

CATEGORICAL EXCLUSION

Hampton Roads Sanitation District

TRAIL PROJECT

City of Newport News, Virginia



PREPARED FOR

Hampton Roads Sanitation District

PREPARED BY

VHB

January 2022



Matthew J. Strickler
Secretary of Natural Resources

Clyde E. Cristman
Director

COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

Rochelle Altholz
Deputy Director of
Administration and Finance

Russell Baxter
Deputy Director of
Soil and Water Conservation
and Dam Safety

Nathan Burrell
Deputy Director of
Government and Community
Relations

Thomas L. Smith
Deputy Director of Operations

**Recreational Trails Program
Categorical Exclusion (CE)**

PROJECT INFORMATION

FHWA Contact: Eric Rothermel

DCR Contact: Kristal McKelvey

Sub-grantee: Hampton Roads Sanitation District

Project Name: Flax Mill Creek Trail

RTP Category: Non-motorized single use

Federal Project Number: 339N210

Virginia Recreational Trails Program Sub-grant #: VA RTP 339N210

RTP Award Amount: \$300,000

Apportionment Year(s): 2021 Federal Fiscal Year **FMIS Code(s):** Z94E

Project Description: The project is a public pedestrian path with overlooks along the shore of Warwick River in Newport News, VA. The trail will begin near the northeast corner of the HRSD wastewater treatment plant and travel southward toward the Warwick River between Flax Mill Creek and the western edge of the wastewater treatment plant (Figure 2). The trail will veer to the southeast along the toe of the slope to the tidal marsh of Flax Mill Creek and will extend into the marsh via an elevated boardwalk. As the trail traverses along the Warwick River shoreline, the trail will come upon a steep bluff that is experiencing severe shoreline erosion. The trail will be landward of this bluff and extend to the HRSD property boundary at the southeast corner of the property. The total trail distance is approximately 2,400 linear feet.

Project Termini:

Riverview Farm Park (37.088572, -76.533292)

HRSD eastern property line with City of Newport News (37.083377, -76.534065)

Design Standard: AASHTO, ADA

Description of Structures, if any: Elevated boardwalks

Source(s): HRSD, City of Newport News

PURPOSE AND NEED

Brief Purpose and Need Statement:

As part of their Sustainable Water Initiative for Tomorrow (SWIFT) program, the Hampton Roads Sanitation District (HRSD) has committed to construct recreation improvements at the James River Treatment Plant and adjacent City Farm property owned by the City of Newport News. In general, these improvements include trails, boardwalks, trailheads, and scenic overlooks. The trails and boardwalks are intended to extend the existing trail network on the adjacent Riverview Farm Park, provide public access to river views, enhance bird observation opportunities, and connect pedestrians to the city-owned Menchville Marina located on Deep Creek.

Table 23.1 of the Virginia Outdoors Plan identifies Parks, Natural Areas, Water Access, and Trails as the most-needed recreation opportunities in the Hampton Roads region. By expanding an existing trail system, the project addresses these critical needs. The VOP also identifies visiting natural areas and walking for pleasure as the top recreation activities in Hampton Roads (Table 23.2); again, the project directly addresses these activities. Regarding historic resources, page 13.128 of the VOP discusses interpretive opportunities for resources such as historic settlements. The proposed trail project would provide interpretive access to historic Warwick Town, an archaeological site undergoing discovery and interpretation at the City Farm property.

The portion of the project that will utilize the Recreational Trails Program funds includes the pedestrian path section along Flax Mill Creek on HRSD property. This proposed pedestrian path would connect to a proposed shared use path being funded entirely by HRSD on City property where the cultural resources are located. The shared use path section will provide interpretive access to Warwick Town and to Menchville Marina. Therefore, the RTP funded section of the project is needed to connect Riverview Farm Park to the proposed shared use path.

ALTERNATIVES

Provide an evaluation of all alternatives considered. Provide the reasons for selecting the preferred alternative and rejecting the other alternatives:

The proposed trail extension is reliant upon connectivity to the existing trail system at Riverview Farm Park, the existing road network, and existing facilities that can be used for trailhead parking. The trail location is placed on the west side of the HRSD treatment plan in between the treatment plant fence and the Flax Mill Creek ravine and Warwick River shoreline. There is no other place on HRSD property to place the trail that would not interfere with treatment plant operations.

SOCIO-ECONOMIC

Minority/Low Income Populations: YES or NO

Disproportionate Impacts to Minority/Low Income Populations: YES or NO

Existing or Planned Public Recreational Facilities: Riverview Farm Park is a public park that contains picnicking areas, playgrounds, ballfields, and a trail network. The planned project is to build upon the trail network by adding a trail along the western side of the HRSD wastewater treatment plant and the shoreline of the Warwick River at the confluence with the James River.

Community Services: Riverview Farm Park is open to the public at no cost. The park provides public playgrounds, exercise areas, picnic areas, and trails.

Consistent with Local Land Use: YES or NO

Existing or Planned Bicycle/Pedestrian Facilities: Riverview Farm Park contains a public, 2-mile shared use path. The planned project is to build upon the trail network by adding a pedestrian path along the shoreline of the Warwick River at the confluence with the James River.

Socio-Economic Comments: The trail will be placed on HRSD property and will not require the use of private property or displacement of residents. The trail will be open for the public to use at no cost.

Source(s): EPA EJSCREEN online tool; One City, One Future Comprehensive Plan 2040

SECTION 4(f) and SECTION 6(f)

Use of 4(f) Property: YES or NO. Recreational Trails Projects are an exception to the requirement for Section 4(f) approval pursuant to 23 CFR 774.13.

Type of Resource: Recreational

Individually Eligible Historic Property: YES or NO

Contributing Element to Historic District: YES or NO

Planned Public Park: YES or NO

6(f) Conversion: YES or NO

If "YES" - Acres of Conversion: - Acres of Use:

Type of Public Recreation Area: Public Park or Public Wildlife Management Area or Natural Area Preserve with Public Access

4(f) and 6(f) Comments: This section of trail will be placed mainly on the property owned and managed by the Hampton Roads Sanitation District (HRSD) operating a wastewater treatment plant. A short segment of the trail will occur on the Riverview Farm Park owned by Newport News (a 4(f) property), which sits west and north of the HRSD treatment plant where existing trails are located. This project will include an extension of a public recreational trail along the perimeter of the wastewater treatment plant along Flax Mill Creek drainageway to the shoreline of the Warwick River where it will connect back into city park property. This segment of trail is an expansion of recreational opportunities for an existing park, which does not constitute a regulatory use. Riverview Farm Park is not a Section 6(f) property.

Numerous cultural assessments have been performed over the years on the adjacent River View Farm property and the HRSD property. The Virginia Department of Historic Resources has confirmed that there will be no impacts to historic resources that would constitute a Section 4(f) resource. There are no wildlife refuges in the immediate area.

Source(s): Newport News Dept Parks, Recreation, and Tourism; See sources below under Cultural Resources

CULTURAL RESOURCES

DHR/SHPO Section 106 Determination: The Virginia Department of Historic Resources provided the following Section 106 determination.

“The investigations and report generally meet applicable standards and guidelines and DHR accepts the report as a reasonable and good faith effort to identify historic properties. The Phase I survey documented largely disturbed soils or wetland areas within the APE which had not been surveyed in the past. Based on the information provided, it is DHR's opinion that no historic properties will be affected by the proposed project.”

Date of DHR/SHPO Determination: 1/19/2022

Phase 1 Architectural Review Conducted: YES or NO

Phase 2 Architectural Review Conducted: YES or NO

Phase 1 Archeological Review Conducted: YES or NO

Phase 2 Archeological Review Conducted: YES or NO

Name of Historic Property: None

Cultural Resource Comments: This segment of trail will occur along the Flax Mill drainageway on the west side of the HRSD wastewater treatment plant and curve along the Warwick River shoreline. The multiple cultural studies performed revealed no cultural resources along the trail corridor. A summary of the listed citations is provided as part of Attachment A.

Source(s):

Higgins, Thomas F., III, et al.

1992 *A Phase I Cultural Resource Survey of the Proposed Riverview Farm Park Property, City of Newport News, Virginia.* William and Mary Center for Archaeological Research, The College of William and Mary, Williamsburg, Virginia.

Laird, Matthew R., et al.

2021 Phase I Archaeological Survey for Proposed Shoreline Improvements at the James River Treatment Plan, Newport News, Virginia. James River Institute for Archaeology, Inc., Williamsburg, Virginia.

McClearn, Douglas C.

1999 *Summary of Archaeological Testing at 44NN281, Newport News, Virginia.* Cultural Resources, Inc., Williamsburg, Virginia.

McDonald, Bradley M., and Martha W. McCartney

1996 *Phase III Plowzone Sampling of the Footprint of a Temporary Gymnasium at Site 44NN278, Newport News City Farm, Newport News, Virginia.* James River Institute for Archaeology, Inc., Williamsburg, Virginia.

McSherry, Perry, and Martha McCartney

1993 *Phase II Archaeological Significance Evaluation of Site 44NN278, Riverview Farm Park, Newport News City Farm, Newport News, Virginia.* James River Institute for Archaeology, Inc., Williamsburg, Virginia.

Pope, Natalie Adams et al.

2020 *History in Two Acts: Archaeological Examination of Warwicktowne and a Confederate Encampment on the Former City Farm.* New South Associates, Stone Mountain, Georgia.

Stewart, Benjamin, and Scott Seibel

2020 *Phase I Archaeological Survey of the Sustainable Water Initiative for Tomorrow Improvements to the James River Treatment Plant, Newport News, Virginia.* AECOM Technical Services, Inc., Germantown, Maryland.

NATURAL RESOURCES

Surface Water Name: Warwick River and Flax Mill Creek

Waters of the U.S. present? Yes

Linear Feet of Impact: Estimated at 400 LF of elevated boardwalk

100 Year Floodplain: YES or NO

Regulatory Floodway Zone: YES or NO

If "YES", Type: 100-year

Impacts: YES or NO

If "YES", # of Acres of Impact:

Are any tidal waters/wetlands present? Yes

Wetlands: Approx 0.4 Ac. **Acres of Impact:** Approx 0.13 Ac. for the Boardwalks **Wetland Type:** E2EM (tidal marsh) and E2US (sandy beach)

Are any Non-tidal Wetlands Present? YES or NO **If "YES", Type of Non-tidal Wetland Impacts:** Palustrine Forested

Federal Threatened or Endangered Species (Terrestrial, Aquatic, OR Plants): YES or NO

If "YES", Type:

Natural Heritage Resources: None

Public Water Supplies: None

Are Permits Required? YES or NO

If "YES", Type of Permits Needed: USACE Section 404/10 permit; City of

Newport News Wetlands Board for Tidal Impacts

Natural Resource Comments: The planning team attempted to place the trail along the shoreline out of wetlands, but the shoreline between the Warwick River/Flax Mill Creek marsh and HRSD facilities is too steep. The trail would otherwise require the clearing of significantly large pine trees and cut into the side slope to build a trail at ground-level, thereby causing further environmental harm. The option having the least environmental impact is to have a portion of the trail crossing the tidal wetlands via elevated boardwalk and tie into the nearest upland point of connection. The boardwalk will provide unobstructed public viewing of area wetlands, the river, and wildlife. The only permanent impacts to tidal marsh habitat will be the installation of the piles to support the boardwalk. Temporary impacts will occur with the placement of mats along the side of the boardwalk in the marsh to support carpenters and construction equipment.

A review of listed species has determined that the federally threatened northern long-eared bat is the only species that potentially could occupy the area. Tree clearing is scheduled to occur outside of the pupping season for the species (June 1 to July 31) in accordance with the 4(d) rule. There are no known roosting sites near the project area.

There are no bald eagle nest sites within 3,800 feet of the project area.

Wetland jurisdictional documentation is provided as Attachment B.

Listed Species documentation is provided as Attachment C.

Source(s): Onsite wetland delineation confirmed by the USACE; USFWS Information, Planning and Consultation (IPaC) web portal; Virginia Natural Heritage; Virginia Department of Wildlife Resources information portal; Center for Conservation Biology bald eagle nest mapping portal; Critical Habitat online mapping portal; Northern long-eared bat roosting area online mapping portal.

AGRICULTURAL/OPEN SPACE

Open Space Easements: YES or NO

Agricultural/Forestal Districts: YES or NO

Agricultural/Open Space Comments: The trail will be placed on Hampton Roads Sanitation District and city park property

Source(s): City of Newport News Zoning

FARMLAND

NRCS Form CPA-106 Attached? YES or NO

Rating:

If Form CPA-106 is Not Attached, Check All that Are Applicable:

Land is Already in Urban Use

Entire Project is in an Area NOT Zoned Agricultural

NRCS Determined there is No Prime or Unique Farmland in Project Area

Alternatives Analysis Required? YES or NO

Farmland Comments: None

Source(s): City of Newport News Zoning

INVASIVE SPECIES

Invasive Species in the project area? YES or NO or UNKNOWN

Does the Project have an Invasive Species Management Plan: YES or NO

If "YES", Provide a Brief Description of the Plan:

Invasive Species Comments: The wooded area of the trail corridor currently contains patches of Japanese stiltgrass (*Microstegium vimineum*) in the understory, and the natural spread of this species is likely to continue over time due to propagational pressures from neighboring properties. Common reed (*Phragmites australis*) is known to occur along high marsh where Flax Mill Creek discharges into the Warwick River. The tidal marsh where the boardwalk will be installed is considered low marsh, receiving salt water inundation each tide cycle and dominated by saltmarsh cordgrass (*Sporobolus alterniflorus*) and free of common reed. No alternations to the marsh will occur that would cause the spread of common reed.

Source(s): Field delineation of wetlands and site inspections

AIR QUALITY

Is a Carbon Monoxide (CO) Hotspot Analysis Required? YES or NO

Project is Located in a CO Attainment Area: YES or NO

Project is Exempt Under 40 CFR 93.126: YES or NO

Project is Located in an Ozone: Attainment Area, Nonattainment Area,
 Containment Area, or Early Action Compact Area

The Project is Located in a PM 2.5 Area: Attainment Area, Nonattainment Area, or Maintenance Area

Is the Project Exempt Under 40 CFR 93.126 Table 2? YES or NO

Is the Project a Cause for Air Quality concern Under 40 CFR 93.123(b)(1)(i-v): YES or NO

Mobile Source of Air Toxics: This Project is Exempt, Low Potential MSAT Effects (Attach Qualitative Analysis), or
 High Potential MSAT Effects (Attached Qualitative Analysis)

Project is Exempt Under 40 CFR 93.126 or Qualifies as a CE Under 23 CFR 771.117(c): YES or NO

Air Quality Comments: The project is a pedestrian trail that is exempt under 40 CFR 93.126

Source(s):

NOISE

Noise Scoping Decision: The project is a pedestrian trail that does not require a noise analysis.

Barriers Under Consideration?

Noise Analysis Conduction: YES or NO - If "YES", Attach analysis

Noise Comments:

Source(s):

RIGHT OF WAY AND RELOCATIONS

Residential Relocations: YES or NO **If "YES", # of Relocations:**

Commercial Relocations: YES or NO **If "YES", # of Relocations:**

Non-Profit Relocations: YES or NO **If "YES", # of Relocations:**

Right of Way Acquisition Required? YES or NO **If "YES", Amount of Right of Way Acreage:** Approx 2.5 to 3 acres.

Date of Acquisition (Actual or Planned): 2/28/2022

Septic Systems, Wells, or Public Water Supplies: YES or NO

- If "YES", Indicate Which are Present & are There Any Impact to the Project as a Result?

