

According to USFWS IPaC, the tricolored bat (*Perimyotis subflavus*) has the potential to occur within the project area. This species summers in forests and other lands with tree snags and trees larger than 3-inch diameter at breast height, especially with significant water sources nearby. This species overwinters in caves, rock shelters, abandoned underground mines, culverts, or in karst features. The summer mist-net survey conducted by Apogee, Inc. included a habitat assessment which confirmed the absence of winter habitat and presence of potential summer habitat for this species. Apogee also included an acoustic survey which captured data from thirteen different bat species, including the tricolored bat, though no individual members of this species were captured by mist-nets. The Applicant is aware that this species is proposed to be reclassified as federally endangered.

Other species of concern:

USFWS IPaC lists the federally proposed threatened monarch butterfly (*Danaus plexippus*). The project area does not overlap the proposed critical habitat for this species. According to VDCR DNH, the Atlantic sturgeon (*Acipenser oxyrinchus*) has the potential to occur within the Appomattox watershed (HUC 02080207). No documented sightings of this species occur in any waters within 2 miles of the project area (see VAFWIS mapping). According to VDCR DNH, the northern long-eared bat (*Myotis septentrionalis*) also has the potential to occur within the Appomattox watershed. No documented sightings of this species occur within 2 miles of the project area, and the project area is also outside the consultation range for this species (see DWR mapping).

In addition, the project area is not located within 660 feet of a bald eagle nest, nor does it intersect with eagle concentration areas. Additionally, there is no Critical Habitat identified within the project study limits.

10.2 Cultural Resources

A review of the Virginia Department of Historical Resources (DHR) Virginia Cultural Resource Information System (V-CRIS) was performed for the Project Area and within a 1.0 mile radius of the Project Area to identify the presence or absence of previously recorded historic resources as of January 2026. The results of this review are provided in Appendix L: Cultural Resources Information and a summary is provided below.

Based on the results of the V-CRIS search, one (1) architectural resource and eight (8) archaeological resources were identified within the project study limits. Of these resources, one has been formally evaluated for listing in the National Register of Historic Places (NRHP) or the Virginia Landmarks Register (VLR) by DHR staff:

- Archaeological Resource 44CF0884, which contains remains of a Native American camp from the Late Woodland period and was designated “Not Eligible” for register listing by DHR staff

The remainder of the resources have not been formally evaluated by DHR staff:

- Architectural Resource 020-0553 and Archaeological Resource 44CF0324, which are known collectively as Dry Bridge Cemetery, established during the Antebellum Period.
- Archaeological Resource 44CF0323, which represents an area that may contain remnants of three buildings known as *Winfree*, with use spanning 1800–1899.
- Archaeological Resources 44CF0348 and 44CF0349, which contain artifact scatters from multiple periods, 1800–1899.
- Archaeological Resource 44CF0350, which contains lithic scatter associated with Native Americans from the Pre-Contact period

- Archaeological Resource 44CF1023, which represents a single-family dwelling site with cultural materials related to the Hancock and Hogle families
- Archaeological Resource 44CF1024, which contains artifact scatter from the Antebellum, Civil War, and Reconstruction and Growth periods.

Within the 0.25-mile buffer, three (3) architectural and six (6) archaeological resources were identified:

- Architectural resources 020-0048, known as Roseland Farm; 020-0533, known as the Atkinson-Rudd House; and 020-0634, known as Ball Farm, have all been designated "Not Eligible".
- Archaeological resources 44CF0347 and 44CF0351 contain artifact scatter associated with Native Americans from the Pre-Contact period. Neither resource has been formally evaluated by DHR staff.
- Archaeological resource 44CF1025 has been interpreted as a mill dam from the Reconstruction and Growth period. This resource has not been formally evaluated by DHR staff
- Archaeological Resources 44CF0346, 44CF0564, and 44CF0896 contain artifact scatter from multiple periods and cultural affiliations, and have all been designated "Not Eligible" by DHR staff.

A Phase I Archaeological Survey of the full project study area was conducted by Dutton and Associates, a Timmons Group company, in March 2025. This report is provided in [Appendix L](#). The Phase I archaeological survey included pedestrian reconnaissance of all accessible areas within the project area, as well as subsurface investigation totaling 2,003 shovel tests excavated throughout the project area. Significant findings and recommendations from Dutton and Associates' Phase I Archaeological survey are summarized below:

- Site 44CF0324 is known as dry bridge cemetery. Historic maps from the nineteenth century suggested the potential for additional, unmarked burials to be present. For this reason, D+A undertook a boundary delineation survey. This effort identified approximately 11 unmarked burials. Dutton and Associates recommends avoidance of the delineated Dry Bridge Cemetery (Site 44CF0324) with a 7.5-meter (25-foot) buffer.
- Site 44CF1023 is a nineteenth century dwelling. The site consists of historic map-projected structures associated with the Hancock and Hogle families. The site demonstrates intact stratigraphy, a long range of occupation, and is associated with named individuals. For these reasons, the site has the potential to contain new research potential, and Dutton and Associates recommends Site 44CF1023 to be potentially eligible for the National Register for Historic Places (NRHP).

Following the Phase I Archaeological Survey, Dutton and Associates conducted a Phase II evaluation of Site 44CF0324 (dated January 2026, provided in [Appendix L](#)) to determine the overall significance and eligibility of the site for listing in NRHP. This was accomplished through a combination of detailed historic research and field investigations consisting of the excavation of close interval shovel test pits and test units. Based on Dutton and Associates' findings, the site is associated with the important social changes of the years leading up to and just after the Civil War; and it is an understudied resource type within the region. Therefore, Dutton and Associates recommends Site 44CF1023 eligible for inclusion in the NRHP.

If architectural or archaeological resources are discovered during construction, all construction activities will be terminated within 200 feet of the discovery until VDHR can be consulted and the resources can be further evaluated to determine potential significance.

10.3 Environmental Justice & Public Involvement

The Applicant has reviewed the Virginia DEQ (VDEQ) Environmental Justice Screening and Mapping Tool (EJSCREEN) in an effort to identify the presence/absence of Environmental Justice Communities/Populations within the vicinity of the Project. Per federal guidelines (Executive Order 12898) and the Virginia Environmental Justice Act, Environmental Justice (EJ) Communities include low-income populations and minority populations (including communities of color and linguistically isolated populations).

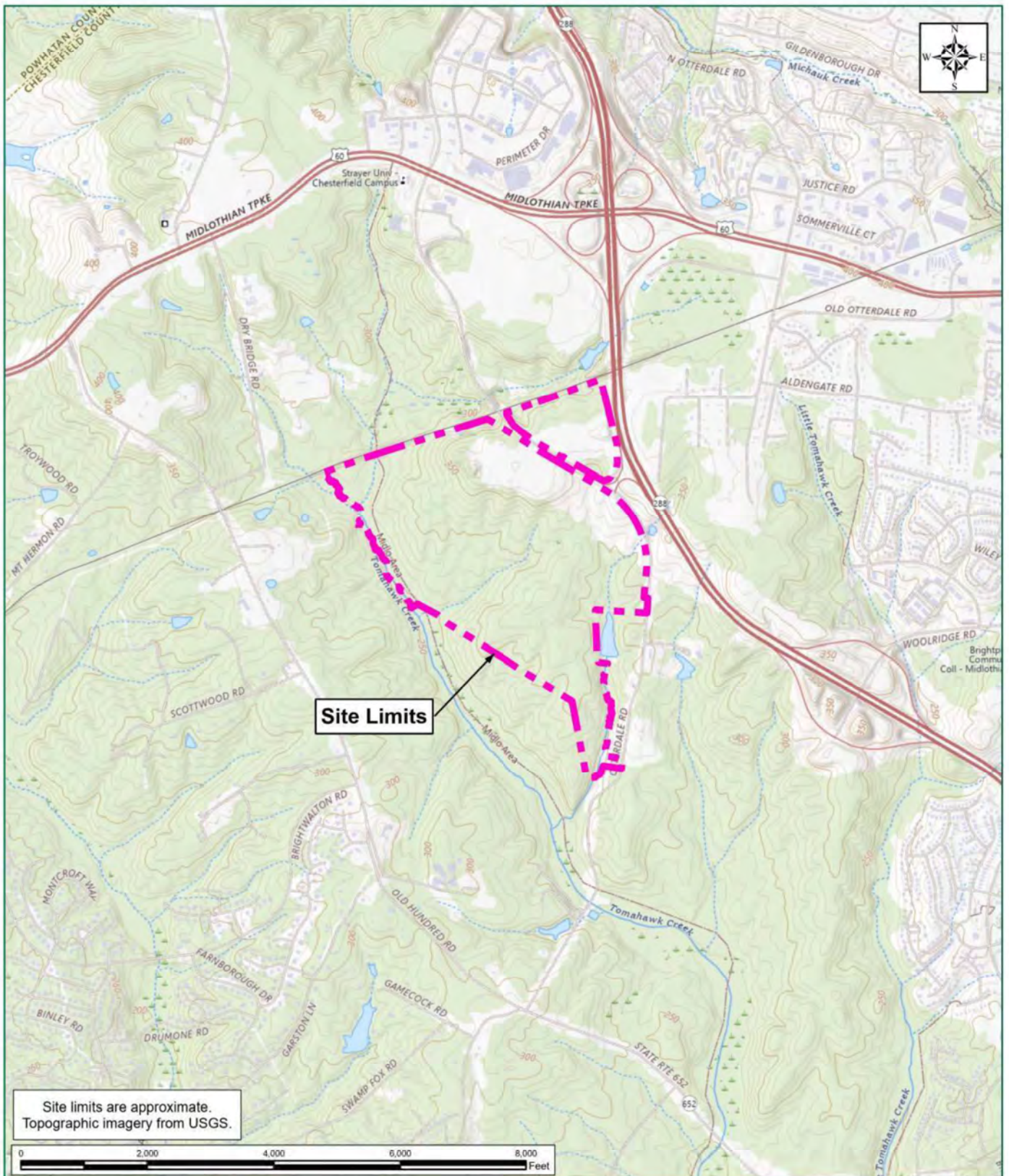
EJSCREEN provides Demographic Indicators specific to EJ populations. A search using the EJSCREEN tool was conducted utilizing a standard 1-kilometer buffer surrounding the project study limits. The results of this review and details regarding the EJSCREEN are provided in Appendix M: Environmental Justice Screening Information.

The applicant anticipates public involvement will occur as outlined by USACE and DEQ guidelines regarding public notices. This will include standard public notices on agency websites, in a local paper, and delivered to adjacent property owner (APO). These processes will provide multiple opportunities for the public to provide comment regarding agency consideration of aquatic resource impact authorizations. APO information based on publicly available data, including names and addresses, can be found on Figure 7: Adjacent Property Owners Map.

11.0 CONCLUSION

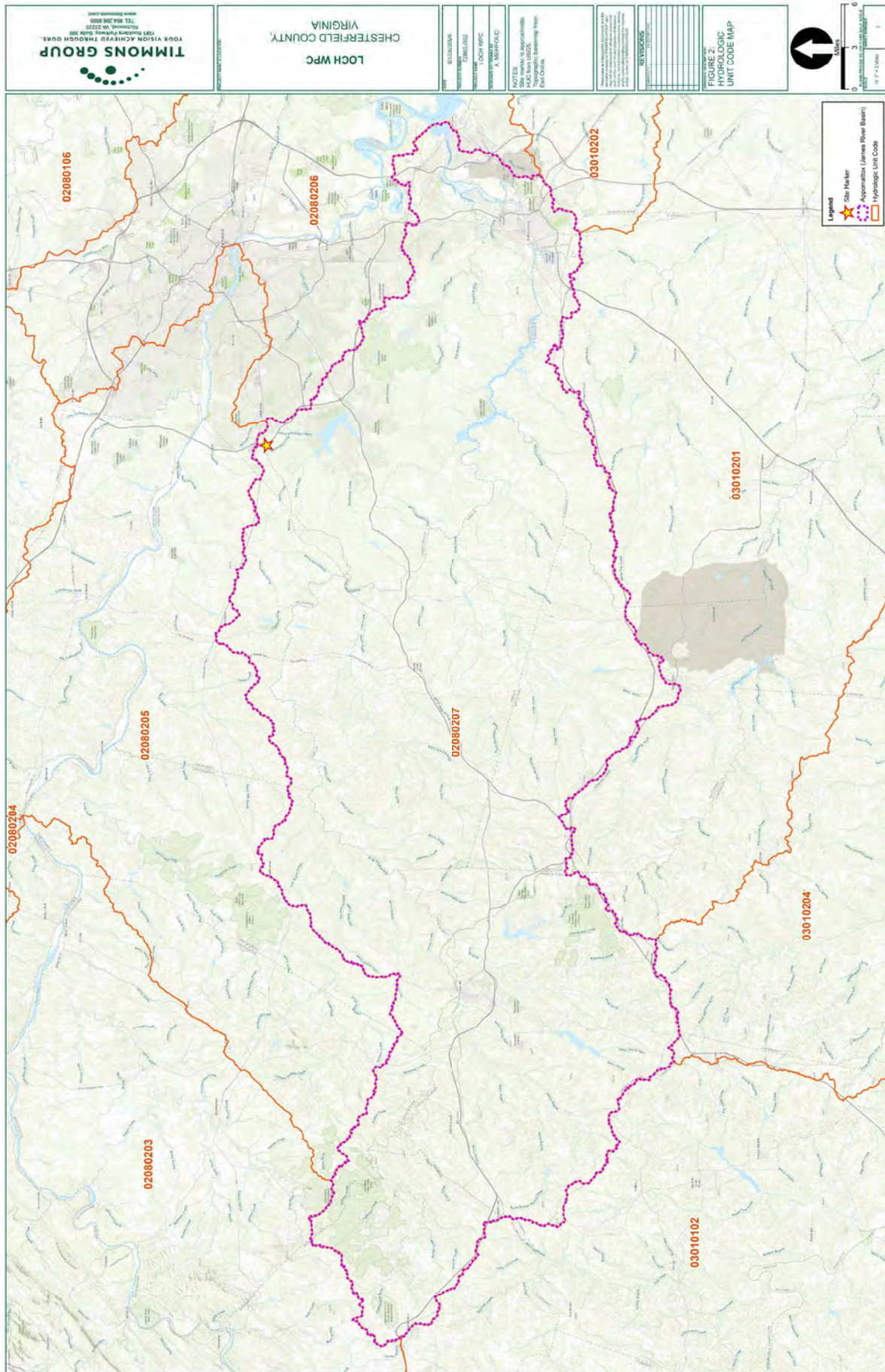
Thank you in advance for your attention to this project. Please contact Taryn Payne at taryn.payne@timmons.com or (804) 200-6377 if there are any questions or if additional information is required.

FIGURES



LOCH WPC CHESTERFIELD COUNTY, VIRGINIA FIGURE 1: VICINITY MAP	TIMMONS GROUP YOUR VISION ACHIEVED THROUGH OURS.
TIMMONS GROUP JOB NUMBER: 72865.002 PROJECT STUDY LIMITS: 349.3 ACRES LATITUDE: 37.4930427 LONGITUDE: -77.6926332	U.S.G.S. QUADRANGLE(S): HALLSBORO DATE(S): 2022 WATERSHED(S): APPOMATTOX HYDROLOGIC UNIT CODE(S): 02080207

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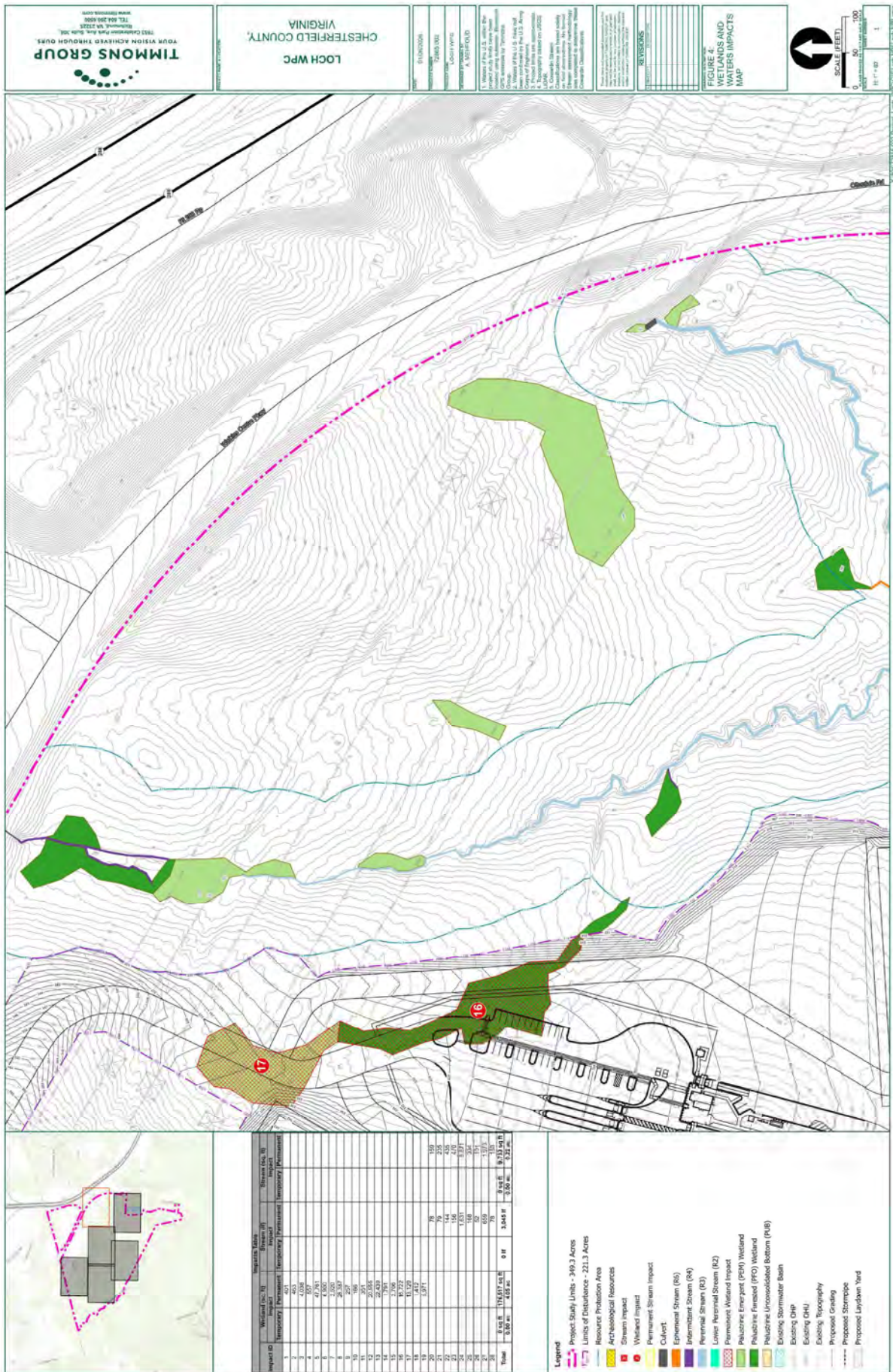






