Property	1609 Meadowbrook Heights Rd, Charlottesville, Virginia 22901	Closed
PC 20076068	Stephen Runkle Residence	1733 Dairy Rd, Charlottesville, Virginia 22903	Closed
PC 20166026	Robertson Residence	205 Montvue Dr, Charlottesville, Virginia 22901	Closed
PC 20036119	Former Jane Walls Residence	202 Georgetown Rd, Charlottesville, Virginia 22903	Closed
PC 20226092	Rose Revocable Trust ETAL Property	141 W Park Dr, Charlottesville, Virginia, 22901	Closed
PC 20136101	Virginia Patterson Residence	1317 Grove Rd, Charlottesville, Virginia 22901	Closed
PC 20216079	Theodoridis Va Properties LLC Property	136 N Bennington Rd, Charlottesville, Virginia 22903	Open
PC 20146079	Strzepek Residence	113 Sturbridge Rd, Charlottesville, Virginia 22901	Closed
PC 20166041	Hilton Residence	1706 Old Forge Rd, Charlottesville, Virginia 22901	Open
PC 20176076	Varner Rental Property	1136 Saint Clair Ave, Charlottesville, Virginia 22901	Closed
PC 20126094	McGrath Property	1704 Old Forge Road, Charlottesville, Virginia 22901	Closed
PC 20236049	Moore Residence	102 Bennington Court, Charlottesville, Virginia 22901	Closed
PC 20106002	Richard and Nancy Moore Residence	102 Bennington Court, Charlottesville, Virginia 22901	Closed
PC 20086100	Susan Kennel Residence	1628 Yorktown Dr, Charlottesville, Virginia 22901	Closed
PC 20066152	Wanda Roszak Residence	134 North Bennington Rd, Charlottesville, Virginia 22901	Closed
PC 20126091	Hortense Lasley Trust	207 Montvue Dr, Charlottesville, Virginia 22901	Closed
PC 20096133	John Ellis Residence	2485 North Dogwood Ln, Charlottesville, Virginia 22901	Closed

PC 20156100	Chang Residence	118 Woodstock Dr, Charlottesville, Virginia 22901	Closed
PC 19964842	Kalergis Residence	Montvue Subdivision, Charlottesville, Virginia 22906	Closed
PC 20126035	Pamela MacIntyre Residence	446 Alwood Lane, Charlottesville, Virginia 22901	Closed
PC 20206035	Folger Property	1608 Ricky Rd, Charlottesville, Virginia 22901	Closed
PC 19964837	Montvue Subdivision	223 Montvue Dr, Charlottesville, Virginia 22901	Closed
PC 20106112	Whitaker Property	1615 Yorktown Drive, Charlottesville, Virginia 22901	Closed
PC 20246039	Lafferty Residence	135 W Park Dr, Charlottesville, Virginia 22901	Closed
PC 19964840	Appalachian Trail	Appalachian Trail Rd, Crimora, Virginia 24431	Closed
PC 20106107	Mark Stoddart Property	116 Woodstock Dr, Charlottesville, Virginia 22901	Closed
PC 20126053	Robert Hamfeldt Property	208 Georgetown Road, Charlottesville, Virginia 22901	Closed
PC 19995067	Georgetown Equine Hospital	200 Georgetown Way, Charlottesville, Virginia 22901	Closed
PC 20056014	Estate of Ruby Garnett Property	1661 Browns Gap Tnpk, Charlottesville, Virginia 22902	Closed
PC 20066021	Paul Robertson Property	2301 Shelby Dr, Charlottesville, Virginia 22901	Closed
PC 20116128	Van Zandt Residence	2307 Shelby Dr, Charlottesville, Virginia 22901	Closed
PC 20056037	S. L. Williamson Company	1230 River Road, Charlottesville, Virginia 22902	Closed
PC 20026091	Meineke Muffler Shop	1904 Emmet St, Charlottesville, Virginia 22901	Closed
PC 20216098	Aspiring Developments LLC Property	2210 Wayne Ave, Charlottesville, Virginia 22901	Closed
PC 20166060	Conroy Residence	2125 Devonshire Rd, Charlottesville, Virginia 22901	Closed
PC 19922328	S. W. Williamson Co. Main	1230 River Road, Charlottesville, Virginia 22902	Closed
PC 19985149	Tazewell Property	1213 Tilman Road, Charlottesville, Virginia 22902	Closed
PC 20106039	Barry Montgomery Residence	1914 Swanson Dr, Charlottesville, Virginia 22901	Closed
PC 20126061	1226-Holmes Ave	1226-B Holmes Ave, Charlottesville, Virginia 22901	Closed
PC 20136102	Michael Gilbert Property	2210 Shelby Drive, Charlottesville, Virginia 22901	Closed
PC 20126101	VanClief Residence	2315 Fairway Ln, Charlottesville, Virginia 22901	Closed
PC 20176084	Collier Property	100 Warren Ln, Charlottesville, Virginia 22901	Closed
PC 20146094	Ward Property	1605 Ricky Rd, Charlottesville, Virginia 22901	Closed

PC 19942389	Town & Country Exxon 2-7237	1907 Emmet St, Charlottesville, Virginia	Closed
PC 20096089	Joe Kannapell Property	1717 Solomon Rd, Charlottesville, Virginia 22901	Closed
PC 20106093	Carter Hilliard Property	109 Woodstock Dr, Charlottesville, Virginia 22901	Closed
PC 20106029	Ben Hays Residence	1035 Locust Ave, Charlottesville, Virginia 22901	Closed
PC 19975094	Morris Property	1527 Dairy Rd, Charlottesville, Virginia 22903	Closed
PC 20106030	Dan Hayes Residence	125 Bennington Rd, Charlottesville, Virginia 22901	Closed
PC 20106135	Inez Haynes Residence	1210 West Leigh Drive, Charlottesville, Virginia 22901	Closed
PC 20196049	Torrence Property	1905 Cedar Hill Rd, Charlottesville, Virginia 22901	Closed
PC 19921998	Curtis & Juanita Glass	Rte 3 Box 100a, Waynesboro, Virginia 22980	Closed
PC 20116002	Marcia Reinhold Residence	127 Bennington Road, Charlottesville, Virginia 22901	Closed
PC 20036028	Park Residence	107 Woodstock Dr, Charlottesville, Virginia 22901	Closed
PC 19931042	Town & Country Exxon 2-7237	1907 Emmet St, Charlottesville, Virginia 22901	Closed
PC 20166029	Aspiring Development LLC Property	2312 Wayne Ave, Charlottesville, Virginia 22901	Closed
PC 20266023	Genossar Property	125 W Park Dr, Charlottesville, Virginia 22901	Open
PC 20216129	Webb Residence	1404 Ballard Woods Ct, Charlottesville, Virginia 22901	Closed
PC 20096057	Jeffrey Schlatter Residence	1722 Solomon Rd, Charlottesville, Virginia 22901	Closed
PC 20116104	Anne Hayes Residence	1721 Solomon Rd, Charlottesville, Virginia 22901	Closed
PC 20066012	Noakes Residence	622 Wilder Dr, Charlottesville, Virginia 22901	Closed
PC 20166129	Hensley Property	2308 Wayne Ave, Charlottesville, Virginia 22902	Closed
PC 20156108	Knippen Property	2220 Cornwall Rd, Charlottesville, Virginia 22901	Closed
PC 20206098	Settle and Anas Property	2218 Wayne Ave, Charlottesville, Virginia 22901	Closed
PC 20016130	Buchtele Residence	2310 Wayne St, Charlottesville, Virginia 22901	Closed
PC 20126036	Helen Cline Residence	1709 Concord Dr, Charlottesville, Virginia 22901	Closed
PC 20206071	Pickering and Debow Property	2222 Wayne Ave, Charlottesville, Virginia 22901	Closed
PC 20006082	7-Eleven #24546	2010 Hydraulic Rd, Charlottesville, Virginia 22901	Closed
PC 20166058	Pedersen Residence	119 N Bennington Rd, Charlottesville, Virginia 22901	Closed

PC 19995169	7-Eleven #24546	2010 Hydraulic Rd, Charlottesville, Virginia 22901	Closed
PC 19964883	Wilson Rental Property	140 West Park Drive, Charlottesville, Virginia 22901	Closed
PC 20116114	7-Eleven #24546	2010 Hydraulic Rd, Charlottesville, Virginia 22901	Closed
PC 19995035	7-Eleven # 24546 - Charlottesville	2010 Hydraulic Rd, Charlottesville, Virginia 22901	Closed
PC 20246107	Charles Antrobus Estate Property	1631 Saint Annes Rd, Charlottesville, Virginia 22901	Closed
PC 20066078	Warren Grove Property	1913 Cedar Court, Charlottesville, Virginia 22901	Closed



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
Phone: (804) 693-6694



In Reply Refer To:

06/24/2025 13:42:43 UTC

Project Code: 2025-0113077

Project Name: Charlottesville to Dooms (Lines #233 and #291) Rebuild

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Project Code in the header of this

Project code: 2025-0113077

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letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

Project code: 2025-0113077

06/24/2025 13:42:43 UTC

PROJECT SUMMARY

Project Code: 2025-0113077
Project Name: Charlottesville to Dooms (Lines #233 and #291) Rebuild
Project Type: Transmission Line - Maintenance/Modification - Above Ground
Project Description: The project involves the wreck and rebuild of transmission line #233 and #291, collocated 230 kV lines on the same structures between the Charlottesville Substation located in the City of Charlottesville and the Dooms Substation located in Augusta County

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@38.0741742,-78.5840212,108642.14z>



Counties: Albemarle , Augusta , and Charlottesville counties, Virginia

ENDANGERED SPECIES ACT SPECIES

There is a total of 8 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2025-0113077

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MAMMALS

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

CLAMS

NAME	STATUS
Green Floater <i>Lasmigona subviridis</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7541	Proposed Threatened
James Spiny mussel <i>Parvaspina collina</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2212	Endangered

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

FLOWERING PLANTS

NAME	STATUS
Swamp Pink <i>Helonias bullata</i> Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4333	Threatened
Virginia Sneezeweed <i>Helenium virginicum</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6297	Threatened

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CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Project code: 2025-0113077

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IPAC USER CONTACT INFORMATION

Agency: Stantec Consulting Services, Inc.

Name: Kevin Stover

Address: 5209 Center St

City: Williamsburg

State: VA

Zip: 23188

Email kevin.stover@stantec.com

Phone: 7579411634

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Army Corps of Engineers



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
Phone: (804) 693-6694



In Reply Refer To:

06/24/2025 13:54:42 UTC

Project code: 2025-0113077

Project Name: Charlottesville to Dooms (Lines #233 and #291) Rebuild

Federal Nexus: yes

Federal Action Agency (if applicable): Army Corps of Engineers

Subject: Technical assistance for 'Charlottesville to Dooms (Lines #233 and #291) Rebuild'

Dear Kevin Stover:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on June 24, 2025, for 'Charlottesville to Dooms (Lines #233 and #291) Rebuild' (here forward, Project). This project has been assigned Project Code 2025-0113077 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid. Note that conservation measures for northern long-eared bat and tricolored bat may differ. If both bat species are present in the action area and the key suggests more conservative measures for one of the species for your project, the Project may need to apply the most conservative measures in order to avoid adverse effects. If unsure which conservation measures should be applied, please contact the appropriate Ecological Services Field Office***

Determination for the Northern Long-Eared Bat and Tricolored Bat

Based upon your IPaC submission and a standing analysis completed by the Service, your project has reached the following effect determination(s):

Species	Listing Status	Determination
Northern Long-eared Bat (<i>Myotis septentrionalis</i>)	Endangered	NLAA
Tricolored Bat (<i>Perimyotis subflavus</i>)	Proposed	NLAA
	Endangered	

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Green Floater *Lasmigona subviridis* Proposed Threatened
- Indiana Bat *Myotis sodalis* Endangered
- James Spiny mussel *Parvaspina collina* Endangered
- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Swamp Pink *Helonias bullata* Threatened
- Virginia Sneezeweed *Helenium virginicum* Threatened

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

Next Steps

Consultation with the Service is necessary. The project has a federal nexus (e.g., Federal funds, permit, etc.), but you are not the federal action agency or its designated (in writing) non-federal representative. Therefore, the ESA consultation status is incomplete and no project activities should occur until consultation between the Service and the Federal action agency (or designated non-federal representative), is completed.