Hazardous Materials: YES or NO

- If "YES", What are the Impacts? Old construction debris dumped along Flax Mill Creek. See comments below.

ROW and Relocations Comments: The trail will be placed on land owned by Hampton Roads Sanitation District and City of Newport News. The trail will become part of the recreational amenities managed by the City of Newport News, who will own an easement to build and maintain the trail. No relocations are required. There are no known wells, septic systems, or public water supplies in the project corridor.

A Phase I ESA was performed for the HRSD SWIFT project in January 2020. The area of the trail along the western side of the HRSD plant was noted as having old fill mixed with construction debris and empty 55-gallon drums dumped along the sideslope of the Flax Mill Creek drainageway. Although no exposed hazardous materials, oils, discoloration, or dead vegetation were observed, the assessing firm qualified the area as a potential REC. The recommendation from the assessing firm is to exhibit care during excavation activities and all excavated material be handled and disposed of in accordance with all applicable governmental regulations and guidelines. The entire Phase 1 report is provided as Attachment D.

Source(s): HRSD; City of Newport News Department of Parks, Recreation, and Tourism; Phase I Environmental Assessment Report for the James River Treatment Plant and SWIFT Facility Property (2020).

CUMULATIVE AND INDIRECT IMPACTS

Present or Reasonably Foreseeable Future Projects (Highway and Non-highway) in the Area: YES or NO

Identify Indirect (Secondary) and Cumulative Impacts:

Secondary impacts include disturbance to local wildlife populations by pedestrians using the trail. This disturbance is unlikely to noticeably affect local ecology.

Actions with a potential to have cumulative impacts in the area include future phases of the trail (to extend across city property), construction of a living shoreline to address severe shoreline erosion, and a new stormwater management system to collect and treat local surface runoff. Cumulative impacts associated with future phases of the trail would include additional wetland benefits due to the construction of living shoreline, wetland shading from the future trail boardwalks, placement of the trail on the City Farm property adjacent to potentially significant cultural areas identified as the county courthouse during the Colonial Period, and the removal of modern city buildings used primarily for storage.

Cumulative and Indirect Impacts Comments: The expansion of the trail onto city property will add boardwalks across tidal wetlands causing temporary impacts during construction and the placement of pile in wetlands as permanent impacts. A new stormwater system would be a long-term benefit to local water quality, and the cultural resources would be highlighted with educational/interpretive displays. The expansion of the trail will enhance recreational usage and create opportunities for the public to enjoy photography and scenic views of the Warwick River, as well as observe area wildlife. The living shoreline will reverse severe erosion that is occurring to a section of shoreline next to the HRSD plant. This element will enhance water quality, enhance fisheries habitat, and create additional tidal wetlands where none exists.

Source(s): City of Newport News

PUBLIC INVOLVEMENT

Substantial Controversy on Environmental Grounds: YES or NO

Public Hearing: YES or NO

If "YES", Type of Hearing: Virtual and In-Person

Legal and Public Commenting Period: [Click here to enter a date.](#) to [Click here to enter a date.](#)

Other Public Involvement Activities (Include Dates & Brief Description): The SWIFT project has involved extensive public involvement, all of which has included the proposed trail elements of the project. Specifically, HRSD conducted in-person open houses on December 7, 2019, and January 9, 2020. HRSD also conducted a virtual open house on December 10, 2020, followed by live (Zoom) question-and-answer on December 16, 2020. The events were advertised extensively, using press releases, Facebook posts, and NextDoor posts.

Public Involvement Comments: Comment cards were made available to public participants. Numerous cards were returned with comments. Copies of the comment cards can be made available upon request.

Source(s): N/A

COORDINATION

The following agencies were contacted during the development of this study: US Army Corps of Engineers, US Fish & Wildlife Service, Virginia Department of Wildlife Resources, Virginia Department of Conservation & Recreation Division of Natural Heritage, Virginia Department of Historic Resources.

Coordination Comments: Listed species information obtained via online portals and IPaC. A wetland jurisdictional determination was performed by the US Army Corps of Engineers. Cultural resources information obtained from past Phase I assessments and request for Section 106 review submitted to Virginia Department of Historic Resources (DHR). Followed up with a conference call with DHR with the assistance of a professional archaeologist to go through the cultural resources reports and provide an understanding of the project.

Source(s): See Attachments A, B, and C.

SITE VISITS

Were Any Site Visits Conducted for this Project? YES or NO

If "YES", Provide The Names, Titles, Dates, and Purpose of the Site Visit(s):

Scharlene Floyd
US Army Corps of Engineers
Purpose: Confirm limits of Section 404/10 jurisdiction
Date: March 2020

Site Visit Comments: Preliminary Jurisdictional Determination

Source(s): USACE letter dated April 7, 2020

I certify that a site inspection was conducted for each site involved in this CE Form and accompanying environmental analysis and to the best of my knowledge, the information provided in this CE Form is accurate based on available resource data.

Subgrantee: _____ **Date:** ____/____/_____
Subgrantee Signature

Edward G. Henefin, General Manager
Name, Title

Department of Conservation and Recreation Recommendation:

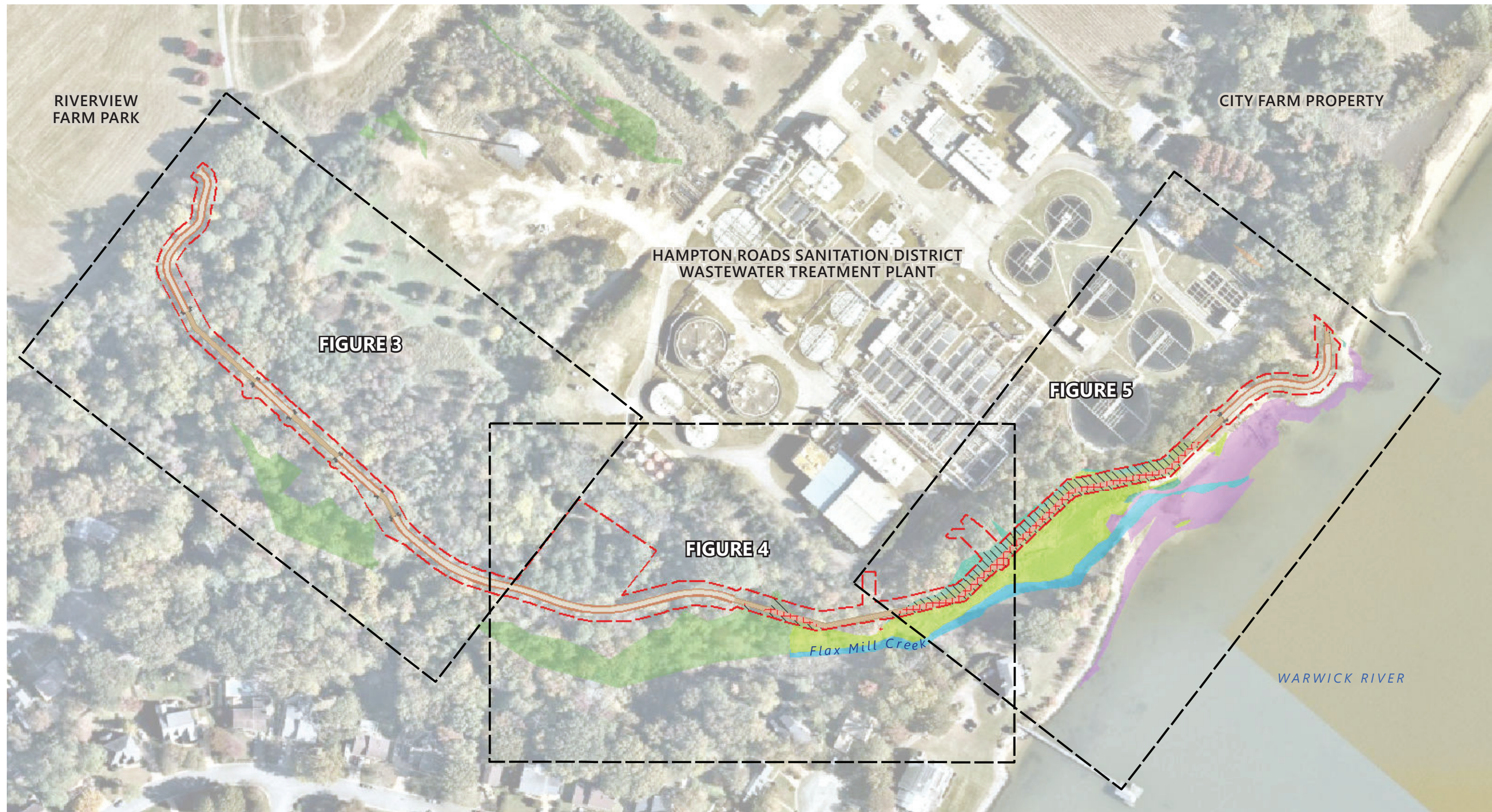
- This project meets the criteria for a Categorical exclusion pursuant to 40 CFR 1508.4 and 23 CFR 771.117 and will not result in significant impacts to the human or natural environment.**
- This project may meet the criteria for a Categorical exclusion pursuant to 40 CFR 1508.4 and 23 CFR 771.117. FHWA guidance is requested on this project.**

DCR: _____ **Date:** ____/____/_____
DCR Signature

Name, Title

Federal Highway Administration

Approved: _____ **Date:** ____/____/_____
FHWA Virginia Division Administrator



- | | | | |
|--|---------------------------------|--|--|
| | Limits of Disturbance (4.72 Ac) | | Estuarine Intertidal Emergent Wetland (E2EM) |
| | Permanent Impact (0.13 Ac) | | Estuarine Intertidal Scrub/Shrub Wetland (E2SS) |
| | Temporary Impact (0.28 Ac) | | Estuarine Intertidal Unconsolidated Shore Sand (E2US2) |
| | Boardwalk | | Estuarine Intertidal Unconsolidated Shore Mud (E2US3) |
| | Bridge Abutment | | Palustrine Emergent Wetland (PEM) |
| | Trail | | Palustrine Forested Wetland (PFO) |
| | Trail Shoulder | | Palustrine Scrub/Shrub Wetland (PSS) |
| | Property Line | | Intermittent Channel (R3) |
| | Contours (1') | | Tidal Channel |




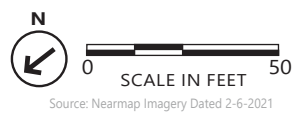
 Hampton Roads Sanitation District Trail
 Categorical Exclusion
 City of Newport News, Virginia

FIGURE 2
Wetland Impacts Map Overall

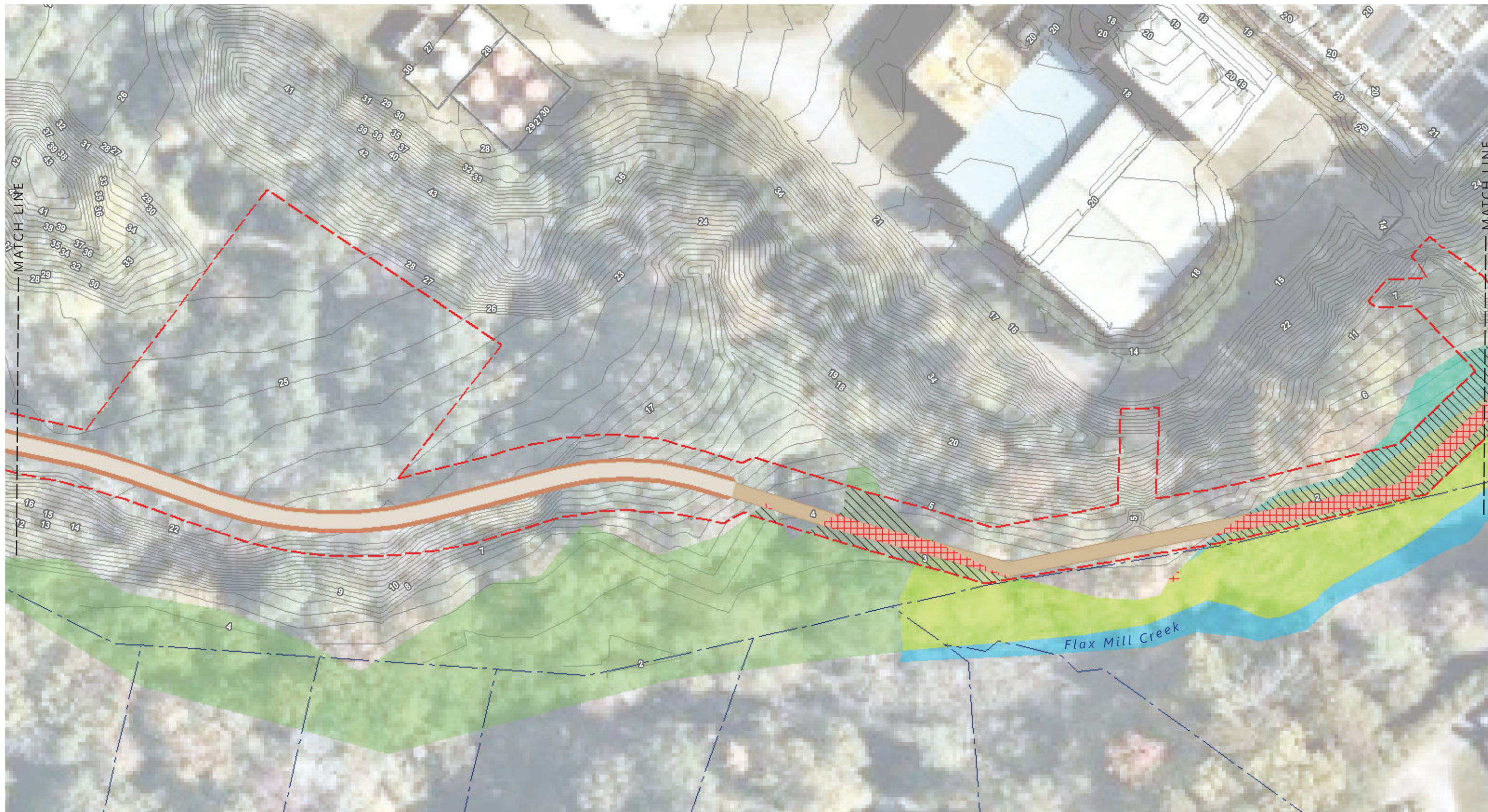


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|--|---------------------------------|--|--|
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| | Property Line | | Intermittent Channel (R3) |
| | Contours (1') | | Tidal Channel |



 **Hampton Roads Sanitation District Trail
Categorical Exclusion**
City of Newport News, Virginia

**FIGURE 3
Wetland Impacts Map**



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|--|---------------------------------|--|--|
| | Limits of Disturbance (4.72 Ac) | | Estuarine Intertidal Emergent Wetland (E2EM) |
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| | Temporary Impact (0.28 Ac) | | Estuarine Intertidal Unconsolidated Shore Sand (E2US2) |
| | Boardwalk | | Estuarine Intertidal Unconsolidated Shore Mud (E2US3) |
| | Bridge Abutment | | Palustrine Emergent Wetland (PEM) |
| | Trail | | Palustrine Forested Wetland (PFO) |
| | Trail Shoulder | | Palustrine Scrub/Shrub Wetland (PSS) |
| | Property Line | | Intermittent Channel (R3) |
| | Contours (1') | | Tidal Channel |



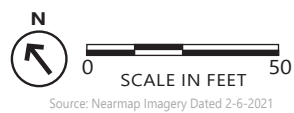
Hampton Roads Sanitation District Trail
Categorical Exclusion

City of Newport News, Virginia

FIGURE 4
Wetland Impacts Map



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|--|---------------------------------|--|--|
| | Limits of Disturbance (4.72 Ac) | | Estuarine Intertidal Emergent Wetland (E2EM) |
| | Permanent Impact (0.13 Ac) | | Estuarine Intertidal Scrub/Shrub Wetland (E2SS) |
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| | Bridge Abutment | | Palustrine Emergent Wetland (PEM) |
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| | Trail Shoulder | | Palustrine Scrub/Shrub Wetland (PSS) |
| | Property Line | | Intermittent Channel (R3) |
| | Contours (1') | | Tidal Channel |



Hampton Roads Sanitation District Trail
Categorical Exclusion

City of Newport News, Virginia

FIGURE 5
Wetland Impacts Map



Attachment A
Cultural Resources Information



November 18, 2021

Ref: 34690.01

Virginia Department of Historic Resources
Attention: Project Review
2801 Kensington Avenue
Richmond, VA 23221

Re: Flax Mill Creek Public Trail
Federally Funded Project, Section 106 Review
City of Newport News

Dear DHR Staff,

On behalf of the City of Newport News in cooperation with the Hampton Roads Sanitation District (HRSD), VHB submits this request for a Section 106 project review of a public trail that will be placed partially on city property and mostly on HRSD property near the Riverview Farm Park (Figure 1). The trail will begin near the northeast corner of the HRSD wastewater treatment plant and travel southward toward the Warwick River between Flax Mill Creek and the western edge of the wastewater treatment plant (Figure 2). The trail will veer to the southeast along the toe of the slope to the tidal marsh of Flax Mill Creek and will extend into the marsh via an elevated boardwalk. As the trail traverses along the Warwick River shoreline, the trail will come upon a steep bluff that is experiencing severe shoreline erosion. The trail will be landward of this bluff and extend to the HRSD property boundary at the southeast corner of the property. The total trail distance is approximately 2,400 linear feet. The City is seeking partial funding from the Federal Highway Administration (FHWA), which triggers the need for National Environmental Policy Act (NEPA) compliance.