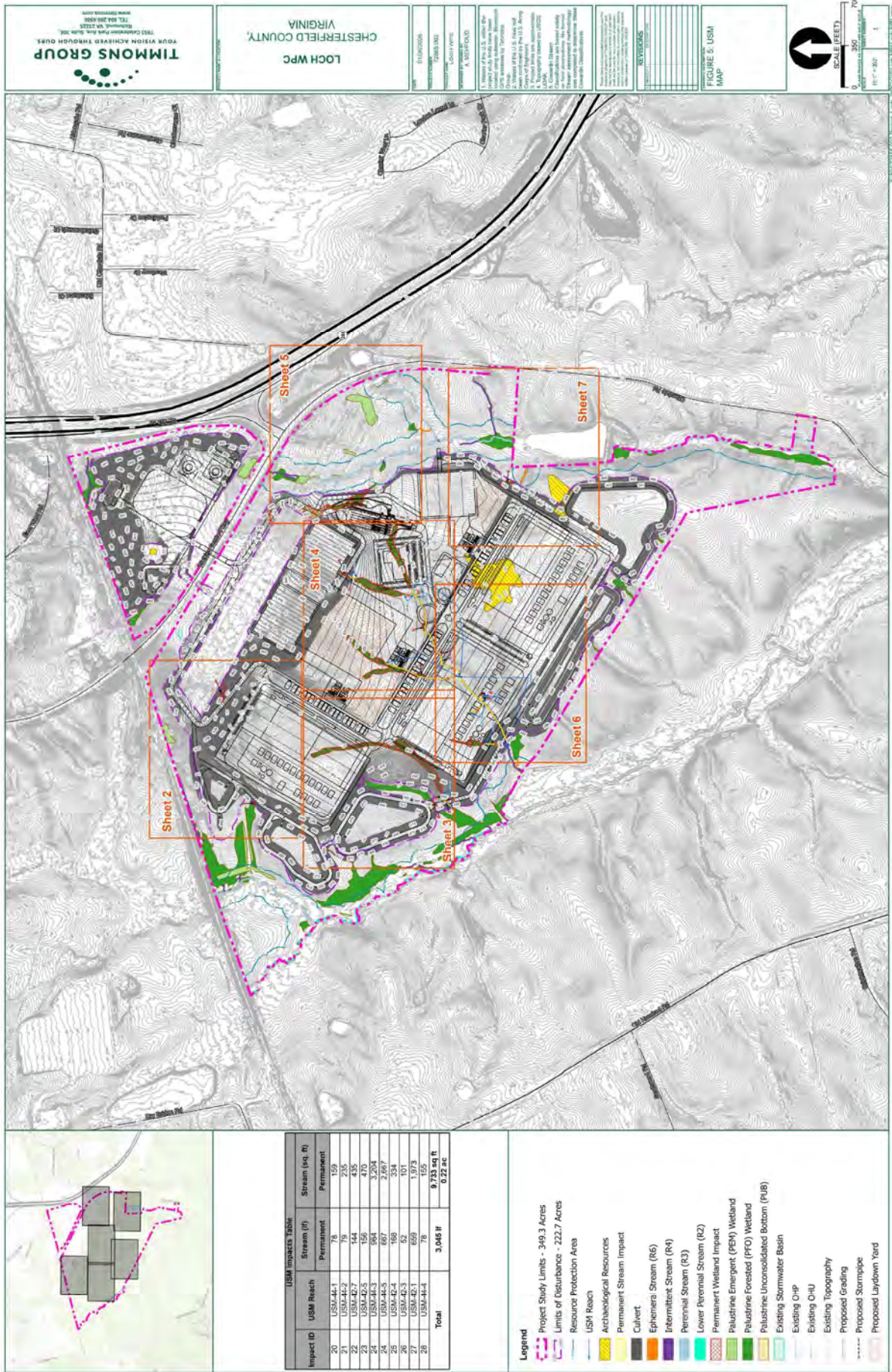








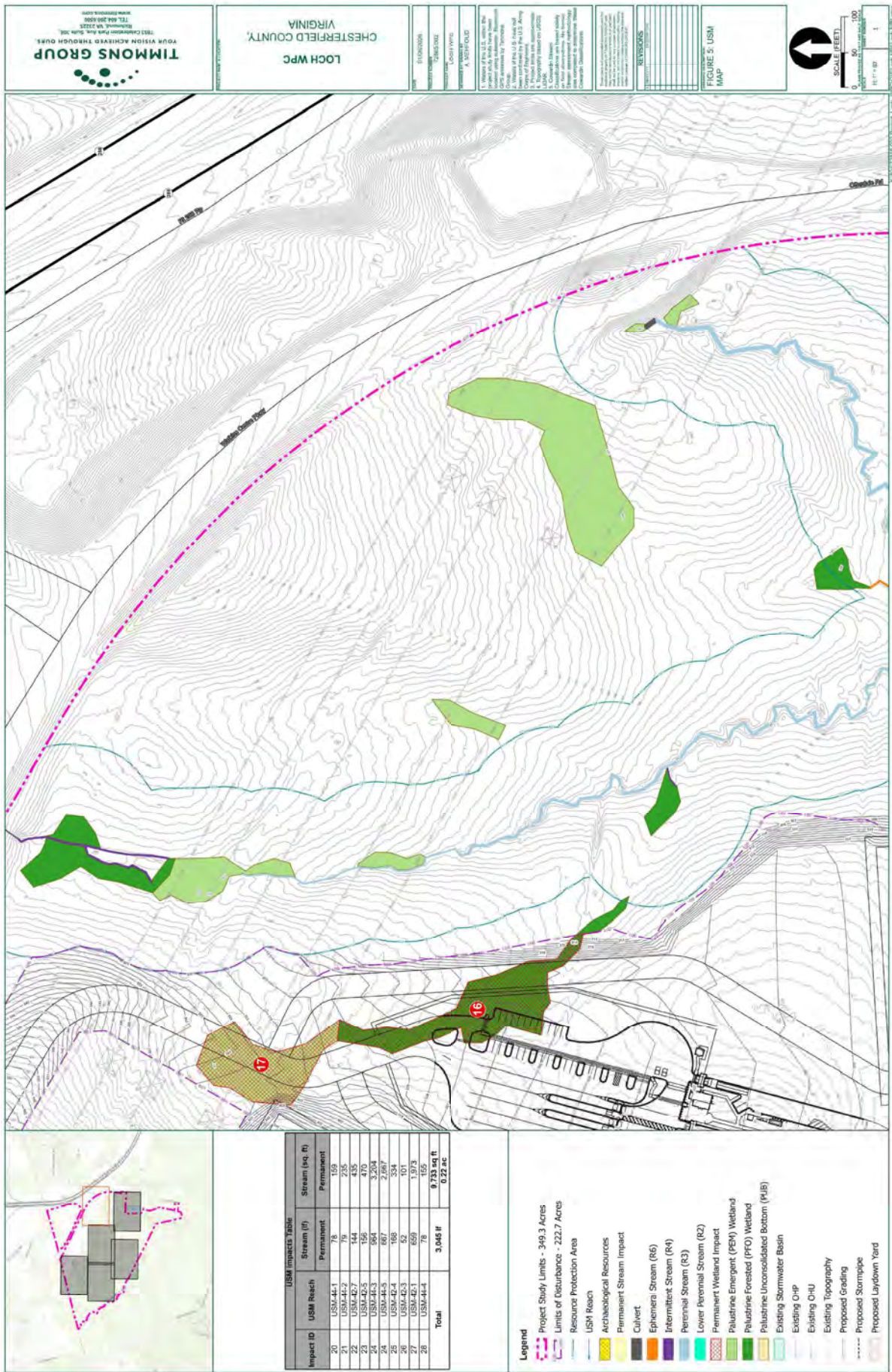


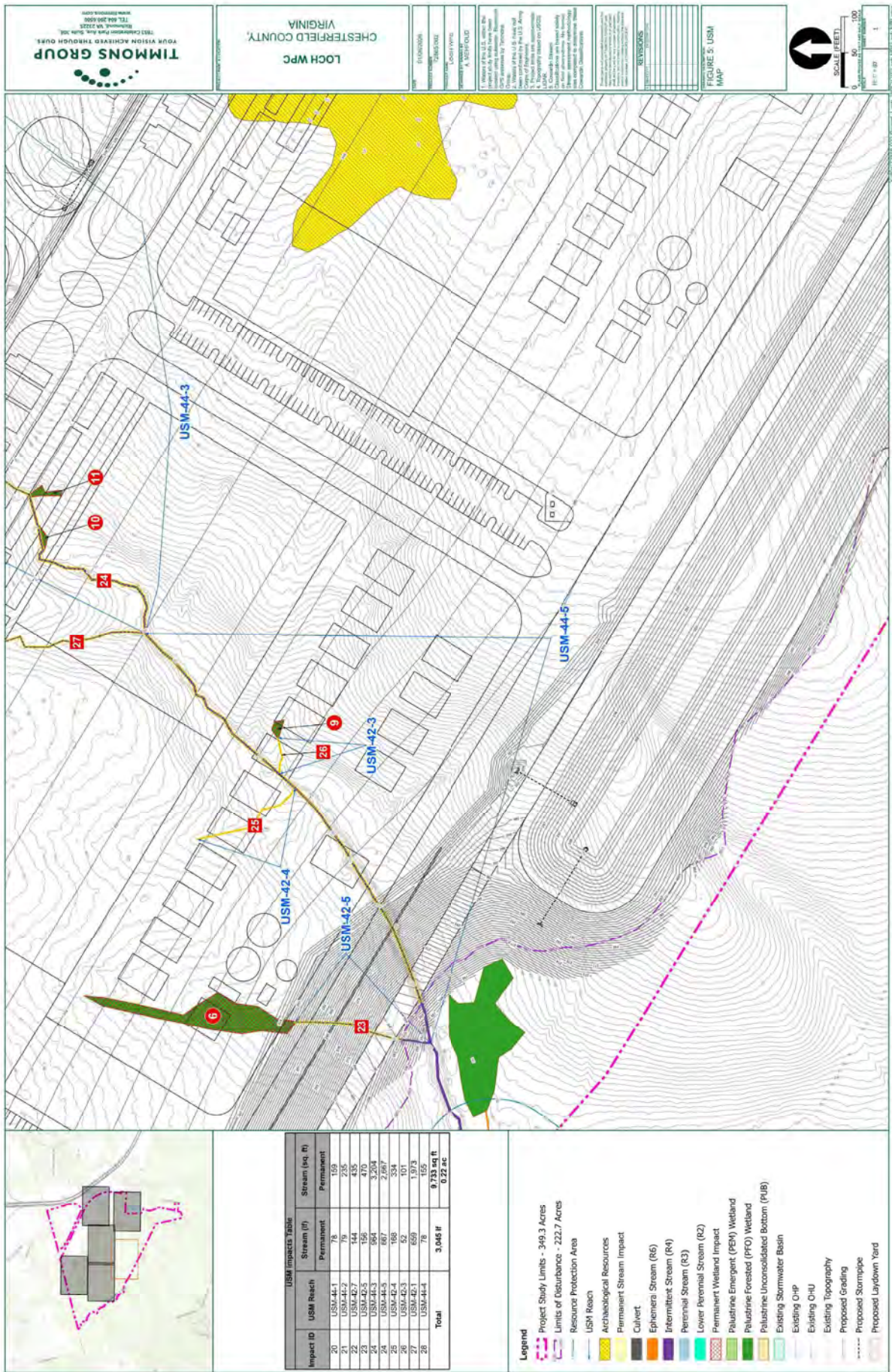


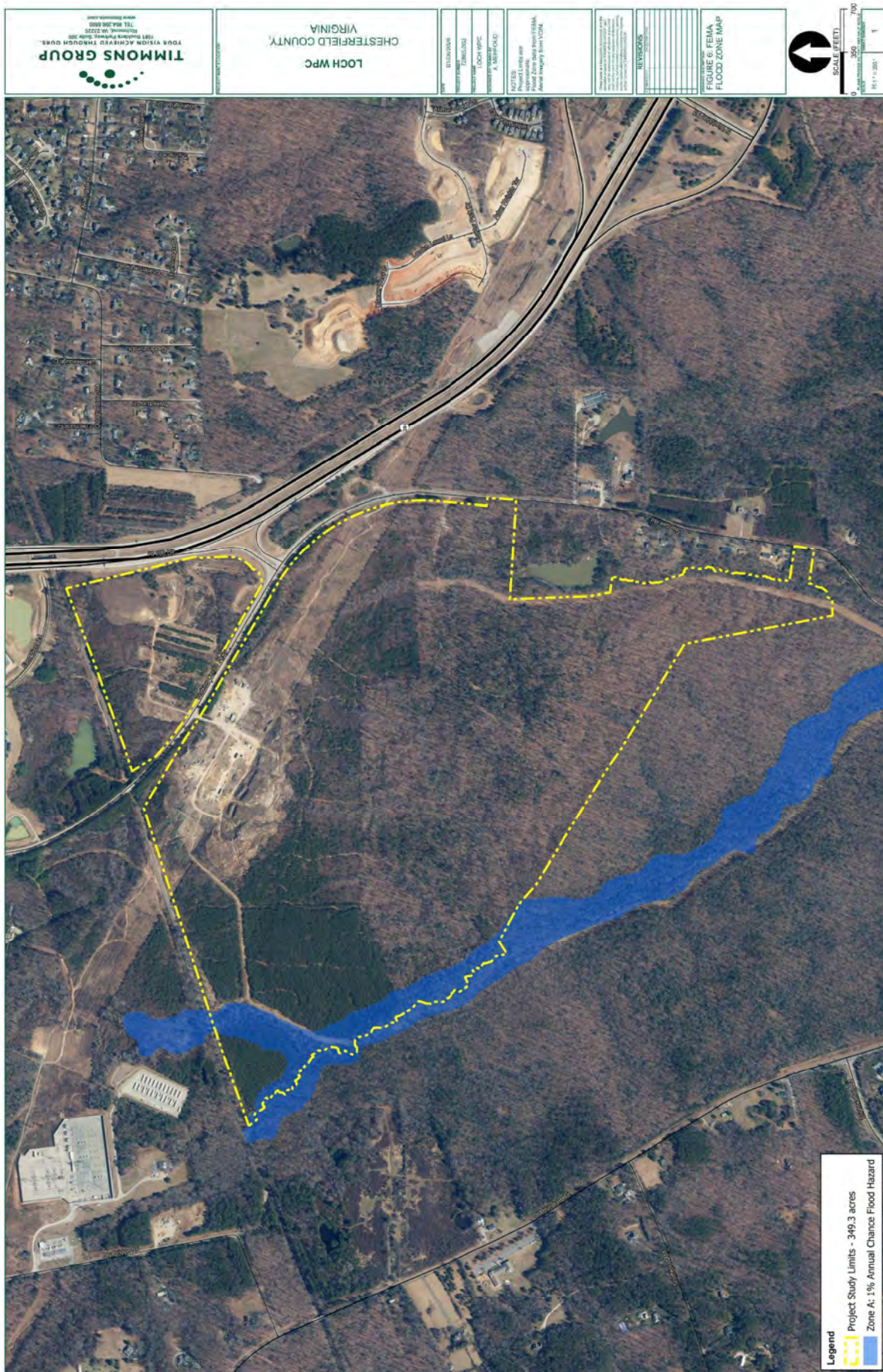


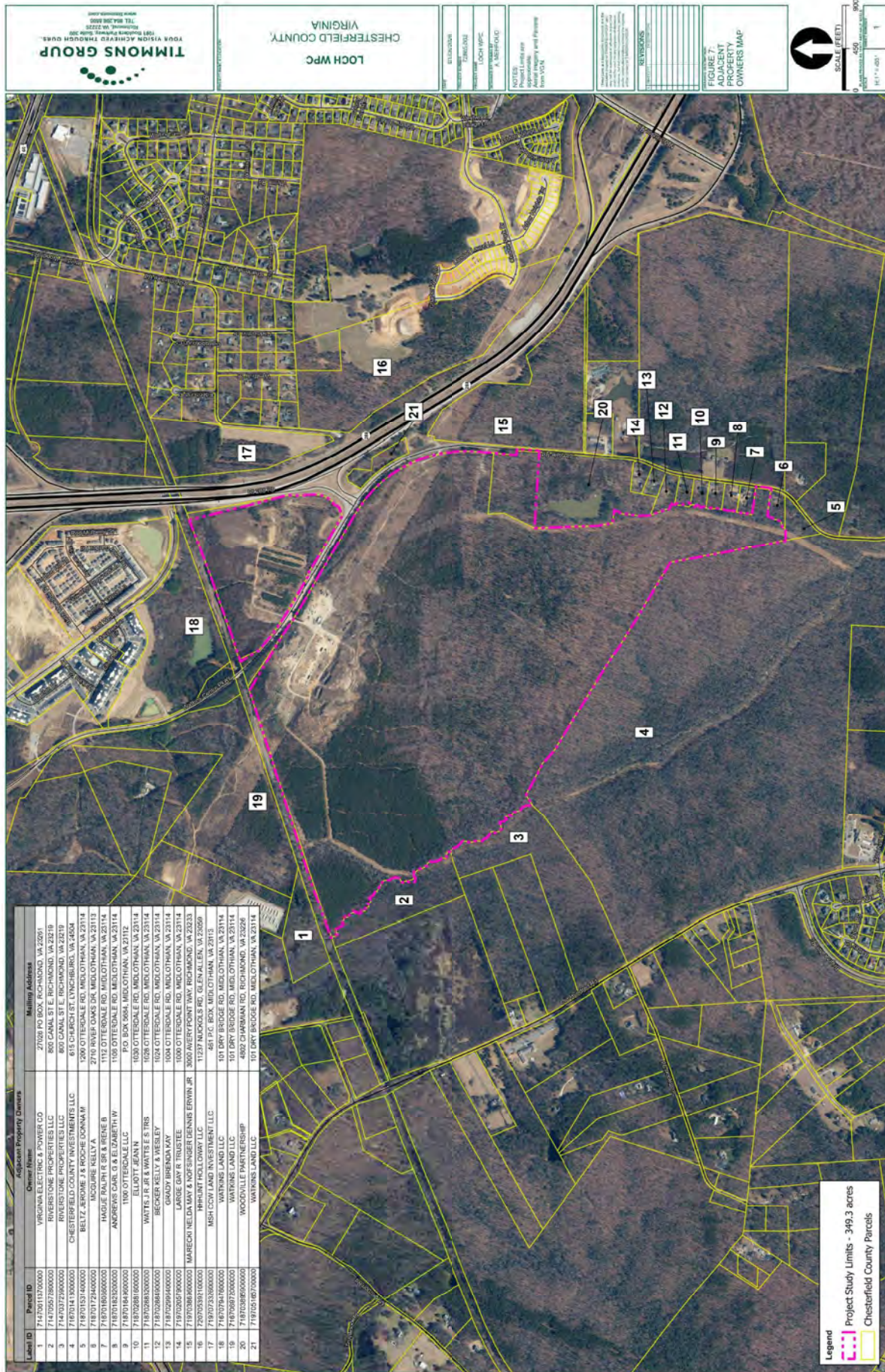


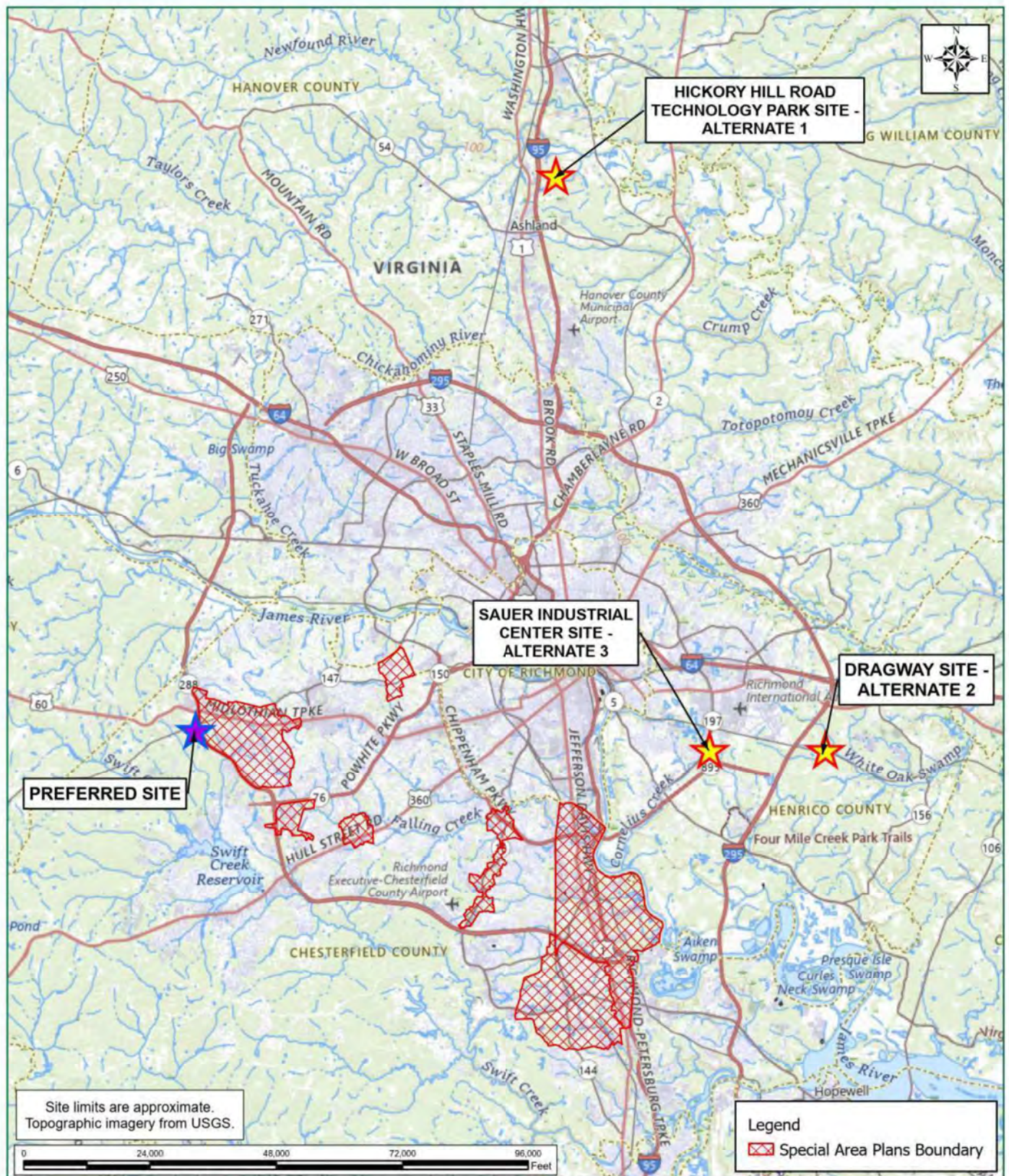












LOCH WPC

CHESTERFIELD COUNTY, VIRGINIA

Figure 8: Preferred Alternative and Existing Midlothian Community Special Area Plan

TIMMONS GROUP

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APPENDIX A
Joint Permit Application Forms

JPA – State Specific Information

A. GENERAL INFORMATION

1. DEQ-VWP APPLICATION INSTRUCTIONS

"State waters" means all water, on the surface and under the ground, wholly or partially within or bordering the Commonwealth or within its jurisdiction, including wetlands. "Surface water" means all state waters that are not groundwater as groundwater is defined in § 62.1-255 of the Code of Virginia.

In addition to completing the other information requested by the United States Army Corps of Engineers' (USACE) Regulatory Request System (RRS) portal, please complete the DEQ Supplemental Information to apply for a DEQ Virginia Water Protection (VWP) individual permit or VWP general permit coverage for work in waters and/or wetlands within the Commonwealth of Virginia.

DEQ Complete Application Checklists are provided on the DEQ web site to assist in completing the required information and providing the required attachments, such as but not limited to project drawings, the State Surface Water Determination (SSWD), USACE Nationwide Permit Section 401 Certification Compliance Worksheet(s), DEQ 45-day Coverage Checklist, and materials for a complete State Programmatic General Permit (SPGP) application. The DEQ Complete Application Checklists and any required DEQ application attachments can be uploaded using the RRS portal. The VWP Permit and Compliance Manual is another source of information for completing many of the DEQ questions. Please visit for these tools: <https://www.deq.virginia.gov/our-programs/water/wetlands-streams>.

Information required for a complete VWP general permit coverage application is in accordance with the following regulations, unless otherwise noted on item in the checklist: The VWP General Permit Regulations are [9VAC25-660](#) (WP1); [9VAC25-670](#) (WP2); [9VAC25-680](#) (WP3); and [9VAC25-690](#) (WP4). *Sections 50 and 60 contain Notification and Application requirements. Sections 30, 50, 60, and 70 of each VWP general permit regulation, [9VAC25-210-116](#), and § 62.1-44.15:23 should be used as a reference in reviewing the requirements of Conceptual Compensatory Mitigation Plan.*

Information required for a complete VWP individual permit application is in accordance with the following regulations, unless otherwise noted on item in the checklist: The VWP Permit Program Regulation is [9VAC25-210](#). Section 10 contains definitions. *Sections 80 and 100 contain Application requirements for VWP individual permits. Sections 80 and 116, and § 62.1-44.15:23, should be used as a reference for the Conceptual Compensatory Mitigation Plan.* This checklist does not include detailed Final Compensatory Mitigation Plan requirements, as those are not required for a complete application.

Information required for a complete VWP individual permit application for surface water withdrawal or diversion projects is in accordance with the following regulations, unless otherwise noted on item in the checklist: The VWP Permit Program Regulation is [9VAC25-210](#). Sections 10 and 300 contain definitions. *Sections 80, 100, 340, and 360 contain application requirements for VWP-Surface Water Supply individual permits. Section 350 contains application requirements for continuation of a surface water withdrawal, and Section 390 contains requirements for applying for a water supply variance, neither of which are included on this checklist. Sections 80 and 116, and § 62.1-44.15:23, should be used as a reference for the Conceptual Compensatory Mitigation Plan.* This checklist does not include detailed Final Compensatory Mitigation Plan requirements, as those are not required for a complete application.

The VWP Permit Program works in conjunction with USACE-Norfolk District to provide verification of coverage under these State Programmatic General Permits (SPGP) per requirements and Standard Operating Procedures developed by USACE-Norfolk District. Information required by the USACE for a complete SPGP application is in accordance with the details in the 22-SPGP-RCIR (Residential, Commercial, Institutional, and Recreational activities) and 22-SPGP-LT (Linear Transportation activities) located at: <https://www.nao.usace.army.mil/Missions/Regulatory/RBregional/>.

Not all activities will require a VWP permit or coverage. Completing the information carefully will assist DEQ in making a permit need determination.

DEQ prefers that required information identifying various boundaries, such as wetland boundaries, be submitted in Geographic Information System (GIS) shapefile format whenever possible.

Please do not attempt to send any money, credit card information, or proof of payment for fees at the time of application for VWP permitting purposes.

If a question does not apply to the project, respond NA (not applicable) in the space provided. *Upload additional pages, tables, narrative, and documents as necessary or requested.* DEQ may request other additional pertinent information necessary for a complete application, to make a permit decision, and/or issue a legal permit per regulation and Law.

2. **APPLICATION PURPOSE(S):** Select and complete all that apply:

- ☐ Nationwide Permit No.
- ☐ Regional Permit No.
- ☐ SPGP or PGP Name
- ☐ DEQ reapplication – existing permit or tracking number

3. **APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR INFORMATION.** For DEQ purposes, the applicant(s) is/are the *legal entity* to which the permit may be issued. "Legal name" means the full legal name of an individual, business, or other organization. For an individual, legal name means the first name, middle initial, last name, and suffix. For an entity authorized to do business in Virginia, the legal name means the exact name set forth in the entity's articles of incorporation, organization or trust, or formation agreement, as applicable. The applicant(s) can either be the property owner(s) or the person/people/company(ies) that intend(s) to undertake the activity. The agent is the person or company that is representing the applicant(s). *If the name entered in the USACE portion is not the legal name, enter the legal name here.* If an applicant, agent, or contractor is a company, provide the [State Corporation Commission](#) (SCC) information marked with an asterisk "*" below. ****Certain permits or authorizations may be provided via electronic mail instead of or in addition to postal mail.**

==

Legal Name(s) of Applicant(s) as registered with SCC*			Agent (if applicable) as registered with SCC*		
Google, LLC c/o Mr. Zach Miller			Timmons Group c/o Ms. Taryn Payne		
Applicant SCC-Registered Mailing address*			Agent SCC-Registered Mailing address*		
251 Little Falls Drive			7053 Celebration Park Ave, Suite 300		
City	State	ZIP Code	City	State	ZIP Code
Wilmington	DE	19808	Richmond	VA	23225
Email**			Email		
zmiller@google.com			taryn.payne@timmons.com		
Primary Phone (Mobile)		Secondary Phone	Primary Phone (Mobile)		Secondary Phone
(541) 705-5257			(804) 200-6377		
*Enter State Corporation Commission ID number			*Enter State Corporation Commission ID number		
T0723124			02640431		
OR			OR		
☐ Not required to register with SCC			☐ Not required to register with SCC		
Property owner(s) legal name, if different from applicant, as registered with SCC*			Contractor, if known, as registered with SCC*		
Applicant has delegation of authority					

Property owner SCC-Registered Mailing address*			Contractor SCC-Registered Mailing address*		
2801 Centerville Rd Fl 1, PMB 160					
City	State	ZIP code	City	State	ZIP code
Wilmington	DE	19808			
Email			Email		
Primary Phone (Mobile)	Secondary Phone		Primary Phone (Mobile)	Secondary Phone	
*Enter State Corporation Commission ID number			*Enter State Corporation Commission ID number		
11805213					
OR			OR		
☐ Not required to register with SCC			☐ Not required to register with SCC		

4. PREVIOUS ACTIONS RELATED TO THE PROPOSED WORK

If applicable, list in the table all *state* pre-application coordination, site visits, previous permits, applications, or State Surface Water Determination (SSWD) related to the project, whether issued, withdrawn, or denied. Historical information for past VWP permit submittals can be found online with VMRC - <https://webapps.mrc.virginia.gov/public/habitat/> - or VIMS - <http://ccrm.vims.edu/perms/newpermits.html>. Include any applications submitted or permits issued through the DEQ Stormwater Management Program; DEQ Virginia Pollutant Discharge Elimination Program (VPDES); Virginia Department of Health (VDH); and Virginia Department of Energy (Virginia Energy). Some examples of permit or reference numbers may be 22-0123 (VWP individual permit); WP4-22-0123 (VWP general permit coverage); SSWD-123456 (State Surface Waters Determination); VAR12345 (VPDES general permit coverage); VA1234567 (VPDES individual permit).