As the federal agency or designated non-federal representative deems appropriate, they should submit their determination of effects to the Service by doing the following.

1. Log into IPaC using an agency email account and click on My Projects, click "Search by record locator" to find this Project using **717-163816918**. (Alternatively, the originator of the project in IPaC can add the agency representative to the project by using the Add Member button on the project home page.)
2. Review the answers to the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key to ensure that they are accurate.
3. Click on Review/ Finalize to convert the 'not likely to adversely affect' technical assistance letter to a concurrence letter. Download the concurrence letter for your files if needed.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the Virginia Ecological Services Field Office and reference Project Code 2025-0113077 associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Charlottesville to Dooms (Lines #233 and #291) Rebuild

2. Description

The following description was provided for the project 'Charlottesville to Dooms (Lines #233 and #291) Rebuild':

The project involves the wreck and rebuild of transmission line #233 and #291, collocated 230 kV lines on the same structures between the Charlottesville Substation located in the City of Charlottesville and the Dooms Substation located in Augusta County

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@38.0741742,-78.5840212108642,14z>



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect, but not likely to adversely affect” for a least one species covered by this determination key.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

Note: For federal actions, answer ‘yes’ if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

No

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

No

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

No

10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

No

12. Will the action cause effects to a bridge?

Note: Covered bridges should be considered as bridges in this question.

No

13. Will the action result in effects to a culvert or tunnel at any time of year?

No

14. Are trees present within 1000 feet of the action area?

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

15. Does the action include the intentional exclusion of bats from a building or structure?

Note: Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

No

16. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats**?

No

17. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

18. Will the action include or cause any construction or other activity that is reasonably certain to increase average night-time traffic permanently or temporarily on one or more existing roads? **Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.). .

No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

20. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

Note: For information regarding NSF/ANSI 60 please visit <https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects>

No

21. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?
No
22. Will the action include drilling or blasting?
No
23. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)?
No
24. Will the proposed action involve the use of herbicides or other pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?
No
25. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No

26. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

No

27. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?
Yes
28. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?
Yes

29. Will the proposed action result in the cutting of entire trees outside of the currently maintained utility right-of-way?

No

30. Will tree trimming, limbing, or cutting be used to expand the footprint of any currently maintained utility rights-of-way?

No

31. Will tree trimming, limbing, or cutting in currently maintained utility rights-of-way occur during the pup season?

Note: Bat activity periods for your state can be found in Appendix L of the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey [Guidelines](#).

No

32. Will the proposed action result in the use of prescribed fire?

Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

No

33. Does the action area intersect the northern long-eared bat species list area?

Automatically answered

Yes

34. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known NLEB hibernacula? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

35. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

36. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

Automatically answered

No

37. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency. Have you contacted the appropriate agency to determine if your action is within 150 feet of any documented northern long-eared bat roosts?

Note: A document with links to Natural Heritage Inventory databases and other state-specific sources of information on the locations of northern long-eared bat roosts is available here. Location information for northern long-eared bat roosts is generally kept in state natural heritage inventory databases – the availability of this data varies by state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited.

Automatically answered

No

38. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?
If unsure, answer "Yes."

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

39. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥ 3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

40. Does the action area intersect the tricolored bat species list area?

Automatically answered

Yes

41. [Semantic] Is the action area located within 0.5 miles of radius of an entrance/opening to any known tricolored bat hibernacula? Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

42. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats? **Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

43. Has a presence/probable absence bat survey targeting the [tricolored bat and following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines](#) been conducted within the project area?

No

44. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?

(If unsure, answer ""Yes."")

Note: If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#).

Yes

45. Do any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pine trees)?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

46. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Pup Season for tricolored bat?

Note: Bat activity periods for your state can be found in Appendix L of the [Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines](#).

No

47. Do you have any documents that you want to include with this submission?

No

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

0.01

Project code: 2025-0113077

IPaC Record Locator: 717-163816918

06/24/2025 13:54:42 UTC

IPAC USER CONTACT INFORMATION

Agency: Stantec Consulting Services, Inc.

Name: Kevin Stover

Address: 5209 Center St

City: Williamsburg

State: VA

Zip: 23188

Email kevin.stover@stantec.com

Phone: 7579411634

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Army Corps of Engineers

6/24/25, 11:15 AM

VaFWIS GeographicSelect Options

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An official website Here's how you know

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VaFWIS Initial Project Assessment Report Compiled on 6/24/2025, 11:12:36 AM

Known or likely to occur within a 2 mile buffer around polygon; center 38,06,21.0 -78,50,52.4
in 003 Albemarle County, 015 Augusta County, 540 Charlottesville City, 820 Waynesboro City, VA[View Map of
Site Location](#)646 Known or Likely Species ordered by Status Concern for Conservation
(displaying first 35) (35 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
050022	FESE	Ia	Bat, Northern Long-eared	Myotis septentrionalis	Yes	BOVA,SppObs
060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes	BOVA,TEWaters,Habitat,SppObs
101005	FESE	Ia	Bee, Rusty Patched Bumble	Bombus affinis		BOVA
060173	FTST	Ia	Pigtoe, Atlantic	Fusconaia masoni		BOVA,Habitat
060029	FTST	Ila	Lance, yellow	Elliptio lanceolata		BOVA
070001	FTST	Ilc	Isopod, Madison Cave	Antrolana lira		BOVA
050020	SE	Ia	Bat, little brown	Myotis lucifugus	Yes	BOVA,SppObs
050027	FPSE	Ia	Bat, Tricolored	Perimyotis subflavus		BOVA
060006	SE	Ib	Floater, brook	Alasmodonta varicosa		BOVA,Habitat
020052	SE	Ila	Salamander, eastern tiger	Ambystoma tigrinum		BOVA
040267	SE		Wren, Bewick's	Thryomanes bewickii		BOVA
040096	ST	Ia	Falcon, peregrine	Falco peregrinus		BOVA
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus	Yes	BOVA,SppObs
100155	ST	Ia	Skipper, Appalachian grizzled	Pyrgus wyandot		BOVA
070012	ST	Ib	Amphipod, Madison Cave	Stygobromus stegerorum		BOVA
060081	FPST	Ila	Floater, green	Lasmigona subviridis	Yes	BOVA,TEWaters,Habitat
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
100248	FP	Ia	Fritillary, Regal	Speyeria idalia idalia		BOVA
100079	FP	IIla	Butterfly, Monarch	Danaus plexippus		BOVA
030063	CC	IIla	Turtle, spotted	Clemmys guttata		BOVA
030012	CC	IVa	Rattlesnake, timber	Crotalus horridus	Yes	BOVA,SppObs
030040		Ia	Pinesnake, northern	Pituophis melanoleucus melanoleucus	Yes	BOVA,SppObs
040092		Ia	Eagle, golden	Aquila chrysaetos	Yes	BOVA,SppObs
040306		Ia	Warbler, golden-winged	Vermivora chrysoptera		BOVA
050024		Ia	Myotis, eastern small-footed	Myotis leibii		BOVA
010346		Ib	Shiner, roughhead	Notropis semperasper		BOVA
020027		Ic	Salamander, Cow Knob	Plethodon punctatus		BOVA
040213		Ic	Owl, northern saw-whet	Aegolius acadicus		BOVA
040052		Ila	Duck, American black	Anas rubripes		BOVA
040036		Ila	Night-heron, yellow-crowned	Nyctanassa violacea violacea		BOVA

6/24/25, 11:15 AM

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040320		Ila	Warbler, cerulean	Setophaga cerulea	Yes	BOVA,SppObs
040140		Ila	Woodcock, American	Scolopax minor		BOVA
040203		Ilb	Cuckoo, black-billed	Coccyzus erythrophthalmus		BOVA
040105		Ilb	Rail, king	Rallus elegans		BOVA
040304		Ilc	Warbler, Swainson's	Limnithlypis swainsonii		BOVA

To view **All 646 species** [View 646](#)

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Virginia Wildlife Action Plan Conservation Opportunity Ranking

a - On the ground management strategies/actions exist and can be feasibly implemented.; b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.; c - No on the ground

Bat Colonies or Hibernacula: **Not Known****Anadromous Fish Use Streams** (1 records)[View Map of All](#)[Anadromous Fish Use Streams](#)

Stream ID	Stream Name	Reach Status	Anadromous Fish Species			View Map
			Different Species	Highest TE *	Highest Tier **	
P133	Rivanna river	Potential	0			Yes

Impediments to Fish Passage (13 records)[View Map of All](#)[Fish Impediments](#)

ID	Name	River	View Map
303	ALBEMARLE DAM	SPRING CREEK	Yes
901	BAILEYS DAM	TR-RIVANNA RIVER	Yes
299	BEAVER CREEK DAM #1	BEAVER CREEK	Yes
909	CLOVER DAM	TR-IVY CREEK	Yes
306	HENLEYS DAM	BEAVER CREEK	Yes
933	LICKINGHOLE CREEK	LICKINGHOLE CREEK	Yes
928	MIDDLE MINT SPINGS DAM	POWELL CREEK	Yes
930	MURRAY LAKE DAM	TR-STOCKTON MILL CREEK	Yes
922	NORFIELDS DAM	TR-SOUTH FORK RIVANNA RIVER	Yes
894	UPPER MINT SPRINGS DAM	POWELLS CREEK	Yes
896	WHITES DAM	SLABTOWN BRANCH	Yes
934	WINDSOR HILL DAM	IVY CREEK	Yes
847	WOOLEN MILLS DAM	RIVANNA RIVER	Yes

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters (42 Reaches - displaying first 20)[View Map of All](#)[Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE *	BOVA Code, Status *, Tier **, Common & Scientific Name					
Ivy Creek (0100815)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0102067)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0102074)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0102873)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0131678)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0133523)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0134096)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0134310)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0136141)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0137403)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0137483)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0139909)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes

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Ivy Creek (097777)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (098116)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (098186)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (098189)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (099216)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (099272)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (099688)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Mechums River (0130669)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Mechums River (0130820)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Mechums River (0132162)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Mechums River (0133104)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes

To view **All 42 Threatened and Endangered Waters records** [View 42](#)

Managed Trout Streams (3 records) (Click on Stream Name to view complete reach history) [View Map of All Trout Stream Surveys](#)

Reach ID	Stream Name	Class	Brook Trout	Brown Trout	Rainbow Trout	View Map
07SAW-01	Sawmill Run	Wild trout	Y			Yes
07STH-01	South River	Stockable				Yes
10MNK-01	Moormans River, SF	Wild trout		Y		Yes

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests

N/A

Habitat Predicted for Aquatic WAP Tier I & II Species (12 Reaches) [View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species						View Map
	Highest TE *	BOVA Code, Status *, Tier **, Common & Scientific Name					
Ivy Creek (20802041)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (20802042)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
Lickinghole Creek (20802041)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
		060081	FPST	lla	Floater, green	Lasmigona subviridis	
Lickinghole Creek (20802042)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
		060081	FPST	lla	Floater, green	Lasmigona subviridis	
Mechums River (20802041)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
		060081	FPST	lla	Floater, green	Lasmigona subviridis	
Mechums River (20802042)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
		060081	FPST	lla	Floater, green	Lasmigona subviridis	
Rivanna River (20802042)	FTST	060081	FPST	lla	Floater, green	Lasmigona subviridis	Yes
		060173	FTST	la	Pigtoe, Atlantic	Fusconaia masoni	
South River (20700052)	SE	060006	SE	lb	Floater, brook	Alasmidonta varicosa	Yes
Spring Creek (20802042)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
tributary (20802041)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
		060081	FPST	lla	Floater, green	Lasmigona subviridis	
tributary (20802041)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
tributary (20802042)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes
tributary (20802042)	FESE	060017	FESE	la	Spinymussel, James	Parvaspina collina	Yes