Multiple phase I studies have been performed over the years for Riverview Park and the HRSD site. A summary of the archeological work with references is included with this package. We understand that no resources are known at the location of the proposed trail.

The VDHR project review form and several ground photos of the trail corridor are provided. If you need any additional information, please contact me and I will be glad to assist. Thank you for your review of this project.

351 McLaws Circle

Suite 3

Williamsburg, Virginia 23185

P 757.220.0500

F 757.903.2794

Engineers | Scientists | Planners | Designers

Virginia Department of Historic Resources
Ref: 34690.01
November 18, 2021
Page 2



Sincerely,

Vanasse Hangen Brustlin, Inc.

A handwritten signature in blue ink that reads "R. Timothy Davis". The signature is fluid and cursive, with the first name "R." and last name "Davis" clearly legible.

R. Timothy Davis, PWS

Senior Environmental Scientist
tdavis@vhb.com



\\vhb.com\gis\proj\Williamsburg\3-4690.00\HRSD_SWIFET_Prelim\Output\Scoping_Figures\34690_HRSD_Trail_Figures_incid

Project Location (2,424 LF)



Flax Mill Creek Trail Project

City of Newport News, Virginia



Source: USGS The National Map covered by USGS 7.5 minute Mulberry Island, Virginia Quadrangle.

FIGURE 1

Project Location Map (Quad)



 Project Location (2,424 LF)
 Parcel Boundary



Source: Nearmap Imagery dated February 6, 2021

 **Flax Mill Creek Trail Project**
City of Newport News, Virginia

FIGURE 2
Project Location Map (Aerial)

Project Review Application Form

This application must be completed for all projects that will be federally funded, licensed, or permitted, or that are subject to state review. Please allow 30 days from receipt for the review of a project. All information must be completed before review of a project can begin and incomplete forms will be returned for completion.

I. GENERAL PROJECT INFORMATION

1. Has this project been previously reviewed by DHR? YES ___ NO X DHR File # _____

2. Project Name Flax Mill Creek Public Trail

3. Project Location Newport News -----
City Town County

4. Specify Federal and State agencies involved in project (providing funding, assistance, license or permit). Refer to the list of agencies and abbreviations in the instructions.

Lead Federal Agency FHWA

Other Federal Agency -----

State Agency _____

5. Lead Agency Contact Information

Contact Person Mr. Kevin Jones, FHWA

Mailing Address 400 North 9th Street, Suite 750, Richmond, VA 23219

Phone Number 804-773-3328 Fax Number ---

Email Address kevin.jones@dot.gov

6. Applicant Contact Information

Contact Person VHB, Inc. c/o Tim Davis

Mailing Address 351 McLaws Circle Suite 3, Williamsburg, VA, 23185

Phone Number 757-279-2830 Fax Number 757-903-2794

Email Address tdavis@vhb.com

II. PROJECT LOCATION AND DESCRIPTION

7. USGS Quadrangle Name Mulberry Island, Virginia

8. Number of acres included in the project approx. 4 acres

MAIL COMPLETED FORM AND ATTACHMENTS TO:

Virginia Department of Historic Resources
Attention: Project Review
2801 Kensington Avenue, Richmond, VA 23221
www.dhr.virginia.gov

9. Have any architectural or archaeological surveys of the area been conducted? YES X
NO

If yes, list author, title, and date of report here. Indicate if a copy is on file at DHR.
See attachment

10. Are any structures 50 years old or older within or adjacent to the project area? YES
NO X

If yes, give date(s) of construction and provide photographs.

11. Does the project involve the rehabilitation, alteration, removal, or demolition of any structure, building, designed site (e.g. park, cemetery), or district that is 50 years or older? If yes, this must be explained fully in the project description. YES
NO X

12. Does the project involve any ground disturbance (e.g. excavating for footings, installing sewer or water lines or utilities, grading roads, etc.)? If yes, this must be explained fully in the project description. YES X
NO

13. DESCRIPTION: Attach a complete description of the project. Refer to the instructions for the required information.

To the best of my knowledge, I have accurately described the proposed project and its likely impacts.

R. Timothy Davis Agent 11/15/21
Signature of Applicant/Agent Date

The following information must be attached to this form:

- X Completed DHR Archives search
- X USGS map with APE shown
- X Complete project description
- X Any required photographs and plans

<p><u> </u> No historic properties affected <u> </u> No adverse effect</p> <p><u> </u> Additional information is needed in order to complete our review.</p> <p><u> </u> We have previously reviewed this project. A copy of our correspondence is attached.</p> <p>Comments: _____</p> <p>_____</p> <p>_____</p> <p>Signature _____ Date _____</p> <p>Phone number _____ DHR File # _____</p> <p><i>This Space For Department Of Historic Resources Use Only</i></p>

MAIL COMPLETED FORM AND ATTACHMENTS TO:
Virginia Department of Historic Resources
Attention: Project Review
2801 Kensington Avenue, Richmond, VA 23221
www.dhr.virginia.gov

Previous Archaeological Investigations at Riverview Farm Park and the James River Treatment Plant

The former City Prison Farm property (now Riverview Farm Park) and the James River Treatment Plant (JRPT) have been subjected to numerous archaeological investigations between 1992 and 2021. In 1992, the William and Mary Center for Archaeological Research (WMCAR) completed a Phase I cultural resources survey of the proposed property on behalf of the City of Newport News. This survey resulted in the identification of nine archaeological sites, most notably: Site 44NN0278, a large area comprising the archaeological remains of the occupation of Warwick Town during the eighteenth and nineteenth centuries, as well as a surviving section of Civil War earthworks; Site 44NN0280, a relatively small site adjacent to 44NN0278 which yielded evidence of nineteenth- and twentieth-century occupation; and Site 44NN0281, a multi-component site with evidence of prehistoric Native American occupation as well as historic activity in the late eighteenth and nineteenth centuries. Based on the results of this Phase I survey, the Virginia Department of Historic Resources (DHR) concurred that these sites were potentially eligible for inclusion in the National Register of Historic Places (National Register) under Criterion D for their evident research potential, and advised either avoidance or further investigation at the Phase II level (Higgins et al. 1992).

In 1993, JRIA completed a Phase II archaeological investigation of the principal Warwick Town site (44NN0278) on behalf of the City of Newport News. Based on the results of the Phase II investigation, the DHR concurred with JRIA's recommendation that Site 44NN0278 is eligible for listing in the National Register under both Criterion A (for its significant historic association with Warwick Town) and Criterion D (for its archaeological research potential) (McSherry and McCartney 1993).

In 1996, JRIA returned to Site 44NN0278 to conduct data-recovery level plowzone sampling of a portion of Site 44NN0278 which would be impacted by the proposed construction of a prefabricated gymnasium. The DHR concurred with JRIA's recommendation that the proposed construction project would not have an adverse effect on Site 44NN0278 (McDonald and McCartney 1996).

In 1999, Cultural Resources, Inc. (CRI) conducted limited archaeological testing to delineate the boundaries of Site 44NN0281. The results of which suggested that the site was far larger than originally mapped by WMCAR, extending throughout much of the existing pasture area, from City Farm Road east to the filled ravine, and from the barns area north to the tree line (McLearn 1999).

In 2017-2018, New South Associates, Inc., conducted archaeological investigations at Sites 44NN0278, 44NN0280, and 44NN0281. The investigations consisted of monitoring the demolition of the ca. 1930s prison building to identify any potential features associated with Warwick Town, geophysical surveys to identify possible feature locations, mechanical plowzone removal to expose features identified by the geophysical survey, and feature excavation. Artifacts associated with the Warwick Town period were recovered at Sites 44NN0278 and 44NN0281, and cultural features were exposed and excavated at Site 44NN0278. As excavations were underway, a significant Civil War Confederate encampment was identified at both sites and the investigation was expanded to include this component. Geophysical survey indicated that Site 44NN0280 had been significantly disturbed, so no archaeological investigation was conducted there (Pope et al. 2020).

In 2020, AECOM Technical Services (AECOM) completed a Phase I archaeological survey of approximately 32 acres within the JRTP. The Phase I survey resulted in the relocation of a portion of Site 44NN0281 within the APE, and the identification of two new sites, 44NN0359 and 44NN0360. The DHR concurred with AECOM's recommendation that these sites are not eligible for listing in the National Register. No evidence of previously recorded sites 44NN0282 and 44NN0283 was encountered (Stewart and Seibel 2020).

In May 2021, the James River Institute for Archaeology, Inc. (JRIA) completed a Phase I archaeological survey of approximately 1.75 acres in anticipation of proposed shoreline improvements at the James River Treatment Plant (JRTP) in the City of Newport News, Virginia. Based on the results of the Phase I survey, JRIA recommended that the proposed shoreline improvements will have no effect on significant archaeological resources and that no further investigations are warranted. To date, these recommendations have not been reviewed by the DHR (Laird et al. 2021).

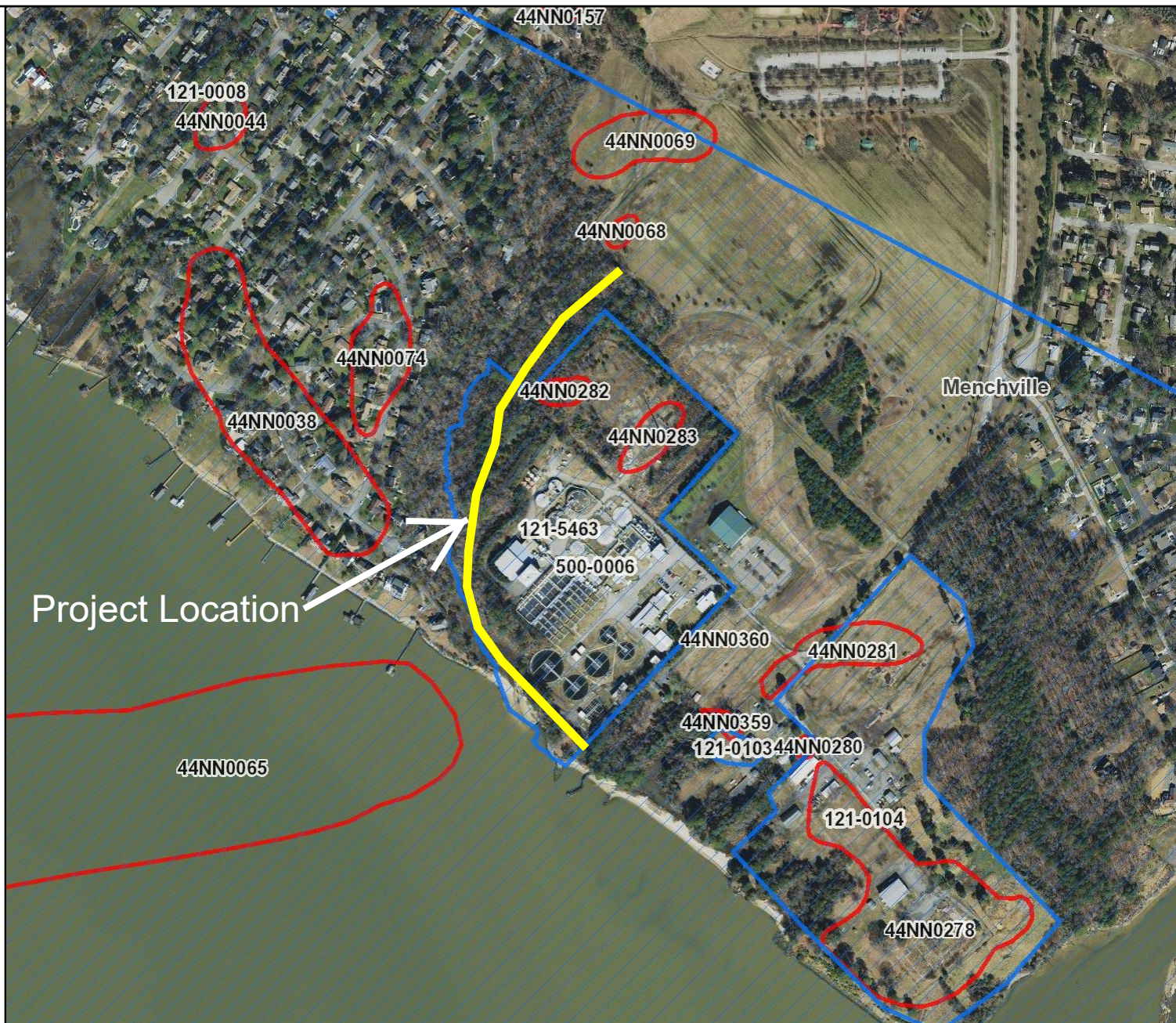
References

- Higgins, Thomas F., III, et al.
1992 *A Phase I Cultural Resource Survey of the Proposed Riverview Farm Park Property, City of Newport News, Virginia.* William and Mary Center for Archaeological Research, The College of William and Mary, Williamsburg, Virginia.
- Laird, Matthew R., et al.
2021 Phase I Archaeological Survey for Proposed Shoreline Improvements at the James River Treatment Plan, Newport News, Virginia. James River Institute for Archaeology, Inc., Williamsburg, Virginia.
- McClearen, Douglas C.
1999 *Summary of Archaeological Testing at 44NN281, Newport News, Virginia.* Cultural Resources, Inc., Williamsburg, Virginia.
- McDonald, Bradley M., and Martha W. McCartney
1996 *Phase III Plowzone Sampling of the Footprint of a Temporary Gymnasium at Site 44NN278, Newport News City Farm, Newport News, Virginia.* James River Institute for Archaeology, Inc., Williamsburg, Virginia.
- McSherry, Perry, and Martha McCartney
1993 *Phase II Archaeological Significance Evaluation of Site 44NN278, Riverview Farm Park, Newport News City Farm, Newport News, Virginia.* James River Institute for Archaeology, Inc., Williamsburg, Virginia.
- Pope, Natalie Adams et al.
2020 *History in Two Acts: Archaeological Examination of Warwicktowne and a Confederate Encampment on the Former City Farm.* New South Associates, Stone Mountain, Georgia.
- Stewart, Benjamin, and Scott Seibel
2020 *Phase I Archaeological Survey of the Sustainable Water Initiative for Tomorrow Improvements to the James River Treatment Plant, Newport News, Virginia.* AECOM Technical Services, Inc., Germantown, Maryland.