Agency	Action / Activity	Permit or Reference Number	Date of Action	If denied, give reason for denial

5. PROJECT INFORMATION

5.a. Project Name (*Example: Water Creek driveway crossing*) and total size of the project area (in acres)

Project Loch; 351.3 acres

5.b. Street Address, City/County/ZIP Code (911 address if available)

Watkins Centre Parkway, Midlothian, Virginia 23114

5.c. Subdivision

N/A

5.d. Lot/Block/Parcel #

7177051701 and 7197051657

5.e. Name of water body(ies) within project boundaries and drainage area (acres or square miles)

multiple UNT to Tomahawk Creek and Tomahawk Creek, all <5 square miles

5.f. Tributary(ies) to Basin and Sub-basin (*Example: Basin: James River, Sub-basin: Middle James River*)

Basin: James River (HUC 020802), Sub-basin: Appomattox River (HUC 02080207)

5.g. Special Standards (based on DEQ Water Quality Standards [9VAC25-260 et seq.](#)) – list all that apply:

5.h. Project type - select one:

- ☐ Single user (private, non-commercial, residential)
- ☒ Multi-user (community, commercial, industrial, government)
- ☐ Surface water withdrawal

5.i. Latitude and longitude at center of project site (decimal degrees)

37.4930427, -77.6926332

5.j. USGS topographic map name

Hallsboro, VA 2022

5.k. 8-digit USGS Hydrologic Unit Code (HUC) for your project site (See <http://cfpub.epa.gov/surf/locate/index.cfm>)

02080207

5.l. If known, indicate the 10-digit and 12-digit USGS HUCs (See <http://consapps.dcr.virginia.gov/htdocs/maps/HUExplorer.htm>)

0208020709; 020802070901

5.m. Is there an access road to the project? ☒ Yes ☐ No. If yes, select all that apply:

- ☒ Public
- ☒ Private
- ☒ Improved
- ☒ Unimproved

5.n. Upload a detailed map, such as a USGS topographic map, street map, or GIS shapefile, showing all project site locations and boundaries, locality boundaries, and boundaries of any areas currently under preservation, conservation, or other protective instruments, such as deed restrictions.

5.o. Complete and upload to the RRS portal the Chesapeake Bay Preservation Act information in Appendix A.

5.p. Provide driving directions to your site, giving distances from the best and nearest visible landmarks or major intersections.

Traveling from Richmond. From Midlothian Turnpike (Rt. 60), take the VA-288 S exit, then use the middle lane to take the ramp to Watkins Centre Parkway. The site will be on the left in approximately 0.2 miles.

6. DESCRIPTION OF THE PROJECT, PROJECT PRIMARY AND SECONDARY PURPOSES, PROJECT NEED, INTENDED USE(S), AND ALTERNATIVES CONSIDERED

Upload a narrative in response to these questions or items, numbering each response as shown in this section.

6.a. Describe all physical alteration of state surface waters, including wetlands. Indicate *whether or not tree clearing and/or grubbing will occur* (include the area in square feet and time of year). Ensure that the required plan-view, cross-sectional view, and profile view drawings required for a VWP complete application are detailed and include the proposed activities, structures, and related details – see requirements in DEQ's VWP Complete Application Checklists on <https://www.deq.virginia.gov/permits/water/wetlands-streams-vwp> and/or the applicable Virginia Administrative Code Chapters for the type of VWP permit sought. Upload drawings to the RRS portal.

6.b. If there is any aspect of the project purpose and need that may be specific to state regulations or laws, such as when one or more activities are not regulated by USACE, please include these here.

6.c. Include a description of alternatives considered and measures taken to avoid or minimize impacts to surface waters, including wetlands, to the maximum extent practicable. Explain why the proposed project is the least environmentally damaging practicable alternative (LEDPA). Include factors such as, but not limited to, alternative construction technologies, alternative project layout and design, alternative locations, local land use regulations, and existing infrastructure. For utility crossings, include both alternative routes and alternative construction methodologies considered. A complete application for VWP General Permit Coverage includes discussion of on-site alternatives; for VWP Individual Permits, discussion of on-site and off-site alternatives. Refer to the applicable VWP Complete Application Checklist for more information.

6.d. What is the approximate cost of the entire project, including materials and labor?

6.e. What is the approximate cost of only the portion of the project affecting state waters (channelward of mean low water in tidal areas and below ordinary high water mark in nontidal areas)?

6.h. Has any work in state waters commenced (Y/N)? If yes, give details stating when the work was completed and/or when it commenced, who performed the work, and which agency (if any) directed you to submit this application. Clearly differentiate between completed work and proposed work on your project drawings.

6.i. **For VWP WP 1 general permit only:** Upload to the RRS portal a copy of the FEMA flood insurance rate map or FEMA-approved local floodplain map showing 100-year floodplain(s)

7. STATE LISTED THREATENED AND ENDANGERED SPECIES

Upload a narrative in response to these questions or items, numbering each response as shown in this section.

7.a. Please provide any information concerning the potential for your project to impact state threatened and endangered species and critical habitat (listed or proposed).

7.b. Include information when applicable regarding the location of the project in designated or critical habitats. Upload correspondence from agencies and/or reference materials that address potential impacts, such as database search results or confirmed waters and wetlands delineation/jurisdictional determination.

Contact information:

[U.S. Fish and Wildlife Service](#)

[Virginia Department of Wildlife Resources](#)

[Virginia Department of Conservation and Recreation-Natural Heritage](#)

8. STATE SURFACE WATERS IMPACT INFORMATION

Upload a narrative in response to these questions or items, numbering each response as shown in this section.

"Surface water" means all state waters that are not groundwater as groundwater is defined in § 62.1-255 of the Code of Virginia.

Please refer to the VWP Complete Application Checklists for the informational items and/or refer to the lists below. Users may expand upon the federal impact inventory provided in RRS in order to incorporate all of DEQ's information requirements and upload tables or spreadsheets into RRS. The RRS questions or informational requirements may differ for federal jurisdiction impacts.

[Cowardin classifications](#) may be found in Section 3 of the *Federal Geographic Data Committee. 2013. Classification of wetlands and deepwater habitats of the United States. FGDC-STD-004-2013. Second Edition. Wetlands Subcommittee, Federal Geographic Data Committee and U.S. Fish and Wildlife Service, Washington, DC.*

Please ensure that the associated project drawings clearly depict the location and footprint of each numbered impact site. For dredging, mining, and excavating projects, also complete section A.9.

8.a. For each wetland impact site, provide the following information in tabular format:

- 1) Site number or identifier
- 2) Latitude and longitude
- 3) Describe the activity(ies) at the impact site. Select all that apply from the following:
Fill, Discharge, Excavation, Flooding, Dredging, Surface water withdrawal or diversion, Draining, Dumping, Mechanized clearing of trees, Other (describe)
- 4) Identify the impact as impact temporary or permanent
 - a) If permanent, also complete section A.11
 - b) If temporary, describe the restoration actions proposed to bring the impact area to original conditions
- 5) Identify the wetland impact as non-tidal or tidal
 - a) If non-tidal, identify if it is isolated
 - b) If tidal, identify all if it is vegetated or non-vegetated
- 6) Cowardin classification (i.e., emergent, scrub-shrub, or forested)
- 7) For each Cowardin classification provide the proposed individual impacts quantified in square feet to the nearest whole number, cumulatively summed in square feet, and then the sum converted to acres and rounded to two decimal places using commonly accepted arithmetic principles of rounding
- 8) If applicable, area of tree clearing (acres)
- 9) Verify if this site under a deed restriction, conservation easement, restrictive covenant, or other land use protective instrument (i.e., protected areas)
- 10) DEQ classification of impacted resource(s)
(<https://law.lis.virginia.gov/admincode/title9/agency25/chapter260/section50/>) Select from the following:
- 11) Class II-Tidal waters in Chesapeake Bay/tidal tributaries, Class III-Coastal/Piedmont Zone nontidal waters, Class IV-Mountainous Zone waters, Class V-Stockable trout waters, Class VI-Natural trout waters, Class VII-Swamp waters

8.b. For each stream impact site, provide the following information in tabular format:

- 1) Site number or identifier
- 2) Latitude and longitude
- 3) Describe the activity(ies) at the impact site. Select all that apply from the following: Fill, Discharge, Excavation, Flooding, Dredging, Surface water withdrawal or diversion, Draining, Dumping, Mechanized clearing of trees, Other (describe)
- 4) Identify the impact as impact temporary or permanent
 - a) If permanent, also complete section A.11
 - b) If temporary, describe the restoration actions proposed to bring the impact area to original conditions
- 5) Identify the stream impact as non-tidal or tidal
- 6) Identify the stream as perennial or intermittent

- 7) Impact area quantified as follows:
 - a) by length in linear feet to the nearest whole number and by average width in feet to the nearest whole number
 - b) in square feet to the nearest whole number; and
 - c) when compensatory mitigation is required, the impacts identified according to the assessed type using the [Unified Stream Methodology \(USM\)](#)
 - 8) If applicable, area of tree clearing (acres)
 - 9) Verify if this site under a deed restriction, conservation easement, restrictive covenant, or other land use protective instrument (i.e., protected areas)
 - 10) DEQ classification of impacted resource(s)
(<https://law.lis.virginia.gov/admincode/title9/agency25/chapter260/section50/>) Select from the following:
 - 11) Class II-Tidal waters in Chesapeake Bay/tidal tributaries, Class III-Coastal/Piedmont Zone nontidal waters, Class IV-Mountainous Zone waters, Class V-Stockable trout waters, Class VI-Natural trout waters, Class VII-Swamp waters
- 8.c. For each open water impact site, provide the following information in tabular format:
- 1) Site number or identifier
 - 2) Latitude and longitude
 - 3) Describe the activity(ies) at the impact site. Select all that apply from the following: Fill, Discharge, Excavation, Flooding, Dredging, Surface water withdrawal or diversion, Draining, Dumping, Mechanized clearing of trees, Other (describe)
 - 4) Identify the impact as impact temporary or permanent
 - a) If permanent, also complete section A.11
 - b) If temporary, describe the restoration actions proposed to bring the impact area to original conditions
 - 5) Identify the open water impact as non-tidal or tidal
 - 6) Cowardin classification
 - 7) For each Cowardin classification provide the individual impacts quantified in square feet to the nearest whole number, cumulatively summed in square feet, and then the sum converted to acres and rounded to two decimal places using commonly accepted arithmetic principles of rounding
 - 8) If applicable, area of tree clearing (acres)
 - 9) Verify if this site under a deed restriction, conservation easement, restrictive covenant, or other land use protective instrument (i.e., protected areas)
 - 10) DEQ classification of impacted resource(s)
(<https://law.lis.virginia.gov/admincode/title9/agency25/chapter260/section50/>) Select from the following:
 - 11) Class II-Tidal waters in Chesapeake Bay/tidal tributaries, Class III-Coastal/Piedmont Zone nontidal waters, Class IV-Mountainous Zone waters, Class V-Stockable trout waters, Class VI-Natural trout waters, Class VII-Swamp waters

9. DREDGING, MINING, AND EXCAVATING

Please refer to the VWP Complete Application Checklists for the informational items and/or refer to the list below. The RRS requests information on activities involving dredging in *navigable Waters of the United States (WOTUS)*. Users may expand upon the federal impact inventory provided in RRS in order to incorporate all of DEQ's information requirements and upload tables or spreadsheets into RRS. The RRS questions or informational requirements may differ for federal jurisdiction impacts.

Note: VWP Individual Permits, and VWP WP3 and WP4 general permit dredging activities: Verification that the dredge material is free from toxic material may be required upon request by the DEQ. Verification may include evidence or certification that the material is free from toxic contaminants prior to disposal or that the dredging activity will not cause or contribute to a violation of water quality standards during dredging (e.g., grain size and composition analyses, tests for specific parameters or chemical constituents, or elutriate tests on the dredge material).

9.a. Provide dredging or excavation volume (cu yds) and area (sq ft) measurements and include the associated impact resource type(s) (vegetated wetlands, non-vegetated wetlands, subaqueous land, stream bed).

NA

9.b. For all activities, provide the contributing drainage area in square miles and the average stream flow at site (flow rate under normal rainfall conditions) in cubic feet per second.

<5 sq. miles

9.c. If this is a maintenance dredging project, provide the original DEQ or VMRC permit number(s) and upload a copy of the original permit.

NA

9.d. Upload documentation (e.g., laboratory results or analytical reports) that *dredged* material from on-site areas is free of toxics. If not free of toxics, provide documentation of proper disposal, such as a bill of lading from commercial supplier or disposal site.

9.e. If on-site dewatering is proposed, please upload plan view and cross-sectional drawings of the dewatering area and associated outfall.

9.f. Will the dredged material be used for any commercial purpose or beneficial use? ☐ Yes ☐ No. If yes, please explain.

NA

9.g. For mining projects: Upload to the RRS portal a description or explanation of the operation plans, including:

1) the frequency (e.g., every six weeks), duration (i.e., April through September), and volume (in cubic yards) to be removed per operation;

2) the temporary storage and handling methods of mined material, including the dimensions of the containment berm used for upland disposal of dredged material and the need (or no need) for a liner or impermeable material to prevent the leaching of any identified contaminants into ground water;

3) how equipment will access the mine site; and

4) verification that dredging:

a) will not occur in water body segments that are currently on the effective Section 303(d) Total Maximum Daily Load (TMDL) priority list (available at: <https://www.deq.virginia.gov/our-programs/water/water-quality/tmdl-development>) or that have an approved TMDL;

b) will not exacerbate any impairment; and

c) will be consistent with any waste load allocation/limit/conditions imposed by an approved TMDL (see spatial files at <https://geohub-vadeq.hub.arcgis.com/> to determine the extent of TMDL watersheds and impairment segments).

9.h. Have you applied for a permit from the [Virginia Department of Energy](#)? ☐ Yes ☐ No. If yes, provide the existing permit number and date of issuance.

NA

9.i. Examples of excavation include boat ramps and stormwater pond excavation. If excavation is associated with boat ramps, also complete section B.2. If excavation is associated with stormwater management ponds, also complete section B.7.

1) Depth of excavation (from ground surface) in feet:

NA

2) Depth of water table (below ground surface) in feet:

NA

3) Normal pool elevation in feet above mean sea level:

NA

4) If wetlands occur adjacent to the feature being excavated:

a) Provide the wetland elevation in feet above mean sea level

b) Provide the measures were used to prevent drainage effect on wetlands

5) Are outfalls being installed or used in wetlands or streams? ☐ Yes ☒ No.

10. WATERS DELINEATION

10.a. Was a USACE Approved Jurisdictional Determination (AJD) or Preliminary Jurisdictional Determination (PJD) uploaded to the RRS portal? ☐ Yes ☒ No.

10.b. If a DEQ State Surface Waters Determination (SSWD) is available, upload a copy to the RRS portal. *If an AJD is being submitted as part of the application, it only confirms WOTUS boundaries. A SSWD will also be necessary to delineate state waters outside of federal jurisdiction (non-WOTUS).*

10.c. If an AJD with SSWD or a PJD is not available, upload to the RRS portal other correspondence indicating approval of the boundary(ies) of applicable state and federal jurisdictional surface waters from USACE, USDA-NRCS, or DEQ, including wetland delineation data sheets, if applicable.

10.d. Provide a Delineation / Impact map showing:

- 1) Geographic area of all delineated surface water boundaries (GIS shapefiles are acceptable);
- 2) Wetlands, stream, and open water impacts, as applicable, described per section A.8 above; and
- 3) Any other surface waters described with Cowardin classification or similar terminology.

Note: See [DEQ Memorandum](#) *Recent Supreme Court Decision Sackett v. Environmental Protection Agency (EPA) - Effect in Virginia and How to Move Forward Without Economic Dislocation*, June 29, 2023, for more information about obtaining boundary and feature verifications in VA.

11. COMPENSATORY MITIGATION

Refer to DEQ's Complete Application Checklists for VWP General Permit Coverage or VWP Individual Permits at <https://www.deq.virginia.gov/permits/water/wetlands-streams-vwp> and the complete application requirements in the following Virginia Administrative Code sections, as applicable to the type of VWP permit being applied for:

[9VAC25-210](#)

[9VAC25-660](#)

[9VAC25-670](#)

[9VAC25-680](#)

[9VAC25-690](#)

Users may expand upon the federal compensatory mitigation information or plan provided in RRS in order to incorporate all of DEQ's information requirements and upload this along with supporting documentation into RRS. The RRS questions or informational requirements may differ for compensatory mitigation of federal jurisdiction impacts.

DEQ typically requires compensatory mitigation for permanent and conversion wetland impacts greater than 1/10 of an acre and for permanent stream bed impacts greater than 300 linear feet. There are instances when mitigation is not required.

If credits are being purchased, include documentation from the approved bank or in-lieu fee program sponsor of the availability of credits at the time of application.

12. STATE PROGRAMMATIC GENERAL PERMITS

Upload a narrative in response to these questions or items, numbering each response as shown in this section; or indicate that this application is not intended for 22-SPGP verification.

If applying for the USACE-Norfolk District 22-SPGP-RCIR or 22-SPGP-LT, review this section and provide any information not already provided elsewhere in the RRS portal. Also refer to the DEQ SPGP Complete Application Checklist at <https://www.deq.virginia.gov/permits/water/wetlands-streams-vwp>.

12.a. Pre-application information:

- 1) In order for the SPGP application process to be initiated, the following information must be obtained *prior to application*:
 - a) A valid Preliminary Screening Form (PSF), OR
 - b) A Preliminary Jurisdictional Determination (PJD) from the USACE, OR
 - c) An Approved Jurisdictional Determination (AJD) from the USACE

Note: A State Surface Waters Determination (SSWD), provided by DEQ to an applicant, may be relied upon for DEQ permitting purposes. The USACE and other state or federal agencies may or may not accept the SSWD for their permitting purposes. See [DEQ Memorandum Recent Supreme Court Decision Sackett v. Environmental Protection Agency \(EPA\) - Effect in Virginia and How to Move Forward Without Economic Dislocation](#) (June 29, 2023; Chapter 1 References), for more information about obtaining boundary and feature verifications in VA.

- 2) A development plan that accurately accounts for all impacts to Waters of the United States (WOTUS), including secondary impacts, and that is acceptable by the USACE for permitting (includes all types of impacts, to WOTUS such as fill, dredging, temporary, permanent, etc.)
- 3) An accounting of all types of impacts (e.g., fill, dredging, temporary, permanent, etc.) to WOTUS.

12.b. The complete SPGP application includes, at a minimum:

- 1) *The pre-application information listed above in section A.12.a.*
- 2) A complete and signed Standard [Joint Permit Application \(JPA\)](#) clearly marked with "22-SPGP-RCIR" or "22-SPGP-LT". The applicant must utilize the most recent JPA version.
- 3) A compensatory mitigation plan *applicable to the SPGP verification being sought*. Verify that any bank credits proposed are not outside of the General Service Area (GSA) of the approved mitigation bank. Also, USACE approval is required if permittee-responsible mitigation (PRM) is proposed, or if mitigation proposals do not follow the hierarchy in the Federal Mitigation Rule.
 - a) Mitigation will generally be required for all projects where the permanent loss exceeds 0.1 acre of wetlands and/or 0.03 acre of stream bed and/or 300 linear feet of stream bed. Stream channel loss must be reported in acreage and linear feet.
 - b) For linear transportation project, mitigation will generally be required for all permanent loss of wetlands and/or 0.03 acre of stream bed or 300 linear feet of stream bed. Stream channel loss must be reported in acreage and linear feet.

13. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR CERTIFICATIONS

READ THE FOLLOWING CAREFULLY BEFORE SIGNING.

Complete and sign the certifications tables below. If more space is needed, copy the signature blocks to a separate file for uploading with this application. Also sign and upload the Virginia Water Protection Permit Program Property Access Agreement - Standard in Appendix B.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information

submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Legal Name(s) of Applicant Google LLC c/o Mr. Zach Miller	Legal Name(s) of Second Applicant, if applicable
Title Area Manager	Title
Signature 	Signature
Date 1/22/2026	Date
Legal Name of Property Owner, if different	Legal Name of Second Property Owner, if applicable
Property Owner Signature	Second Property Owner Signature
Date	Date

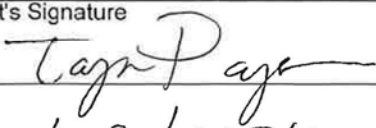
"I (we), [print APPLICANT LEGAL NAME(S)],

Google LLC c/o Mr. Zach Miller

hereby certify that I (we) have authorized [print AGENT LEGAL NAME(S)]

Timmons Group c/o Ms. Taryn Payne

to act on my (our) behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. I (we) hereby certify that the information submitted in this application is true and accurate to the best of my (our) knowledge."

Applicant's Signature 	Second Applicant's Signature, if applicable
Date 1/22/2026	Date
Agent's Title Project Manager	Second Agent's Title
Agent's Signature 	Second Agent's Signature
Date 1/23/2026	Date

APPENDIX A

Chesapeake Bay Preservation Act Information

Please answer the following questions to determine if your project is subject to the requirements of the Bay Act Regulations:

1. Is your project located within Tidewater Virginia? ☒ Yes ☐ No.
(<https://www.deq.virginia.gov/our-programs/coastal-zone-management/about-czm/czm-boundaries>)

If "no", the Bay Act requirements do not apply. If "yes", then please continue to question #2, and note the Virginia Water Protection (VWP) complete permit application requirements regarding Chesapeake Bay Preservation Areas.
2. Please indicate if the project proposes to impact any of the following Resource Protection Area (RPA) features:
 - ☐ Tidal wetlands;
 - ☒ Nontidal wetlands connected by surface flow and contiguous to tidal wetlands or water bodies with perennial flow;
 - ☐ Tidal shores;
 - ☐ Other lands considered by the local government to meet the provisions of subsection A of 9VAC25-830-80 and to be necessary to protect the quality of state waters (contact the local government for specific information);
 - ☒ A buffer area not less than 100 feet in width located adjacent to and landward of the components listed above, and along both sides of any water body with perennial flow.

If the answer to question #1 was "yes" and any of the features listed under question #2 will be impacted, compliance with the Chesapeake Bay Preservation Area Designation and Management Regulations is required. **The Chesapeake Bay Preservation Area Designation and Management Regulations** are enforced through locally adopted ordinances based on the Chesapeake Bay Preservation Act (CBPA) program. Compliance with state and local CBPA requirements mandates the submission of a **Water Quality Impact Assessment (WQIA)** for the review and approval of the local government. Contact the appropriate local government office to determine if a WQIA is required for the proposed activity(ies).

The individual localities are responsible for enforcing the CBPA requirements, *not* DEQ. Therefore, local permits for land disturbance are not issued through this JPA process. If a VWP permit or coverage is issued, it ***does not constitute compliance with the CBPA regulations nor does it guarantee that the local government will grant approval for encroachments into the RPA that may result from this project.***

Notes for all projects in RPAs

Development, redevelopment, construction, land disturbance, or placement of fill within the RPA features listed above requires the approval of the locality and may require an exception or variance from the local Bay Act ordinance. Please contact the appropriate local government to determine the types of development or land uses that are permitted within RPAs.

Pursuant to 9VAC25-830-110, *on-site delineation of the RPA is required for all projects in CBPAs*. Because USGS maps are not always indicative of actual "in-field" conditions, they may not be used to determine the site-specific boundaries of the RPA.

Notes for shoreline erosion control projects in RPAs

Re-establishment of woody vegetation in the buffer will be required by the locality to mitigate for the removal or disturbance of buffer vegetation associated with your proposed project. Please contact the local government to determine the mitigation requirements for impacts to the 100-foot RPA buffer. Pursuant to 9VAC25-830-140.5.a(4) of the Virginia Administrative Code, shoreline erosion projects are a permitted modification to RPAs provided that the project is based on the "best technical advice" and complies with applicable permit conditions and meets the applicable criteria in 9VAC25-830-140.

APPENDIX B

Virginia Water Protection Permit Program Property-Access Agreement – Standard

[insert PROPERTY OWNER NAME(S) – must include ALL] ("Owner")

Google, LLC c/o Mr. Zach Miller

who own[s] the property located at

[insert ADDRESS and/or DEED BOOK INFORMATION and/or TAX PARCEL #] ("Property"),

7177051701

and [insert APPLICANT OR PERMITTEE NAME(S)] ("Applicant or Permittee"),

Google, LLC c/o Mr. Zach Miller

hereby authorizes the Department of Environmental Quality, its employees, agents, and contractors ("Authorized Parties") the right of entry to the Property to conduct inspections necessary to evaluate the application for and ensure compliance with [insert PERMIT NUMBER] ("VWP Permit").