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Habitat Predicted for Terrestrial WAP Tier I & II Species

N/A

Public Holdings: (1 names)

Name	Agency	Level
Shenandoah National Park	National Park Service	Federal

[illegible]

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6/24/25, 11:15 AM

VaFWIS Map

Site Location

38,06,21.0 -78,50,52.4
is the Search Point

Show Position Rings
☒ Yes ☐ No
 4 miles and 1 mile at the Search Point

Show Search Area
☒ Yes ☐ No
 2 Search distance miles
 buffer

Display
Search Point is not

at center
at map center

Base Map Choices
 Topography ▼

Map Overlay Choices
 Current List: Position, Search, BECAR, BAEANests, TEWaters, TierII, Habitat, Trout, Anadromous

Map Overlay Legend

T & E Waters

Federal

State

Predicted Habitat WAP Tier I & II

Aquatic

Terrestrial

Trout Waters

Class I - IV

Class V - VI

Anadromous Fish Reach

Confirmed

Potential

Impediment

**Position Rings
4 miles and 1 mile at the Search Point**

2 mile radius Search Area

Bald Eagle Concentration Areas and Roosts

[Refresh Browser Page](#)

Map Click Pan Id M
Map Scale In Zoom
Screen Size Small Size Blg
[Help](#)

Point of Search 38,06,21.0 -78,50,52.4
 Map Location 38,04,27.6 -78,39,13.6

Select Coordinate System: ☒ Degrees, Minutes, Seconds Latitude - Longitude
☐ Decimal Degrees Latitude - Longitude
☐ Meters UTM NAD83 East North Zone
☐ Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see Microsoft.terraServer-usa.com for details)

Map projection is UTM Zone 17 NAD 1983 with left 667398 and top 4255065. Pixel size is 68. .
 Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 76800 meters east to west by 76800 meters north to south for a total of 5898.2 square kilometers. The map display represents 252011 feet east to west by 252011 feet north to south for a total of 2278.0 square miles.

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 \$poi=38.1058333 -78.8478889

6/24/25, 11:19 AM

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VaFWIS Search Report Compiled on 6/24/2025, 11:19:41 AM

Known or likely to occur within a **2 mile buffer around polygon; center 38.1058333 -78.8478889** [View Map of](#)
in **003 Albemarle County, 015 Augusta County, 540 Charlottesville City, 820 Waynesboro City, VA** [Site Location](#)
where (050022) **Bat, Northern Long-eared** observed.

Species Observations where Bat, Northern Long-eared (050022) observed (1 records , 1 Observation with Threatened or Endangered species) [View Map of All Query Results](#)
[Species Observations where Bat, Northern Long-eared \(050022\) observed](#)

obsID	class	Date Observed	Observer	N Species			View Map
				Different Species	Highest TE *	Highest Tier **	
320375	SppObs	Jun 6 2007	David Evers	4	FESE	I	Yes

Displayed 1 Species Observations where Bat, Northern Long-eared (050022) observed

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Virginia Wildlife Action Plan Conservation Opportunity Ranking:
a - On the ground management strategies/actions exist and can be feasibly implemented; b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time; c - No on the ground management strategies/actions exist and cannot be feasibly implemented at this time

Compiled on 6/24/2025, 11:19:41 AM | 13840219.1 | report=BOVA | searchType=P | dist=3215 | poi=38.1058333 -78.8478889

6/24/25, 11:20 AM

VaFWIS Map

1 Species Observations
where Bat, Northern
Long-eared (050022)
observed

38,06,21.0 -78,50,52.4
is the Search Point

Show Position Rings
☒ Yes ☐ No
4 miles and 1 mile at the Search
Point

Show Search Area
☒ Yes ☐ No
2 Search distance miles
buffer

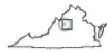
Display Search Point is not
at center at map center

Base Map Choices
Topography

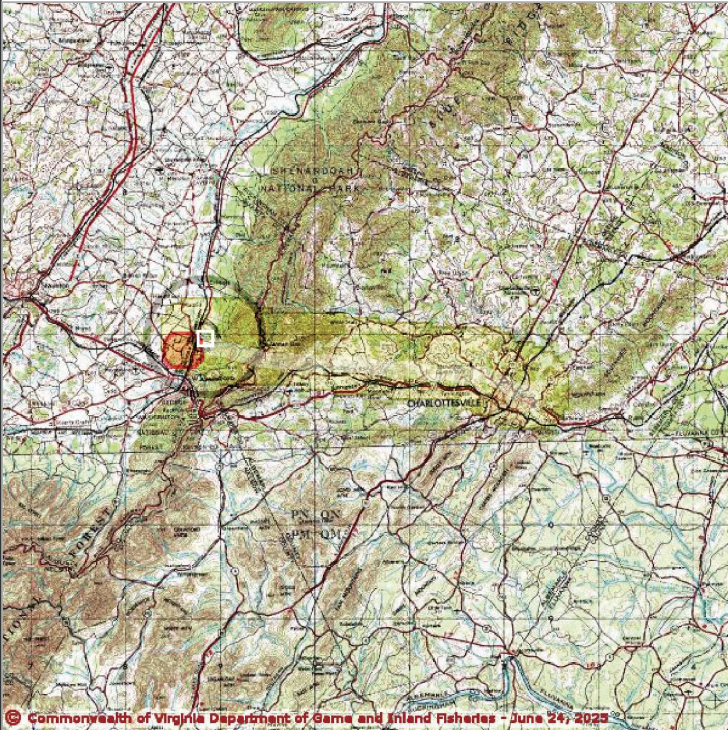
Map Overlay Choices
Current List: Position, Search,
SppObs

Map Overlay Legend

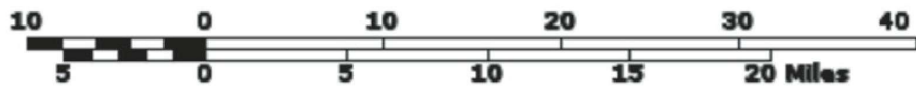
-  **Position Rings**
4 miles and 1
mile at the
Search Point
-  **2 mile radius**
Search Area
-  **Data**
Observation Site

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Commonwealth of Virginia Department of Game and Inland Fisheries - June 24, 2025

Point of Search 38,06,21.0 -78,50,52.4
Map Location 38,04,27.6 -78,39,13.6

Select Coordinate System: ☒ Degrees, Minutes, Seconds Latitude - Longitude
☐ Decimal Degrees Latitude - Longitude
☐ Meters UTM NAD83 East North Zone
☐ Meters UTM NAD27 East North Zone

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east to west by 76800 meters north to south for a total of 5898.2 square kilometers. The map
display represents 252011 feet east to west by 252011 feet north to south for a total of 2278.0
square miles.

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Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia
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map assembled 2025-06-24 11:20:07 (qa/qc March 21, 2016 12:20 - tn=3840219.1 dist=3218
I)
\$poi=38.1058333 -78.8478889

6/24/25, 11:23 AM

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Known or likely to occur within a 2 mile buffer around polygon; center 38.1058333 -78.8478889
in 003 Albemarle County, 015 Augusta County, 540 Charlottesville City, 820 Waynesboro City, VA
where (060081) [Floater, green](#) observed.

[View Map of](#)[Site Location](#)

Threatened and Endangered Waters where Floater, green (060081) observed (2 Reaches)

[View Map of All](#)[Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE *	BOVA Code, Status *, Tier **, Common & Scientific Name					
Rivanna River (0117013)	FPST	060081	FPST	Ila	Floater, green	Lasmigona subviridis	Yes
Rivanna River (099017)	FPST	060081	FPST	Ila	Floater, green	Lasmigona subviridis	Yes

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Very Low Conservation Need

a - On the ground management strategies/actions exist and can be feasibly implemented; b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time; c - No on the ground management strategies/actions exist and cannot be feasibly implemented at this time

Habitat Predicted for Aquatic WAP Tier I & II Species where Floater, green (060081) observed (6 Reaches)

[View Map Combined Reaches from Below of Habitat Pred](#)

Stream Name	Tier Species						View Map
	Highest TE *	BOVA Code, Status *, Tier **, Common & Scientific Name					
Lickinghole Creek (20802041)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
		060081	FPST	Ila	Floater, green	Lasmigona subviridis	
Lickinghole Creek (20802042)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
		060081	FPST	Ila	Floater, green	Lasmigona subviridis	
Mechums River (20802041)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
		060081	FPST	Ila	Floater, green	Lasmigona subviridis	
Mechums River (20802042)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
		060081	FPST	Ila	Floater, green	Lasmigona subviridis	
Rivanna River (20802042)	FTST	060081	FPST	Ila	Floater, green	Lasmigona subviridis	Yes
		060173	FTST	Ia	Pigtoe, Atlantic	Fusconaia masoni	
tributary (20802041)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes
		060081	FPST	Ila	Floater, green	Lasmigona subviridis	
tributary (20802041)	FESE	060017	FESE	Ia	Spinymussel, James	Parvaspina collina	Yes

6/24/25, 11:23 AM

VaFWIS Report Search

		060081	FPST	Ila	<u>Floater, green</u>	Lasmigona subviridis	
--	--	--------	------	-----	-----------------------	----------------------	--

Habitat Predicted for Terrestrial WAP Tier I & II Species where Floater, green (060081) observed

N/A

Completed on 6/24/2025, 11:23:12 AM 13840219.1 report=BOVA searchType= P dist= 3213 poi= 33 1058333 -78.8478889

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13840219

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VaFWIS Map

Threatened and Endangered Waters where Floater, green (060081) observed

38,06,21.0 -78,50,52.4 is the Search Point

Show Position Rings
☒ Yes ☐ No
 4 miles and 1 mile at the Search Point

Show Search Area
☒ Yes ☐ No
 2 Search distance miles buffer

Display at center
Search Point is not at map center

Base Map Choices
 Topography ▼

Map Overlay Choices
 Current List: Position, Search, TEWaters

Map Overlay Legend

T & E Waters

Federal

State

Position Rings
4 miles and 1 mile at the Search Point

2 mile radius Search Area

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Map Scale

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Zoom

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Size

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Commonwealth of Virginia Department of Game and Inland Fisheries - June 24, 2025

Point of Search 38,06,21.0 -78,50,52.4

Map Location 38,04,27.6 -78,39,13.6

Select Coordinate System: ☒ Degrees, Minutes, Seconds Latitude - Longitude
☐ Decimal Degrees Latitude - Longitude
☐ Meters UTM NAD83 East North Zone
☐ Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see Microsoft.terraserver-usa.com for details)

Map projection is UTM Zone 17 NAD 1983 with left 667398 and top 4255065. Pixel size is 68. . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 76800 meters east to west by 76800 meters north to south for a total of 5898.2 square kilometers. The map display represents 252011 feet east to west by 252011 feet north to south for a total of 2278.0 square miles.

Topographic maps and Black and white aerial photography for year 1990+- are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network. Shaded topographic maps are from TOPO! ©2006 National Geographic <http://www.national.geographic.com/topo> All other map products are from the Commonwealth of Virginia Department of Wildlife Resources.

map assembled 2025-06-24 11:23:54 (qa/qc March 21, 2016 12:20 - tn=3840219.1 dist=3218 I)
 \$poi=38.1058333 -78.8478889

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VaFWIS Search Report Compiled on 6/24/2025, 11:20:28 AM

Known or likely to occur within a 2 mile buffer around polygon; center 38.1058333 -78.8478889
in 003 Albemarle County, 015 Augusta County, 540 Charlottesville City, 820 Waynesboro City, VA
where (060017) [Spinymussel, James](#) observed.