Legend

- Architecture Resources
- Architecture Labels
- Individual Historic District Properties
- Archaeological Resources
- Archaeology Labels
- DHR Easements
- USGS GIS Place names
- County Boundaries



Project Location



Feet



1:9,028 / 1"=752 Feet

Title: Flax Mill Creek Trail

Date: 11/15/2021

DISCLAIMER: Records of the Virginia Department of Historic Resources (DHR) have been gathered over many years from a variety of sources and the representation depicted is a cumulative view of field observations over time and may not reflect current ground conditions. The map is for general information purposes and is not intended for engineering, legal or other site-specific uses. Map may contain errors and is provided "as-is". More information is available in the DHR Archives located at DHR's Richmond office.

Notice if AE sites: Locations of archaeological sites may be sensitive the National Historic Preservation Act (NHPA), and the Archaeological Resources Protection Act (ARPA) and Code of Virginia §2.2-3705.7 (10). Release of precise locations may threaten archaeological sites and historic resources.



NO. 1

DESCRIPTION

Trail alignment at the northernmost end near the connection point with Riverview Farm Park.



NO. 2

DESCRIPTION

View of the landscape position of the trail just uphill from Flax Mill Creek, which is in the background of the photo.



NO. 3

DESCRIPTION

View of the tidal marsh at the confluence of Flat Mill Creek and the Warwick River where the trail boardwalk will be placed.



NO. 4

DESCRIPTION

View of shoreline adjacent to the HRSD treatment plant where the trail will be placed.

From: [Birge-wilson, Adrienne](#)
To: [R. Timothy Davis](#)
Cc: [Samantha Henderson](#); [Matthew Laird](#)
Subject: Re: [External] Flax Mill Creek Public Trail (DHR File No. 2021-5127)
Date: Wednesday, January 19, 2022 4:50:51 PM

Tim- We reviewed the additional information provided. The investigations and report generally meet applicable standards and guidelines and DHR accepts the report as a reasonable and good faith effort to identify historic properties. The Phase I survey documented largely disturbed soils or wetland areas within the APE which had not been surveyed in the past. Based on the information provided, it is DHR's opinion that no historic properties will be affected by the proposed project.

V/R,

Adrienne Birge-Wilson

Review and Compliance Division
Virginia Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221
(804) 482-6092
adrienne.birge-wilson@dhr.virginia.gov

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Also, please [Subscribe to DHR's Quarterly Newsletter](#)

On Wed, Jan 5, 2022 at 8:49 AM R. Timothy Davis <TDavis@vhb.com> wrote:

Great. I will send out a Teams meeting invite shortly.

TD

R. Timothy Davis

Senior Environmental Scientist

P 757.279.2830
www.vhb.com

From: Birge-wilson, Adrienne <adrienne.birge-wilson@dhr.virginia.gov>
Sent: Wednesday, January 5, 2022 8:47 AM
To: R. Timothy Davis <TDavis@VHB.com>
Cc: Samantha Henderson <samantha.henderson@dhr.virginia.gov>; Matthew Laird <mlaird@jriarchaeology.com>
Subject: Re: [External] Flax Mill Creek Public Trail (DHR File No. 2021-5127)

Tim- Sam and I are available at 9:30am Thursday.

V/R,

Adrienne Birge-Wilson

Review and Compliance Division
Virginia Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221
(804) 482-6092
adrienne.birge-wilson@dhr.virginia.gov

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On Tue, Jan 4, 2022 at 4:56 PM R. Timothy Davis <TDavis@vhb.com> wrote:

Adrienne and Sam,

This trail project has several components that probably warrant the need for a conference call with map sharing. I wonder if you both can be available sometime on Thursday? Matt Laird has been reviewing data from old reports, and he will also be on the call to help facilitate the discussion. I can set up a Teams meeting so that we can share maps with you. Also, Matt is also going to be forwarding via email the Phase I report for the shoreline work that you requested.

I appreciate your assistance with this project. Let me know about your availability on Thursday.

Best regards,

Tim

R. Timothy Davis
Senior Environmental Scientist

P 757.279.2830

From: Birge-wilson, Adrienne <adrienne.birge-wilson@dhr.virginia.gov>
Sent: Wednesday, December 29, 2021 1:38 PM
To: R. Timothy Davis <TDavis@VHB.com>
Cc: Samantha Henderson <samantha.henderson@dhr.virginia.gov>
Subject: [External] Flax Mill Creek Public Trail (DHR File No. 2021-5127)

Timothy,

I received your submission for review on 12/5/21. DHR offers the following comments:

The proposed trail project is seeking Federal Highways Administration funding and is subject to compliance with Section 106 of the NHPA. There are several documented significant archaeological resources in the vicinity of the proposed trail, including the former Warwicktowne (site 44NN0281), a property previously determined potentially eligible for listing in the NRHP. Additionally while the HRSD facility and surrounding Riverview Farm Park have been surveyed for archaeological resources at several points in time, based on DHR's records some areas of the proposed trail have not been subjected to a Phase I archaeological survey. DHR understands that some portions of the proposed trail location are unlikely to contain intact archaeological resources due to their location and topography.

Additionally, DHR understands that Phase I investigations may have been conducted in 2021 for shoreline restoration work in the vicinity of this project but this survey has not been submitted for DHR's review to date. Prior to making any recommendations regarding the need for further archaeological survey or potential effects to archaeological resources, DHR would like to request more information about the 2021 survey. Does this survey area overlap with any portion of the proposed trail? If so, DHR would like the opportunity to review this survey.

V/R,

Adrienne Birge-Wilson
Review and Compliance Division
Virginia Department of Historic Resources
2801 Kensington Avenue
Richmond, VA 23221
(804) 482-6092
adrienne.birge-wilson@dhr.virginia.gov

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Vanasse Hangen Brustlin, Inc. | info@vhb.com



Attachment B

Wetland Jurisdictional Determination Information

Klages, Jennifer

From: Arrance, Keven <karrance@hazenandsawyer.com>
Sent: Tuesday, April 28, 2020 6:44 AM
To: Floyd, Scharlene A CIV USARMY CENAO (US); LZuravnsky@hrsd.com
Cc: Klages, Jennifer; Davis, Alan
Subject: [EXTERNAL] RE: NAO-2020-00386_PJD_ Newport News_HRSD
Attachments: HRSD_NN_ PJD Form_NAO-20-00386_signed1.pdf

Good morning, Scharlene!

Please find attached the PJD form with HRSD signature. If there is anything further you need from us to finalize and close out the JD request on your end, please let me know.

Thank you for your assistance on this request. Have a great day!

Ms. Keven Arrance

Senior Principal Scientist | Hazen and Sawyer
4011 WestChase Blvd., Suite 500, Raleigh, NC 27607
919 863-9350 (direct); 919 522-4269 (mobile) karrance@hazenandsawyer.com | hazenandsawyer.com

-----Original Message-----

From: Floyd, Scharlene A CIV USARMY CENAO (US) <Scharlene.A.Floyd@usace.army.mil>
Sent: Tuesday, April 7, 2020 3:15 PM
To: LZuravnsky@hrsd.com; Arrance, Keven <karrance@hazenandsawyer.com>
Subject: NAO-2020-00386_PJD_ Newport News_HRSD

External Email - think before you click

Please find attached a pdf copy of the signed letter of confirmation for extent of jurisdictional waters on property located in Newport News, VA. Also attached the delineation map for reference, the PJD form, administrative appeals form and the spi form.

Please review the PJD form for accuracy, sign and return to me within 30 days. Thank you.

And, was curious to see the PJD Form filled out and signed by the applicant.

Not sure of the reasoning behind that...but that is the Corps job. Realistically, the applicant was confirming the agent's work???? No biggee, just a wasted step, but I appreciated the info!

Respectfully,

Scharlene A. Floyd
Environmental Scientist
Norfolk District US Army Corps of Engineers / REG - Southern Section Enforcement and Compliance
Phone: 757.201.7367
Fax: 757.201.7678

Email: scharlene.a.floyd@usace.army.mil

The Norfolk District is committed to providing the highest level of support to the public. In order for us to better serve you, we would appreciate you completing our Customer Satisfaction Survey located at https://urldefense.proofpoint.com/v2/url?u=https-3A__nam12.safelinks.protection.outlook.com_-3Furl-3Dhttp-253A-252F-252Fcorpsmapu.usace.army.mil-252Fcm-5Fapex-252Ff-253Fp-253D136-253A4-253A0-26amp-3Bdata-3D02-257C01-257Ckarrance-2540hazenandsawyer.com-257C0294789b72f14b2dfe1808d7db284217-257C083fc4d272ad412bae7d6b81b83916dd-257C0-257C1-257C637218840003251245-26amp-3Bsdata-3DP0D4oBzsG4-252FAzVa4HLIWnDhDqhAS4WeB23H4VxPvvoY-253D-26amp-3Breserved-3D0&d=DwIFAw&c=TQzoP61-bYDBLzNd0XmHrw&r=ThmEieGPUC0nXVI2YW4xrjIXZpve49MpmKD5ghU6AeU&m=qSmsj0fIOW1x7SGkwuz2_umdF4KAvvH_zjWT-tK9gyo&s=uy-fj3aumxJzdXkUzE7ZPLNidIkcvHFgdB6TwUpG9is&e=
We value your comments and appreciate your taking the time to complete the survey.

This email and any attachments with it are privileged and confidential and are intended solely for those individual(s) to whom they are addressed. If you have received this email in error or are not the addressee, please immediately delete it and notify the sender. Thank you

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: Apr. 7, 2020

B. NAME AND ADDRESS OF PERSON REQUESTING PJD:

Hazen and Sawyer - Keven Arrance

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

NAO-2020-00386 / City of Newport News

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: Virginia

County/parish/borough:

City: Newport News

Center coordinates of site (lat/long in degree decimal format): Location: 37.083349 N -76.534009W

Lat.: xx.xxx° Long.: yy.yyy°

Universal Transverse Mercator:

Name of nearest waterbody: Warwick River

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: April 7, 2020

Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
overall	37.083349N	-76.534009E	~0.028 ac PEM	See Delin Exhibits	Section 404
overall	37.086997N	-76.532355E	~0.692 ac PFO	See Delin Exhibits	Section 404
overall	37.085122N	-76.535466E	~1.063 ac E2EM	See Delin Exhibits	
overall	37.08474N	-76.53522E	~ 900 lf stream	See Delin Exhibits	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
Map: See PJD ltr.
- Data sheets prepared/submitted by or on behalf of the PJD requestor.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report. Rationale: _____.
- Data sheets prepared by the Corps: _____.
- Corps navigable waters' study: _____.
- U.S. Geological Survey Hydrologic Atlas: _____.
- USGS NHD data.
- USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: Mulberry Island VA
- Natural Resources Conservation Service Soil Survey. Citation: ArcGIS.
- National wetlands inventory map(s). Cite name: ArcGIS.
- State/local wetland inventory map(s): _____.
- FEMA/FIRM maps: _____.
- 100-year Floodplain Elevation is: _____. (National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): Various years
or Other (Name & Date): _____.
- Previous determination(s). File no. and date of response letter: _____.
- Other information (please specify): LIDAR.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Scharlene Floyd

Digitally signed by Scharlene
Floyd
Date: 2020.04.07 14:24:58 -04'00'

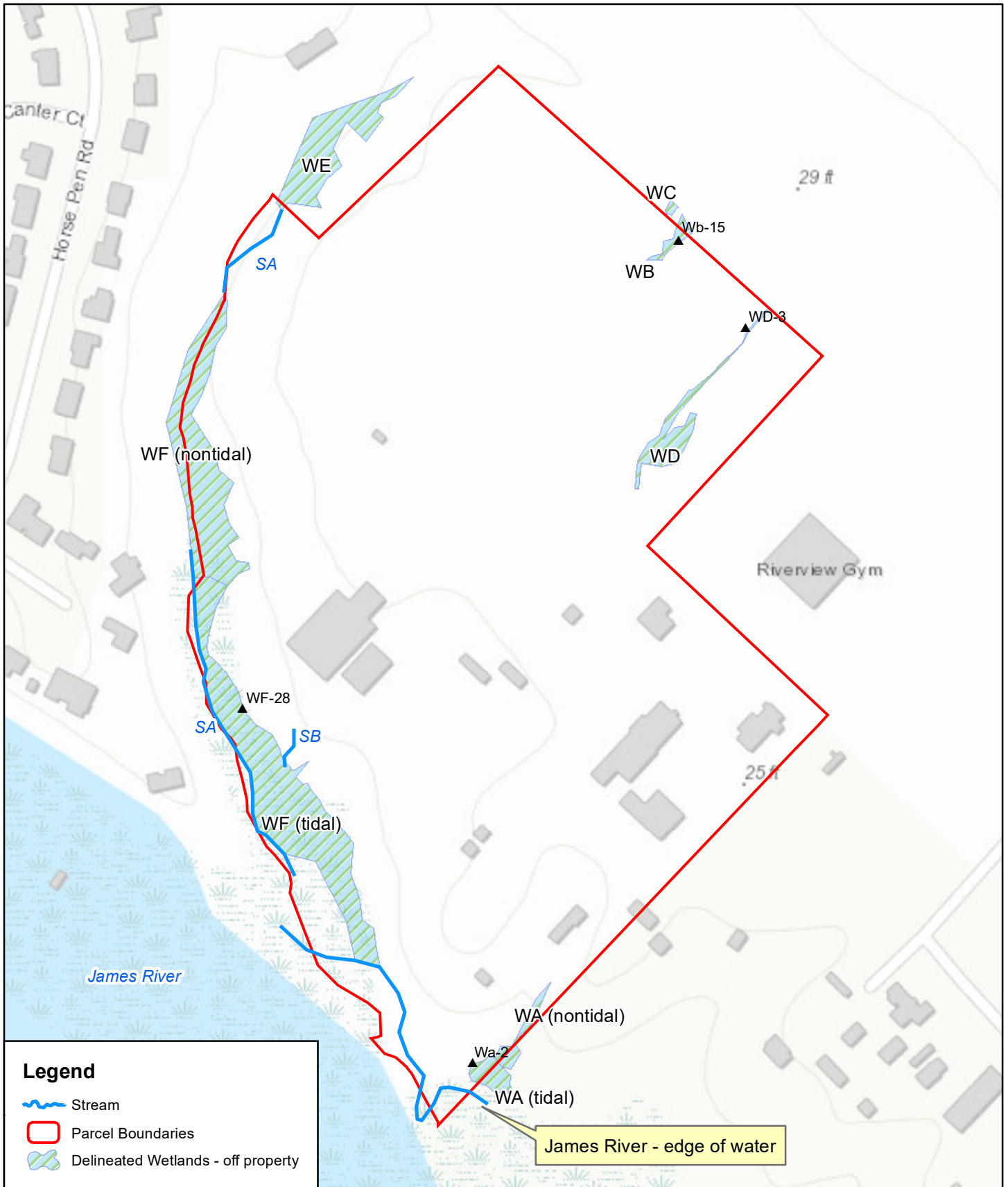
Signature and date of
Regulatory staff member
completing PJD






Digitally signed by Lauren Zuravnsky
DN: cn=Lauren Zuravnsky, o=HRSD,
ou, email=lzuravnsky@hrsd.com,
c=US
Date: 2020.04.27 17:59:47 -04'00'

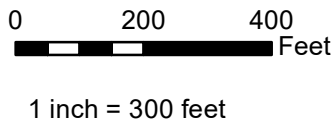
Signature and date of
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.