TBD

For the purpose of this section, the time for inspection shall be deemed reasonable during regular business hours. Nothing contained herein shall make an inspection time unreasonable during an emergency. Inspections may include but are not limited to the following activities:

1. Enter upon the property, and have access to, inspect and copy any records that required as part of the VWP permit;
2. Inspect any facilities, operations, or practices (including monitoring and control equipment) regulated or required under the VWP permit; and
3. Sample or monitor any substance, parameter, or activity for the purpose of ensuring compliance with the VWP permit or as otherwise required by law.

The Owner and the Applicant or Permittee understands that access to the Property is a requirement pursuant to 9VAC25-210-90 and the VWP Permit. The DEQ may enforce the provisions of this agreement utilizing all applicable procedures and authorities under Va. Code §§ 62.1-44.15 and 10.1-1186. Complete the table(s) below:

[Include Title for owners who are not individual persons. If more than four signature blocks are applicable, copy the signature blocks to a separate document for upload that shows each individual owner listed on the property record.]

Property Owner Name (print) Google, LLC c/o Mr. Zach Miller	Applicant or Permittee Name (print) Google, LLC c/o Mr. Zach Miller
Property Owner Signature 	Applicant or Permittee Signature 
Title Area Manager <i>Authorized Signatory</i>	Title Area Manager <i>Authorized Signatory</i>
Date 1/22/26	Date 1/22/26

APPENDIX B
Waters Delineation Information



7053 Celebration Ave
Suite 300
Richmond, VA 23225

www.timmons.com
P 804.200.6500
E info@timmons.com

September 12, 2025

Julie Hamilton
U.S. Army Corps of Engineers
Richmond Field Office
9100 Arboretum Parkway
Suite 235
Richmond, VA 23236

**Re: Jurisdictional Wetlands and Waters
Delineation Package
Project Loch
(Approx. 351.3 acres)
Chesterfield County, VA**

Applicant: Aeris Investments LLC
c/o Carl Bivens
5500 New Albany Road
Columbus, OH 43054

Dear Ms. Hamilton,

Please find the enclosed Jurisdictional Wetlands and Waters Delineation Package. On behalf of Aeris Investments LLC, Timmons Group is submitting this package to you in order to obtain a preliminary jurisdictional determination for the delineation performed at the Project Loch site (Site). Timmons Group environmental personnel conducted a field delineation on August 27 through September 18, 2024 and an additional visit on September 3, 2025 to identify jurisdictional wetlands and/or waters within the project limits.

PROJECT DESCRIPTION

The Site is located west of World War II Veterans Memorial Highway (Rt. 288) off Watkins Center Parkway in Chesterfield County, Virginia ([Figure 1: Vicinity Map](#)). The Site can be accessed from Watkins Center Parkway, which separates the northern and southwestern sections of the project.

The project limits encompass approximately 351.3 acres and consists primarily of forest in various stages of early succession due to historic silvicultural activities. The Site is bound by Watkins Center Parkway, which turns into Otterdale Road, and Route 288 to the west, Tomahawk Creek and forested lands to the west, Norfolk Southern Railroad to the north, and forested land and residential properties to the south ([Figure 3: Environmental Inventory Map](#)).

SUPPLEMENTAL INFORMATION REVIEW

Timmons Group performed a review of supplemental resources associated with the project site. These resources include the following:

- U. S. Geological Survey (USGS) Topographic Map: Hallsboro, VA Quadrangle 2022
- U. S. Fish and Wildlife Service (USFWS), National Wetlands Inventory (NWI)
- Natural Resources Conservation Service (NRCS), Web Soil Survey (WSS)
- The U. S. Army Corps of Engineers (USACE) Antecedent Precipitation Tool (Version 1.0)
- Available aerial photography and Chesterfield County GIS Data

The USGS Hallsboro, VA quadrangle map shows elevation highs of approximately 370-400 feet above mean sea level (AMSL) in the northeastern corner of the site and topographic lows of approximately 230 feet AMSL in the southern point. As shown on the USGS Map, the project site drains to Tomahawk Creek, located within the James River Basin and the Appomattox watershed (HUC 02080207) in the Southern Piedmont physiographic province (Figure 2: Hydrologic Unit Code Map). The NWI map depicts palustrine forested (PFO1A, PFO1C, PFO1Eh), palustrine emergent (PEM1Cd), and riverine (R2UBH, R5UBH, R4SBC) features within the Site boundaries.

The NRCS soil survey indicates that the site is underlain primarily by sandy loams, some with clayey substratums. Two soil series considered hydric in Chesterfield County, Worsham fine sandy loam and Fluvaquents, are located onsite, associated with Tomahawk Creek and its unnamed tributaries. Please see [Table 1 – NRCS Soil Survey Summary](#) for the rest of the soils displayed on site.

Table 1- NRCS Soil Survey Summary

Soil Series	Hydric/ Non-Hydric
151C: Mayodan gravelly sandy loam, clayey substratum, 6-12 percent slopes	Non-Hydric
261B: Bounre-Coflax complex	Non-Hydric
151B: Mayodan gravelly sandy loam, clayey substratum, 2-6 percent slopes	Non-Hydric
49C: Bourne fine sandy loam	Non-Hydric
W: Water	Non-Hydric
151D: Mayodan gravelly sandy loam, clayey substratum, 12-20 percent slopes	Non-Hydric
165D: Pinkston gravelly sandy loam	Non-Hydric
108C: Turbeville gravelly fine sandy loam	Non-Hydric
59C: Mayodan fine sandy loam, clayey substratum, 6-12 percent slopes	Non-Hydric
6B: Worsham fine sandy loam	Hydric
107C: Turbeville fine sandy loam, 6-12 percent slopes	Non-Hydric
61C: Creedmoor fine sandy loam, 6-12 percent slopes	Non-Hydric
103B: Masada gravelly fine sandy loam, 2-6 percent slopes	Non-Hydric
244D: Edgehill very fine sandy loam, 12-20 percent slopes	Non-Hydric
61B: Creedmoor fine sandy loam, 2-6 percent slopes	Non-Hydric
59D: Mayodan sandy loam, clayey substratum, 12-20 percent slopes	Non-Hydric
59B: Mayodan sandy loam, clayey substratum, 2-6 percent slopes	Non-Hydric
251D: Mayodan-Creedmoor-Edgehill very gravelly sandy loams	Non-Hydric
1A: Fluvaquents	Hydric
123B: Creedmoor gravelly fine sandy loam, 2-6 percent slopes	Non-Hydric
103C: Masada gravelly fine sandy loam, 6-12 percent slopes	Non-Hydric
107B: Turbeville fine sandy loam, 2-6 percent slopes	Non-Hydric
123C: Creedmoor gravelly fine sandy loam, 6-12 percent slopes	Non-Hydric
251C: Mayodan-Creedmoor-Edgehill very gravelly	Non-Hydric

Per the Palmer Drought Severity Index, the site visit was conducted within the dry season during a period of "Mild Drought" (August 2024) and "Incipient Drought" (September 2024) (PDSI). The USACE Antecedent Precipitation Tool (Version 1.0) shows the Site within "Normal" to "Wetter than Normal" conditions during the time of investigation, with a precipitation normalcy index of 11 to 16 (Appendix A).

WETLAND DELINEATION METHODS

The Site was delineated based upon the methodology outlined in the 1987 U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual, the Regional Supplement to the USACE Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0), and subsequently issued USACE regulatory guidance regarding the identification of jurisdictional stream channels through the recognition of field indicators of an ordinary high-water mark within drainage features. The wetland boundary was flagged with consecutively numbered pink and black ribbon at approximately 50-foot intervals. Field data stations were established within close proximity to the flagged wetland boundary in order to document upland and wetland conditions along the jurisdictional boundary. Field data stations were labeled and marked with blue

flagging in the field. Field data sheets are included in [Appendix B](#). Features identified in the field were located using sub-meter GPS equipment. Photographs were taken at field data stations to depict site conditions along the delineation boundary and are also available in [Appendix B](#). Additional representative photos can be available upon request.

FINDINGS

A summary of the jurisdictional areas identified onsite is provided below in [Table 2-Jurisdictional Areas Summary](#):

Table 2- Jurisdictional Areas Summary

Resource Type	Confirmation						
	PFO	PEM	PUB	R2	R3	R4	R6
Total	566,970 sf 13.02 ac	105,718 sf 2.43 ac	1,196 sf 0.03 ac	2,390 lf 0.05 ac	5,942 lf 36,346 sf	6,067 lf 19,128 sf	563 lf 1,503 sf
PFO = Palustrine Forested Wetland; PSS = Palustrine Scrub-Shrub Wetland; PEM = Palustrine Emergent Wetland; POW = Palustrine Open Water; R2 = Lower Perennial Streams; R3 = Upper Perennial Streams; R4 = Intermittent Stream; R6 = Ephemeral Streams; sf = square feet; lf = linear feet; ac = acres							

Wetland delineation mapping was produced showing the location and size of jurisdictional areas identified onsite and is included as [Figure 4: Wetlands and Waters Delineation Map](#).

Primary hydrology indicators observed within jurisdictional areas included Surface Water (up to 1 inch; A1), High Water Table (up to surface; A2), Saturation (up to surface; A3), Sediment Deposits (B2), Drift Deposits (B3), Water-Stained Leaves (B9), and Oxidized Rhizospheres on Living Roots (C3). Secondary hydrology indicators observed included Drainage Patterns (B10), Dry-Season Water Table (up to 14 inches; C2), Crayfish Burrows (C8), Geomorphic Position (D2), and the FAC-Neutral Test (D5).

The soils observed within jurisdictional areas onsite exhibited low chroma matrix colors and concentrations characteristic of reducing anaerobic conditions associated with the formation of hydric soils. Soils within jurisdictional areas onsite typically met the Depleted Matrix (F3) and/or the Depleted Below Dark Surface (A11), Loamy Gleyed Matrix (F2), Redox Dark Surface (F6), or Redox Depressions (F8) hydric soils indicator.

A summary of the attached field data stations characterizing the wetlands is included below in [Table 3-Field Data Station Summary](#). A diverse vegetative community was observed within onsite wetlands. The following description primarily refers to areas along the jurisdictional boundary where field data stations were established. The dominant vegetation of these areas is listed below in [Table 4- Dominant Wetland Vegetation](#). Refer to [Appendix B](#) for more information.

Table 3- Field Data Station Summary

FDS	Hydrophytic Vegetation	Hydric Soils	Hydrology	Classification
42A2-1	Yes	Yes	Yes	PFO Wetland
42A2-2	No	No	No	Non-Wetland
42D1-1	Yes	Yes	Yes	PFO Wetland
42D1-2	No	No	No	Non-Wetland
42F3-1	Yes	Yes	Yes	PFO Wetland
42F3-2	Yes	No	No	Non-Wetland
42G3-1	Yes	Yes	Yes	PFO Wetland
42G3-2	No	No	No	Non-Wetland
42L2-1	Yes	Yes	Yes	PFO Wetland
42L2-2	Yes	No	No	Non-Wetland
42U1-1	No	No	No	Non-Wetland
42U1-2	No	No	No	Non-Wetland

42U2-1	Yes	No	No	Non-Wetland
42U2-2	Yes	No	No	Non-Wetland
42U2-3	Yes	No	No	Non-Wetland
42U3-1	Yes	No	No	Non-Wetland
42U4-1	Yes	No	No	Non-Wetland
44A2-1	Yes	Yes	Yes	PEM Wetland
44A2-2	No	No	No	Non-Wetland
44D1-1	Yes	Yes	Yes	PFO Wetland
44D1-2	Yes	No	No	Non-Wetland
44D3-1	Yes	Yes	Yes	PFO Wetland
44D3-2	Yes	No	No	Non-Wetland
44H2-1	Yes	Yes	Yes	PFO Wetland
44H2-2	Yes	No	No	Non-Wetland
44U1-1	No	No	No	Non-Wetland
44U1-2	Yes	No	No	Non-Wetland
44U1-3	No	No	No	Non-Wetland
44U2-1	Yes	No	No	Non-Wetland
44U2-2	Yes	No	No	Non-Wetland
44U3-1	Yes	No	No	Non-Wetland
44U3-2	Yes	No	Yes	Non-Wetland
44W3-1	Yes	Yes	Yes	PEM Wetland
44U6-1	Yes	No	No	Non-Wetland
44U6-2	Yes	No	No	Non-Wetland
56A2-2	No	No	No	Non-Wetland
56A3-1	Yes	Yes	Yes	PFO Wetland
56A3-2	No	No	No	Non-Wetland
56C1-1	Yes	Yes	Yes	PFO Wetland
56C1-2	No	No	No	Non-Wetland
56E3-1	Yes	Yes	Yes	PFO Wetland
56E3-2	Yes	No	No	Non-Wetland
56F1-1	Yes	Yes	Yes	PFO Wetland
56F1-2	No	No	No	Non-Wetland
56F3-1	Yes	Yes	Yes	PFO Wetland
56F3-2	Yes	No	Yes	Non-Wetland
56I1-1	Yes	Yes	Yes	PFO Wetland
56I1-2	No	No	Yes	Non-Wetland
56U1-1	Yes	No	Yes	Non-Wetland
56U3-1	No	Yes	No	Non-Wetland
56W2-1	Yes	Yes	Yes	PEM Wetland
58B2-1	Yes	Yes	Yes	PFO Wetland
58B2-2	Yes	No	No	Non-Wetland
58E2-1	Yes	Yes	Yes	PEM Wetland
58E2-2	Yes	No	No	Non-Wetland
58H1-1	Yes	Yes	Yes	PFO Wetland
58H1-2	Yes	No	No	Non-Wetland
58U1-1	No	No	No	Non-Wetland
58U1-2	No	No	No	Non-Wetland
58U1-3	Yes	No	No	Non-Wetland
58U2-1	Yes	No	No	Non-Wetland
58U2-2	Yes	No	No	Non-Wetland
58W2-1	Yes	Yes	Yes	PFO Wetland
60A4-1	Yes	Yes	Yes	PFO Wetland
60A4-2	Yes	No	No	Non-Wetland

60B1-1	Yes	Yes	Yes	PFO Wetland
60B1-2	No	No	Yes	Non-Wetland
60C3-1	Yes	Yes	Yes	PEM Wetland
60C3-2	Yes	No	Yes	Non-Wetland
60D3-1	Yes	Yes	Yes	PEM Wetland
60D3-2	No	No	No	Non-Wetland
60J2-1	Yes	Yes	Yes	PFO Wetland
60J2-2	No	No	No	Non-Wetland
60U1-1	No	No	No	Non-Wetland
60U2-1	No	No	Yes	Non-Wetland
60U3-1	Yes	No	No	Non-Wetland

Table 4- Dominant Wetland Vegetation

Tree Stratum		
<u>Common Name</u>	<u>Scientific Name</u>	<u>Wetland Indicator</u>
Sweetgum	<i>Liquidambar styraciflua</i>	FAC
White oak	<i>Quercus alba</i>	FACU
Red maple	<i>Acer rubrum</i>	FAC
Loblolly pine	<i>Pinus taeda</i>	FAC
Sapling/Shrub Stratum		
<u>Common Name</u>	<u>Scientific Name</u>	<u>Wetland Indicator</u>
Sweetgum	<i>Liquidambar styraciflua</i>	FAC
Loblolly pine	<i>Pinus taeda</i>	FAC
Red maple	<i>Acer rubrum</i>	FAC
Black highbush blueberry	<i>Vaccinium fuscum</i>	FAC
Arrow-wood	<i>Viburnum dentatum</i>	FAC
Herbaceous Stratum		
<u>Common Name</u>	<u>Scientific Name</u>	<u>Wetland Indicator</u>
Common rush	<i>Juncus effusus</i>	FACW
Japanese stiltgrass	<i>Microstegium vimineum</i>	FAC
Pennsylvania blackberry	<i>Rubus pensilvanicus</i>	FAC
Netted chain fern	<i>Woodwardia areolata</i>	FACW
Wrinkle-leaf goldenrod	<i>Solidago rugosa</i>	FAC
Woody Vine Stratum		
<u>Common Name</u>	<u>Scientific Name</u>	<u>Wetland Indicator</u>
Greenbrier	<i>Smilax rotundifolia</i>	FAC
Japanese honeysuckle	<i>Lonicera japonica</i>	FACU
Muscadine	<i>Vitis rotundifolia</i>	FAC
Trumpet-creeper	<i>Campsis radicans</i>	FAC

CLOSING REMARKS

We respectfully request written confirmation detailing the verified location of onsite wetlands and waters within the Project Loch site as presented in the provided mapping. Please contact Lindsey Freeman at (804) 200-6465 or lindsey.freeman@timmons.com if you would like to schedule a site visit or require any further documentation regarding the confirmation. Thank you in advance for your review of this package.

Sincerely,

Timmons Group



Alanna Burket, PWS, PWD
Environmental Scientist III



Lindsey Freeman, PWS, PWD
Environmental Scientist III

Enclosure

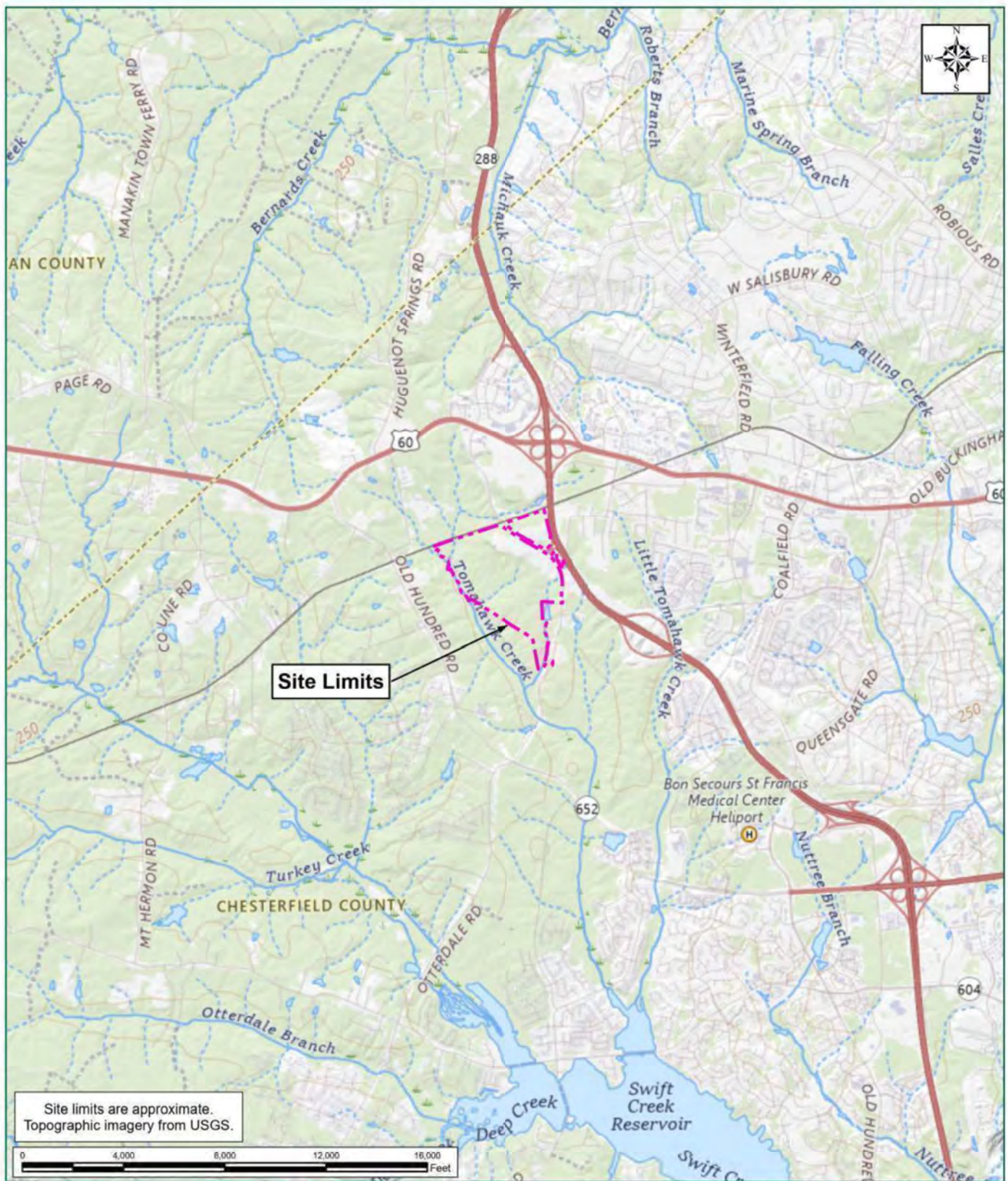
MAPS

- | | |
|----------|-------------------------------------|
| Figure 1 | Vicinity Map |
| Figure 2 | Hydrologic Unit Code Map |
| Figure 3 | Environmental Inventory Map |
| Figure 4 | Wetlands and Waters Delineation Map |

APPENDICES

- | | |
|------------|--|
| Appendix A | USACE Antecedent Precipitation Tool Data |
| Appendix B | Field Data Sheets and Photographs |
| Appendix C | USACE Request Forms |