[View Map of
Site Location](#)

Threatened and Endangered Waters where Spinymussel, James (060017) observed (40 Reaches - displaying first 20)

[View Map of All
Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE *	BOVA Code, Status *, Tier **, Common & Scientific Name					
Ivy Creek (0100815)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0102067)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0102074)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0102873)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0131678)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0133523)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0134096)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0134310)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0136141)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0137403)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0137483)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (0139909)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (097777)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (098116)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (098186)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (098189)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (099216)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (099272)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Ivy Creek (099688)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Mechums River (0130669)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes
Mechums River (0130820)	FESE	060017	FESE	1a	Spinymussel, James	Parvaspina collina	Yes

6/24/25, 11:20 AM

VaFWIS Report Search

Mechums River (0132162)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
Mechums River (0133104)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes

To view **All 40 Threatened and Endangered Waters records** [View 40](#)

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Very Low Conservation Need
Virginia Wildlife Action Plan Conservation Opportunity Ranking:
a - On the ground management strategies/actions exist and can be feasibly implemented.; b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.; c - No on the ground management strategies/actions exist and cannot be feasibly implemented at this time.**Species Observations where Spnymussel, James (060017) observed**

(13 records , 13 Observations with Threatened or Endangered species)

[View Map of All Query Results](#)[Species Observations where Spnymussel, James \(060017\) observed](#)

obsID	class	Date Observed	Observer	N Species			View Map
				Different Species	Highest TE *	Highest Tier **	
635867	SppObs	Sep 1 2022	Susan Alexander; Mark Hartman; John Chiles; Brian Wat	2	FESE	I	Yes
642431	SppObs	Sep 1 2022	Susan Alexander; Mark Hartman; John Chiles; Brian Wat	2	FESE	I	Yes
627441	SppObs	Oct 17 2011	B. J. K. ; Ostby R. J. ; Neves M. D. ; Bierlein J. ; Pri	3	FESE	I	Yes
55269	SppObs	Aug 5 1998	Monte McGregor and Paul Burgess, VDGIF	12	FESE	I	Yes
55270	SppObs	Aug 5 1998	Monte McGregor and Paul Burgess, VDGIF	11	FESE	I	Yes
375431	Aquatics	Aug 5 1998	M. McGregor, P. Burgess	12	FESE	I	Yes
375432	Aquatics	Aug 5 1998	M. McGregor, P. Burgess	14	FESE	I	Yes
58604	SppObs	Oct 4 1997	Philip H. Stevenson (Principle Permittee), Creek Laboratory	3	FESE	I	Yes
54254	SppObs	Sep 29 1997	Phil Stevenson	3	FESE	I	Yes
58603	SppObs	Sep 21 1997	Philip H. Stevenson (Principle Permittee), Creek Laboratory	5	FESE	I	Yes
54178	SppObs	Jul 1 1997	Richard Neves, VPI& SU	3	FESE	I	Yes
54180	SppObs	Feb 22 1997	Philip H. Stevenson	4	FESE	I	Yes
1454	SppObs	Jan 1 1900		1	FESE	I	Yes

Displayed 13 Species Observations where Spnymussel, James (060017) observed

Habitat Predicted for Aquatic WAP Tier I & II Species where Spnymussel, James (060017) observed

(10 Reaches)

[View Map Combined Reaches from Below of Hab](#)

Stream Name	Tier Species						View Map
	Highest TE *	BOVA Code, Status *, Tier **, Common & Scientific Name					
Ivy Creek (20802041)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
Ivy Creek (20802042)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
Lickinghole Creek (20802041)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
		060081	FPST	Ila	Floater, green	Lasmigona subviridis	
Lickinghole Creek (20802042)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
		060081	FPST	Ila	Floater, green	Lasmigona subviridis	
Mechums River (20802041)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
		060081	FPST	Ila	Floater, green	Lasmigona subviridis	
Mechums River (20802042)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
		060081	FPST	Ila	Floater, green	Lasmigona subviridis	
Spring Creek (20802042)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
tributary (20802041)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
		060081	FPST	Ila	Floater, green	Lasmigona subviridis	
tributary (20802041)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
tributary (20802042)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes
tributary (20802042)	FESE	060017	FESE	la	Spnymussel, James	Parvaspina collina	Yes

Habitat Predicted for Terrestrial WAP Tier I & II Species where Spnymussel, James (060017) observed

N/A

Compiled on 6/24/2025, 11:20:29 AM | 3340219.1 | report=BOVA | searchType=P | dist=3213 | pci=33 | 1069333 - 78.947889

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VaFWIS Map

13 Species Observations
where Spiny mussel,
James (060017) observed

38,06,21.0 -78,50,52.4
is the Search Point

Show Position Rings
☒ Yes ☐ No
4 miles and 1 mile at the Search Point

Show Search Area
☒ Yes ☐ No
2 Search distance miles
buffer

Display Search Point is not
at center at map center

Base Map Choices
Topography

Map Overlay Choices
Current List: Position, Search,
SppObs

Map Overlay Legend

- Position Rings
4 miles and 1 mile at the Search Point
- 2 mile radius Search Area
- Data Observation Site

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Commonwealth of Virginia Department of Game and Inland Fisheries - June 24, 2025

N

10 0 10 20 30 40 Kilo
5 0 5 10 15 20 Miles

Point of Search 38,06,21.0 -78,50,52.4
Map Location 38,04,27.6 -78,39,13.6

Select Coordinate System: ☒ Degrees, Minutes, Seconds Latitude - Longitude
☐ Decimal Degrees Latitude - Longitude
☐ Meters UTM NAD83 East North Zone
☐ Meters UTM NAD27 East North Zone

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map assembled 2025-06-24 11:21:01 (qa/qc March 21, 2016 12:20 - tn=3840219.1 dist=3218
 I)
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VaFWIS Search Report Compiled on 6/24/2025, 11:21:26 AM

Known or likely to occur within a 2 mile buffer around polygon; center 38.1058333 -78.8478889
in 003 Albemarle County, 015 Augusta County, 540 Charlottesville City, 820 Waynesboro City, VA
where (050020) [Bat, little brown](#) observed.

[View Map of Site Location](#)

Species Observations where Bat, little brown (050020) observed (2 records , 2 Observations with Threatened or Endangered species)
[View Map of All Query Results](#)
[Species Observations where Bat, little brown \(050020\) observed](#)

obsID	class	Date Observed	Observer	N Species			View Map
				Different Species	Highest TE *	Highest Tier **	
320375	SppObs	Jun 6 2007	David Evers	4	FESE	I	Yes
231010	SppObs	Jun 5 2009	CH	1	SE	I	Yes

Displayed 2 Species Observations where Bat, little brown (050020) observed

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern
**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Conservation Opportunity Ranking
a - On the ground management strategies/actions exist and can be feasibly implemented; b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.; c - No on the ground

Compiled on 6/24/2025, 11:21:26 AM I3840219.1 report=BOVA searchType=P dist=3218 poi=38.1058333 -78.8478889

6/24/25, 11:21 AM

VaFWIS Map

2 Species Observations
where Bat, little brown
(050020) observed

38,06,21.0 -78,50,52.4
is the Search Point

Show Position Rings

☒ Yes ☐ No

4 miles and 1 mile at the Search Point

Show Search Area

☒ Yes ☐ No

2 Search distance miles
buffer

Display Search Point is not
at center at map center

Base Map Choices

Topography

Map Overlay Choices

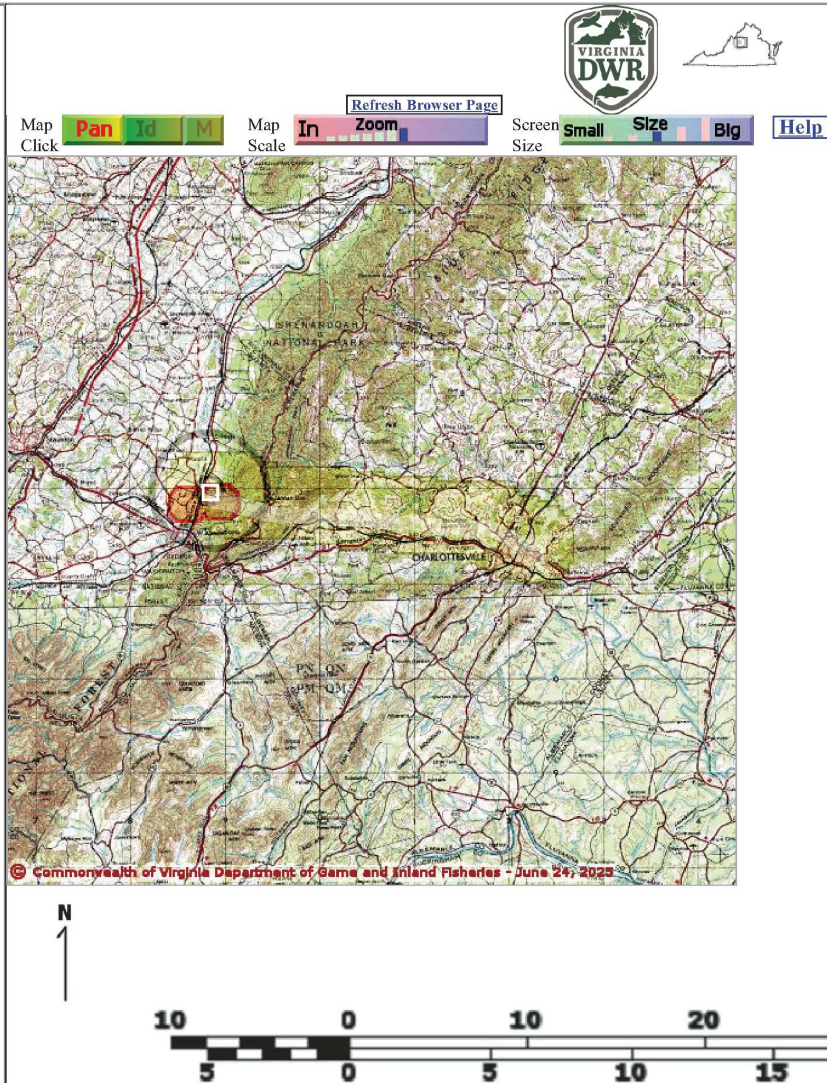
Current List: Position, Search,
SppObs

Map Overlay Legend

 **Position Rings**
4 miles and 1
mile at the
Search Point

 **2 mile radius**
Search Area

 **Data**
Observation Site



Point of Search 38,06,21.0 -78,50,52.4

Map Location 38,04,27.6 -78,39,13.6

Select Coordinate System: ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see Microsoft.terraserver-usa.com for details)

Map projection is UTM Zone 17 NAD 1983 with left 667398 and top 4255065. Pixel size is 68. . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 76800 meters east to west by 76800 meters north to south for a total of 5898.2 square kilometers. The map display represents 252011 feet east to west by 252011 feet north to south for a total of 2278.0 square miles.

Topographic maps and Black and white aerial photography for year 1990+- are from the United States Department of the Interior, United States Geological Survey. Color aerial photography acquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network. Shaded topographic maps are from TOPO! ©2006 National Geographic <http://www.national.geographic.com/topo> All other map products are from the Commonwealth of Virginia Department of Wildlife Resources.

map assembled 2025-06-24 11:21:45 (qa/qc March 21, 2016 12:20 - tn=3840219.1 dist=3218 I)
\$poi=38.1058333 -78.8478889

6/24/25, 11:22 AM

VaFWIS Report Search



Virginia Department of Wildlife Resources
An official website Here's how you know



Virginia Department of Wildlife Resources

[Home](#)
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VaFWIS Search Report Compiled on 6/24/2025, 11:22:11 AM

Known or likely to occur within a 2 mile buffer around polygon; center 38.1058333 -78.8478889
in 003 Albemarle County, 015 Augusta County, 540 Charlottesville City, 820 Waynesboro City, VA
where (040293) [Shrike, loggerhead](#) observed.