Legend

-  Stream
-  Parcel Boundaries
-  Delineated Wetlands - off property



JURISDICTIONAL WATERS OF THE UNITED STATES

James River Treatment Plant
 Improvements and SWIFT Facility
 City Farm Rd, Newport News, VA

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Eddie Abisaad_NN_RK&K	File Number: NAO-2020-00596	Date: 4-3-2020
Attached is:		See Section below
<input type="checkbox"/>	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
<input type="checkbox"/>	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
<input type="checkbox"/>	PERMIT DENIAL	C
<input type="checkbox"/>	APPROVED JURISDICTIONAL DETERMINATION	D
<input checked="" type="checkbox"/>	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.

NAO-2
D FOR

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the Norfolk District Engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations (JD) associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the Norfolk District Engineer. Your objections must be received by the Norfolk District Engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the Norfolk District Engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the Norfolk District Engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the Norfolk District Engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the North Atlantic Division Engineer, ATTN: CENAD-PD-PSD-O, Fort Hamilton Military Community, Building 301, General Lee Avenue, Brooklyn, NY 11252-6700. This form must be received by the North Atlantic Division Engineer within 60 days of the date of this notice with a copy furnished to the Norfolk District Engineer.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the North Atlantic Division Engineer, ATTN: CENAD-PD-PSD-O, Fort Hamilton Military Community, Building 301, General Lee Avenue, Brooklyn, NY 11252-6700. This form must be received by the North Atlantic Division Engineer within 60 days of the date of this notice with a copy furnished to the Norfolk District Engineer.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the North Atlantic Division Engineer, ATTN: CENAD-PD-PSD-O, Fort Hamilton Military Community, Building 301, General Lee Avenue, Brooklyn, NY 11252-6700. This form must be received by the North Atlantic Division Engineer within 60 days of the date of this notice with a copy furnished to the Norfolk District Engineer.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:
U.S. Army Corps of Engineers, Norfolk District
ATTN: Scharlene Floyd (CENAO-WRR-S)
803 Front Street – Norfolk, VA 23510
Telephone: 757-201-7367
Email: scharlene.a.floyd@usace.army.mil

If you only have questions regarding the appeal process you may also contact:
Mr. James W. Haggerty
Administrative Appeals Review Officer
North Atlantic Division, Corps of Engineers Fort Hamilton
Military Community Bldg. 301, General Lee Avenue Brooklyn,
NY 11252-6700
Telephone: (347) 370-4650
Email: james.w.haggerty@usace.army.mil

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.

Date:

Telephone number:



DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
FORT NORFOLK
803 FRONT STREET
NORFOLK VA 23510-1011

April 7, 2020

PRELIMINARY JURISDICTIONAL DETERMINATION

Southern Virginia Regulatory Section
NAO-2020-00386 (Warwick River)

Hampton Roads Sanitation District
1434 Air Rail Avenue
Virginia Beach, VA 23455-3002
ATTN: Lauren Zuravnsky

Dear Ms. Zuravnsky:

This letter is in regard a request for a preliminary jurisdictional determination for waters of the U.S. (including wetlands) on a ~ 31 acre parcel, located in the City of Newport News, Virginia. The request was made by your representative Hazen and Sawyer / Keven Arrance.

The mapped delineation entitled, "Jurisdictional Waters of the US" dated January 15-17, 2020, prepared and provided by your representative shows the extent of jurisdictional waters within the proposed project limits. (*copy attached*). The basis for this delineation includes application of the Corps' 1987 Wetland Delineation Manual *Regional Supplement(s) to the Corps of Engineers Wetland Delineation Manual* and the positive indicators of wetland hydrology, hydric soils, and hydrophytic vegetation and the presence of an ordinary high water mark. This letter is not confirming the Cowardin classifications of these aquatic resources.

The Norfolk District has relied on the information and data provided by the applicant or agent. If such information and data subsequently prove to be materially false or materially incomplete, this verification may be suspended or revoked, in whole or in part, and/or the Government may institute appropriate legal proceedings.

Discharges of dredged or fill material, including those associated with mechanized landclearing, into waters and/or wetlands on this site may require a Department of the Army permit and authorization by state and local authorities including a Virginia Water Protection Permit from the Virginia Department of Environmental Quality (DEQ), a permit from the Virginia Marine Resources Commission (VMRC) and/or a permit from your local wetlands board. This letter is a confirmation of the Corps preliminary jurisdiction for the waters and/or wetlands on the subject property and does not authorize any work in these areas. Please obtain all required permits before starting work in the delineated waters/wetland areas.

This is a preliminary jurisdictional determination and is therefore not a legally binding determination regarding whether Corps jurisdiction applies to the waters or wetlands in question. Accordingly, you may either consent to jurisdiction as set out in this preliminary jurisdictional determination and the attachments hereto if you agree with the

determination, or you may request and obtain an approved jurisdictional determination. *“This preliminary jurisdictional determination and associated wetland delineation map may be submitted with a permit application.”*

Enclosed is a copy of the “Preliminary Jurisdictional Determination Form”. Please review the document, sign, and return one copy to Scharlene Floyd either via email (scharlene.a.floyd@usace.army.mil) or via standard mail to US Army Corps of Engineers, Regulatory Office, and ATTN: Scharlene Floyd, 803 Front Street Norfolk, Virginia 23510 within 30 days of receipt and keep one for your records. This delineation of waters and/or wetlands can be relied upon for no more than five years from the date of this letter. New information may warrant revision.

If you have any questions, please contact Scharlene Floyd, either via telephone at (757) 201-7367 or via email at scharlene.a.floyd@usace.army.mil

Sincerely,

Scharlene Floyd Digitally signed by Scharlene Floyd
Date: 2020.04.07 14:44:21 -04'00'

Scharlene Floyd
Project Manager, Southern Virginia
Regulatory Section

Enclosure(s):
Appeals Form
Delineation Map and Delineated Features
Preliminary Jurisdictional Determination Form
Supplemental Information Sheet

Cc: Agent
Virginia Department of Environmental Quality



Attachment C
Listed Species Information



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
Phone: (804) 693-6694 Fax: (804) 693-9032
<http://www.fws.gov/northeast/virginiafield/>

In Reply Refer To:

December 03, 2021

Consultation Code: 05E2VA00-2022-SLI-1013

Event Code: 05E2VA00-2022-E-03448

Project Name: HRSD Trail

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

To Whom It May Concern:

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

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

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

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

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

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

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>;

<http://www.towerkill.com>; and

[http://](http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html)

www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

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

Official Species List

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

This species list is provided by:

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

Project Summary

Consultation Code: 05E2VA00-2022-SLI-1013

Event Code: Some(05E2VA00-2022-E-03448)

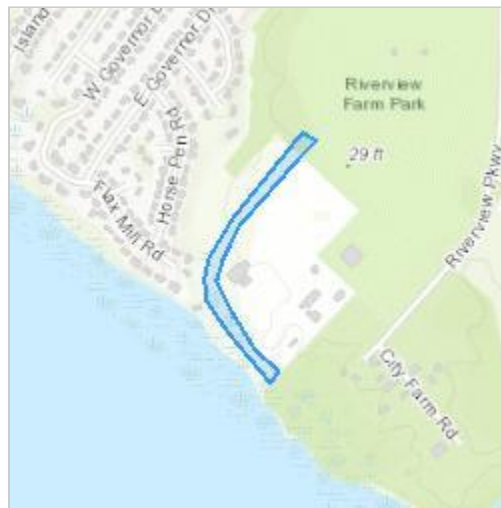
Project Name: HRSD Trail

Project Type: RECREATION CONSTRUCTION / MAINTENANCE

Project Description: Public trail, 2,200 feet long, in Newport News that runs along Warwick River shoreline to be built in 2021

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.085805199999996,-76.53544132879682,14z>



Counties: Newport News County, Virginia

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

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

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

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

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

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

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

USFWS National Wildlife Refuge Lands And Fish Hatcheries

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

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



37,05,13.8 -76,31,57.9 is the Search Point
Submit Cancel

back Refresh Browser Page
Map Click Pan Zoom Out Screen Size Small Size Big Help

Search Point
 Change to "clicked" map point
 Fixed at 37,05,13.8 -76,31,57.9

Show Position Rings
 Yes No
1 mile and 1/4 mile at the Search Point

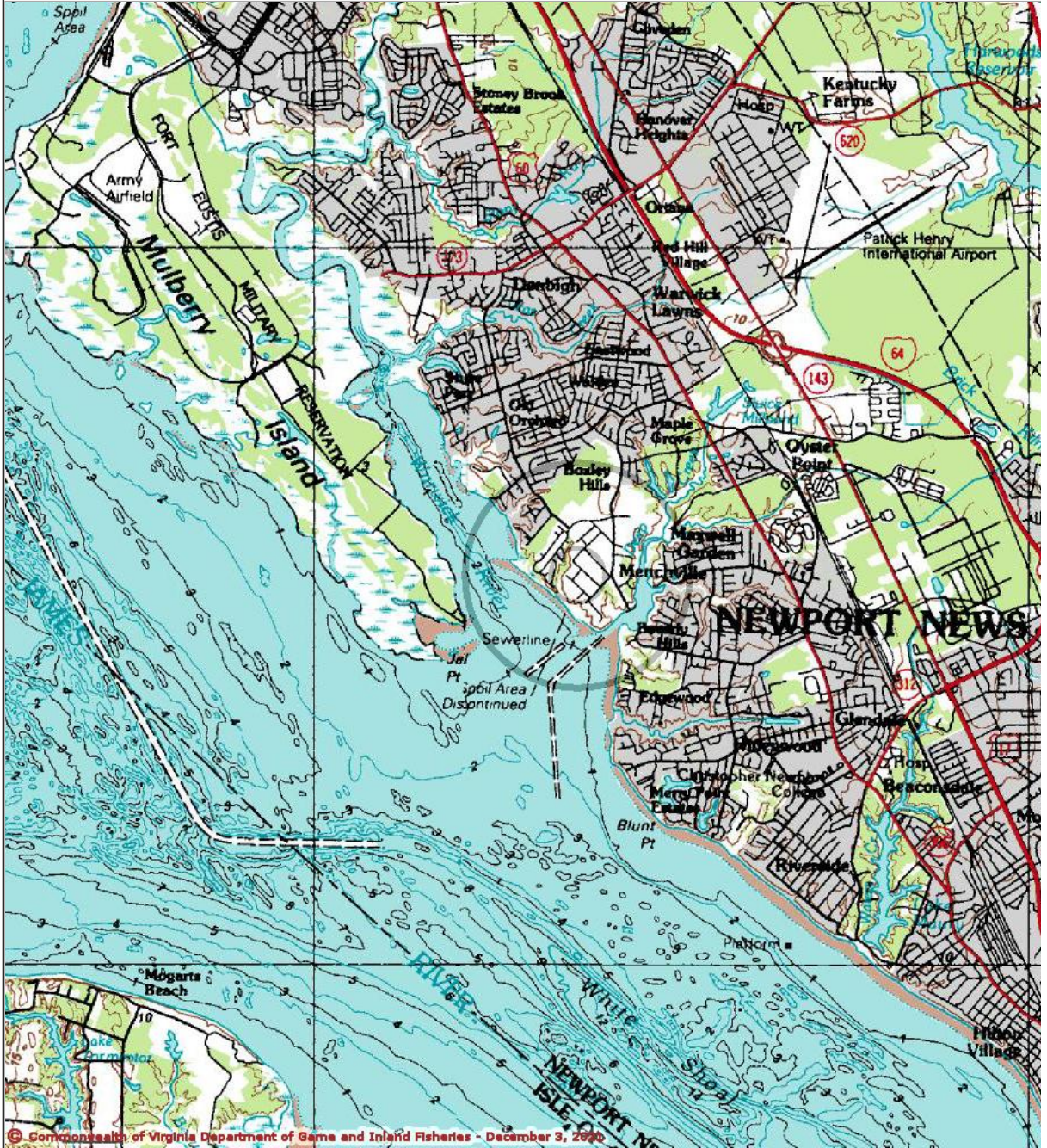
Show Search Area
 Yes No
2 Search distance miles radius

Search Point is at map center

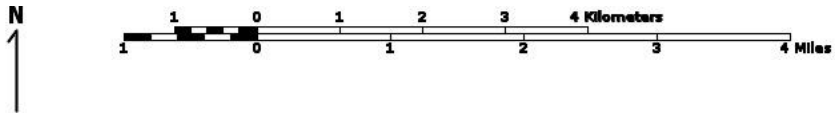
Base Map Choices
Topography

Map Overlay Choices
Current List: Position

Map Overlay Legend
 Position Rings
1 mile and 1/4 mile at the Search Point



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Point of Search 37,05,13.8 -76,31,57.9
Map Location 37,05,13.8 -76,31,57.9

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

Base Map source: USGS 1:100,000 topographic maps (see Microsoft.terraserwer-usa.com for details)



[Home](#) » [By Map](#) » VaFWIS GeographicSelect Options

Fish and Wildlife Information Service

- Options
- Species Information
 - By Name
 - By Land Management
 - References
- Geographic Search
 - By Map
 - By Coordinates
 - By Place Name
- Database Search
- Help
- Logout

Show This Page as Printer Friendly

VaFWIS Initial Project Assessment Report Compiled on 12/3/2021, 12:51:10 PM

Known or likely to occur within a **2 mile radius around point 37,05,13.8 -76,31,57.9** in **700 Newport News City, VA** [View Map of Site Location](#)

449 Known or Likely Species ordered by Status Concern for Conservation (displaying first 28) (28 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
030074	FESE	Ia	Turtle, Kemp's ridley sea	Lepidochelys kempii		BOVA
010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus		BOVA
030075	FESE	Ic	Turtle, leatherback sea	Dermochelys coriacea		BOVA
030071	FTST	Ia	Turtle, loggerhead sea	Caretta caretta	Yes	BOVA,SppObs
040144	FTST	Ia	Knot, red	Calidris canutus rufa		BOVA
040110	FTSE	Ia	Rail, eastern black	Laterallus jamaicensis jamaicensis		BOVA,Habitat
050022	FTST	Ia	Bat, northern long-eared	Myotis septentrionalis		BOVA
040120	FTST	Ila	Plover, piping	Charadrius melodus		BOVA
050020	SE	Ia	Bat, little brown	Myotis lucifugus		BOVA
050027	SE	Ia	Bat, tri-colored	Perimyotis subflavus		BOVA
030013	SE	Ila	Rattlesnake, canebrake	Crotalus horridus	Yes	BOVA,Habitat,SppObs
040096	ST	Ia	Falcon, peregrine	Falco peregrinus		BOVA
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus		BOVA
040379	ST	Ia	Sparrow, Henslow's	Centronyx henslowii		Habitat
020044	ST	Ila	Salamander, Mabee's	Ambystoma mabeei		BOVA,Habitat
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
030067	CC	Ila	Terrapin, northern diamond-backed	Malaclemys terrapin terrapin		BOVA,Habitat
030063	CC	IIla	Turtle, spotted	Clemmys guttata		BOVA
040052		Ila	Duck, American black	Anas rubripes		BOVA
040033		Ila	Egret, snowy	Egretta thula		BOVA
040029		Ila	Heron, little blue	Egretta caerulea caerulea		BOVA
040036		Ila	Night-heron, yellow-crowned	Nyctanassa violacea violacea	Yes	BOVA,SppObs
040192		Ila	Skimmer, black	Rynchops niger		BOVA
040181		Ila	Tern, common	Sterna hirundo		BOVA
040320		Ila	Warbler, cerulean	Setophaga cerulea		BOVA
040140		Ila	Woodcock, American	Scolopax minor		BOVA
040203		IIb	Cuckoo, black-billed	Coccyzus erythrophthalmus		BOVA
040105		IIb	Rail, king	Rallus elegans		BOVA