MAPS



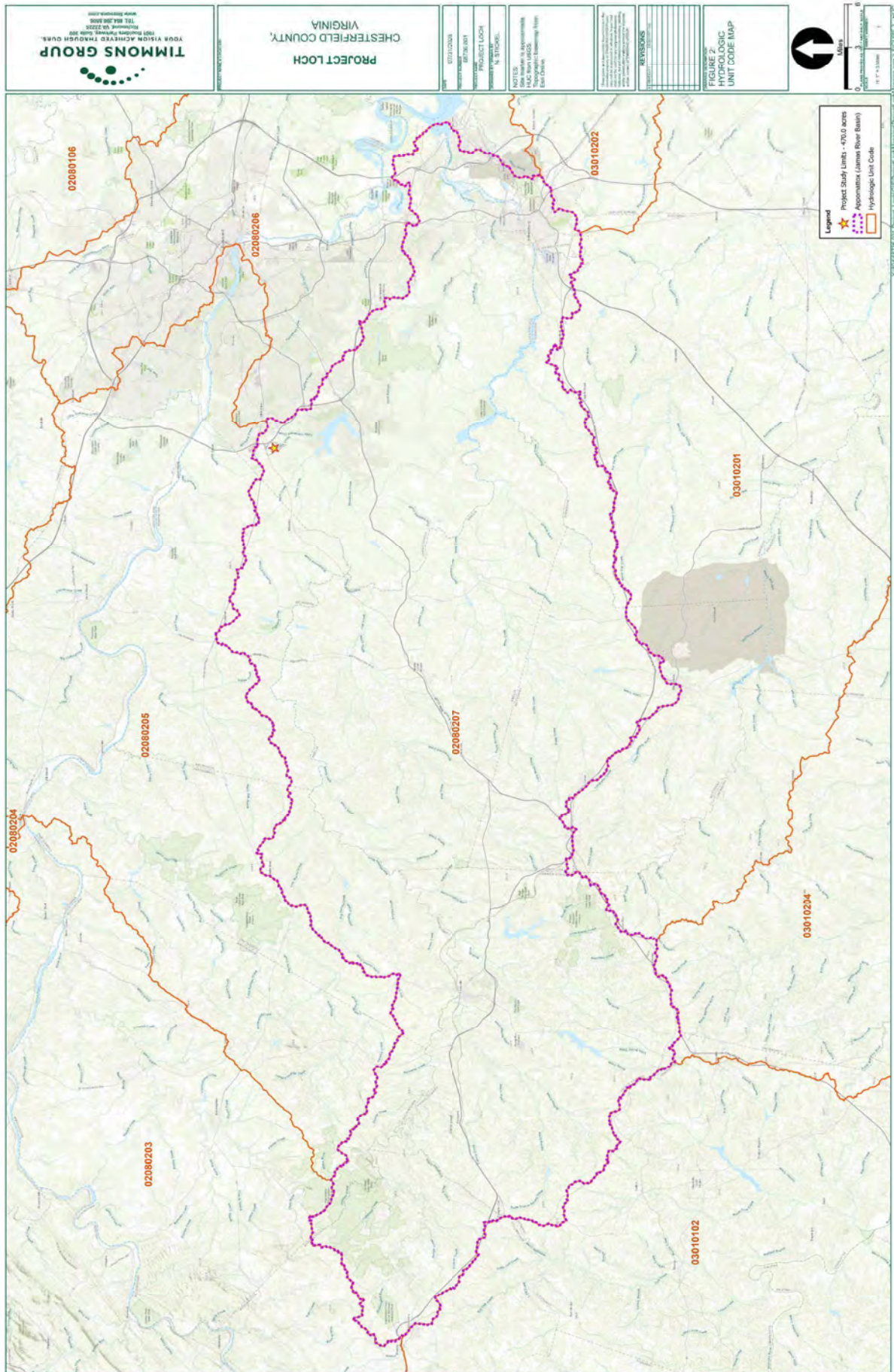
PROJECT LOCH
CHESTERFIELD COUNTY, VIRGINIA
FIGURE 1: VICINITY MAP

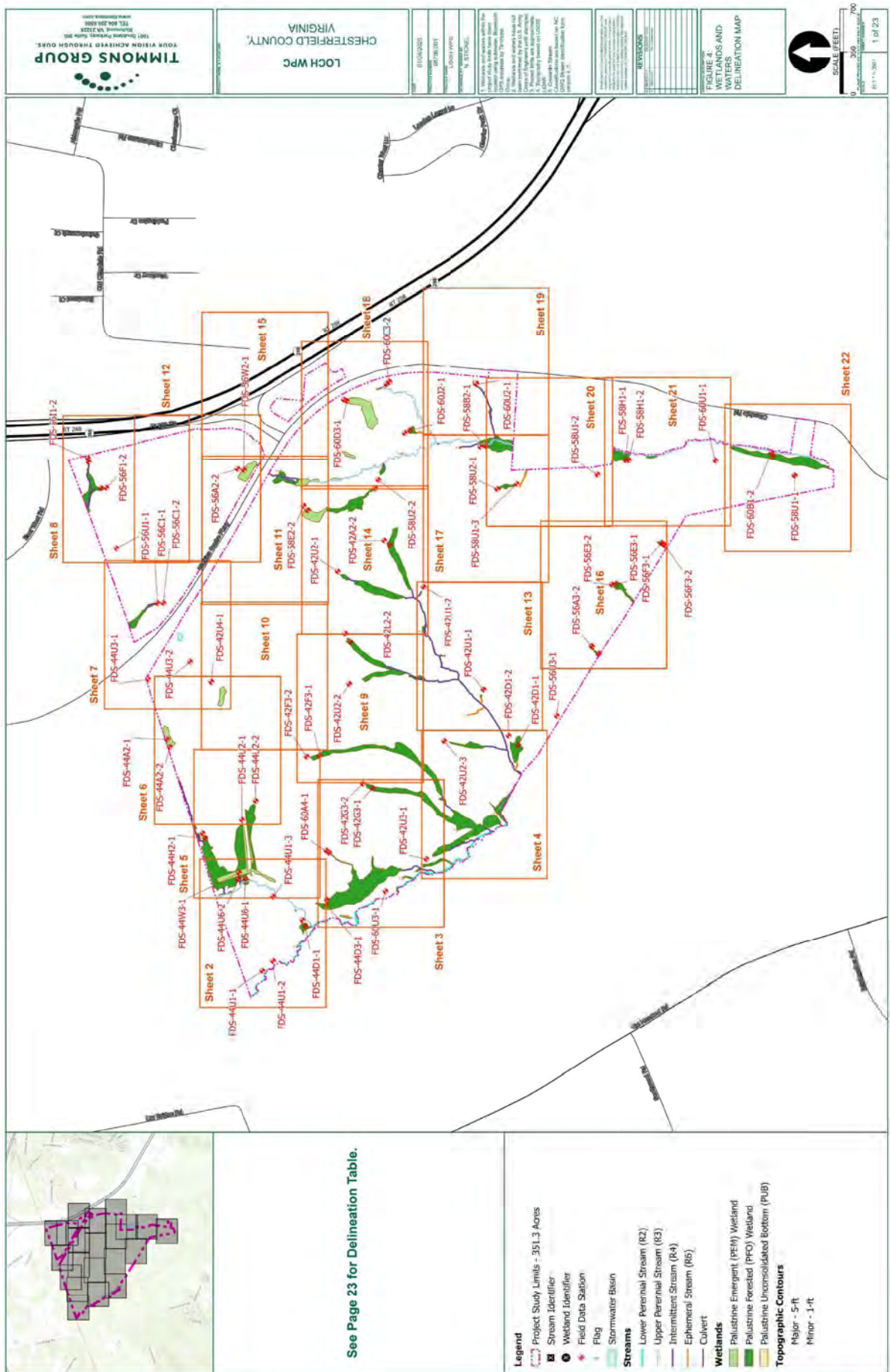
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LONGITUDE: -77.6926332

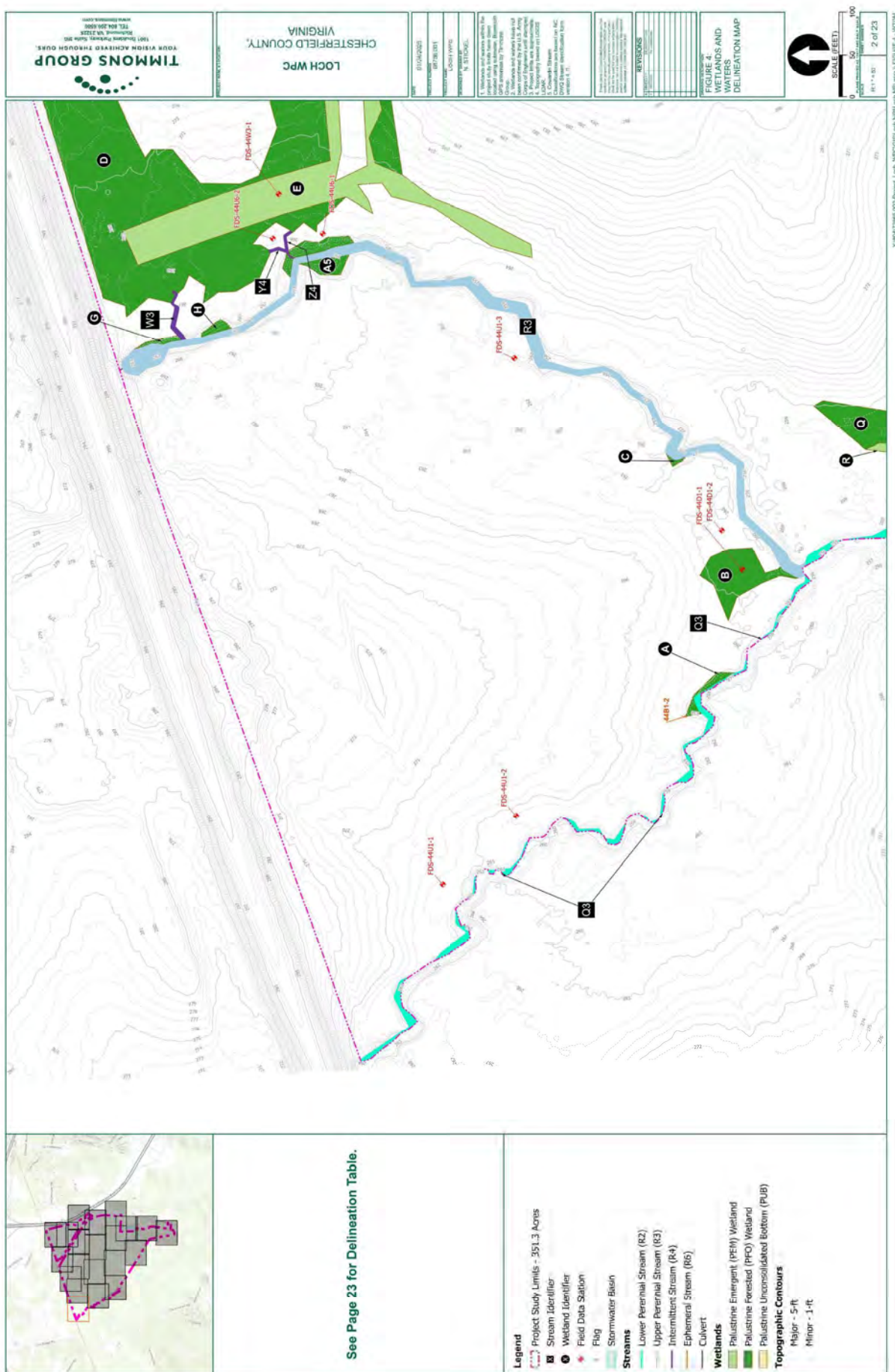
TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

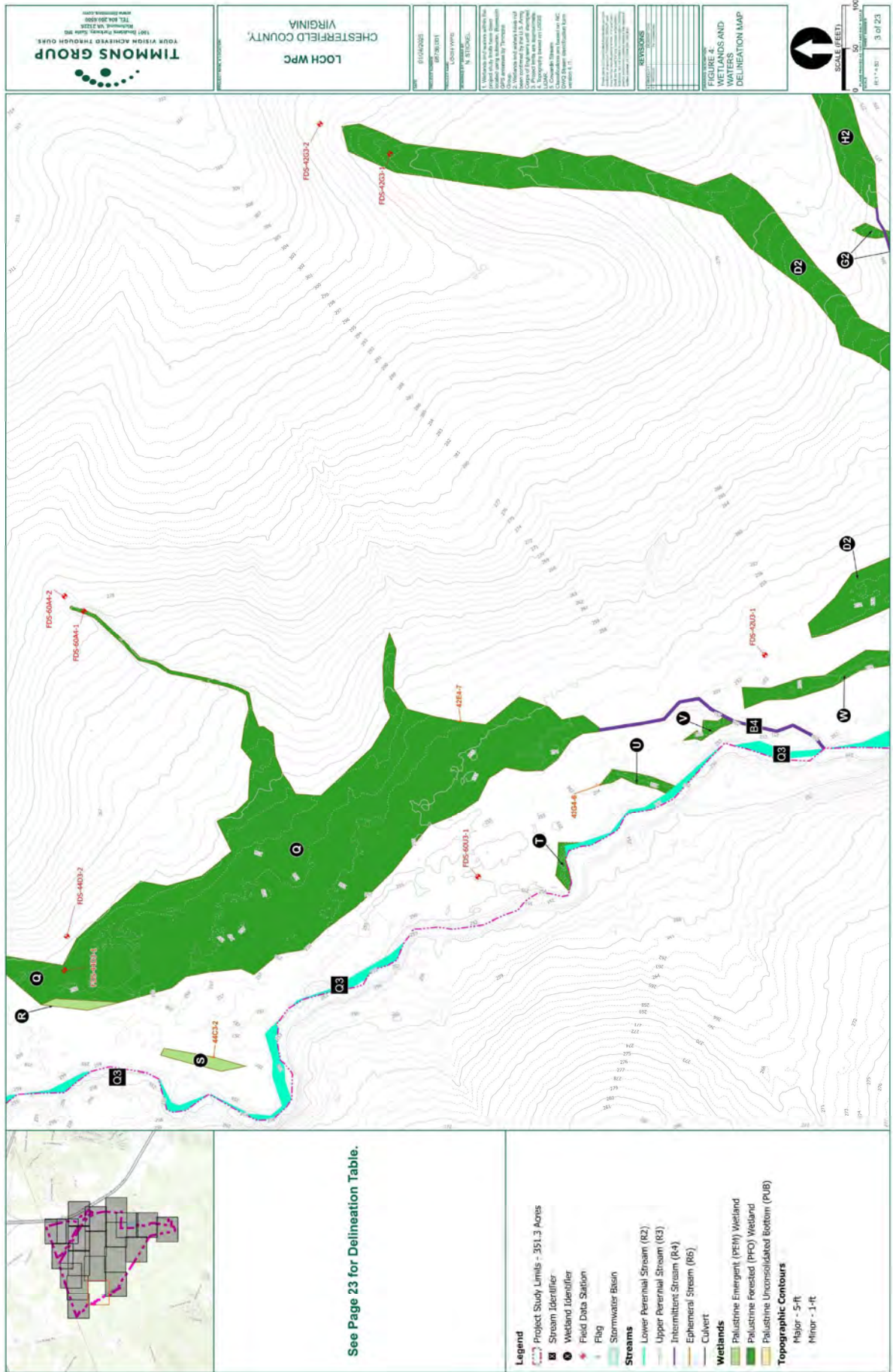
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DATE(S): 2022
WATERSHED(S): APPOMATTOX
HYDROLOGIC UNIT CODE(S): 02080207

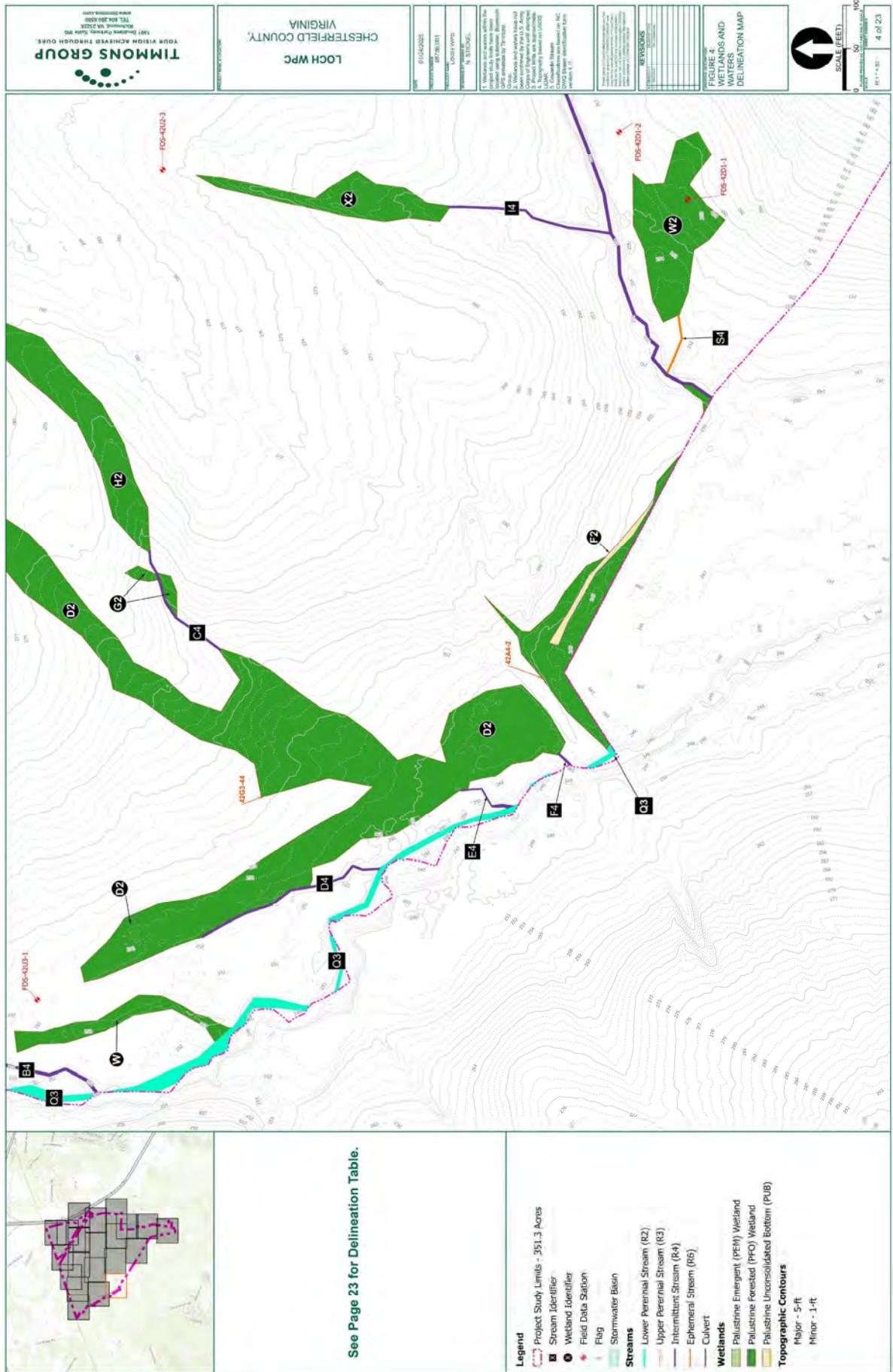
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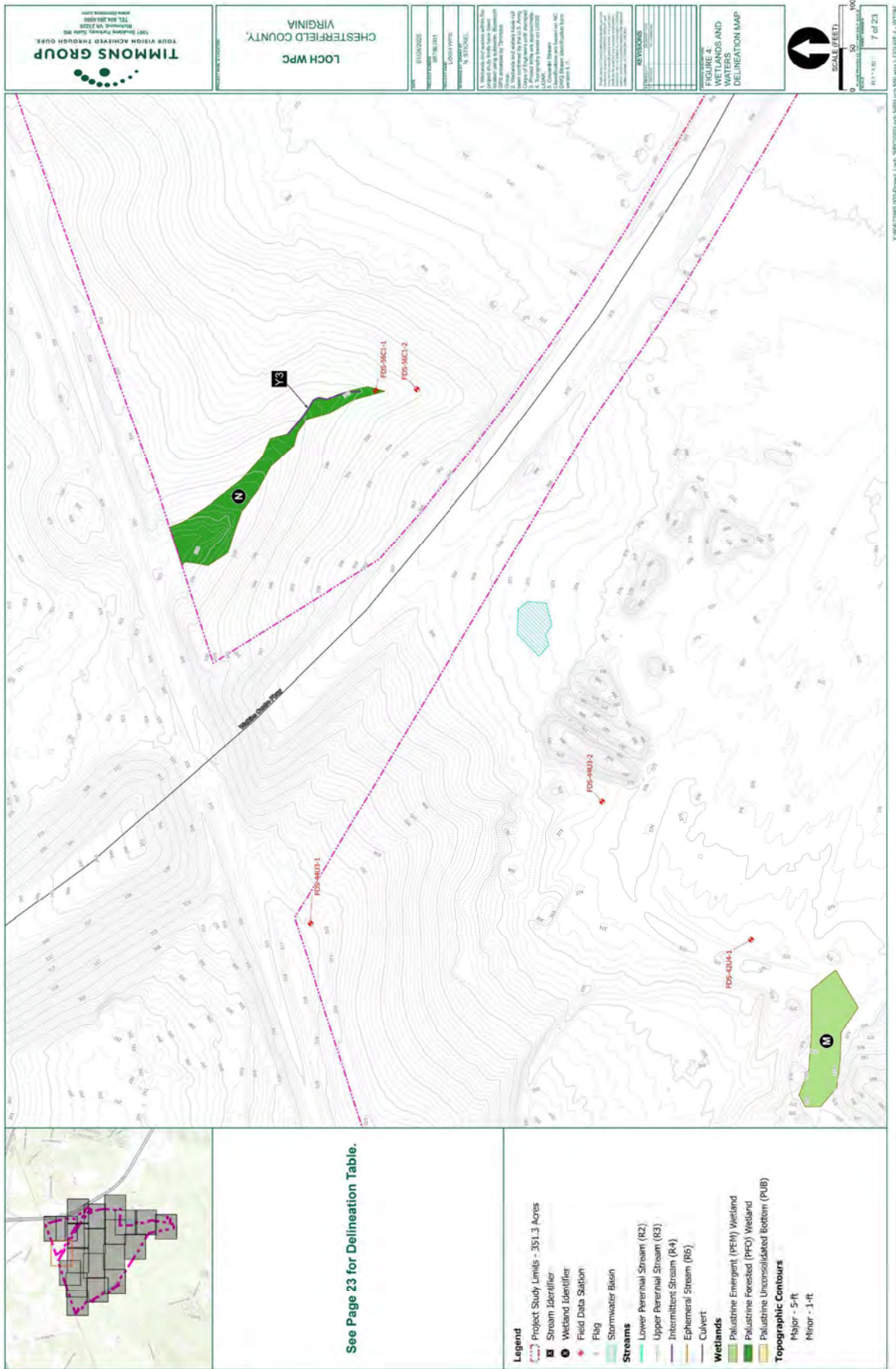