[View Map of Site Location](#)

Species Observations where Shrike, loggerhead (040293) observed (1 records , 1 Observation with Threatened or Endangered species)
[View Map of All Query Results](#)
[Species Observations where Shrike, loggerhead \(040293\) observed](#)

obsID	class	Date Observed	Observer	N Species			View Map
				Different Species	Highest TE*	Highest Tier**	
403	SppObs	Jan 1 1900		1	ST	I	Yes

Displayed 1 Species Observations where Shrike, loggerhead (040293) observed

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern
**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Virginia Wildlife Action Plan Conservation Opportunity Ranking;
a - On the ground management strategies/actions exist and can be feasibly implemented;; b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time;; c - No on the ground management strategies/actions exist and can be feasibly implemented;;

Compiled on 6/24/2025, 11:22:11 AM | 13840219.1 | report=BOVA | searchType=P | dist=3218 | pci=38.1058333 -78.8478889

6/24/25, 11:22 AM

VaFWIS Map

1 Species Observations
where Shrike,
loggerhead (040293)
observed

38,06,21.0 -78,50,52.4
is the Search Point

Show Position Rings
☒ Yes ☐ No
4 miles and 1 mile at the Search
Point

Show Search Area
☒ Yes ☐ No
2 Search distance miles
buffer

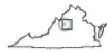
Display Search Point is not
at center at map center

Base Map Choices
Topography

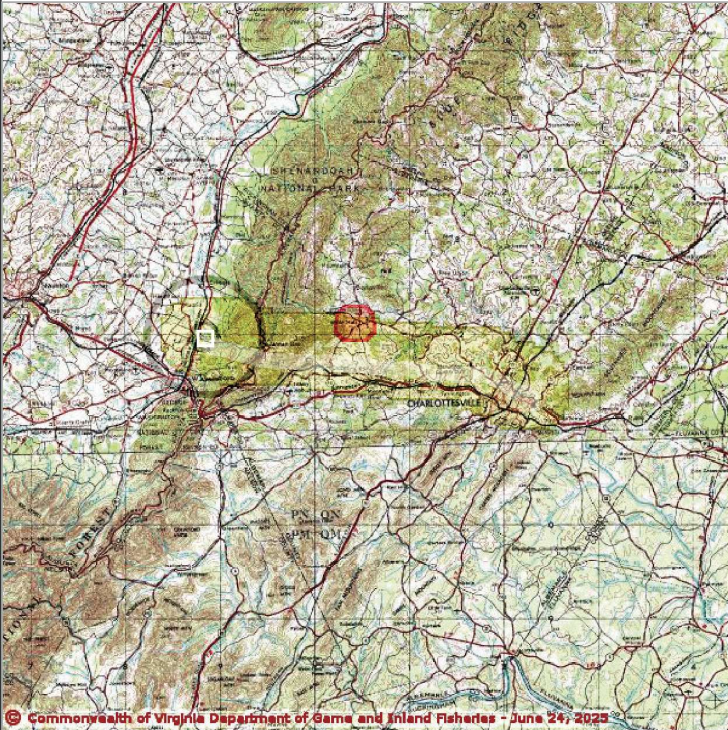
Map Overlay Choices
Current List: Position, Search,
SppObs

Map Overlay Legend

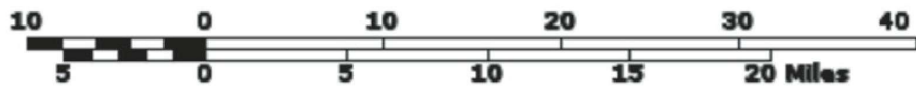
-  **Position Rings**
4 miles and 1
mile at the
Search Point
-  **2 mile radius**
Search Area
-  **Data**
Observation Site

[Refresh Browser Page](#)
Map Click Pan Id M Map Scale In Zoom Screen Size Small Size Big [Help](#)



Commonwealth of Virginia Department of Game and Inland Fisheries - June 24, 2025

Point of Search 38,06,21.0 -78,50,52.4
Map Location 38,04,27.6 -78,39,13.6

Select Coordinate System: ☒ Degrees, Minutes, Seconds Latitude - Longitude
☐ Decimal Degrees Latitude - Longitude
☐ Meters UTM NAD83 East North Zone
☐ Meters UTM NAD27 East North Zone

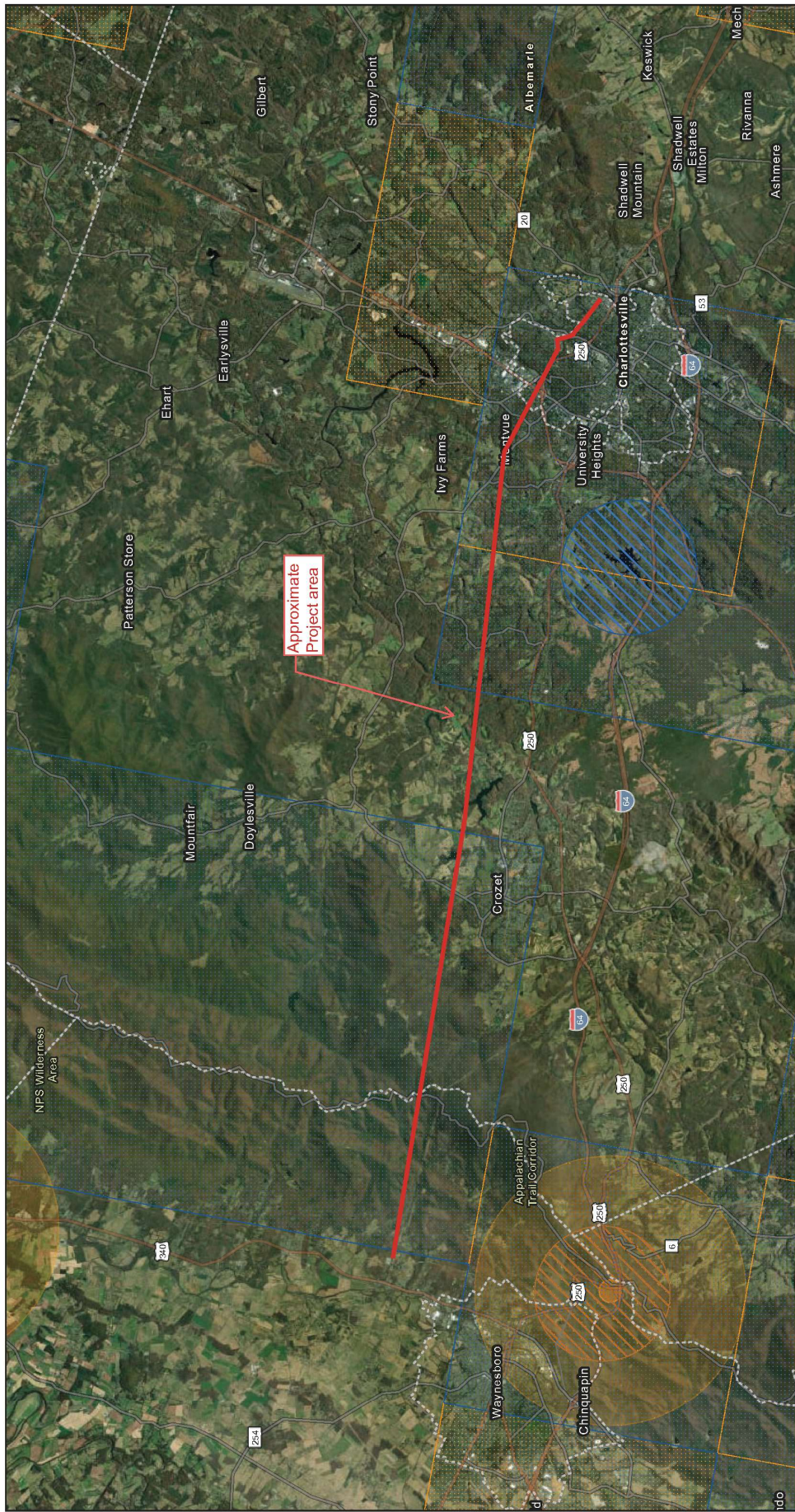
Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 17 NAD 1983 with left 667398 and top 4255065. Pixel size is 68. .
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All other map products are from the Commonwealth of Virginia Department of Wildlife Resources.

map assembled 2025-06-24 11:22:38 (qa/qc March 21, 2016 12:20 - tn=3840219.1 dist=3218
I)
\$poi=38.1058333 -78.8478889

Threatened and Endangered Bats - DWR

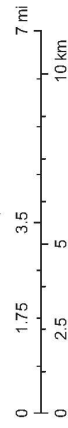


6/27/2025, 3:52:36 PM

- NLEB Capture
- NLEB Consultation Range
- TCB Capture
- TCB Hibernacula Regulatory Buffer
- 0.25 Mile Buffer
- 3 Mile Buffer
- TCB Consultation Range
- World Imagery
- Low Resolution 15m Imagery

- High Resolution 60cm Imagery
- High Resolution 30cm Imagery
- Citations
- 38m Resolution Metadata

1:170,785



Earthstar Geographics, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, OpenStreetMap contributors, and the GIS User Community

VA DWR

Stefanie K. Taillon
Secretary of Natural and Historic Resources

Matthew S. Wells
Director

Andrew W. Smith
Chief Deputy Director



Frank N. Stovall
*Deputy Director
for Operations*

Darryl Glover
*Deputy Director for
Dam Safety,
Floodplain Management and
Soil and Water Conservation*

Laura Ellis
*Deputy Director for
Administration and Finance*

July 25, 2025

COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

Kenrick Presgraves
Stantec Consulting Services, Inc.
5209 Center Street
Williamsburg, VA 23188

Re: 203402586, Charlottesville - Doods Lines 233 & 291 Rebuild Project

Dear Mr. Presgraves:

The Department of Conservation and Recreation's Division of Natural Heritage (DCR) has searched its Biotics Data System for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

Waynesboro East

According to the information in our files, the Lickinghole Creek Stream Conservation Site (SCS) is located within the project area. SCSs encompass stream/river reaches, waterbodies, and terrestrial contributing areas containing or associated with aquatic or semi-aquatic resources, including upstream and downstream reaches and tributaries up to 3-km stream distance from the aquatic resources. The size and dimensions of a SCS are based on the hydrology of the waterway and surrounding landscape, taking into consideration dam locations and whether the waterway is tidal. SCS's are given a biodiversity significance ranking (B-rank) based on the rarity, quality, and number of element occurrences they contain. The Lickinghole Creek SCS has been assigned a B-rank of B4, which represents a site of moderate significance. The natural heritage resource associated with this SCS is:

Aquatic Natural Community

NB-Rivanna Second Order Stream

G3?/S3?/NL/NL

The documented Aquatic Natural Community is based on Virginia Commonwealth University's **INSTAR** (*Interactive Stream Assessment Resource*) database which includes over 2,000 aquatic (stream and river) collections statewide for fish and macroinvertebrates. These data represent fish and macroinvertebrate assemblages, instream habitat, and stream health assessments. The associated Aquatic Natural Community is significant on multiple levels. First, this stream is a grade B per the VCU-Center for Environmental Sciences (CES), indicating its relative regional significance, considering its aquatic community composition and the present-day conditions of other streams in the region. This stream reach also holds a "Healthy" stream designation per the INSTAR Virtual Stream Assessment (VSS) score. This score assesses the similarity of this stream to ideal stream conditions of biology and habitat for this region. Lastly, this stream contributes to high Biological Integrity at the watershed level (6th order) based on number of native/non-native, pollution-tolerant/intolerant and rare, threatened or endangered fish and macroinvertebrate species present.

Threats to the significant Aquatic Natural Community and the surrounding watershed include water quality degradation related to point and non-point pollution, water withdrawal and introduction of non-native species.

To minimize adverse impacts to the aquatic ecosystem as a result of the proposed activities, DCR recommends the implementation of and strict adherence to applicable state and local erosion and sediment control/storm water management laws and regulations, establishment/enhancement of riparian buffers with native plant species and maintaining natural stream flow.