To view All 449 species [View 449](#)

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

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

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

[View Map of All Query Results from All Observation Tables](#)

Bat Colonies or Hibernacula: **Not Known**

Anadromous Fish Use Streams (2 records)

[View Map of All Anadromous Fish Use Streams](#)

Stream ID	Stream Name	Reach Status	Anadromous Fish Species			View Map
			Different Species	Highest TE *	Highest Tier **	
C92	James River 1	Confirmed	6		IV	Yes
P176	Warwick river	Potential	0			Yes

Impediments to Fish Passage (1 records)

[View Map of All Fish Impediments](#)

ID	Name	River	View Map
768	SLUICE DAM	DEEP CREEK	Yes

Colonial Water Bird Survey (4 records)

[View Map of All Query Results Colonial Water Bird Survey](#)

Colony_Name	N Obs	Latest Date	N Species			View Map
			Different Species	Highest TE *	Highest Tier **	
Urban, Mulberry Island, Newport News	1	May 4 2013	2			Yes
Western Shore, Mulberry Island, Newport News	1	May 4 2013	1			Yes
Mulberry Island 4	1	May 4 2003	1			Yes
Mulberry Island 3	1	May 3 2003	1			Yes

Displayed 4 Colonial Water Bird Survey

Threatened and Endangered Waters

N/A

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

are present. [View Map of Bald Eagle Concentration Areas and Roosts](#)

(3 records)

BECAR ID	Observation Year	Authority	Type	Comment
48	2006 - 2007	Center for Conservation Biology at the College of William and Mary/Virginia Commonwealth University	Summer Concentration Area	Eagle_use
51	2006 - 2007	Center for Conservation Biology at the College of William and Mary/Virginia Commonwealth University	Winter Concentration Area	Eagle_use
52	2006 - 2007	Center for Conservation Biology at the College of William and Mary/Virginia Commonwealth University	Winter Concentration Area	Eagle_use

Bald Eagle Nests (6 records)

[View Map of All Query Results Bald Eagle Nests](#)

Nest	N Obs	Latest Date	DGIF Nest Status	View Map
NN0301	2	May 1 2003	Unknown	Yes
NN0401	9	Apr 28 2008	HISTORIC	Yes
NN0701	4	Apr 28 2008	HISTORIC	Yes
NN0801	2	Apr 26 2008	Unknown	Yes
NN0802	2	Apr 26 2008	Unknown	Yes
NN9801	7	Apr 24 2000	HISTORIC	Yes

Displayed 6 Bald Eagle Nests

Habitat Predicted for Aquatic WAP Tier I & II Species

N/A

Habitat Predicted for Terrestrial WAP Tier I & II Species (6 Species)

[View Map of Combined Terrestrial Habitat Predicted for 6 WAP Tier I & II Species Listed Below](#)

ordered by Status Concern for Conservation

BOVA Code	Status*	Tier**	Common Name	Scientific Name	View Map
040110	FTSE	Ia	Rail, eastern black	Laterallus jamaicensis jamaicensis	Yes
030013	SE	Ila	Rattlesnake, canebrake	Crotalus horridus	Yes
040379	ST	Ia	Sparrow, Henslow's	Centronyx henslowii	Yes
020044	ST	Ila	Salamander, Mabee's	Ambystoma mabeei	Yes
030067	CC	Ila	Terrapin, northern diamond-backed	Malaclemys terrapin terrapin	Yes
040186		IIla	Tern, least	Sternula antillarum	Yes

Public Holdings: (1 names)

Name	Agency	Level
Fort Eustis Military Reservation	U.S. Dept. of Army	Federal

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If you have difficulty reading or accessing documents, please [Contact Us](#) for assistance.

Map projection is UTM Zone 18 NAD 1983 with left 355775 and top 4113642. Pixel size is 16 meters . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 1000 columns by 1000 rows for a total of 1000000 pixels. The map display represents 16000 meters east to west by 16000 meters north to south for a total of 256.0 square kilometers. The map display represents 52502 feet east to west by 52502 feet north to south for a total of 98.8 square miles.

Topographic maps and Black and white aerial photography for year 1990+- are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network.

Shaded topographic maps are from TOPO! ©2006 National Geographic
<http://www.national.geographic.com/topo>

All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries.

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The CENTER for
CONSERVATION
BIOLOGY

HRSD Trail CCB Mapping Portal



Layers: VA Eagle Nest Locator

Map Center [longitude, latitude]: [-76.52792930603027, 37.08496773799787]

Map Link:

https://ccbbirds.org/maps/#layer=VA+Eagle+Nest+Locator&zoom=14&lat=37.08496773799787&lng=-76.52792930603027&legend=legend_tab_7c321b7e-e523-11e4-aaa0-0e0c41326911&base=Street+Map+%28OSM%2FCarto%29

Report Generated On: 12/03/2021

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

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

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

Endangered Species Act Review

DETERMINATION KEY

FHWA, FRA, FTA Programmatic Consultation for Transportation Projects affecting NLEB or Indiana Bat

Release date: April 22, 2021

You completed the latest version of this key, published December 29, 2020, and reached a determination of not applicable for species or critical habitats covered by the key.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the threatened **Northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should only be used to verify project applicability with the Service's February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects. The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

Species covered by this key

This key covers the following species expected to occur in this project area:

Northern Long-eared Bat *Myotis septentrionalis*

The following species, also covered by this key, are not expected to occur in this project area:

Critical habitats covered by this key

This key covers the critical habitats for the following species expected to occur in this project area:

None

For more information about this determination key, including a list of all potential questions, refer to the [detailed overview](#).

Qualification interview

1. Is the project within the range of the Indiana bat^[1]?

[1] See [Indiana bat species profile](#)

Automatically answered

No

2. Is the project within the range of the Northern long-eared bat^[1]?

[1] See [Northern long-eared bat species profile](#)

Automatically answered

Yes

3. Which Federal Agency is the lead for the action?

A) Federal Highway Administration (FHWA)

4. Are *all* project activities limited to non-construction^[1] activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)

[1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting.

No

5. Does the project include *any* activities that are **greater than** 300 feet from existing road/rail surfaces^[1]?

[1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

Yes

6. Are *all* project activities **greater than** 300 feet from existing road/rail surfaces^[1]?

[1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

Yes

7. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum^[1]?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

8. Is the project located **within** a karst area?

No

9. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the [national consultation FAQs](#).

Yes

10. Will the project remove *any* suitable summer habitat^[1] and/or remove/trim any existing trees **within** suitable summer habitat?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

Yes

11. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail?

No

12. Have presence/probable absence (P/A) summer surveys^{[1][2]} been conducted^{[3][4]} **within** the suitable habitat located within your project action area?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.

[3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.

[4] Negative presence/probable absence survey results obtained using the [summer survey guidance](#) are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

No

13. Does the project include activities **within documented NLEB habitat**^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

14. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors?

Yes

15. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?

B) During the inactive season

16. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces?

No

17. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

No

18. Will *any* tree trimming or removal occur **greater than** 300 feet from existing road/rail surfaces?

Yes

19. Are *all* trees that are being removed clearly demarcated?

Yes

20. Will the removal of habitat or the removal/trimming of trees include installing new or replacing existing **permanent** lighting?

No

21. Does the project include maintenance of the surrounding landscape at existing facilities (e.g., rest areas, stormwater detention basins)?

No

22. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

No

23. Does the project include slash pile burning?

No

24. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?

No

25. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

No

26. Will the project involve the use of **temporary** lighting *during* the active season?

No

27. Will the project install new or replace existing **permanent** lighting?

No

28. Does the project include percussives or other activities (**not including tree removal/trimming or bridge/structure work**) that will increase noise levels above existing traffic/background levels?

No

29. Are *all* of the project activities that will be conducted **greater than** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum^[1] and **greater than** 300 feet from the existing road/rail surface^[2] limited to one or more of the following activities:

- maintenance of the surrounding landscape at existing facilities (e.g., rest areas, stormwater detention basins);
- wetland or stream protection activities associated with compensatory wetland/stream mitigation that will not clear suitable habitat (i.e. tree removal/trimming);
- involves slash pile burning;

- within an area with negative presence/probable absence (P/A) summer surveys^[3];
- limited to activities that **DO NOT** cause any stressors to the bat species, including, but not limited to those described in the BA/BO (i.e. do not involve habitat removal, tree removal/trimming, bridge or structure activities, temporary or permanent lighting, or use of percussives) (e.g., lining roadways, unlighted signage, rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.))?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

[2] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast. (example activities include road line painting)

[3] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

- No, the project includes additional activities that would be conducted beyond 300' from the road/rail surface and beyond 0.5 miles from a hibernaculum

Your project is outside of the scope of the programmatic consultation for this key because your project is not limited to exempted activities greater than 300 feet from the road/rail surface (and greater than 0.5 miles from a hibernaculum). Please contact the appropriate U.S. Fish and Wildlife Service office for additional assistance with your project.

If you no longer wish to use this key for your project, you can delete your evaluation.



Department of Conservation & Recreation

CONSERVING VIRGINIA'S NATURAL & RECREATIONAL RESOURCES

PROJECT INFORMATION

TITLE: HRSD Trail

DESCRIPTION: Extension to public trail system from River View City Park along HRSD property and along the Warwick River shoreline.

EXISTING SITE CONDITIONS: Wooded ravine, tidal marsh

QUADRANGLES: Mulberry Island

COUNTIES: City of Newport News

Latitude/Longitude (DMS): 37° 5' 5.1009" N / 76° 32' 6.4347" W

Acreage: 12 acres

Comments:

REQUESTOR INFORMATION

Priority: N

Tier Level: Tier II Plus

Tax ID:

Contact Name: Tim Davis

Company Name: VHB, Inc.

Address: 351 McLaws Circle, Suite 3

City: Williamsburg

State: VA

Zip: 23185

Phone: 757-220-0500

Fax: 757-903-2794

Email: tdavis@vhb.com

Conservation Site	Site Type	Brank	Acreage	Listed Species Presence	Essential Conservation Site?
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Natural Heritage Screening Features Intersecting Project Boundary

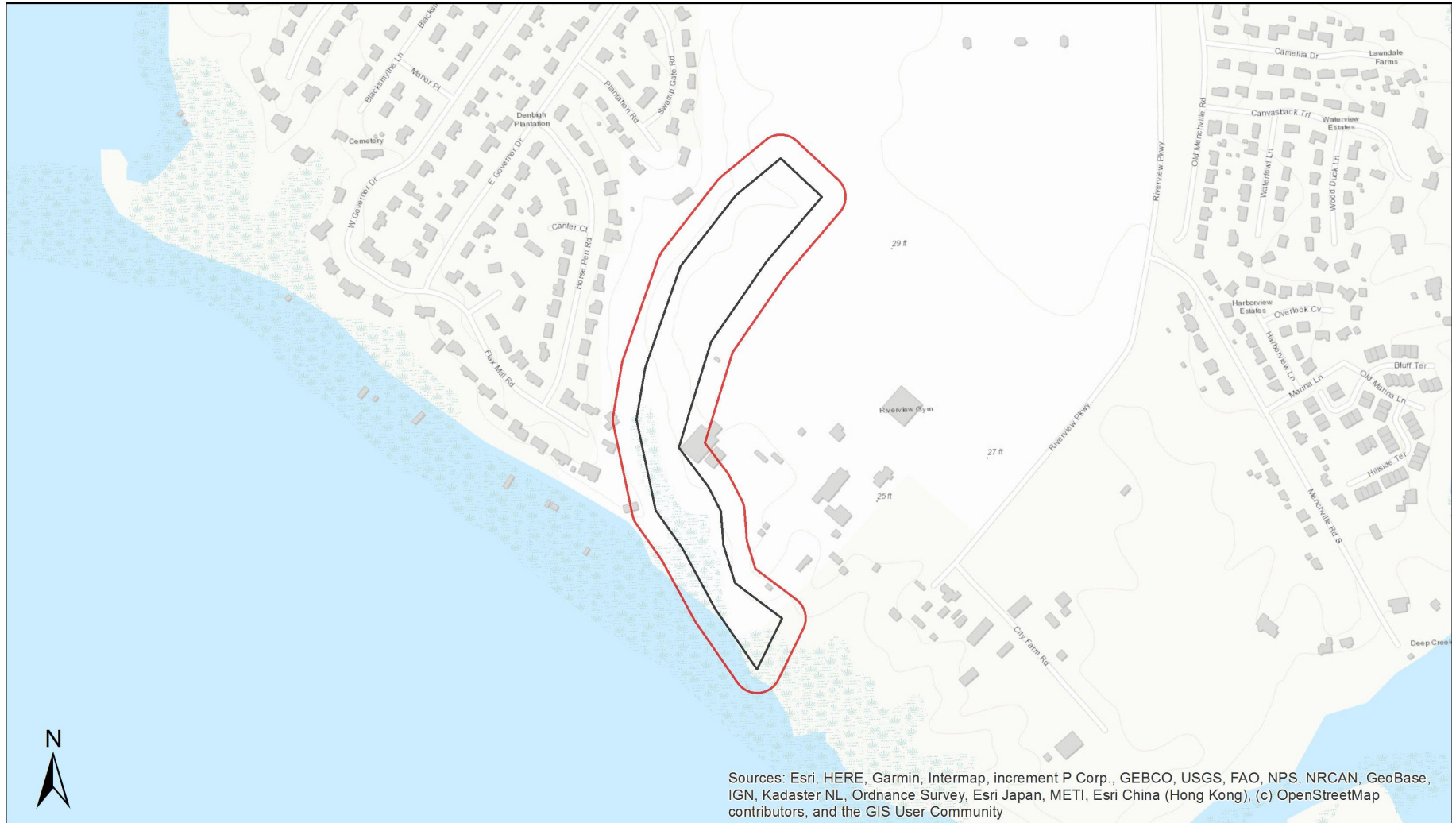
Site Name	Group Name	Common Name	Scientific Name	GRANK	SRANK	Fed Status	Species of Concern	State Status	EO Rank	Last Obs Date	Precision
-----------	------------	-------------	-----------------	-------	-------	------------	--------------------	--------------	---------	---------------	-----------

Natural Heritage Resources Intersecting Project Boundary

Intersecting Predictive Models

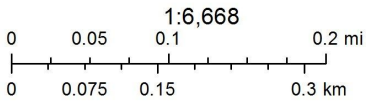
Predictive Model Results

HRSD Trail



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

- Project Boundary
- Buffered Project Boundary



Quads: Mulberry Island
 Counties: City of Newport News

Company: VHB, Inc.
 Lat/Long: 370505 / -763206



COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

The project mapped as part of this report has been searched against the Department of Conservation and Recreation's Biotics Data System for occurrences of natural heritage resources in the vicinity of the area indicated for this project. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

According to the information currently in Biotics, natural heritage resources have not been documented within the submitted project boundary including a 100 foot buffer. In addition, the project area does not intersect any of the predictive models identifying potential habitat for natural heritage resources.