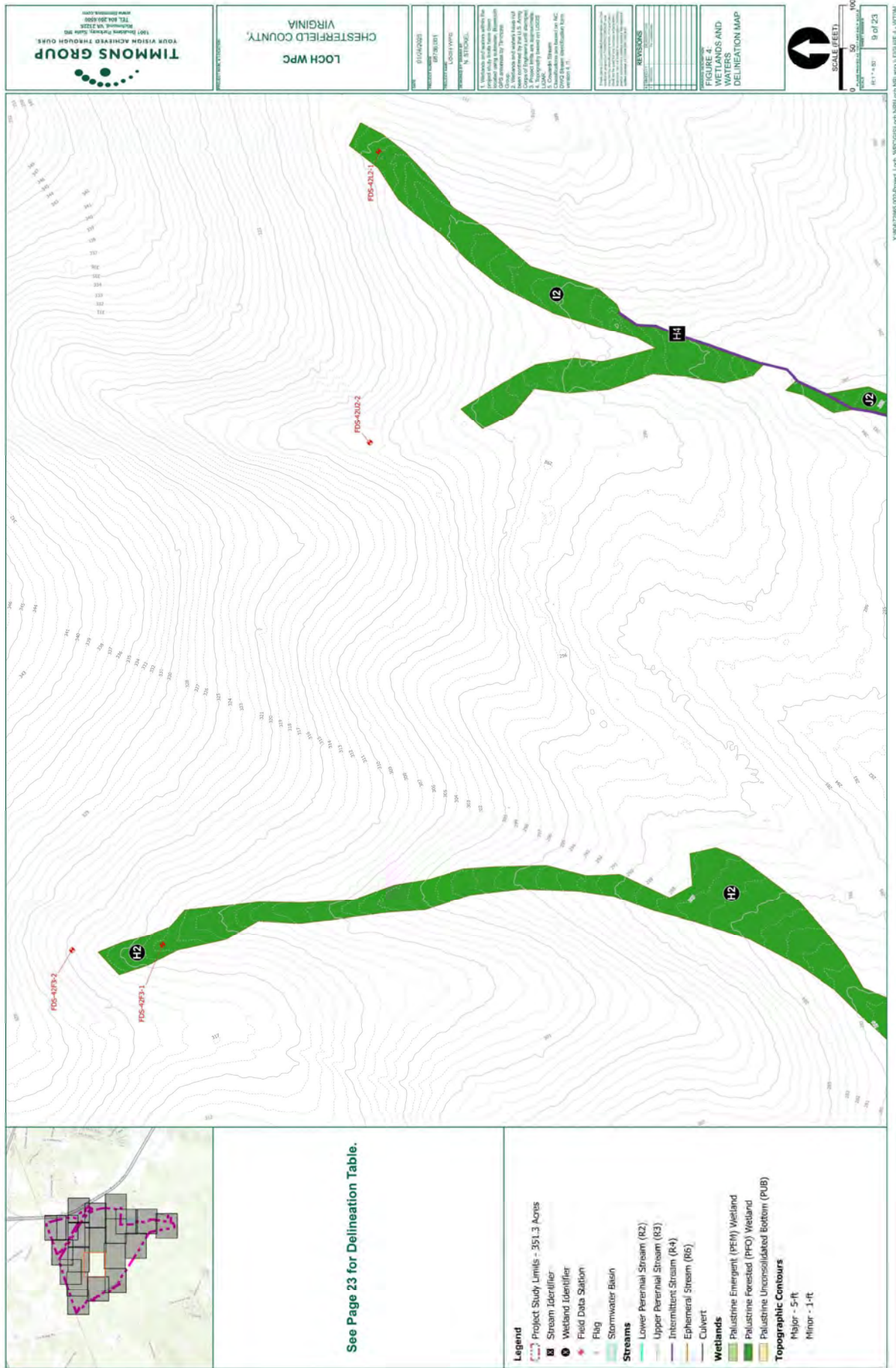


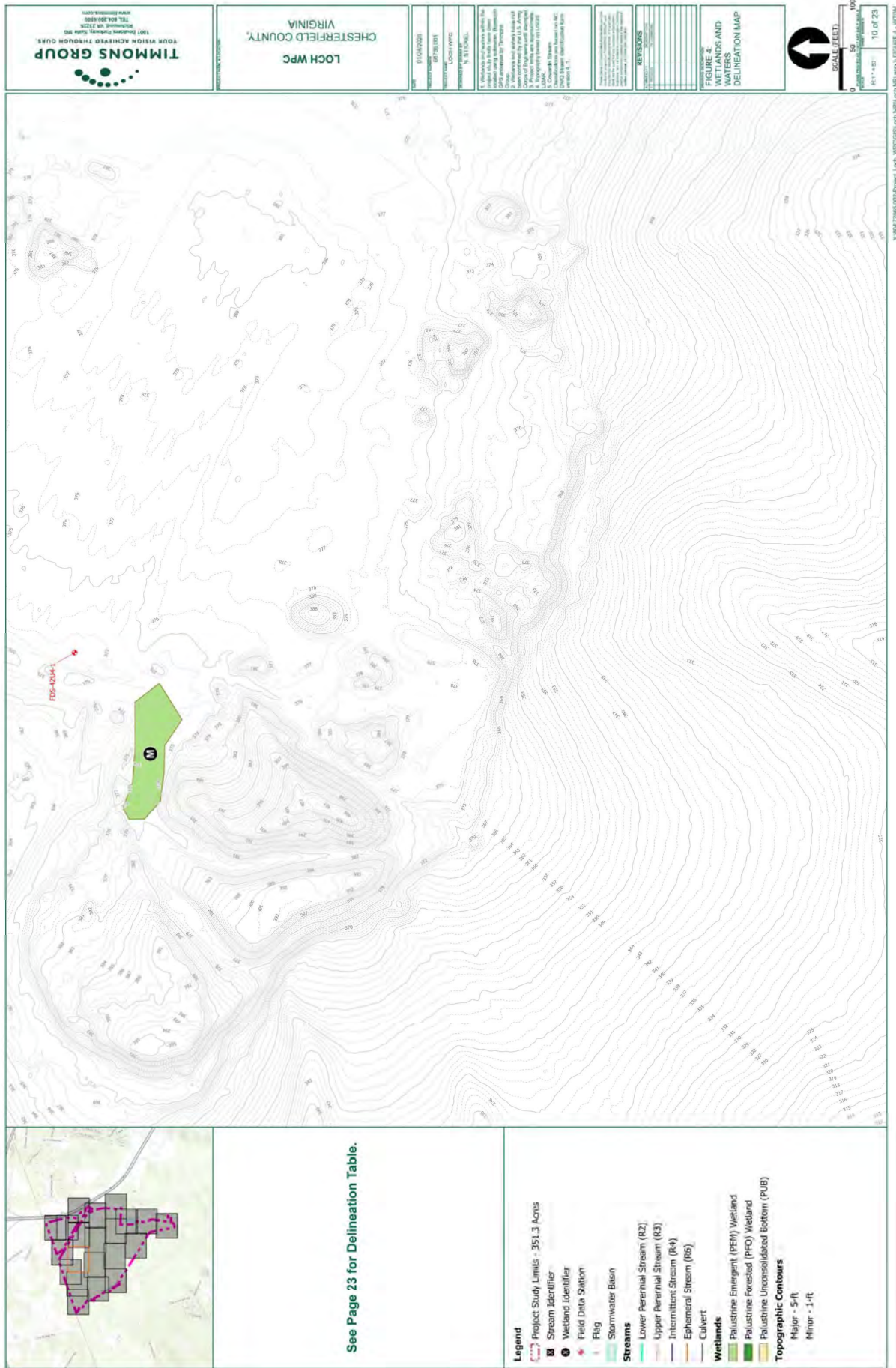


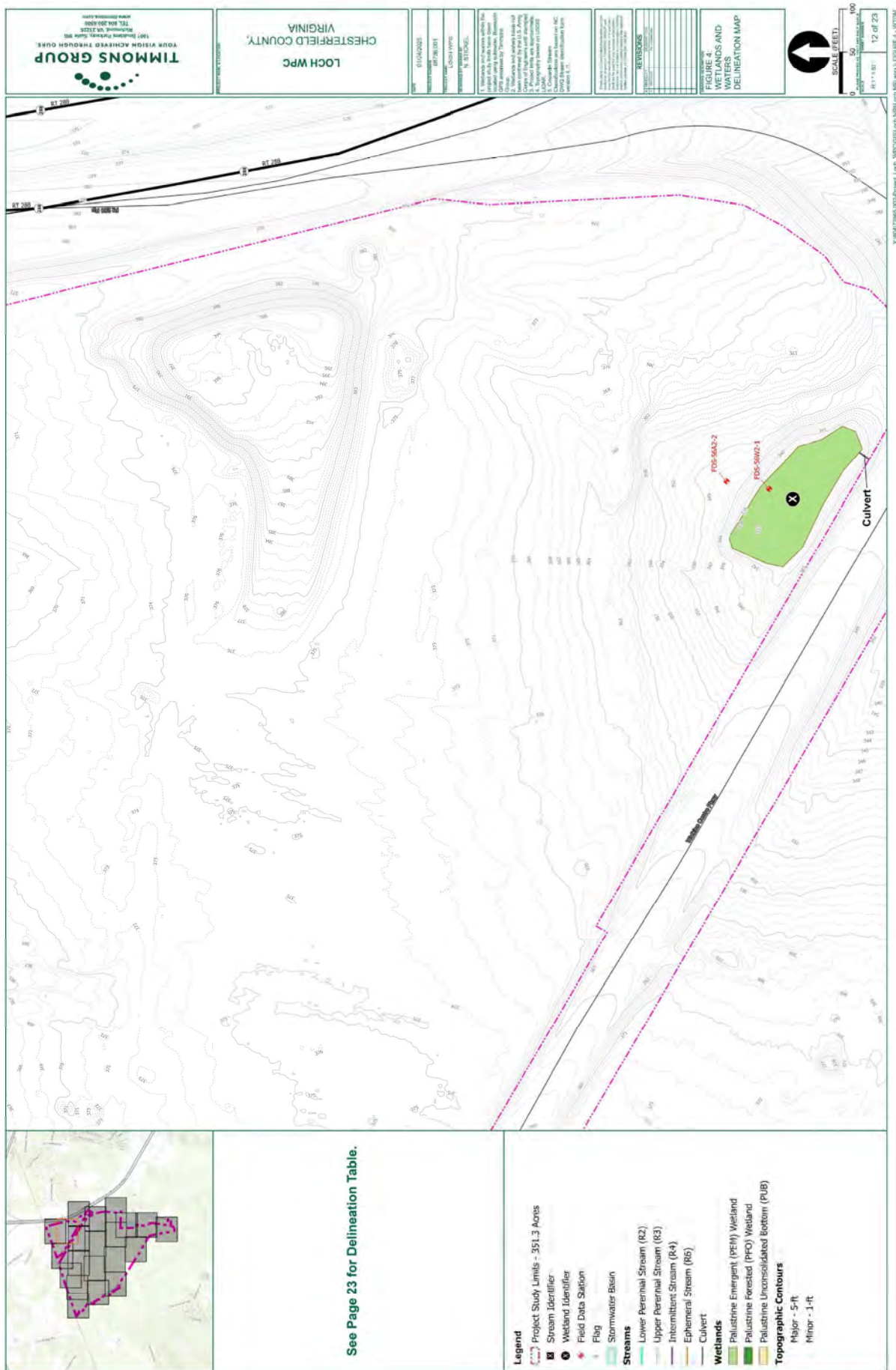


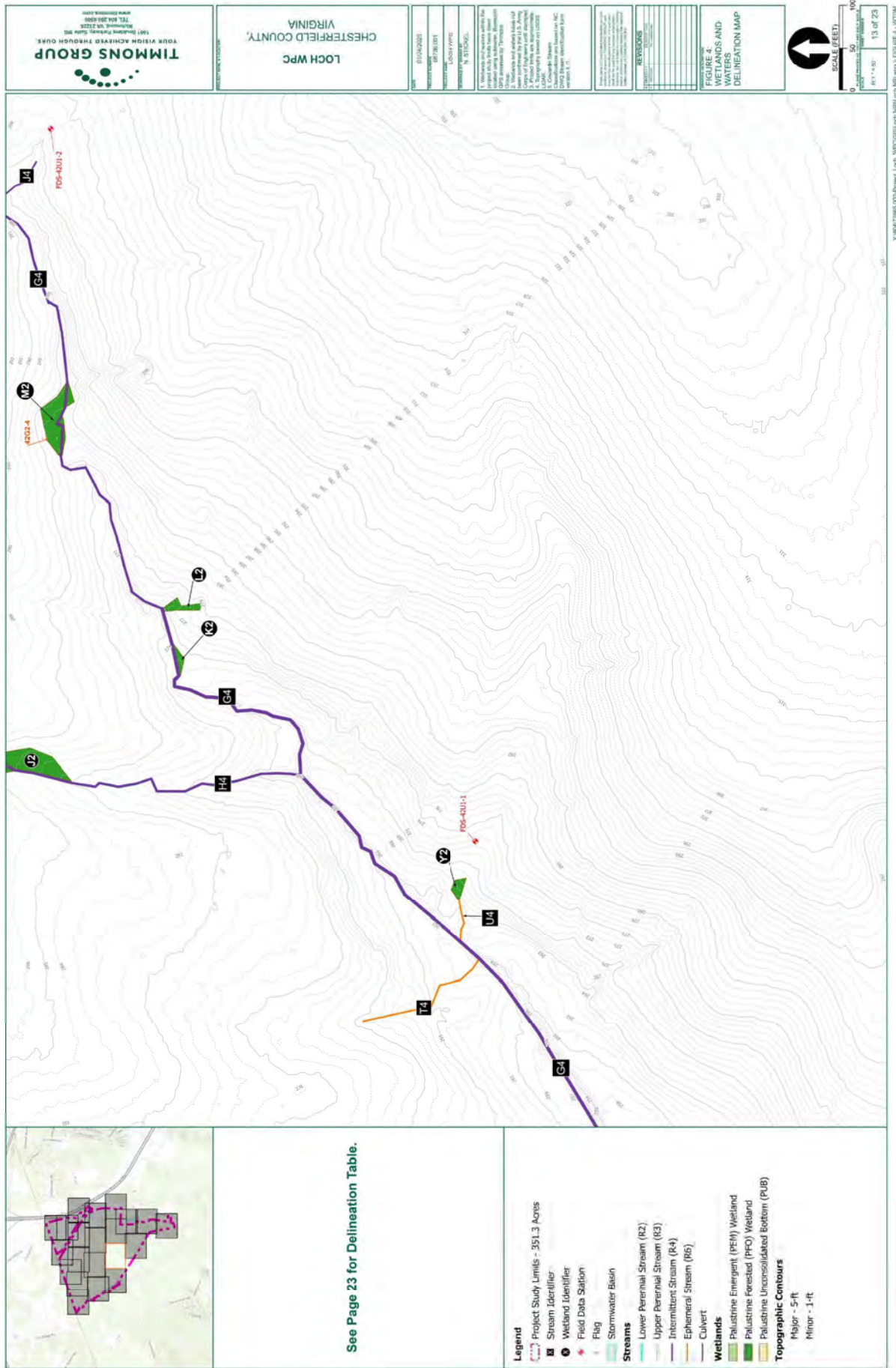


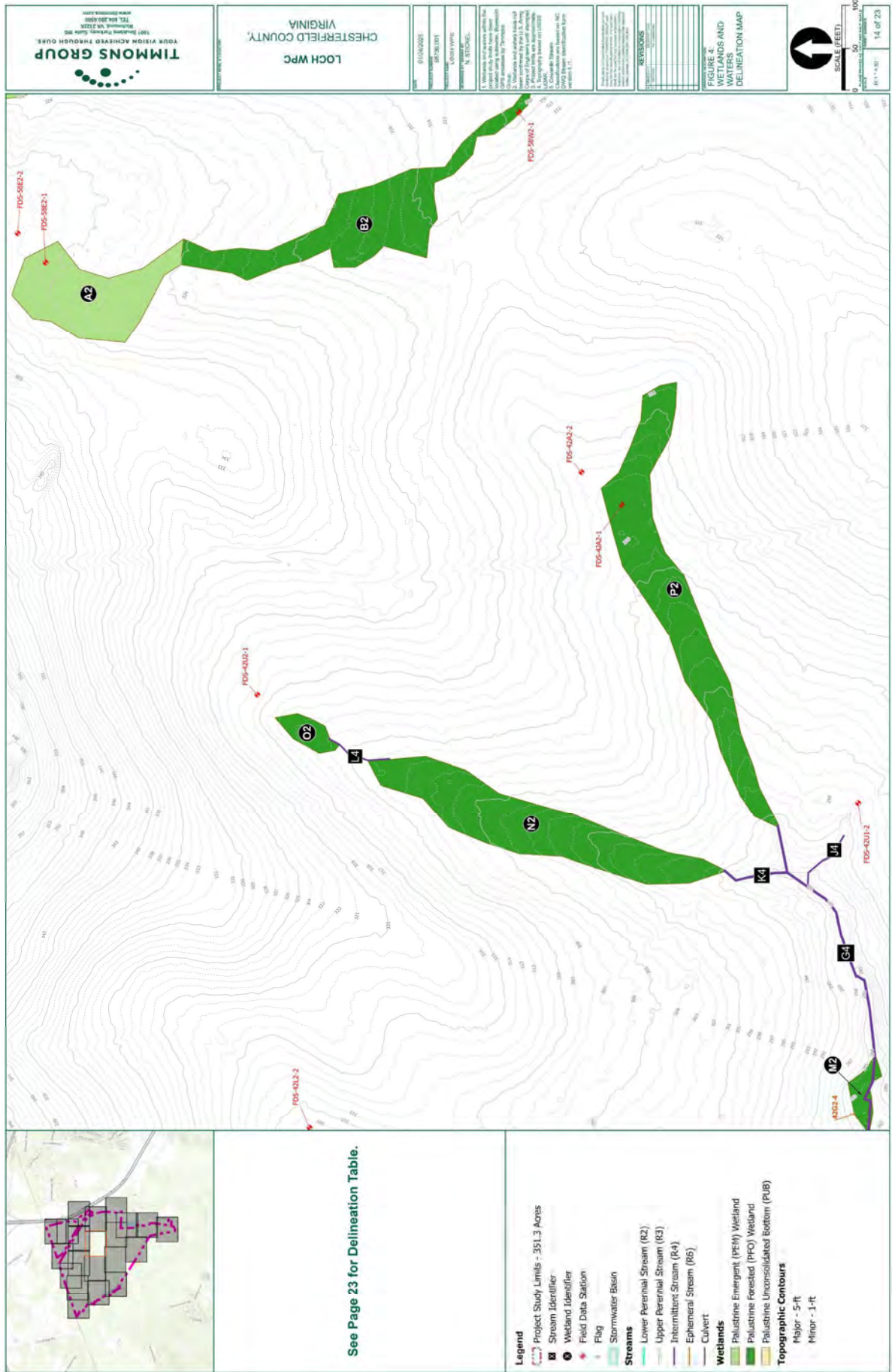






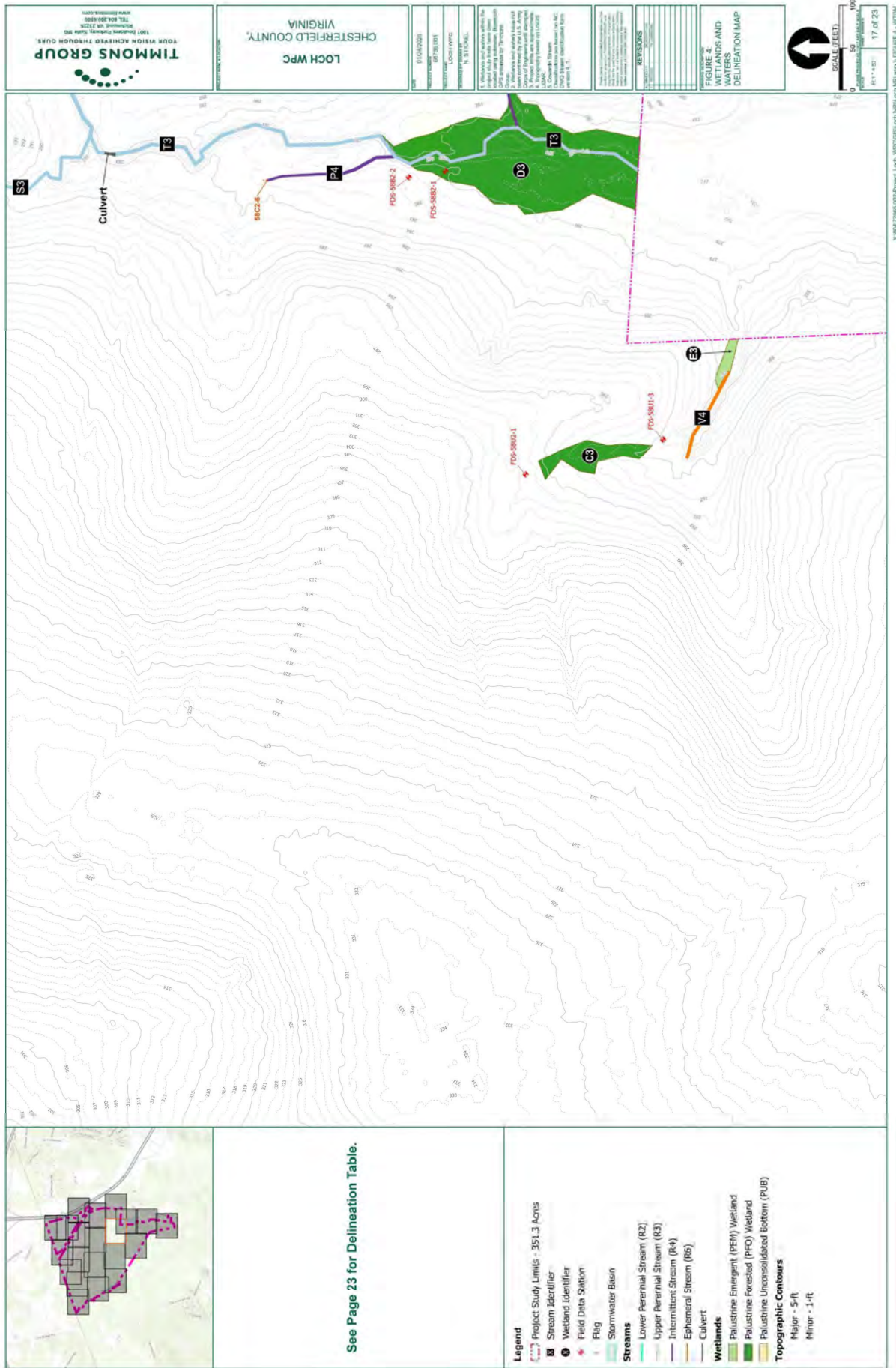


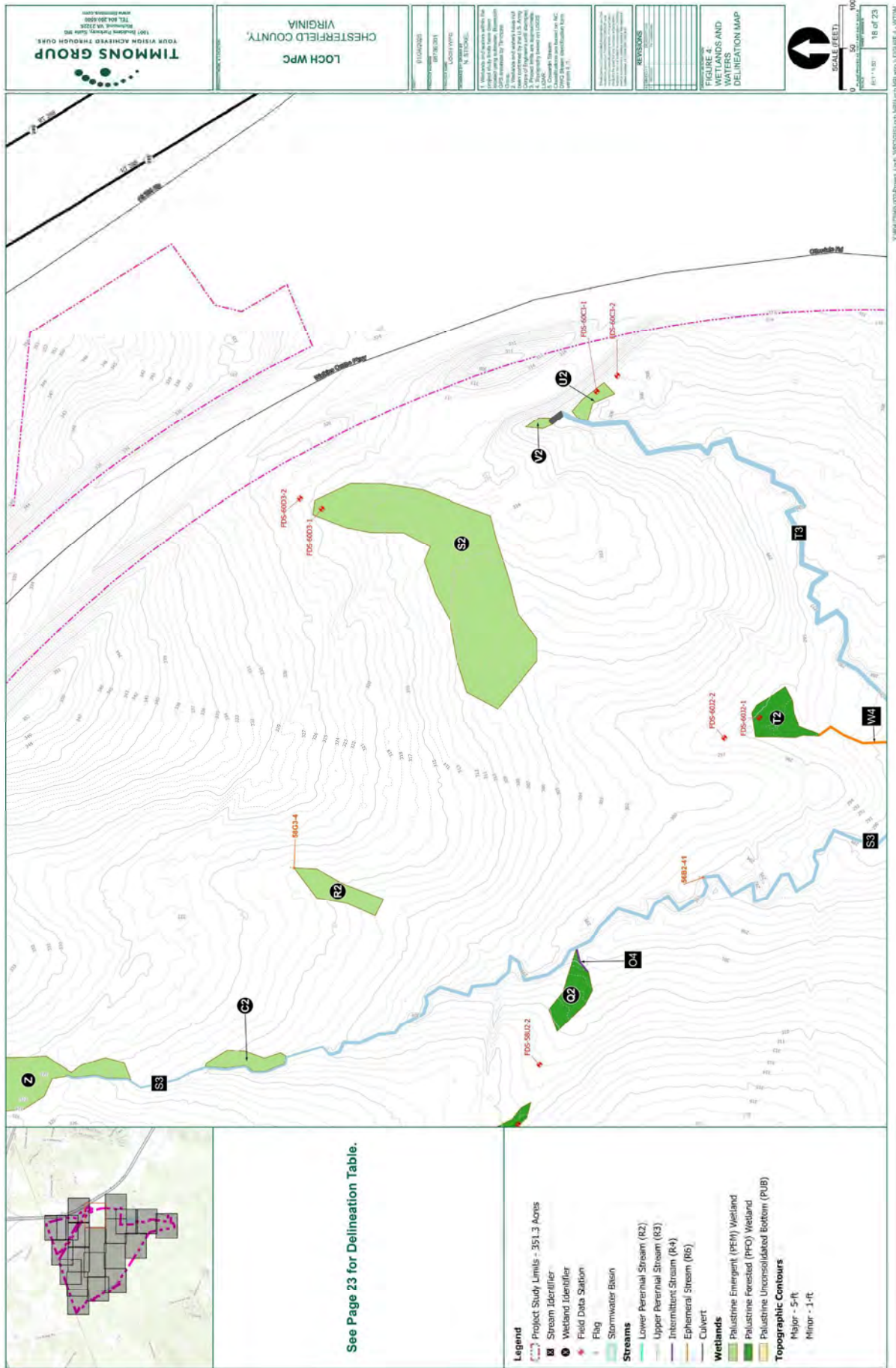


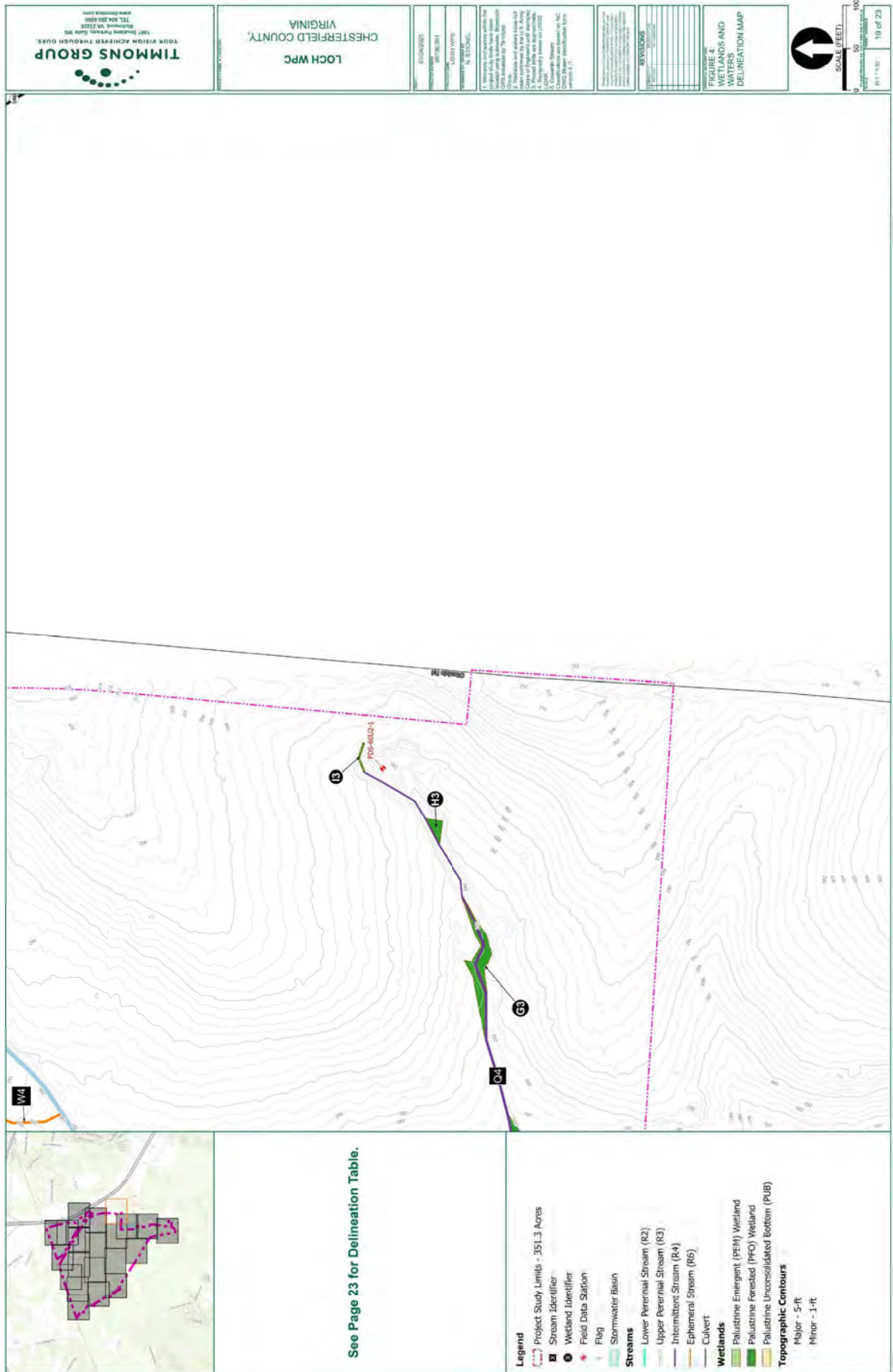






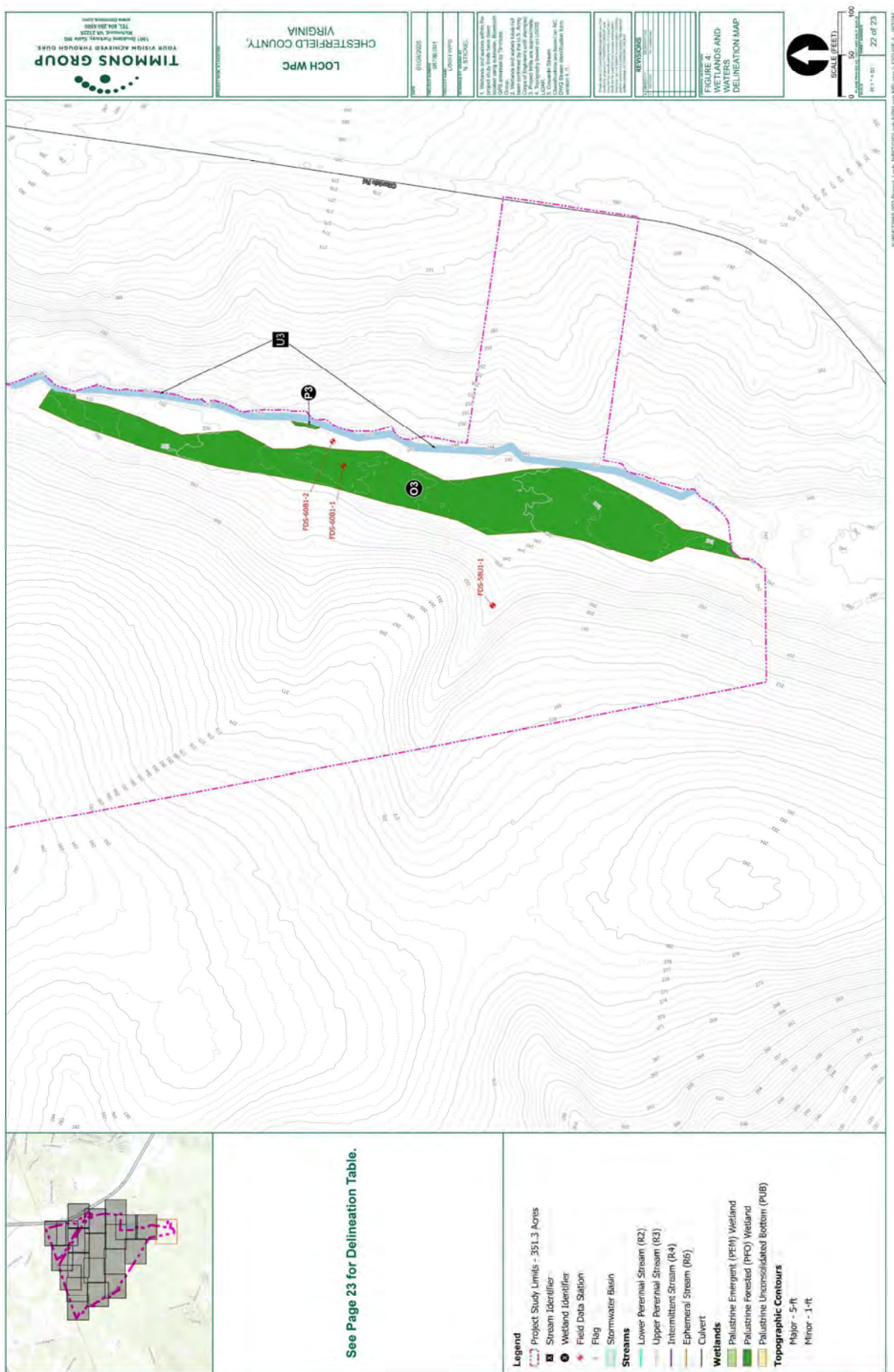








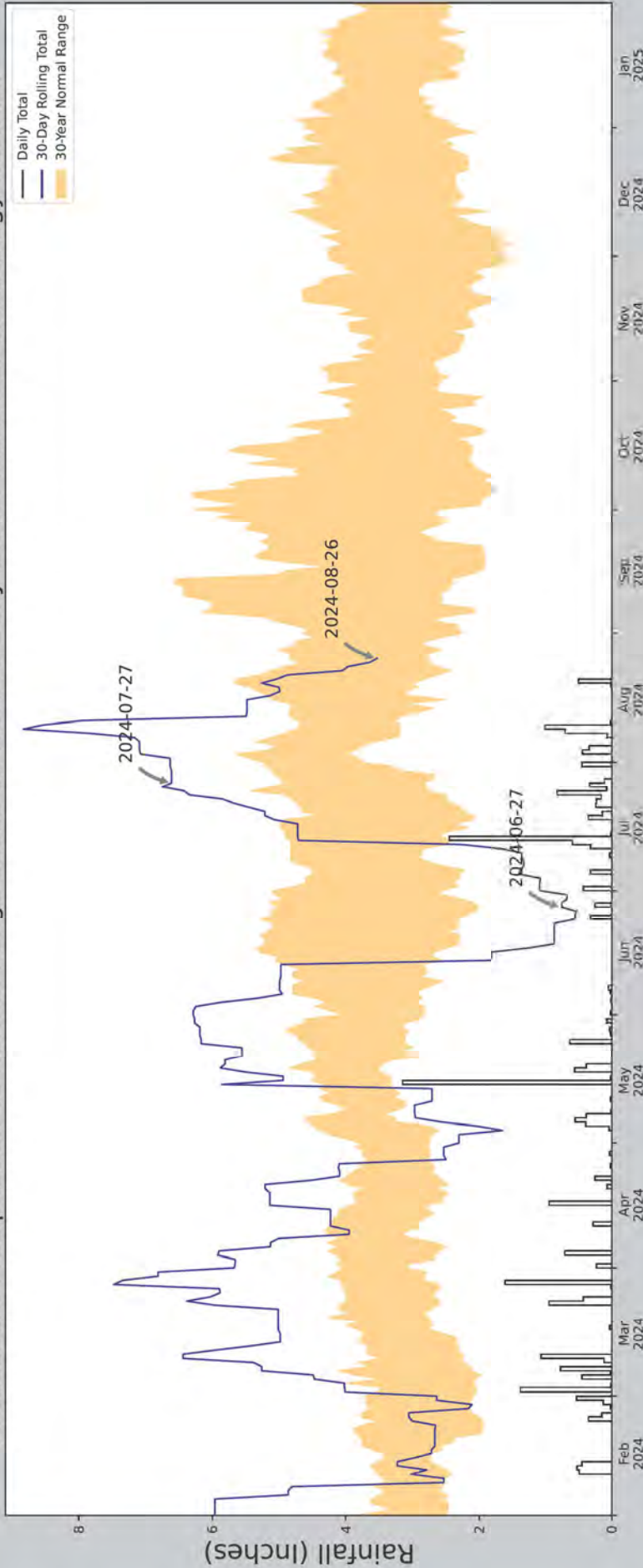




Received by VMRC January 29, 2026 / Ira

APPENDIX A
USACE ANTECEDENT PRECIPITATION TOOL DATA

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	37.4930925, -77.6907819
Observation Date	2024-08-26
Elevation (ft)	333.104
Drought Index (PDSI)	Mid drought (2024-07)
WebWMP H ₂ O Balance	Dry Season

30 Days Ending	30" %ile (in)	70" %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-08-26	2.764961	4.83504	3.531496	Normal	2	3	6
2024-07-27	2.831102	4.916636	6.610236	Wet	3	2	6
2024-06-27	2.005906	5.008268	0.751969	Dry	1	1	1
Result							Normal Conditions = 13



US Army Corps of Engineers



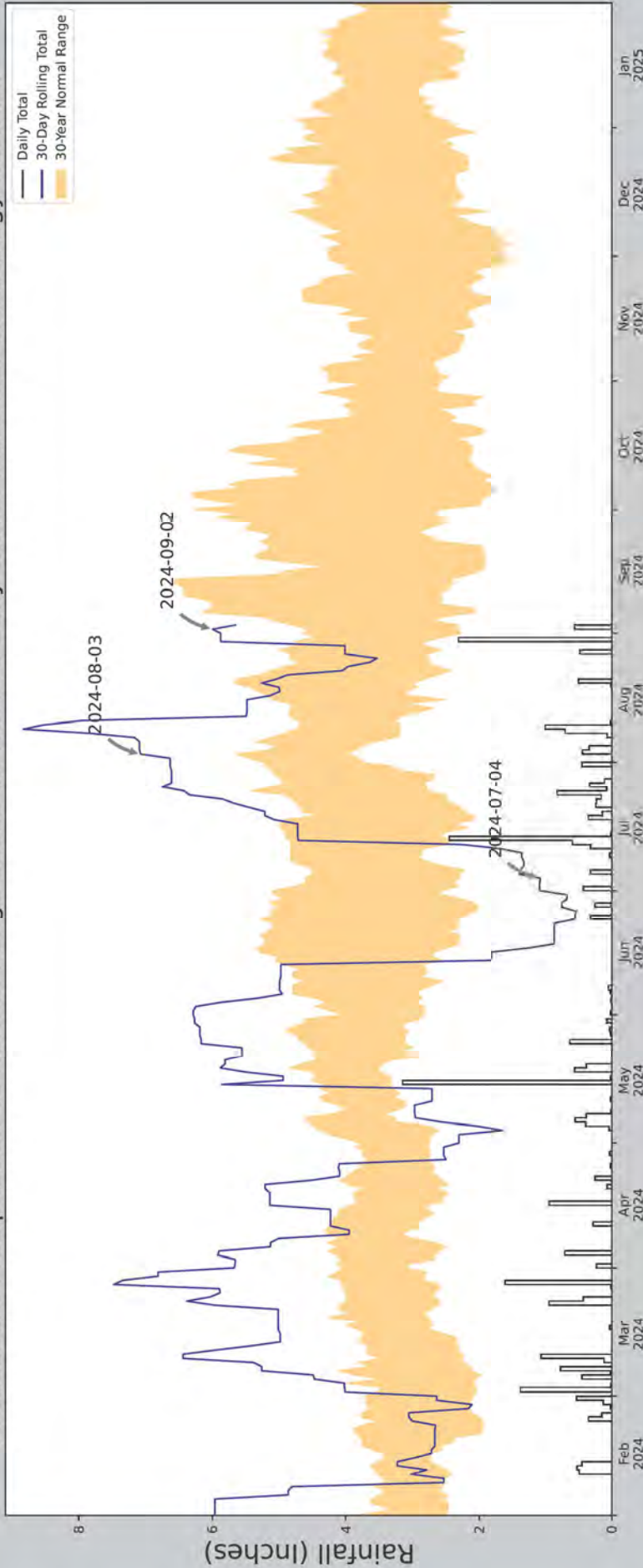
ERDC

Figures and tables made by the Antecedent Precipitation Tool
Version 2.0

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation (ft)	Weighted A	Days Normal	Days Antecedent
WINSTON-SALEM	37.3237, -77.6436	319.894	1.019	13.222	5.571	11.34	80
CHESTERFIELD 5.5 WSW	37.3237, -77.6436	369.094	1.052	49.212	0.026	97	0
MIDCLOTHIAN 7.8 S	37.3895, -77.6522	249.016	4.502	70.866	2.345	17	10
MIDCLOTHIAN 5.4 S	37.4259, -77.6432	238.845	6.992	81.037	3.713	1	0
MIDCLOTHIAN 3.5 SSW	37.4562, -77.6624	265.092	9.144	54.79	4.616	34	0
CHESTERFIELD CO AP	37.4, -77.5169	236.877	8.688	83.005	4.631	1	0
MIDCLOTHIAN 4.7 SSW	37.4399, -77.6671	183.071	8.063	136.811	4.731	3	0
MIDCLOTHIAN 1.1 SW	37.4965, -77.6648	377.953	11.927	58.071	6.06	20	0
MIDCLOTHIAN 1.4 WNW	37.5163, -77.671	334.974	13.323	15.092	6.196	20	0
POWHEATAN 6.6 SE	37.4883, -77.8212	341.864	14.926	21.982	7.045	13	0
POWHEATAN	37.5144, -77.8858	399.934	18.666	80.052	9.894	12	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	37.491603, -77.694997
Observation Date	2024-09-02
Elevation (ft)	280.155
Drought Index (PDSI)	Not available (2024-08)
WebWMP H ₂ O Balance	Dry Season

30 Days Ending	30" %ile (in)	70" %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-09-02	2.312598	4.559843	5.997126	Wet	3	3	9
2024-08-03	3.970473	5.633858	7.070866	Wet	3	2	6
2024-07-04	2.304331	4.605512	1.070866	Dry	1	1	1
Result							Wetness Normal - 15

**US Army Corps of Engineers**

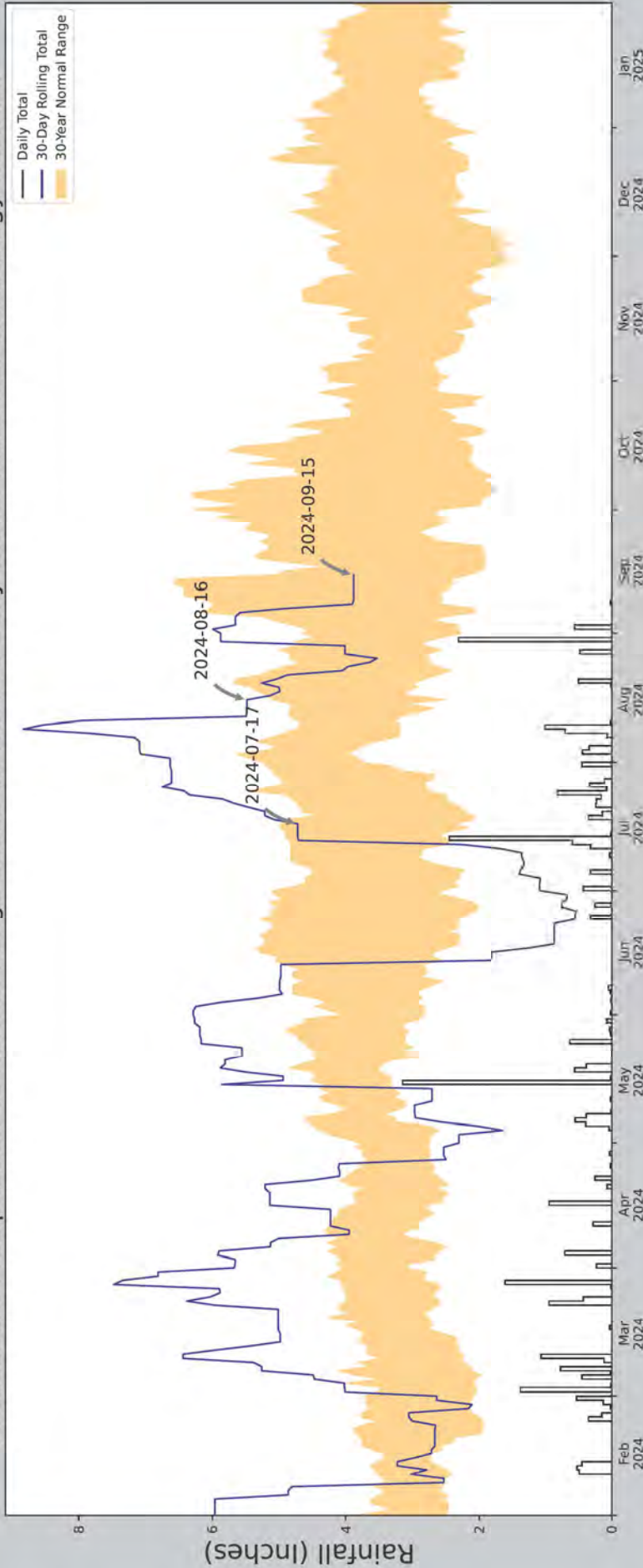
Figures and tables made by the Antecedent Precipitation Tool
Version 2.0

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and Development Center