This portion of the project is also on karst-forming carbonate rock and can be characterized by sinkholes, caves, disappearing streams, and large springs. The Virginia DCR, Division of Natural Heritage karst staff screened this project against the Virginia Speleological Survey (VSS) database, the Virginia Department of Energy (VDE) sinkhole coverage, and other karst layers for documented sensitive karst features.

This project has intersected the karst bedrock and VDE sinkhole screening layers. Sinkholes mapped by the Virginia Department Energy are within the project site (see Sinkhole layer on the Natural Heritage Data Explorer at vanhde.org). Typically, additional, smaller unmapped sinkholes can also be present in the vicinity. Sinkholes are areas where surface material has collapsed into the subsurface and into underground watercourses. Sinkhole areas are places where surface water directly affects groundwater quality and flow. What goes into sinkholes comes out in wells and springs, and can degrade drinking water, springs and spring-fed surface waters, and the habitat of subterranean creatures. Discharge of untreated stormwater runoff to sinkholes is discouraged, and sinkholes to which stormwater is diverted or which have been modified to accept stormwater are required by law to be registered as Class 5 Injection Wells with the US Environmental Protection Agency. Filling or alteration of natural (pre-existing) sinkholes is discouraged, and designation of natural buffers around sinkholes is desirable. If the project involves filling or “improvement” of sinkholes or cave openings, DCR would like detailed location information and copies of the design specifications. In cases where sinkhole improvement is for storm water discharge, copies of VDOT Form EQ-120 will suffice.

During every phase of the project, DCR recommends the stabilization of the soil around the site. Minimizing surface disturbance, strict use of E&S control measures appropriate for the location and adherence to best management practices appropriate for karst will help to reduce any potential impact to the karst, groundwater and surface water resources as well as any associated fauna and flora.

If karst features such as additional undocumented sinkholes, caves, disappearing streams, and large springs are encountered during the project, please coordinate with Wil Orndorff (540-230-5960, Wil.Orndorff@dcr.virginia.gov) the Virginia DCR, Division of Natural Heritage Karst Protection Coordinator, to document and minimize adverse impacts. Activities such as discharge of runoff to sinkholes or sinking streams, filling of sinkholes, and alteration of cave entrances can lead to environmental impacts including surface collapse, flooding, erosion and sedimentation, contamination of groundwater and springs, and degradation of subterranean habitat for natural heritage resources (e.g. cave adapted invertebrates, bats). These potential impacts are not necessarily limited to the immediate project area, as karst systems can transport water and associated contaminants rapidly over relatively long distances, depending on the nature of the local karst system.

Crozet

According to DCR’s predicted suitable habitat modeling and review by a DCR biologist, there is a potential for the Green Floater (*Lasmigona subviridis*, G2G3/S2/PT/LT) and the James Spiny mussel (*Parvaspina collina*, G1/S1/LE/LE) to occur in the Mechums River where it is crossed by the transmission line if suitable habitat exists on site.

The green floater is a rare freshwater mussel that ranges from New York to North Carolina in the Atlantic Slope drainages, as well as the New and Kanawha River systems in Virginia and West Virginia (NatureServe, 2009). In Virginia, there are records from the New, Roanoke, Chowan, James, York, Rappahannock, and Potomac River drainages. Throughout its range, the green floater appears to prefer the pools and eddies with gravel and sand

bottoms of smaller rivers and creeks, smaller channels of large rivers (Ortman, 1919) or small to medium-sized streams (Riddick, 1973). Please note that this species has been listed as state threatened by the Virginia Department of Wildlife Resources (VDWR).

The James spinymussel is a freshwater mussel endemic to Virginia and North Carolina and is known from the James and Roanoke River watersheds. It occurs in a variety of substrata, ranging from sand and silt mixtures to gravel and sand mixed with rubble, and in a variety of flow regimes (Clarke & Neves, 1984; Hove & Neves, 1994). It is now restricted to small headwater streams of this watershed (Neves, 1991).

Threats to the James spinymussel include competition with the exotic clam (*Corbicula fluminea*), erosion and sedimentation from logging, road construction, and livestock grazing, sewage effluent, and water quality degradation (Neves, 1991). Please note that this species is listed as endangered by the United States Fish and Wildlife Service (USFWS) and the Virginia Department of Wildlife Resources (VDWR).

Considered good indicators of the health of aquatic ecosystems, freshwater mussels are dependent on good water quality, good physical habitat conditions, and an environment that will support populations of host fish species (Williams et al., 1993). Because mussels are sedentary organisms, they are sensitive to water quality degradation related to increased sedimentation and pollution. They are also sensitive to habitat destruction through dam construction, channelization, and dredging, and the invasion of exotic mollusk species.

In addition, Mechums River has been designated by the VDWR as a “Threatened and Endangered Species Water” for the James spinymussel. To minimize adverse impacts to the aquatic ecosystem as a result of the proposed activities, DCR recommends the implementation of and strict adherence to applicable state and local erosion and sediment control/storm water management laws and regulations.

Due to the legal status of the green floater and James spinymussel, DCR recommends coordination with the US Fish and Wildlife Service (USFWS) and the VDWR, Virginia's regulatory authority for the management and protection of this species to ensure compliance with protected species legislation.

Charlottesville West

According to the information in our files, the Ivy Creek - Montvue Stream Conservation Site (SCS) is crossed by the transmission line. SCSs encompass stream/river reaches, waterbodies, and terrestrial contributing areas containing or associated with aquatic or semi-aquatic resources, including upstream and downstream reaches and tributaries up to 3-km stream distance from the aquatic resources. The size and dimensions of a SCS are based on the hydrology of the waterway and surrounding landscape, taking into consideration dam locations and whether the waterway is tidal. SCSs are given a biodiversity significance ranking (B-rank) based on the rarity, quality, and number of element occurrences they contain. The Ivy Creek - Montvue SCS has been given a B-rank of B2, which represents a site of very high significance. The natural heritage resource associated with this SCS is:

Parvaspina collina

James Spinymussel

G1/S1/LE/LE

In addition, Ivy Creek has been designated by the VDWR as a “Threatened and Endangered Species Water” for the James spinymussel. To minimize adverse impacts to the aquatic ecosystem as a result of the proposed activities, DCR recommends the implementation of and strict adherence to applicable state and local erosion and sediment control/storm water management laws and regulations, establishment/enhancement of riparian buffers with native plant species and maintaining natural stream flow.

Due to the legal status of the James spinymussel, DCR recommends coordination with the US Fish and Wildlife Service (USFWS) and the VDWR, Virginia's regulatory authority for the management and protection of this species to ensure compliance with protected species legislation.

Charlottesville East

According to the information currently in Biotics, natural heritage resources have not been documented within this section of the submitted project boundary including a 100-foot buffer. The absence of data may indicate that the project area has not been surveyed, rather than confirm that the area lacks natural heritage resources. In addition, the project boundary does not intersect any of the predictive models identifying potential habitat for natural heritage resources.

All Quads

If tree clearing outside of the established right-of-way (ROW) is necessary, the proposed project will impact an Ecological Core (**C1, C2, C3, C4 & C5**) as identified in the Virginia Natural Landscape Assessment (<https://www.dcr.virginia.gov/natural-heritage/vaconvisvnl>). Mapped cores in the project area can be viewed via the Virginia Natural Heritage Data Explorer, available here: <http://vanhde.org/content/map>.

Ecological Cores are areas of at least 100 acres of continuous interior, natural cover that provide habitat for a wide range of species, from interior-dependent forest species to habitat generalists, as well as species that utilize marsh, dune, and beach habitats. Interior core areas begin 100 meters inside core edges and continue to the deepest parts of cores. Cores also provide the natural, economic, and quality of life benefits of open space, recreation, thermal moderation, water quality (including drinking water recharge and protection, and erosion prevention), and air quality (including sequestration of carbon, absorption of gaseous pollutants, and production of oxygen). Cores are ranked from C1 to C5 (C5 being the least significant) using nine prioritization criteria, including the habitats of natural heritage resources they contain.

Impacts to cores occur when their natural cover is partially or completely converted permanently to developed land uses. Habitat conversion to development causes reductions in ecosystem processes, native biodiversity, and habitat quality due to habitat loss; less viable plant and animal populations; increased predation; and increased introduction and establishment of invasive species.

DCR recommends avoidance of impacts to cores. When avoidance cannot be achieved, DCR recommends minimizing the area of impacts overall and concentrating the impacted area at the edges of cores, so that the most interior remains intact.

The proposed project will impact one or more cores with very high to outstanding ecological integrity. Further investigation of these impacts is recommended and DCR-DNH can conduct a formal impact analysis upon request. This analysis would estimate direct impacts to cores and habitat fragments and indirect impacts to cores. The final products of this analysis would include an estimate of the total impact of the project in terms of acres. For more information about the analysis and service charges, please contact Joe Weber, DCR Chief of Biodiversity Information and Conservation Tools at Joseph.Weber@dcr.virginia.gov.

Additionally, DCR recommends the development and implementation of an invasive species plan to be included as part of the maintenance practices for the right-of-way (ROW). The invasive species plan should include an invasive species inventory for the project area based on the current DCR Invasive Species List (<https://www.dcr.virginia.gov/natural-heritage/document/nh-invasive-plant-list-2023.pdf>) and methods for treating the invasives. DCR also recommends the ROW restoration and maintenance practices planned include appropriate revegetation using native species in a mix of grasses and forbs, robust monitoring and an adaptive management plan to provide guidance if initial revegetation efforts are unsuccessful or if invasive species

outbreaks occur.

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the DCR, DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects.

There are no State Natural Area Preserves under DCR's jurisdiction in the project vicinity.

New and updated information is continually added to Biotics. Please re-submit a completed order form and project map for an update on this natural heritage information if the scope of the project changes and/or six months has passed before it is utilized.

A fee of \$250.00 has been assessed for the service of providing this information. Please find attached an invoice for that amount. Please return one copy of the invoice along with your remittance made payable to the Treasurer of Virginia, DCR Finance, 600 East Main Street, 24th Floor, Richmond, VA 23219. Payment is due within thirty days of the invoice date. Please note late payment may result in the suspension of project review service for future projects.

The Virginia Department of Wildlife Resources (VDWR) maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters that may contain information not documented in this letter. Their database may be accessed at <https://services.dwr.virginia.gov/fwis/> or contact Lee Brann at Lee.Brann@dwr.virginia.gov. There is potential for the little brown bat (*Myotis lucifugus*) and the tri-colored bat (*Perimyotis subflavus*) to occur within the project area. Therefore, DCR recommends coordination with the VDWR, Virginia's regulatory authority for the management and protection of these species to ensure compliance with the Virginia Endangered Species Act (VA ST §§ 29.1-563 – 570).

The U.S. Fish and Wildlife Service (USFWS) utilizes an online project review process (<https://www.fws.gov/office/virginia-ecological-services/virginia-field-office-online-review-process>) to facilitate compliance with the Endangered Species Act (16 U.S.C. 1531-1544, 87 Stat. 884) (ESA), as amended. The process enables users to 1) follow step-by-step guidance; 2) access information that will allow them to identify threatened and endangered species, designated critical habitat, and other Federal trust resources that may be affected by their project; and 3) accurately reach determinations regarding the potential effects of their project on these resources as required under the ESA. If you have questions regarding the online review process, please contact virginiafieldoffice@fws.gov.

Should you have any questions or concerns, feel free to contact me at 804-625-3979. Thank you for the opportunity to comment on this project.