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

Any absence of data may indicate that the project area has not been surveyed, rather than confirm that the area lacks additional natural heritage resources. New and updated information is continually added to Biotics. Please revisit this website or contact DCR for an update on this natural heritage information if a significant amount of time passes (DCR recommends no more than six months) before it is utilized.

The Virginia Department of Wildlife Resources maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters, that may contain information not documented in the Natural Heritage Data Explorer. Their database may be accessed from <http://vafwis.org/fwis/> or contact Ernie Aschenbach (804-367-2733 or Ernie.Aschenbach@dwr.virginia.gov).

Thank you for submitting your project to the Virginia Department of Conservation and Recreation's Natural Heritage Data Explorer Web Service. **Based on the preliminary screening results for this project, no further correspondence will be sent from this office.** Should you have any questions or concerns about this report, the Data Explorer, or other Virginia Natural Heritage Program services, please contact the Natural Heritage Project Review Unit at 804-371-2708.

Endangered Species Act (ESA) Section 7 Determination Table

Project Name: HRSD Trail

Date: December 3, 2021

Consultation Code: 05E2VA00-2022-SLI-1013

Species / Resource Name	Habitat/Species Presence in Action Area	Sources of Info	ESA Section 7 Determination	Project Elements that Support Determination
<i>Insert name of species or resource as listed on Official Species List.</i>	<i>Indicate if suitable habitat and species are present in the Action Area (see examples in Step 5).</i>	<i>Explain what info suitable habitat/species presence is based on.</i>	<i>Using reasoning and decision tables in Step 5, select determination for each species (e.g. no effect, not likely to adversely affect, or likely to adversely affect).</i>	<i>Explain which project elements may impact the habitat or individuals of each species and any Avoidance and Minimization Measures being implemented.</i>
Northern long-eared bat	Suitable habitat present	FHWA determination key, project schedule, Virginia Department of Wildlife Resources roosting data	May affect	Trees will be removed outside of the pupping season for the construction of the trail.
Bald eagle Nest		Center for Conservation Biology bald eagle nest online portal	No affect	There are no bald eagle nests within 3,800 feet of the project site.

From: [Case, Rachel L](#) on behalf of [Virginia Field Office, FW5](#)
To: [R. Timothy Davis](#)
Subject: Re: [EXTERNAL] Flax Mill Creek Trail, Hampton Roads Sanitary District (HRSD), Federally funded
Date: Thursday, January 20, 2022 12:48:43 PM

Timothy,

Thank you for your project submission. We encourage you to implement a voluntary conservation measure of implementing the full time-of-year restriction, no tree clearing from April 1 - November 14.

Thanks,
Rachel

From: R. Timothy Davis <TDavis@VHB.com>
Sent: Friday, December 3, 2021 1:21 PM
To: Virginia Field Office, FW5 <virginiafieldoffice@fws.gov>
Subject: [EXTERNAL] Flax Mill Creek Trail, Hampton Roads Sanitary District (HRSD), Federally funded

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Dear USFWS,

HRSD, in cooperation with the City of Newport News Department of Parks, Recreation and Tourism, proposes the construction of a public trail along the western and southern sides of the existing HRSD water treatment plant next to Flax Mill Creek and along the shoreline of the Warwick River. The trail is proposed to be 8 feet wide and will involve some sections being elevated on a boardwalk. The project will be partially funded by FHWA through the Virginia Department of Conservation and Recreation (DCR). As such, we are preparing a Categorical Exclusion requiring Section 7 review. Attached is the IPaC results, official species list, determination key for the NLEB, location map, and Species Determination Table for your review.

Regarding the northern long-eared bat.....The trail will be approximately 2,200 feet long. The layout of the trail will purposefully avoid trees as much as possible, but several trees will be removed. Construction is scheduled to start in August 2022 outside of the pupping season of June 1 to July 31. There are no known roosting sites near the project area. Adjacent parcels include a public park comprised of fields, residential development, and the water treatment plant.

Thank you for your assistance. Please email or call if you have any questions.

Best regards,

Tim Davis

R. Timothy Davis, PWS, PWD, CWB
Senior Environmental Scientist



351 McLaws Circle
Suite 3
Williamsburg, VA 23185-5797
P 757.279.2830 | **M** 757.784.3168 | **F** 757.903.2794
tdavis@vhb.com

Engineers | Scientists | Planners | Designers
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Attachment D

Phase 1 Hazardous Materials Assessment Report



Phase I Environmental Assessment Report for the James River Treatment Plant and SWIFT Facility Property

January 30, 2020

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Executive Summary

Hazen and Sawyer (Hazen) has performed a Phase I Environmental Site Assessment (ESA) of an approximately 122-acre area that consists of the James River Treatment Plant (JRTP) site and a corridor that extends north from the JRTP site along and abutting a roadway to Menchville Road in Newport News, Virginia, herein referred to as the Subject Property. The Subject Property is located in central western Newport News where the Warwick and James Rivers converge. The Subject Property is bound on the west by the Riverview Farm Park and is located in an area dominated by the park, single-family residential development and open water areas associated with the James River and its tributaries, and Fort Eustis Military Reservation.

The southwestern-most portion of the Subject Property is comprised of the JRTP and its associated storage area that is owned and operated by HRSD. The JRTP parcel consists of an active wastewater treatment plant and its associated structures, tanks, and roadways. The JRTP facility has bulk storage of various products used in the operation of the wastewater treatment facility in numerous aboveground storage tanks (ASTs) and underground storage tanks (USTs), as well as storage areas for small quantities of hazardous materials used in the operation and maintenance of the facility. The JRTP parcel also contains a fenced area located north of the treatment plant facility that is used for storage of various items such as pipes, fencing, and empty storage containers. The Subject Property includes areas outside of the fenced areas associated with the JRTP facility and JRTP storage area that consist of undeveloped, wooded land.

The southeastern-most portion of the Subject Property is comprised of land owned by the City of Newport News that is associated with the Riverview Farm Park and includes natural areas, a small structure associated with the natural area, maintained grass areas, paved roadways and parking areas, and a gymnastics training facility structure. The Subject Property includes an approximately 500-foot wide corridor that extends north from the aforementioned areas to Menchville Road. The corridor includes Riverview Parkway and areas abutting Riverview Parkway to the east and west. The area west of Riverview Parkway within the Subject Property contains landscaped areas, maintained grass areas, and a walking path associated with the Riverview Farm Park.

The east side of Riverview Parkway is abutted by landscaped and maintained roadside grass areas in the Subject Property. Beyond the aforementioned maintained areas east of Riverview Parkway within the Subject Property from south to north, the Subject Property consists of a maintained grass area owned by the City of Newport News and paved roadway, City Farm Road; an undeveloped wooded area; several paved roadways that include Menchville Road South, Old Menchville Road, Canvas Back Trail and Camellia Drive; single-family residential structures; and a portion of a parcel that contains a closed landfill, Old Menchville Landfill. The northern terminus of the Subject Property consists of Menchville Road, maintained grass area associated with Menchville High School, and several single-family residential structures.

Hazen has performed a Phase I ESA of the above referenced Subject Property in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) E 2247-16. Any exceptions to, or deletions from, the standard practice are described in Section 1.4 of this report. The Phase I assessment performed for the Subject Property has revealed no evidence of Recognized Environmental Conditions (REC) in connection with the Subject Property except for the following:

Old Menchville Landfill

The Old Menchville Landfill is located within and abuts the northeastern-most portion of the Subject Property. At the time of site reconnaissance, the landfill area was vegetated with herbaceous species. The landfill is listed in the Superfund Enterprise Management System archive database as not qualifying for the National Priority List with No Further Remedial Action Planned.

Based on a review of the database report, the Old Menchville Landfill, of which a portion is located within the northeastern-most portion of the Subject Property, was historically reported to contain groundwater and/or soil contamination. Based on the historical presence of hazardous materials within the Old Menchville Landfill site, Hazen is of the opinion that the presence of past known contamination associated with the landfill and the presence of a portion of the landfill site in the Subject Property that the Old Menchville Landfill represents a CREC to the Subject Property. Hazen recommends that care be taken during any excavation activities in and in proximity to the Old Menchville Landfill and that all excavated material be handled and disposed of in accordance with all applicable governmental regulations and guidelines. Furthermore, any potential impacted soils or groundwater encountered may require assessment to determine the extent of contamination. Disturbance or removal of contaminated materials should be performed in accordance with governmental regulations and guidelines.

JRTP Areas

The JRTP areas are in the southwestern-most portion of the Subject Property and is abutted to the southwest by the Warwick River and James River, to the northwest by an unnamed tributary to the Warwick River, and to the southeast by an unnamed tributary to the James River. At the time of generation of this report, the JRTP areas consist of an active wastewater treatment plant facility and a storage area in which treatment operations do not occur and in which bulk storage of hazardous materials or petroleum products does not occur. The JRTP facility is listed on numerous databases and is reported to have had numerous spills/discharge incidents that have been reported to regulatory agencies and to have bulk storage of hazardous materials and petroleum products in ASTs and USTs. Raw sewage is transported via underground pipes to the JRTP facility for treatment. A portion of the wastewater treatment process at the JRTP facility includes use of open wastewater tanks. Within the JRTP facility, numerous stormwater drains that discharge directly to waterways or drainageways that abut the JRTP areas to the northwest, southwest, and southeast are present.

Based on a review of the databases, the JRTP facility has had numerous reported spills/discharge incidents. The potential for future releases is considered to be likely and Hazen is of the opinion that the likelihood of future spills or discharges of hazardous materials within the JRTP facility portion of the Subject Property represents an REC to the Subject Property. Operation of the JRTP facility requires a large amount of onsite bulk storage of hazardous materials and petroleum products, which increases the potential for moderate to large incidents to occur at the facility. Hazen is of the opinion that the likelihood for discharge of moderate to large quantities of hazardous materials or petroleum products represents an REC to the Subject Property. The volume of wastewater continually entering and being processed within the facility, including wastewater processing in open, aboveground tanks, has the potential to discharge large quantities of wastewater in various stages of treatment. Hazen is of the opinion that the potential for a discharge of large quantities of wastewater from the JRTP represents an REC to the Subject Property. The numerous stormwater drains within the JRTP facility discharge directly to waterways or drainageways that abut the

JRTP areas including the Warwick and James Rivers. Hazen is of the opinion that the likelihood of spills or discharges of hazardous materials, wastewater, or petroleum products into the environment from the JRTP facility represents an REC to the Subject Property. Hazen recommends that care be taken during any excavation activities within the JRTP areas and that all excavated material be handled and disposed of in accordance with all applicable governmental regulations and guidelines. Furthermore, any potentially impacted soils or groundwater encountered may require assessment to determine the extent of contamination. Disturbance or removal of contaminated materials should be performed in accordance with governmental regulations and guidelines.

Debris Area

Areas of historical fill and debris disposal consisting of various materials including metal, concrete, and rusted 55-gallon drums are present northwest of the JRTP areas. The extent and composition of the disposed materials are not known. Areas of fill material also appear to be present in portions of the JRTP facility and storage area. Hazen is of the opinion that the presence of the historical fill and debris disposal within and abutting the northwest side of the JRTP sites represents an REC to the Subject Property. Hazen recommends that care be taken during any excavation activities that occur in and in proximity to the areas of debris and that all excavated material be handled and disposed of in accordance with all applicable governmental regulations and guidelines. Furthermore, any potentially impacted soils or groundwater encountered may require assessment to determine the extent of contamination. Disturbance or removal of contaminated materials should be performed in accordance with governmental regulations and guidelines.

Historical City Prison Farm Use Area

During operation of the City Prison Farm, the western portion the JRTP areas appears to not have been in crop production and at least one large structure and land disturbance is visible on the historical aerial photographs. Due to the potential for historical USTs or ASTs, or the storage of fertilizers, herbicides, and pesticides in the JRTP sites, Hazen is of the opinion that the use of portions of the JRTP for non-crop production associated with the City Prison Farm represents an REC to the Subject Property. Hazen recommends that care be taken during any excavation activities in the JRTP sites and that all excavated material be handled and disposed of in accordance with all applicable governmental regulations and guidelines. Furthermore, any potential impacted soils or groundwater encountered may require assessment to determine the extent of contamination. Disturbance or removal of contaminated materials should be performed in accordance with governmental regulations and guidelines.

Although not considered to be RECs, the following items warrant mention and the following measures are recommended:

Asbestos-Containing Materials: No evidence of suspect ACM was observed at the Project Site; however, based on the age of the buildings and equipment on the Subject Property, there may be ACM present within the structures and treatment plant components on the Subject Property. Hazen recommends assessment of the presence of ACM, if required, and proper handling and disposal of identified materials be performed per appropriate governmental regulations and guidelines for activities that disturb the administration building.

Lead-Based Paint (LBP)/ Lead-Containing Paint (LCP): Painted surfaces observed on the Subject Property were in poor to fair condition. Hazen recommends assessment of the presence of LBP/LCP, if

required, and proper handling and disposal of identified materials be performed per appropriate governmental regulations and guidelines for activities that disturb the painted surfaces.

1. Introduction

Hazen was retained by Hampton Roads Sanitation District (HRS D) (“User” or “Client”) to conduct a Phase I Environmental Site Assessment (ESA) in conformance with ASTM International's Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E 2247-16 on the Subject Property in accordance with our latest Agreement.

1.1 Purpose

The purpose of this Phase I ESA is to investigate and identify to the extent practicable *Recognized Environmental Conditions (RECs)* associated with the Subject Property and/or the immediate vicinity of the Subject Property. **RECs**, as defined in the ASTM E 2247-16, include the following:

The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions (refer to definition below).

Other categories of RECs defined in ASTM E 2247-16 include the following:

Controlled Recognized Environmental Condition (CREC): *A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).*

Historical Recognized Environmental Condition (HREC): *A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meets unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).*

In addition, the ASTM E 2247-16 also defines additional conditions that are not included in the ASTM definition of an REC. These conditions include:

Business Environmental Risks (BERs): *A risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. BERs are related to Conditions Outside the Scope of ASTM E 2247-16, as noted in the following Scope of Work.*

***De minimis conditions:** A condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions.*

1.2 Scope of Work

The Scope of Work for this Phase I ESA is in conformance with the requirements of ASTM E 2247-16. Hazen warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying RECs associated with the Subject Property.

Assessment of issues or conditions not included in the standard ASTM ESA practice scope (Conditions Outside the Scope of ASTM E 2247-16) include, but are not limited to: asbestos, cultural and historic resources, lead-based paint, lead in drinking water, mold, radon, regulatory compliance, industrial hygiene, health and safety, ecological resources, endangered species, and wetlands. The Scope of Work for this Phase I ESA did not include intrusive/investigative evaluation of the above-referenced non-scope items. However, where necessary, the Environmental Professional visually identified and opined on some of the non-scope items for further consideration.

Indoor air quality from sources such as asbestos and mold is considered a non-scope item and is not included in the ASTM standard. Indoor air impacts caused by releases of hazardous substances into subsurface soil or groundwater (vapor intrusion) and the potential for vapor encroachment or intrusion into structures at the Subject Property are considered and evaluated from on-site or off-site sources based on the experience of the Environmental Professional. The scope of services for Phase I ESAs also does not include soil borings, installation of groundwater monitoring wells, or collection of soil or groundwater samples and other intrusive activities.