**ERDC**

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation (m)	Weighted (m)	Days Normal	Days Antecedent
CHESTERFIELD 5.5 WSW	37.3237, -77.6436	319.894	1.872	39.722	5.814	11.34	74
MIDCLOTHIAN 7.8 S	37.3237, -77.6432	269.094	1.872	39.722	0.026	97	7
MIDCLOTHIAN 5.4 S	37.3895, -77.6523	249.016	4.502	70.866	2.345	17	10
MIDCLOTHIAN 3.5 SSW	37.4259, -77.6432	238.805	6.952	81.037	3.713	1	0
CHESTERFIELD CO AP	37.4562, -77.6624	265.092	9.144	54.79	4.616	34	0
MIDCLOTHIAN 4.7 SSW	37.4, -77.5169	236.877	8.688	83.005	4.631	1	0
MIDCLOTHIAN 1.1 SW	37.4399, -77.6671	183.071	8.063	136.811	4.731	3	0
MIDCLOTHIAN 1.4 WNW	37.4965, -77.6648	377.953	11.927	58.071	6.06	20	0
POWHAHAN 6.6 SE	37.5163, -77.671	334.974	13.323	15.092	6.196	20	0
POWHAHAN	37.4883, -77.8212	341.864	14.926	21.982	7.045	13	0
	37.5144, -77.8858	399.934	18.666	80.052	9.894	12	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	37.490238, -77.693678
Observation Date	2024-09-15
Elevation (ft)	277.878
Drought Index (PDSI)	Incipient drought (2024-08)
WebWMP H ₂ O Balance	Dry Season

30 Days Ending	30" %ile (in)	70" %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-09-15	2.170866	5.011417	3.88189	Normal	2	2	6
2024-08-16	2.507874	5.099213	5.480315	Wet	3	3	6
2024-07-17	2.36811	4.979921	4.720473	Normal	2	1	2
Result							Normal Conditions = 14



US Army Corps of Engineers



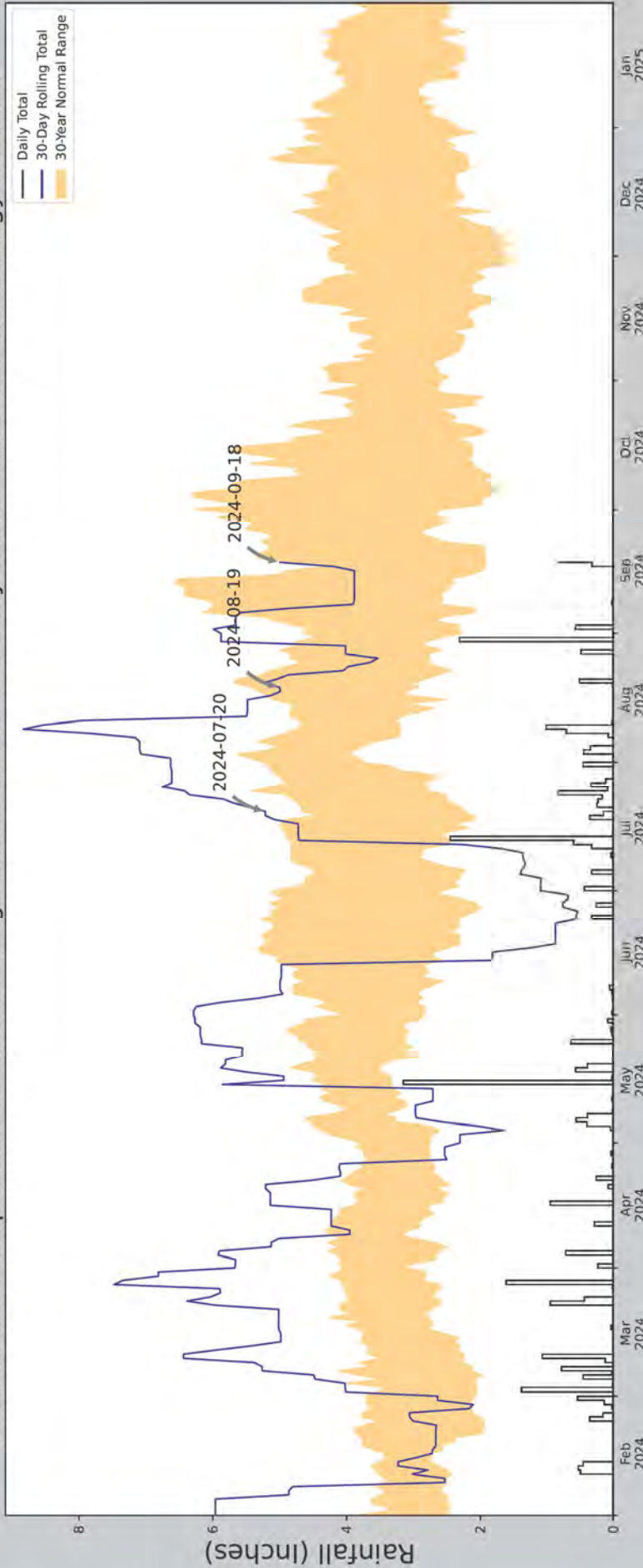
ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation (m)	Weighted d	Days Normal	Days Antecedent
CHESTERFIELD 5.5 WSW	37.3237, -77.6436	319.897	1.163	42.004	5.788	11.34	85
MIDCLOTHIAN 7.8 S	37.3252, -77.6423	269.094	4.052	49.212	0.026	97	0
MIDCLOTHIAN 5.4 S	37.3895, -77.6522	249.016	4.502	70.866	2.345	17	5
MIDCLOTHIAN 3.5 SSW	37.4259, -77.6432	238.845	6.952	81.037	3.713	1	0
CHESTERFIELD CO AP	37.4562, -77.6624	265.092	9.144	54.79	4.616	34	0
MIDCLOTHIAN 4.7 SSW	37.4399, -77.6671	183.071	8.688	83.005	4.631	1	0
MIDCLOTHIAN 1.1 SW	37.4965, -77.6648	377.953	11.927	58.071	4.731	3	0
MIDCLOTHIAN 1.4 WNW	37.5163, -77.671	334.974	13.323	15.092	6.196	20	0
POWHAHAN 6.6 SE	37.4883, -77.8212	341.864	14.926	21.982	7.045	13	0
POWHAHAN	37.5144, -77.8858	399.934	18.666	80.052	9.894	12	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Historical Climatology Network



Coordinates	37.4930925, -77.6907819
Observation Date	2024-09-18
Elevation (ft)	333.104
Drought Index (PDSI)	Incipient drought (2024-08)
WebWMP H ₂ O Balance	Dry Season

30 Days Ending	2024-09-18	30 th %ile (in)	1.92874	70 th %ile (in)	4.847638	Observed (in)	4.992126	Wetness Condition	Wet	Condition Value	3	Month Weight	3	Product	9
	2024-08-19	2.935827	5.41811		5.41811	5.0		Normal			2		2		4
	2024-07-20	2.263386	4.668898		4.668898	5.212599		Wet			3		1		3
Result															Wetness than Normal - 15