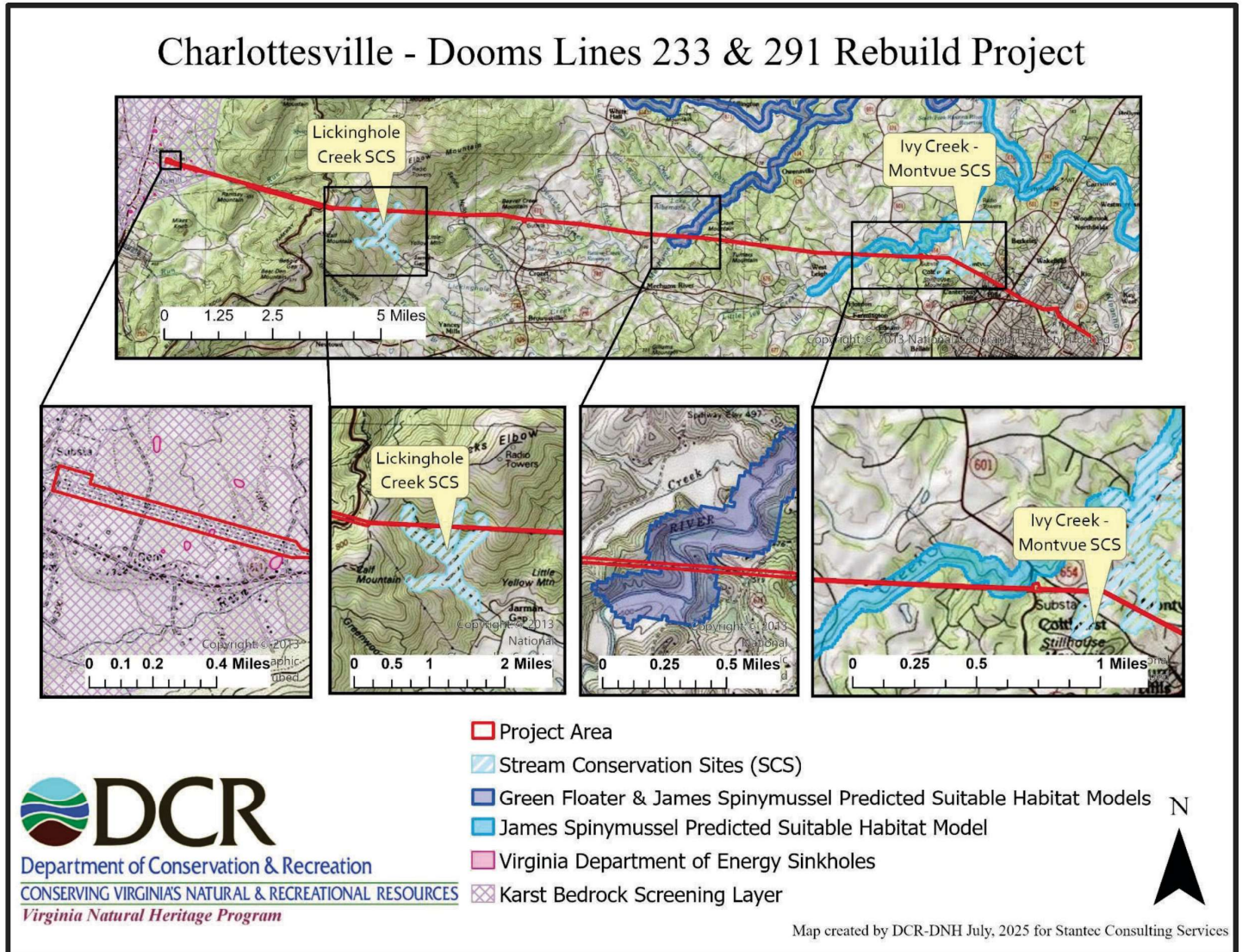
Sincerely,



Nicki Gustafson
Natural Heritage Project Review Assistant

Cc: Hannah Schul, VDWR,
Wil Orndorff, DCR-Karst

Figure 1. Map of Project Area in Relation to Natural heritage Resources



Literature Cited

Clarke, A.H. and R.J. Neves. 1984. Status survey of the James River spinymussel, *Canthyria collina*, in the James River, Virginia. Unpublished report on file with the United States Fish and Wildlife Service, Newton Corner, Massachusetts.

Hove, M.C. and R.J. Neves. 1994. Life history of the endangered James spinymussel *Pleurobema collina* (Conrad, 1837). *American Malacological Bulletin* 11:29-40.

Neves, R.J. 1991. James spinymussel. In *Virginia's Endangered Species: Proceedings of a Symposium*. K.Terwilliger ed. The McDonald and Woodward Publishing Company, Blacksburg, Virginia.

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Ortman, A.E. 1919. A monograph of the naiades of Pennsylvania, Part 3: Systematic account of the genera and species. *Mem. Carnegie Mus.* 8:1-384.

Riddick, M.B. 1973. Freshwater mussels of the Pamunkey River system, Virginia. M.S. Thesis, Virginia Commonwealth University, Richmond, VA 105pp.



The CENTER for
CONSERVATION
BIOLOGY

CCB Mapping Portal



Layers: VA Eagle Nest Locator

Map Center [longitude, latitude]: [-78.56117248535156, 38.10457543999035]

Map Link:

<https://ccbbirds.org/maps/#layer=VA+Eagle+Nest+Locator&zoom=11&lat=38.10457543999035&lng=-78.56117248535156&base=World+Imagery+%28ESRI%29>

Report Generated On: 06/24/2025

The Center for Conservation Biology (CCB) provides certain data online as a free service to the public and the regulatory sector. CCB encourages the use of its data sets in wildlife conservation and management applications. These data are protected by intellectual property laws. All users are reminded to view the [Data Use Agreement](#) to ensure compliance with our data use policies. For additional data access questions, view our [Data Distribution Policy](#), or contact our Data Manager, Marie Pitts, at mlpitts@wm.edu or 757-221-7503.

Report generated by [The Center for Conservation Biology Mapping Portal](#).

To learn more about CCB visit ccbbirds.org or contact us at info@ccbbirds.org



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

www.deq.virginia.gov

Stefanie K. Taillon
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director

July 22, 2025

Elizabeth Gayne
Manager
Virginia Electric and Power Co. d/b/a Dominion Energy Virginia
120 Tredegar St.
Richmond, VA 23219

Re: Dominion Energy Virginia Electric Transmission 2025 Standards and Specifications for Erosion & Sediment Control and Stormwater Management
S&S Agreement No. SS013

Transmitted electronically: elizabeth.h.gayne@dominionenergy.com

Dear Ms. Gayne,

The Virginia Department of Environmental Quality (DEQ) has reviewed the Dominion Energy Virginia Electric Transmission (Dominion ET) Standards and Specifications (S&S) for Erosion and Stormwater Management (ESM), certified on June 26, 2025, and received by the DEQ Office of Stormwater Management on June 26, 2025. The S&S Agreement is deemed approved for ESM pursuant to the Virginia Erosion and Stormwater Management Act (§ 62.1-44.15:24 et seq.) and associated regulation (9VAC25-875-10 et seq) unless otherwise specified by DEQ or where there are changes requiring DEQ review and approval.

As an owner/operator with approved S&S, Dominion ET is responsible for administering, implementing, and complying with the S&S Agreement and following the design criteria in the Virginia Stormwater Management Handbook (VSMH, GM24-2001). In accordance with Part VI of the Virginia Erosion and Stormwater Management Regulation (9VAC25-875-820 & 830), Dominion ET will periodically update the S&S Agreement. Approval of the S&S Agreement by DEQ does not relieve the owner/operator of the duty to comply with other applicable local, state, or federal ordinances or regulations.

The approved S&S Agreement is subject to the following requirements:

1. Approval of this S&S is set to expire 60 days after the publication of VSMH, Version 1.3.
2. Upon issuance of VSMH Version 1.3, Dominion ET shall submit new S&S to DEQ-OSWM for review within 30 days using Appendix J with no variations.
3. Dominion will work diligently with DEQ Handbook staff (POC: [Kay Alexander](#)) to propose changes that incorporate specific items related to Dominion's specialized work that will allow similar industries building such facilities to use the same standard (as more solar projects are building their own substations and transmission lines, AEP, Electric Co-Ops, Data centers that self-perform electrical

July 22, 2025

Dominion ET S&S for ESC and SWM

- work, other power line or power plant developers, etc.) that will be incorporated into VSMH Version 1.3.
4. ESC plans and SWM plans must be reviewed by DEQ-Certified Plan Reviewers. Dominion ET, as the S&S holder, retains the authority to approve plans and must do so in writing. Should Dominion ET, as an S&S holder, contract with a third-party to fulfill the plan review function, the certified third-party Plan Reviewer may recommend approval of the plan, but final approval must come from Dominion ET, as the S&S holder.
 5. Variance, waiver, and exception requests not covered under the VSMH must be submitted to DEQ separately from the S&S Agreement. DEQ may require project-specific plans associated with requests to be submitted for review and approval.
 6. Any ESM plan submitted and deemed complete (9VAC25-875-110) by Dominion ET before July 1, 2025, may use the previously approved S&S program. After July 1, 2025, when modifications are submitted to approved plans that were developed using the previously approved S&S program, if the land-use assumptions upon which the existing stormwater management facility was designed and implemented changes (e.g., increase in impervious cover), then the areas which result in an increase in nutrient loading must comply with this approved S&S Agreement, the VSMH, and the Virginia Runoff Reduction Method, Version 4.1 (VRRM 4.1).

To ensure compliance with the approved S&S Agreement, and the Virginia Erosion and Stormwater Management Act and associated regulation, DEQ staff will conduct program reviews, random site inspections, respond to complaints, and provide on-site technical assistance with specific ESC and SWM measures and plan implementation.

As provided by Rule 2A:2 of the Rules of the Supreme Court of Virginia, you have thirty (30) days from the date of receipt within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Virginia Department of Environmental Quality.

To ensure an efficient exchange and response to inquiries, DEQ Central Office is your primary point of contact. Central Office staff will coordinate with our Regional Office staff as appropriate. Please contact Tony Angueira at (804) 584-6265 or antony.angueira@deq.virginia.gov if you have any questions about this letter.

Sincerely,



April Rhodes
Program Manager, Office of Stormwater Management
Virginia Department of Environmental Quality
1111 East Main Street, Suite 1400
Richmond, Virginia 23219
(804) 698-4000

cc: DEQ-OSWM
Ginny Gills, Dominion Electric Transmission

Stage I Pre-Application Analysis for the Proposed Dominion Energy Virginia Charlottesville – Doods 230 kV Lines #233 and 291 Rebuild Project, City of Charlottesville, and Albemarle and Augusta Counties, Virginia

Stantec Consulting Services Inc.



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**Stage I Pre-application Analysis for the Proposed Dominion Energy Virginia Charlottesville —
Dooms Lines #233 and #291 Rebuild Project, Albemarle and Augusta Counties and the City of
Charlottesville, Virginia**

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**Stage I Pre-application Analysis for the Proposed Dominion Energy Virginia Charlottesville —
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**Stage I Pre-application Analysis for the Proposed Dominion Energy Virginia Charlottesville —
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Executive Summary

Executive Summary

Stantec Consulting Services Inc. (Stantec) was retained by Dominion Energy Virginia (Dominion Energy) to conduct a Stage I Pre-Application Analysis for the proposed partial rebuild of transmission lines between the Charlottesville Substation in Charlottesville, Virginia and the Dooms Substation in Augusta County, Virginia. The total length of the existing right-of-way (ROW) easements and Dominion Energy-owned property to be used for the Charlottesville – Dooms Lines #233 and #291 Rebuild Project (Rebuild Project) is approximately 22.3 miles. Because the existing ROW is adequate to construct the proposed Rebuild Project, no new ROWs are necessary.

Dominion Energy, in order to maintain the structural integrity and reliability of its transmission system to comply with mandatory North American Electric Reliability Corporation (NERC) Reliability Standards, proposes to:

- Rebuild, entirely within existing right-of-way or on Dominion Energy-owned property, approximately 22.3 miles of 230 kilovolt (“kV”) Charlottesville-Dooms Lines #233 and #291, starting at the existing Charlottesville Substation and ending at the existing Dooms Substation, by removing the majority of the existing structures, which are steel monopole and lattice structures, and replacing them with new galvanized steel and weathering steel structures.
- Replace the existing conductors on Lines #233 and #291 with new bundled 768.2 ACSS/TW conductors with 3948A ampacity, with a minimum summer emergency rating of 1573 MVA.

The proposed Rebuild Project is needed to comply with mandatory NERC Reliability standards and to maintain reliable service to accommodate overall growth in the area. Specifically, the Rebuild Project is needed to resolve an overloading issue on Lines #233 and #291, which run on the same structures from the existing Charlottesville Substation to the existing Dooms Substation.

All proposed structure heights and locations provided in this report are based upon preliminary engineering and are subject to final design. Between the existing Charlottesville Substation and the existing Dooms Substation, a total of 128 structures consisting of 7 steel monopole structures, 7 painted steel monopole structures, 2 concrete H Frame structures, 2 steel H Frame structures, and 110 lattice structures will be removed from Lines #233 and #291. Dominion Energy will replace these structures with 122 steel monopole structures, 2 3-pole structures, and 2 steel H-Frame structures, with a total of 126 structures. Thirteen structures will decrease in height.

Background research for the Stage I Pre-Application Analysis was conducted in October 2024 and June 2025 by Stantec staff. The preliminary background research and the field study was conducted pursuant to the *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia* (DHR 2008) for proposed transmission line improvements. The research identified 33 previously recorded architectural resources for inclusion in the Stage I analysis. Three previously recorded archaeological resources were located within the existing ROW.



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Recommendations

Architectural Resources

One National Historic Landmark (NHL) architectural resource is within the Rebuild Project's 1.5-mile radius. Ten National Register of Historic Places (NRHP)-listed resources are located within 1.0 mile, of which four are historic districts. Four NRHP-listed resources, one Virginia Landmarks Register (VLR) listed resource, one eligible historic district, and seven eligible resources are located within 0.5 mile. One NHL resource, two NRHP-listed resources, one listed historic district, two eligible resources, two eligible historic districts, and one potentially eligible resource are located within the existing transmission line ROW.

*Based on preliminary engineering, the results of the fieldwork and visual modeling, it is recommended that there would be **No Impact** to Locust Grove (DHR #104-0005), Sunnyside (DHR #104-0006), Charlottesville and Albemarle County Courthouse Historic District (DHR #104-0072), Enderly (DHR # 104-0202), Hard Bargain (DHR #104-0210), Four Acres (DHR #104-0244), Marshall-Rucker-Smith House (DHR #104-5073), Judge William J. Robertson House (DHR #104-5074), Stonefield (DHR #104-5094), the Rock Hill Academy Landscape (DHR #104-5137), Martha Jefferson Historic District (DHR #104-5144), Federal Executive Institute (DHR #104-5186), Barracks Road Shopping Center (DHR #104-5344), Rugby Hills-Barracks Road Historic District (DHR #104-5393), Thomas and Alena Hammond House (DHR #104-5995), Shack Mountain (DHR #002-0200), Woolen Mills Village Historic District (DHR #002-1260), Colonel Vose Residence (DHR #002-5035), Hardie House (DHR #002-5148), Blue Ridge Swim Club (DHR #002-5178), and Periwinkle Cottage (DHR #002-5311).*

*It is further recommended that there would be a **Minimal Visual Impact** to McIntire Golf Course (DHR #104-5102), McIntire Municipal Park (DHR #104-5139), Meadowbrook Hills Historic District (DHR #104-5394), Farmington (DHR #002-0035), Gallison Hall (DHR #002-0808), Crozet Historic District (DHR #002-5087), Farmington Historic District (DHR #002-5153), Appalachian National Scenic Trail- West Virginia and Virginia Segment (DHR #021-5012), and Appalachian Trail, Shenandoah State Park (DHR #093-5043). Stantec further recommends a Minimal Visual Impact to Greenwood-Afton Rural Historic District (DHR #002-5075) and Skyline Drive Historic District (DHR #076-5160/069-0234). It is also recommended that there would be a Minimal Visual Impact to potentially NRHP-eligible Ingleridge Farm (DHR #002-1736). The following table details the potential impacts to historic resources for the Rebuild Project.*

Summary of Recommendations for Impacts to Considered Resources

DHR #	Resource Name	NRHP Status	Distance to Closest Structure (Feet; Existing)	Distance to Closest Structure (Feet; Proposed)	Stantec Impact Recommendation
104-0005	Locust Grove, 810 Locust Ave	NRHP-Listed, VLR Listed	3,524 feet; 233/125, 291/125	3,603 feet; 233/1, 291/1	No Impact
104-0006	Sunnyside, 2150 Barracks Road	NRHP-Listed, VLR Listed	2,495 feet; 233/21, 291/21	2,491 feet; 233/21, 291/21	No Impact
104-0072	Charlottesville and Albemarle County Courthouse Historic District	NRHP-Listed, VLR Listed	3,237 feet; 233/5, 291/5	3,234 feet; 233/5, 291/5	No Impact



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DHR #	Resource Name	NRHP Status	Distance to Closest Structure (Feet; Existing)	Distance to Closest Structure (Feet; Proposed)	Stantec Impact Recommendation
104-0202	Enderly, 603 Watson Avenue	NRHP-Listed, VLR Listed	2,686 feet; 233/5, 291/5	2,682 feet; 233/5, 291/5	No Impact
104-0210	Hard Bargain, 1103 Park Street	NRHP-Listed, VLR Listed	2,145 feet; 233/5, 291/5	2,142 feet; 233/5, 291/5	No Impact
104-0244	Four Acres, 1314 Rugby Road	NRHP-Listed, VLR Listed	2,599 feet; 233/16, 291/16	2,595 feet; 233/16, 291/16	No Impact
104-5073	Marshall-Rucker-Smith House, 620 Park Street	NRHP-Listed, VLR Listed	5,004 feet; 233/4, 291/4	5,001 feet; 233/4, 291/4	No Impact
104-5074	Judge William J. Robertson House, 705 Park Street	NRHP-Listed, VLR Listed	4,699 feet; 233/5, 291/5	4,695 feet; 233/5, 291/5	No Impact
104-5094	Stonefield, 1204 Rugby Road	NRHP-Listed, VLR Listed	3,285 feet; 233/16, 291/16	3,281 feet; 233/16, 291/16	No Impact
104-5102	McIntire Golf Course, Route 250 Bypass	Eligible	909 feet; 233/8, 291/8	903 feet; 233/8, 291/8	Minimal
104-5137	Rock Hill Academy Landscape, 1025 Park Street	Eligible	2,539 feet; 233/6, 291/6	2,535 feet; 233/6, 291/6	No Impact
104-5139	McIntire Municipal Park, Route 250 Bypass	Eligible	568 feet; 233/8, 291/8	565 feet; 233/8, 291/8	Minimal
104-5144	Martha Jefferson Historic District	NRHP-Listed, VLR Listed	2,674 feet; 233/125, 291/125	2,736 feet; 233/1, 291/1	No Impact
104-5186	Federal Executive Institute, 1301 Emmet Street North	Eligible	1,614 feet; 233/19, 291/19	1,611 feet; 233/19, 291/19	No Impact
104-5344	Barracks Road Shopping Center, 1117 Emmet Street North	Eligible	2,347 feet; 233/20, 291/20	2,341 feet; 233/20, 291/20	No Impact
104-5393	Rugby Hills, Barracks Road Historic District	Eligible	1,817 feet; 233/16, 291/16	1,813 feet; 233/16, 291/16	No Impact
104-5394	Meadowbrook Hills Historic District	Eligible	13 feet; 233/16, 291/16	8 feet; 233/16, 291/16	Minimal



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DHR #	Resource Name	NRHP Status	Distance to Closest Structure (Feet; Existing)	Distance to Closest Structure (Feet; Proposed)	Stantec Impact Recommendation
104-5995	Thomas and Alena Hammond House, 1708 Yorktown Drive	VLR Listed	1,501 feet; 233/11, 291/11	1,506 feet; 233/11, 291/11	No Impact
002-0035	Farmington, Rt. 250	NRHP-Listed, VLR Listed	3,178 feet; 233/37, 291/37	3,177 feet; 233/37, 291/37	Minimal
002-0200	Shack Mountain, 1790 Lambs Road	NHL, NRHP-Listed, VLR Listed	7,500 feet; 233/28, 291/28	7,494 feet; 233/28, 291/28	No Impact
002-0808	Gallison Hall, 24 Farmington Drive	NRHP-Listed, VLR Listed	0 feet; 233/35, 291/35	0 feet; 233/35, 291/35	Minimal
002-1260	Woolen Mills Village Historic District	NRHP-Listed, VLR Listed	4,823 feet; 233/125, 291/125	5,018 feet; 233/1, 291/1	No Impact
002-1736	Ingleridge Farm, 1585 Ingleridge Farm	Eligible	0 feet; 233/29, 291/29	0 feet; 233/29, 291/29	Minimal
002-5035	Colonel Vose Residence, 3 Brook Road	Eligible	1,847 feet; 233/38, 291/38	1,852 feet; 233/38, 291/38	No Impact
002-5075	Greenwood-Afton Rural Historic District	NRHP-Listed, VLR Listed	0 feet; 233/116, 291/116	0 feet; 233/112, 291/112	Minimal
002-5087	Crozet Historic District	NRHP-Listed, VLR Listed	3,300 feet; 233/95, 291/95	3,299 feet; 233/95, 291/95	Minimal
002-5148	Hardie House, 2115 Dogwood Lane	Eligible	921 feet; 233/38, 291/38	923 feet; 233/38, 291/38	No Impact
002-5153	Farmington Historic District	Eligible	0 feet; 233/37, 291/37	0 feet; 233/36, 291/36	Minimal
002-5178	Blue Ridge Swim Club, 1275 Owensville Rd	NRHP-Listed, VLR Listed	158 feet; 233/54, 291/54	150 feet; 233/54, 291/54	No Impact
002-5311	Periwinkle Cottage, 2245 Blue Ridge Lane	NRHP-Listed, VLR Listed	1,065 feet; 233/37, 291/37	1,061 feet; 233/37, 291/37	No Impact
021-5012	Appalachian National Scenic Trail	Eligible	121 feet; 233/124, 291/124	132 feet; 233/124, 291/124	Minimal
069-0234/076-5160	Skyline Drive Historic District	NHL, NRHP-Listed, VLR Listed	10 feet; 233/125, 291/125	0 feet; 233/125, 291/125	Minimal
093-5043	Appalachian Trail, Shenandoah State Park	Eligible	0 feet; 233/124, 291/124	0 feet; 233/124, 291/124	Minimal

Archaeological Resources



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Three previously recorded archaeological resources are located within the Rebuild Project ROW (Table 3; Appendix D). Sites 44B0122 and 44AB0239 intersect the project ROW but they have not been evaluated for listing in the NRHP. 44AU0833 is located within the ROW and has been determined potentially eligible for listing on the NRHP. Per the DHR's guidelines, Stage II archaeological survey is recommended for the Rebuild Project.

Previously Recorded Archaeological Resources Considered under the Stage I Pre-Application Guidelines

DHR #	Resource Name	NRHP Status	Closest Existing Structure	Distance to Closest Existing Structure (Feet)	Recommendation
44AB0122	Pre-Contact Camp	Not Evaluated	233/53, 291/53	0 feet	Investigate During Archaeological Survey
44AB0239	19 th Century Cemetery	Not Evaluated	233/24, 291/24	236 feet	Investigate During Archaeological Survey
44AU0833	Pre-Contact Lithic Quarry	Potentially Eligible	233/133, 291/133	316 feet	Investigate During Archaeological Survey



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Acronyms / Abbreviations

Acronyms / Abbreviations

Acronym / Abbreviation	Full Name
DEM	Digital Elevation Model
DHR	Department of Historic Resources
DSM	Digital Surface Model
Dominion Energy	Dominion Energy Virginia
kV	Kilovolt
NERC	North America Electric Reliability Corporation
NHL	National Historic Landmark
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
ROW	Right-of-Way
SCC	State Corporation Commission
Stantec	Stantec Consulting Services Inc.
V-CRIS	Virginia Cultural Resources Information System
VHLC	Virginia Historic Landmarks Commission
VLR	Virginia Landmarks Register