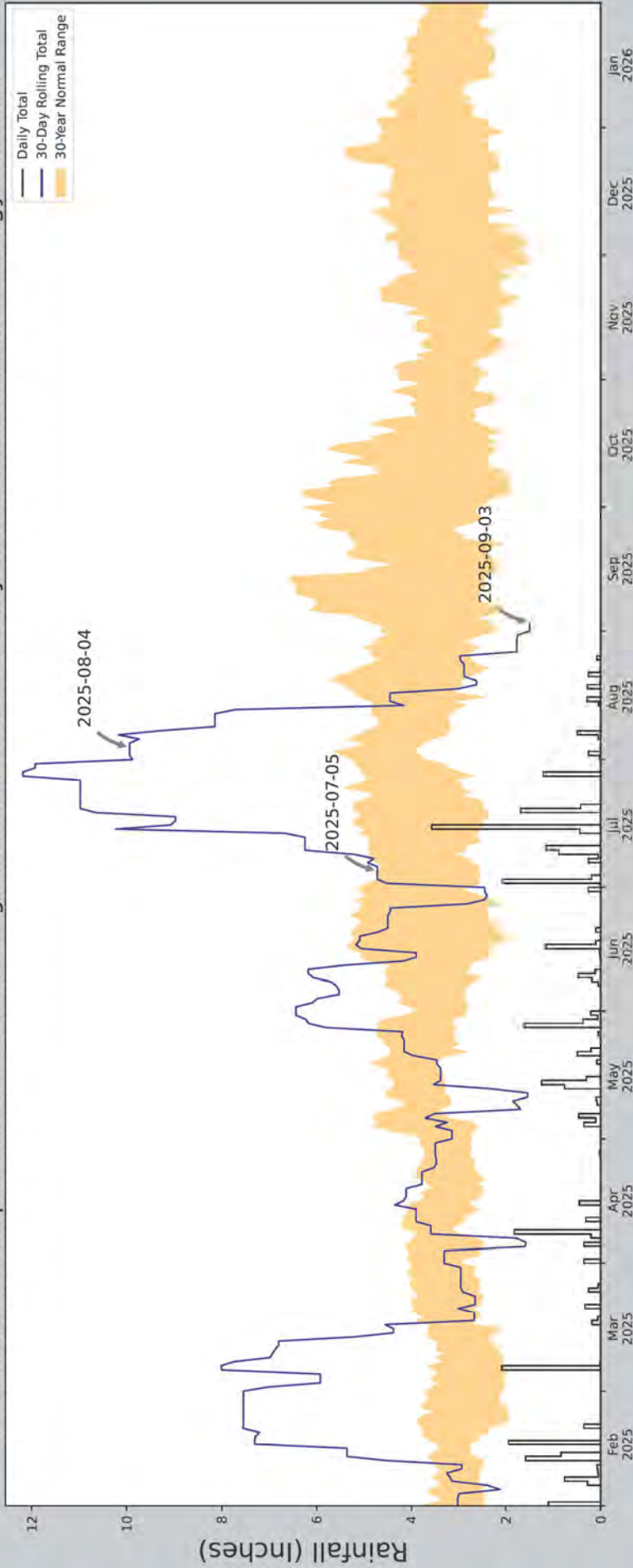
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
WINTERPOCK	37.3247, -77.6436	319.882	11.919	13.222	5.521	11134	84
CHESTERFIELD 8.5 WSW	37.3252, -77.6443	369.094	0.052	49.212	0.026	97	0
MIDLOTHIAN 7.9 S	37.3895, -77.6522	249.016	4.502	70.866	2.345	17	5
ETTRICK 6.9 WNW	37.2618, -77.5504	274.934	6.718	44.948	3.325	0	1
MIDLOTHIAN 5.4 S	37.4259, -77.6432	238.845	6.992	81.037	3.213	1	0
MIDLOTHIAN 3.5 SSW	37.4562, -77.6674	265.092	9.144	54.79	4.616	34	0
CHESTERFIELD CO AP	37.4, -77.5169	236.877	8.688	83.005	4.631	1	0
MIDLOTHIAN 4.7 SSW	37.4399, -77.6671	183.071	8.063	136.811	4.731	3	0
MIDLOTHIAN 1.1 SW	37.4965, -77.6648	377.953	11.927	58.071	6.06	20	0
MIDLOTHIAN 1.4 WNW	37.5163, -77.671	334.974	13.323	15.092	6.196	20	0
POWHATAN 5.5 SE	37.4883, -77.8212	341.864	14.926	21.982	7.045	13	0
POWHATAN	37.5144, -77.8858	399.934	18.666	80.052	9.894	12	0



Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	37.49304, -77.69263
Observation Date	2025-09-03
Elevation (ft)	307.043
Drought Index (PDSI)	Not available (2025-08)
WebWMP H ₂ O Balance	Dry Season

30 Days Ending	30 th Mile (in)	70 th Mile (in)	Observed (in)	Wellness Condition	Condition Value	Month Weight	Product
2025-09-03	2.243307	4.785433	1.496063	Dry	1	3	3
2025-08-04	3.87126	5.147638	9.937008	Wet	3	2	6
2025-07-05	2.598819	4.755906	4.720473	Normal	2	1	2
Result							Normal Conditions - 11



Figures and tables made by the
Antecedent Precipitation Tool
Version 2.9

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and
Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
WINTERPOCK	37.3247, -77.6436	319.882	11.938	12.839	5.526	11104	82
CHESTERFIELD 8.5 WSW	37.3252, -77.6443	369.094	0.052	49.212	0.026	97	1
MIDCLOTHIAN 7.9 S	37.3895, -77.6522	249.016	4.502	70.866	2.345	42	6
ETTRICK 6.9 WNW	37.2618, -77.5504	274.934	6.718	44.948	3.325	6	1
MIDCLOTHIAN 5.4 S	37.4229, -77.6432	238.845	6.992	81.037	3.713	1	0
MIDCLOTHIAN 3.5 SSW	37.4562, -77.6624	265.092	9.144	54.79	4.616	34	0
CHESTERFIELD CO AP	37.4, -77.5169	236.877	8.688	83.005	4.631	1	0
MIDCLOTHIAN 4.7 SSW	37.4399, -77.6671	183.071	8.063	136.811	4.731	3	0
MIDCLOTHIAN 1 WSW	37.4965, -77.6648	374.953	11.923	58.071	6.06	20	0
POWHEATAN 5.5 S	37.4883, -77.8917	341.864	14.976	23.082	9.036	23	0
POWHEATAN	37.5144, -77.8856	399.934	18.666	80.052	9.894	12	0

Appendix A2. Adjoining Property Owners

<i>First Name</i>	<i>Middle Name</i>	<i>Last Name</i>	<i>Address1</i>	<i>Address2</i>	<i>City</i>	<i>State</i>	<i>Zip Code</i>
VIRGINIA ELECTRIC & POWER CO		NA	27026 PO BOX		RICHMOND	VA	23261
RIVERSTONE PROPERTIES LLC		NA	800 CANAL ST E,		RICHMOND	VA	23219
RIVERSTONE PROPERTIES LLC		NA	801 CANAL ST E,		RICHMOND	VA	23219
CHESTERFIELD COUNTY INVESTMENTS LLC		NA	615 CHURCH ST		LYNCHBURG	VA	24504
Jerome and Donna		Beltz	1200 OTTERDALE RD		MIDLOTHIAN	VA	23114
KELLY A	A	MCGUIRE	2710 RIVER OAKS DR		MIDLOTHIAN	VA	23113
RALPH & IRENE		HAGUE	1112 OTTERDALE RD		MIDLOTHIAN	VA	23114
CARL & ELIZABETH		ANDREWS	1106 OTTERDALE RD		MIDLOTHIAN	VA	23114
1100 OTTERDALE LLC		NA	P.O. BOX 5684		MIDLOTHIAN	VA	23112
ELLIOTT	N	JEAN	1030 OTTERDALE RD		MIDLOTHIAN	VA	23114
JR		WATTS	1028 OTTERDALE RD		MIDLOTHIAN	VA	23114
Kelly		BECKER	1024 OTTERDALE RD		MIDLOTHIAN	VA	23114
BRENDA		GRADY	1004 OTTERDALE RD		MIDLOTHIAN	VA	23114
LARGE GAY R TRUSTEE		NA	1000 OTTERDALE RD		MIDLOTHIAN	VA	23114
DENNIS		NOFSINGER	3000 AVERY POINT WAY		RICHMOND	VA	23233
HHHUNT HOLLOWAY LLC		NA	11237 NUCKOLS RD		GLEN ALLEN	VA	23059
MSH CCW LAND INVESTMENT LLC		NA	461 P.O. BOX		MIDLOTHIAN	VA	23113
WATKINS LAND LLC		NA	101 DRY BRIDGE RD		MIDLOTHIAN	VA	23114
WATKINS LAND LLC		NA	102 DRY BRIDGE RD		MIDLOTHIAN	VA	23114

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WOODVILLE PARTNERSHIP		NA	4802 CHARMIAN RD		RICHMOND	VA	23226
WATKINS LAND LLC		NA	101 DRY BRIDGE RD		MIDLOTHIAN	VA	23114

Appendix B. Aquatic Resource Inventory:

<i>Aquatic Resource Name</i>	<i>State</i>	<i>Cowardin System</i>	<i>Cowardin Class</i>	<i>HGM Class</i>	<i>Local Waterway Name</i>	<i>Measurement Type</i>	<i>Measurement Amount</i>	<i>Measurement Units</i>	<i>Waters Type</i>	<i>Latitude</i>	<i>Longitude</i>
A	VIRGINIA	PALUST RINE	PFO-PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	583	SQ_FT	DELIN.PJD-404	37.4974526	-77.7013869
A2	VIRGINIA	PALUST RINE	PEM-PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	13120	SQ_FT	DELIN.PJD-404	37.4970808	-77.6892115
A3	VIRGINIA	PALUST RINE	PFO-PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	6794	SQ_FT	DELIN.PJD-404	37.4901621	-77.6913553
A5	VIRGINIA	PALUST RINE	PFO-PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	1949	SQ_FT	DELIN.PJD-404	37.4987274	-77.6995937
B	VIRGINIA	PALUST RINE	PFO-PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	3728	SQ_FT	DELIN.PJD-404	37.4973683	-77.7009465
B2	VIRGINIA	PALUST RINE	PFO-PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	17773	SQ_FT	DELIN.PJD-404	37.4962051	-77.6889196
B3	VIRGINIA	PALUST RINE	PFO-PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	826	SQ_FT	DELIN.PJD-404	37.4892106	-77.6901051
C	VIRGINIA	PALUST RINE	PFO-PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	105	SQ_FT	DELIN.PJD-404	37.4975672	-77.7004905
C2	VIRGINIA	PALUST RINE	PEM-PALUSTRIN E,	DEPRESS	Tomahawk	Area	1509	SQ_FT	DELIN.PJD-404	37.4965661	-77.6882232

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			EMERGENT								
C3	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	2706	SQ_FT	DELIN.PJD-404	37.492715	-77.6884798
D	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	68089	SQ_FT	DELIN.PJD-404	37.498794 1	-77.6989285
D2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	83373	SQ_FT	DELIN.PJD-404	37.493094 5	-77.6979478
D3	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	22219	SQ_FT	DELIN.PJD-404	37.492855	-77.6873129
E	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	26640	SQ_FT	DELIN.PJD-404	37.498591 6	-77.6986224
E2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	9754	SQ_FT	DELIN.PJD-404	37.492454 4	-77.6966031
E3	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	634	SQ_FT	DELIN.PJD-404	37.492248 6	-77.6880825
F	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	16997	SQ_FT	DELIN.PJD-404	37.498565 5	-77.6978917
F2	VIRGINIA	PALUST RINE	PUB- PALUSTRIN E, UNCONSOL BOT	DEPRESS	Tomahawk	Area	1196	SQ_FT	DELIN.PJD-404	37.492856	-77.6974791

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G	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	252	SQ_FT	DELIN.PJD-404	37.499231	-77.6999744
G2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	958	SQ_FT	DELIN.PJD-404	37.494160 1	-77.6973977
G3	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	1338	SQ_FT	DELIN.PJD-404	37.493036 3	-77.686335
H	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	320	SQ_FT	DELIN.PJD-404	37.499051 5	-77.6999214
H2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	47698	SQ_FT	DELIN.PJD-404	37.494950 4	-77.6960851
H3	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	269	SQ_FT	DELIN.PJD-404	37.493182 4	-77.6857649
I	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	1070	SQ_FT	DELIN.PJD-404	37.499762 8	-77.6982992
I2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	28387	SQ_FT	DELIN.PJD-404	37.495804 7	-77.6933649
I3	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	72	SQ_FT	DELIN.PJD-404	37.493429 2	-77.6854749
J	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E,	DEPRESS	Tomahawk	Area	341	SQ_FT	DELIN.PJD-404	37.499821 3	-77.698095

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			FORESTED								
J2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	2520	SQ_FT	DELIN.PJD-404	37.494684 7	-77.693887
J3	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	10957	SQ_FT	DELIN.PJD-404	37.490098 3	-77.6876073
K	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	464	SQ_FT	DELIN.PJD-404	37.500149 8	-77.6968888
K2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	166	SQ_FT	DELIN.PJD-404	37.494201 7	-77.6934765
K3	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	1902	SQ_FT	DELIN.PJD-404	37.489393 7	-77.6876409
L	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	7837	SQ_FT	DELIN.PJD-404	37.500451 5	-77.6954609
L2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	351	SQ_FT	DELIN.PJD-404	37.494195 5	-77.6932641
M	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	5971	SQ_FT	DELIN.PJD-404	37.499193 9	-77.6943496
M2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	1412	SQ_FT	DELIN.PJD-404	37.494617 3	-77.6924931
N	VIRGINIA	PALUST	PFO-	DEPRESS	Tomahawk	Area	7964	SQ_FT	DELIN.PJD-404	37.501071	-77.6921126

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		RINE	PALUSTRIN E, FORESTED							5	
N2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	20555	SQ_FT	DELIN.PJD-404	37.495662 5	-77.6913823
O	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	14702	SQ_FT	DELIN.PJD-404	37.502128 7	-77.6881346
O2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	1791	SQ_FT	DELIN.PJD-404	37.496387	-77.691003
O3	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	39039	SQ_FT	DELIN.PJD-404	37.486376 6	-77.687736
P	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	297	SQ_FT	DELIN.PJD-404	37.502180 8	-77.6876578
P2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	22439	SQ_FT	DELIN.PJD-404	37.495204 3	-77.6904949
P3	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	140	SQ_FT	DELIN.PJD-404	37.486752 2	-77.6874872
Q	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	86940	SQ_FT	DELIN.PJD-404	37.496115 7	-77.69982
Q2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	2130	SQ_FT	DELIN.PJD-404	37.495488 6	-77.687947

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R	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	692	SQ_FT	DELIN.PJD-404	37.496828 8	-77.7004372
R2	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	2313	SQ_FT	DELIN.PJD-404	37.496263 3	-77.6875319
S	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	1071	SQ_FT	DELIN.PJD-404	37.496431 6	-77.7006737
S2	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	26288	SQ_FT	DELIN.PJD-404	37.495811 1	-77.6863372
T	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	649	SQ_FT	DELIN.PJD-404	37.495257 8	-77.6998962
T2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	2551	SQ_FT	DELIN.PJD-404	37.494831 7	-77.6868428
U	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	943	SQ_FT	DELIN.PJD-404	37.495007 4	-77.6995488
U2	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	795	SQ_FT	DELIN.PJD-404	37.495460 9	-77.6855867
V	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	563	SQ_FT	DELIN.PJD-404	37.494778 9	-77.6993423
V2	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E,	DEPRESS	Tomahawk	Area	248	SQ_FT	DELIN.PJD-404	37.495594 1	-77.6856355

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			EMERGENT								
W	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	4270	SQ_FT	DELIN.PJD-404	37.494134 1	-77.6990902
W2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	12327	SQ_FT	DELIN.PJD-404	37.492520 1	-77.6959257
X	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	12134	SQ_FT	DELIN.PJD-404	37.498577 8	-77.687977
X2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	6900	SQ_FT	DELIN.PJD-404	37.493569 5	-77.6958097
Y	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	8417	SQ_FT	DELIN.PJD-404	37.497839 4	-77.6881637
Y2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	257	SQ_FT	DELIN.PJD-404	37.493305 4	-77.6944106
Z	VIRGINIA	PALUST RINE	PEM- PALUSTRIN E, EMERGENT	DEPRESS	Tomahawk	Area	6466	SQ_FT	DELIN.PJD-404	37.497327 2	-77.6883079
Z2	VIRGINIA	PALUST RINE	PFO- PALUSTRIN E, FORESTED	DEPRESS	Tomahawk	Area	724	SQ_FT	DELIN.PJD-404	37.490683 1	-77.6932043
A4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	21	FOOT	DELIN.PJD-404	37.502083	-77.6884789
B4	VIRGINIA	RIVERIN E	R4- RIVERINE,	RIVERINE	Tomahawk	Linear	295	FOOT	DELIN.PJD-404	37.494766 8	-77.6992664

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			INTERMIT								
C4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	148	FOOT	DELIN.PJD-404	37.494174 9	-77.6974341
D4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	231	FOOT	DELIN.PJD-404	37.493825 1	-77.6986548
E4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	74	FOOT	DELIN.PJD-404	37.493138 9	-77.6982434
F4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	19	FOOT	DELIN.PJD-404	37.492886 7	-77.6980903
G4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	1942	FOOT	DELIN.PJD-404	37.493766 6	-77.6940131
H4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	659	FOOT	DELIN.PJD-404	37.494787 9	-77.6938857
I4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	197	FOOT	DELIN.PJD-404	37.492990 8	-77.6958701
J4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	78	FOOT	DELIN.PJD-404	37.494719 5	-77.6915377
K4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	79	FOOT	DELIN.PJD-404	37.494931 8	-77.6915974
L4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	78	FOOT	DELIN.PJD-404	37.496241 8	-77.6910968
M4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	218	FOOT	DELIN.PJD-404	37.497725 5	-77.6881451
N4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	117	FOOT	DELIN.PJD-404	37.497517 4	-77.6882732

Received by VMRC January 29, 2026 / Ira

O4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	32	FOOT	DELIN.PJD-404	37.495481 9	-77.6878255
P4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	156	FOOT	DELIN.PJD-404	37.493446 3	-77.6872834
Q3	VIRGINIA	RIVERIN E	R1- RIVERINE, TIDAL	RIVERINE	Tomahawk	Linear	2390	FOOT	DELIN.PJD-404	37.494007 8	-77.6992386
Q4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	524	FOOT	DELIN.PJD-404	37.493056 7	-77.6863248
R3	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	1102	FOOT	DELIN.PJD-404	37.498039	-77.6999187
S3	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	1426	FOOT	DELIN.PJD-404	37.495440 2	-77.6877348
S4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	75	FOOT	DELIN.PJD-404	37.492503 5	-77.6964085
T3	VIRGINIA	RIVERIN E	R3- RIVERINE, UPPER PERENNIAL	RIVERINE	Tomahawk	Linear	1575	FOOT	DELIN.PJD-404	37.493896 7	-77.6871579
T4	VIRGINIA	RIVERIN E	R6- RIVERINE, EPHEMERAL	RIVERINE	Tomahawk	Linear	168	FOOT	DELIN.PJD-404	37.493378 6	-77.6948314
U3	VIRGINIA	RIVERIN E	R3- RIVERINE, UPPER PERENNIAL	RIVERINE	Tomahawk	Linear	1831	FOOT	DELIN.PJD-404	37.485869 9	-77.6876626
U4	VIRGINIA	RIVERIN E	R6- RIVERINE, EPHEMERAL	RIVERINE	Tomahawk	Linear	52	FOOT	DELIN.PJD-404	37.493290 9	-77.6945427
V3	VIRGINIA	RIVERIN E	R3- RIVERINE, UPPER	RIVERINE	Tomahawk	Linear	8	FOOT	DELIN.PJD-404	37.489769 6	-77.6875593

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			PERENNIAL								
V4	VIRGINIA	RIVERIN E	R6- RIVERINE, EPHEMERAL	RIVERINE	Tomahawk	Linear	112	FOOT	DELIN.PJD-404	37.492316 6	-77.6882992
W3	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	72	FOOT	DELIN.PJD-404	37.499184 8	-77.6998687
W4	VIRGINIA	RIVERIN E	R6- RIVERINE, EPHEMERAL	RIVERINE	Tomahawk	Linear	119	FOOT	DELIN.PJD-404	37.494643 1	-77.686895
X3	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	547	FOOT	DELIN.PJD-404	37.500033 6	-77.6973196
X4	VIRGINIA	RIVERIN E	R6- RIVERINE, EPHEMERAL	RIVERINE	Tomahawk	Linear	37	FOOT	DELIN.PJD-404	37.500189	-77.6966874
Y3	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	108	FOOT	DELIN.PJD-404	37.500845 4	-77.6917396
Y4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	38	FOOT	DELIN.PJD-404	37.498819 4	-77.6996175
Z3	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	407	FOOT	DELIN.PJD-404	37.502134 1	-77.6883346
Z4	VIRGINIA	RIVERIN E	R4- RIVERINE, INTERMIT	RIVERINE	Tomahawk	Linear	27	FOOT	DELIN.PJD-404	37.498825 3	-77.6995684

Appendix C. Impact Inventory:

<i>Water Name</i>	<i>Impact Name</i>	<i>Activity</i>	<i>Type of Material Being Discharged</i>	<i>Resource Type</i>	<i>Permanent Loss (Y/N)</i>	<i>Impact Duration</i>	<i>Amount Type</i>	<i>Proposed Length</i>	<i>Proposed Width</i>	<i>Proposed Amount</i>	<i>Amount Units</i>
G2	1	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			401	Square Feet
F	2	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			463	Square Feet
D2	3	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			4038	Square Feet
G2	4	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			557	Square Feet
H2	5	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			47761	Square Feet
X2	6	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			6900	Square Feet
J2	7	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			2520	Square Feet
I2	8	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			28387	Square Feet
Y2	9	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			257	Square Feet
K2	10	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			166	Square Feet
L2	11	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			351	Square Feet
N2	12	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			20555	Square Feet
P2	13	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			22439	Square Feet
O2	14	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			1791	Square Feet
C3	15	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			2706	Square Feet
B2	16	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			16722	Square Feet
A2	17	Discharge of fill material	Fill	Non-Tidal	Yes	Permanent	Fill Area			13120	Square Feet

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		material		Wetland							
M2	18	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			1412	Square Feet
M	19	Discharge of fill material	Fill	Non-Tidal Wetland	Yes	Permanent	Fill Area			5971	Square Feet
L4	20	Discharge of fill material	Fill	River/Stream	Yes	Permanent	Fill Area	78	1	78	Square Feet
K4	21	Discharge of fill material	Fill	River/Stream	Yes	Permanent	Fill Area	79	1	79	Square Feet
C4	22	Discharge of fill material	Fill	River/Stream	Yes	Permanent	Fill Area	144	1	144	Square Feet
I4	23	Discharge of fill material	Fill	River/Stream	Yes	Permanent	Fill Area	156	1	156	Square Feet
G4	24	Discharge of fill material	Fill	River/Stream	Yes	Permanent	Fill Area	1631	1	1631	Square Feet
T4	25	Discharge of fill material	Fill	River/Stream	Yes	Permanent	Fill Area	168	1	168	Square Feet
U4	26	Discharge of fill material	Fill	River/Stream	Yes	Permanent	Fill Area	52	1	52	Square Feet
H4	27	Discharge of fill material	Fill	River/Stream	Yes	Permanent	Fill Area	659	1	659	Square Feet
J4	28	Discharge of fill material	Fill	River/Stream	Yes	Permanent	Fill Area	78	1	78	Square Feet

Provide any additional information you may have about the proposed quantity of wetlands, streams, or other types of waters directly affected by the proposed activity. This level of detail is helpful to better understand the type of impacts that are proposed for your project.

In order to achieve the goals of the Project, impacts to jurisdictional surface waters are unavoidable. The locations of the proposed impacts are depicted on Figure 4: Wetlands and Waters Impacts Map. As proposed, approximately 3.61 acres of palustrine forested (PFO) wetlands, 0.44 acres of palustrine emergent (PEM), 2,825 linear feet of intermittent (R4) stream, and 220 linear feet of ephemeral (R6) stream channel would be permanently impacted. Details regarding impacts are outlined in Appendix G Wetlands and Waters Impact Table.

Definitions and help text

Water Name: The name of the wetland, stream, or other type of water that would be impacted.

Impact Name: Useful if entering more than one impact for the same or multiple waters (e.g., linear projects) and name accordingly. This may be different than the Water Name; keep it short and simple. For example, if Stream-1 is the water, the impact name could be “Crossing-1,” “Crossing-2,” “Crossing-3.” A short name helps describe the impact and is useful when looking at a list of impacts.

Activity: Options are:

- Conversion of waters type (forested wetland to emergent wetland, stream to lake)
- Discharge of dredged material
- Discharge of fill material
- Dredging (Section 10)
- Ecological restoration
- Other (Aquaculture, Work, Aerial or Submarine cable crossings)
- Removal (Sec 10 structures)
- Structure (Sec 10 only)
- Transport of dredged material (Sec 103)

Type of Material Being Discharged: Describe the material to be discharged within USACE jurisdiction. Make sure this description is consistent with your illustrations. Discharge material includes: rock, sand, clay, concrete, etc.

Resource Type: Options are Harbor/Ocean, Lake, Non-Tidal wetland, Other, Pond, River/Stream, and Tidal wetland.

Permanent Loss (Y/N): Only enter “YES” when the ‘discharge of dredged or fill material’ activity types are chosen. A permanent loss means the conversion of an aquatic resource to dry land.

Impact Duration: Options are Permanent or Temporary. An example of a temporary impact is the discharge of fill for temporary access roads that are later removed and returned to pre-construction contours.

Amount Type: Options are Area or Volume.

Amount Units: Options are Acre or Square Feet if Amount Type=Area, Cubic Yards if Amount Type=Volume.

Proposed Length and Proposed Width: Unit is linear feet.

Proposed Amount: Unit is square feet.

Appendix H. Supporting Information:

<i>Document Type</i>	<i>Document Created Date (YYYY-MM-DD)</i>	<i>Document Label</i>	<i>Information Source/Citation</i>	<i>Uploaded file name</i>
Other	2026-01-23	Project Loch Permit Application Part 1	Timmons Group	20260123_Project Loch_Permit Application_Package_Part 1.pdf
Other	2026-01-23	Project Loch Permit Application Part 2	Timmons Group	20260123_Project Loch_Permit Application_Package_Part 2.pdf
Other	2026-01-23	Project Loch Permit Application Part 3	Timmons Group	20260123_Project Loch_Permit Application_Package_Part 3.pdf
Other	2026-01-23	Project Loch Permit Application Part 4	Timmons Group	20260123_Project Loch_Permit Application_Package_Part 4.pdf