1.3 Significant Assumptions

There is a possibility that even with the proper application of the methodologies listed in this Phase I ESA, there may exist on the Subject Property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information or viewed during site reconnaissance. Hazen believes that the information obtained from the record review and the interviews concerning the Subject Property is reliable. However, Hazen cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The methodologies of this assessment are not intended to produce all-inclusive or comprehensive results, but rather to provide the *User* with information relating to the Subject Property.

Hazen's conclusions based on the purchased databases and historical resource material are limited to the accuracy of those database reports. To the extent possible, field observations are used by Hazen to verify the information or identify errors and inconsistencies in the search report regarding listing of the Subject Property and/or listed facilities in the immediate vicinity of the Subject Property. The database reviewed

is sufficiently complete and current to be used as a source to satisfy the regulatory database requirements outlined in the ASTM Standard and the Scope of Work.

1.4 Limitations, Exceptions and Special Terms or Conditions

The findings, opinions, and conclusions of this report contain the limitations inherent in these methodologies that are referred to in ASTM E 2247-16. Specific limitations and exceptions to this Phase I ESA are set forth below.

- Historical and environmental information relevant to the Subject Property has been included in this report to the extent that such information is “reasonably ascertainable” as defined in the above referenced standard practice and in accordance with the project-specific time frames.
- The conclusions presented in the report were based solely upon the services described herein, and not on scientific tasks or procedures beyond the scope of described services. The work described in this report was carried out in accordance with the Terms and Conditions of the contract.
- Hazen does not imply that the property referred to herein contains no petroleum or hazardous or toxic substances or other conditions beyond those observed by Hazen during the site reconnaissance.
- Hazen reviewed an environmental database search report. Hazen's conclusions based on the search report are limited to the accuracy of that report. To the extent possible, Hazen's field observations are used to verify the information or identify errors and inconsistencies in the search report regarding the Subject Property and listed facilities in the immediate vicinity of the Subject Property.
- Inclusion of additional area into the Subject Property after obtaining the EDR database report resulted in the search radius in areas abutting the additional area to be less than specified by ASTM E 2247-16. All portions of the additional area are included in the database reports, although areas abutting the additional area may not be fully covered by the search radii.

This Phase I ESA has been conducted in accordance with ASTM International's Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 2247-16). No other special terms or conditions are applicable to this report.

1.5 Reliance

This report was prepared for and may be relied upon by HRSD. No other person may rely on this report without written authorization from Hazen and the aforementioned party. As such, the above-mentioned party is identified as the *User* of this report. Any reliance upon this document, or upon Hazen's performance of services in preparation of this report, is conditioned upon the relying party's acceptance and acknowledgement of the limitations, qualifications, terms, conditions, and indemnities set forth in that agreement, as well as property ownership/management disclosure limitations, if any.

2. Site Description

2.1 Location and Legal Description

The Subject Property consists of an approximately 122-acre area located in central western Newport News where the Warwick and James River converge. The Subject Property extends north from the James River to Menchville Road. The Subject Property includes the James River Treatment Plant (JRTP) that is owned and operated by HRSD, and a corridor that extends from approximately City Farm Road to Menchville Road that mainly includes lands owned by the City of Newport News. The aforementioned corridor includes roadway and right-of-way associated with Riverview Parkway, Menchville Road South, Old Menchville Road, and Menchville Road, as well as areas within Riverview Farm Park and residential area east of Old Menchville Road and Menchville Road South (**Figure 2-1**). Newport News tax maps for the areas comprising the Subject Property are provided in **Appendix A**. At the time of site reconnaissance, the Subject Property consisted of land used for wastewater treatment and miscellaneous storage; a public park including a gymnastics facility, dog park, walking trails, grass recreation fields, picnic shelters, and parking areas; public and private roadways; undeveloped land and land not presently in use; and single-family residential area.

2.2 Site Characteristics and Features

The Subject Property is situated in an area dominated by a park, residential development, open water areas associated with the James River and its tributaries, and Fort Eustis Military Reservation (**Figure 2-2**). The Subject Property consists of approximately 122 acres of land that is mainly improved. The Subject Property is relatively flat with the exception of slopes along water courses in the southwestern-most and southernmost boundaries of the Subject Property abutting the JRTP parcel. Structures and facilities within the Subject Property are discussed below and depicted on **Figure 2-3**.

The southwestern-most portion of the Subject Property is comprised of the JRTP and its associated storage area that is owned and operated by HRSD. The JRTP parcel consists of an active wastewater treatment plant and its associated structures, tanks, and roadways. The JRTP facility was observed to contain numerous aboveground storage tanks (ASTs) for products used in the operation of the wastewater treatment facility, fill ports and vent pipes associated with underground storage tanks (USTs), and a storage area for small quantities of hazardous materials used in the operation and maintenance of the facility. The JRTP parcel also contains a fenced area located north of the treatment plant facility that is used for storage of various items such as pipes, fencing, and empty storage containers and is herein referred to as the JRTP storage area. A majority of the fenced JRTP storage area is dominated by herbaceous vegetation that appears to be periodically mowed. Areas containing evergreen and deciduous trees are present along the perimeter of the JRTP storage area and in several areas within the fenced area. The Subject Property includes areas outside of the fenced areas associated with the JRTP facility and JRTP storage area that consist of undeveloped, wooded land.

The southeastern-most portion of the Subject Property is comprised of land owned by the City of Newport News that is associated with the Riverview Farm Park and includes natural areas, a small structure associated with the natural area, maintained grass areas, paved roadways and parking areas, and a

gymnastics training facility structure. The Subject Property consists of an approximately 500-foot wide corridor that extends north from the aforementioned areas to Menchville Road. The corridor includes Riverview Parkway and areas abutting Riverview Parkway to the east and west. The area west of Riverview Parkway within the Subject Property contains landscaped areas, maintained grass areas, and a walking path associated with the Riverview Farm Park.

The east side of Riverview Parkway is abutted by landscaped and maintained roadside grass areas in the Subject Property. Beyond the aforementioned maintained areas east of Riverview Parkway within the Subject Property from south to north, the Subject Property consists of a maintained grass area owned by the City of Newport News and paved roadway, City Farm Road; an undeveloped wooded area; several paved roadways, Menchville Road South, Old Menchville Road, Canvas Back Trail and Camellia Drive, and single-family residential structures; and a portion of a parcel that contains a closed landfill, Old Menchville Landfill. The northern terminus of the Subject Property consists of Menchville Road, maintained grass area associated with Menchville High School, and several single-family residential structures.

2.3 Utilities

Power to the Subject Property is supplied by Dominion Energy Virginia. Numerous aboveground utility poles are located in the Subject Property. Transformers and streetlights are attached to the upper portion of some of the utility poles. The transformers observed during site reconnaissance contained a blue dot denoting that the transformer does not contain PCBs. Underground electrical lines are present in the northern portion of the Subject Property along Riverview Parkway. Several stormwater pipes, drainage swales, and inlets were observed during site reconnaissance.

No evidence of gas lines was observed during field reconnaissance. If natural gas is supplied via buried pipes in the Subject Property, the gas is anticipated to be supplied by Virginia Natural Gas. Water and sewer transmission lines are present in the Subject Property. Water and wastewater services are provided to the Subject Property by HRSD and the City of Newport News, respectively. Additionally, transmission lines transporting wastewater to the JRTP are present in various portions of the Subject Property.

2.4 Current Use of Adjoining Properties

During the site reconnaissance, observations of properties adjoining and in proximity to the Subject Property were made. Observations were made from the Subject Property and/or surrounding public land for the purpose of identifying present uses of the nearby properties and if those uses are or were likely to indicate RECs. Any exceptions or limiting factors associated with visual observations on the Subject Property and/or adjacent properties are described in Section 1.4 of this report.

Figure 2-1: Site Location Map

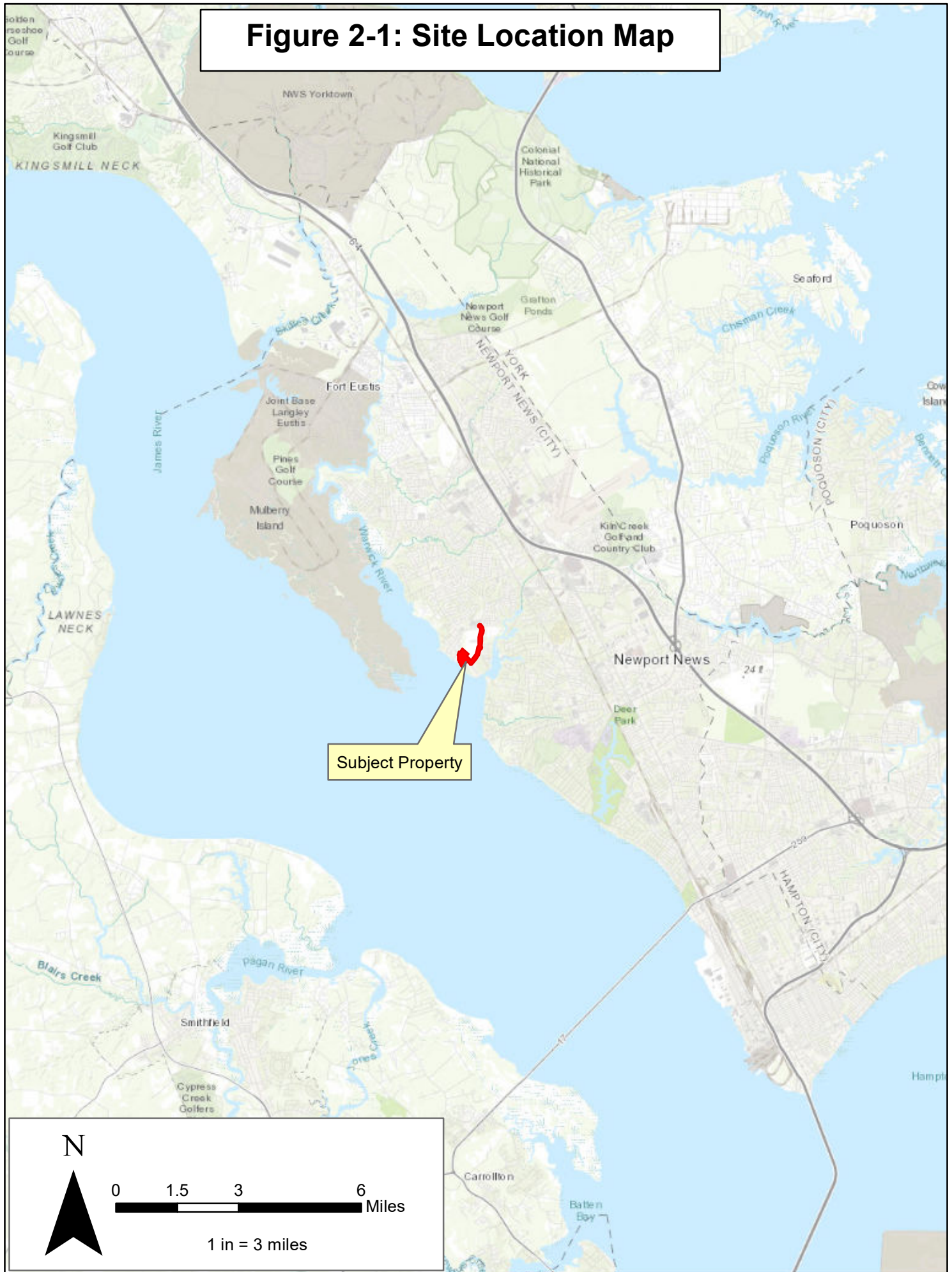


Figure 2-2: Project Area Map



Figure 2-3: Site Map



Subject Property

- 1. Old Menchville Landfill
- 2. Riverview Farm Park
- 3. JRTP Facility
- 4. JRTP Storage Area
- 5. Undeveloped Wooded with Stream and Wetlands
- 6. Area of Debris
- 7. Riverview Gymnastics Center and Parking Area
- 8. Man-made Berm
- 9. Riverview Parkway
- 10. Old Menchville Road
- 11. Camillia Drive
- 12. Canvasback Road
- 13. Menchville Road South
- 14. Prison Farm Road
- 15. Roadside Berm
- 16. Single-family Residences



0 350 700 1,400 Feet

1 in = 700 feet

The Subject Property is bound by the confluence of the Warwick and James Rivers to the south. Mulberry Island/Fort Eustis Military Reservation is located between the Warwick River and the James River west of the Subject Property. Per review of recent aerial photographs, the portion of Mulberry Island/Fort Eustis Military Reservation in proximity to the Subject Property appears to be undeveloped and to contain saltmarsh and forested areas. The area west of the JRTP and JRTP storage area parcel is abutted by undeveloped, wooded land traversed by a stream, beyond which is single-family residential development. East of the JRTP parcel is improved property owned by the City of Newport News and part of the Riverview Farm Park, beyond which is land owned by the City of Newport News that contains the City Prison Farm.

The area abutting the northern boundary of the JRTP parcel and east of the Subject Property's western boundary consists of the Riverview Farm Park. The park consists mainly of mowed grass areas with a paved walking trail that borders the perimeter of the park. The park includes recreational fields, paved road and parking areas, picnic facilities, the Riverview Gymnastics Center, and a dog park. A raised mound, which is used as a scenic overlook, is located north of the JRTP storage area's northeastern parcel boundary in Riverview Farm Park.

The east side of the Subject Property boundary from south to north is bound by improved areas associated with the City of Newport News City Prison Farm, beyond which is Deep Creek; an undeveloped wooded area, beyond which is Deep Creek; a residential area and several boat marinas on Deep Creek; and a closed landfill, Old Menchville Landfill, which consists mainly of areas of herbaceous vegetation with small areas of forest present, beyond which is Deep Creek. The northern terminus of the Subject Property is abutted by a residential development to the northeast and Menchville High School to the northwest. The area beyond Deep Creek consists of residential development with several boat marinas along Deep Creek.

Adjoining properties, occupants, general use, and observations are depicted on **Figures 2-2 and 2-4**. To the extent observable at the time of the assessment, no conditions indicative of REC's were observed in association with areas in proximity to the Subject Property. However, the historical presence of USTs on City Prison Farm site and the presence of portions of the closed Old Menchville Landfill in the Subject Property are considered RECs to the Subject Property in connection with those uses, as discussed in **Sections 5 and 6**.

Figure 2-4: Adjoining Properties Map



3. Physical Setting

3.1 Topography and Soils

The Subject Property is located in an area with relatively flat topography with the exception of a rise in topography adjacent to the stream and watercourses described in Section 3.2. The most recent United States Geological Survey (USGS) 7.5-Minute Series topographic map of Norfolk South, Virginia, dated 2013, was reviewed (**Figure 3-1**). The topographic map indicated that the elevation within the Subject Property varies from approximately mean sea level (msl) along the James River to approximately 30 feet msl at the northern terminus of the Subject Property.

Per the Natural Resources Conservation Service's (NRCS's) General Soil Map, the generalized soils underlying the Subject Property are Bethera-Urban land complex, Craven-Urban land complex, and Slagle-Urban land complex. Urban Land is assigned to areas in which the soils do not have the appearance or properties of soils in less developed and/or disturbed areas. Urban Land soils are generally comprised of surficial materials that have altered by activities such as mixing, filling, and excavation.

3.2 Geology and Hydrology

Per the USGS Groundwater Atlas of the United States, Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, and West Virginia, the Subject Property is located in the Lowland sub-province of the Coastal Plain physiographic province. The geology of the general project area consists of Quaternary sand, mud, and gravel of Cenozoic age. Per the USGS, the uppermost principal aquifer system in the Newport News area is the Northern Atlantic Coastal Plain aquifer system, which is present in semi-consolidated sand.

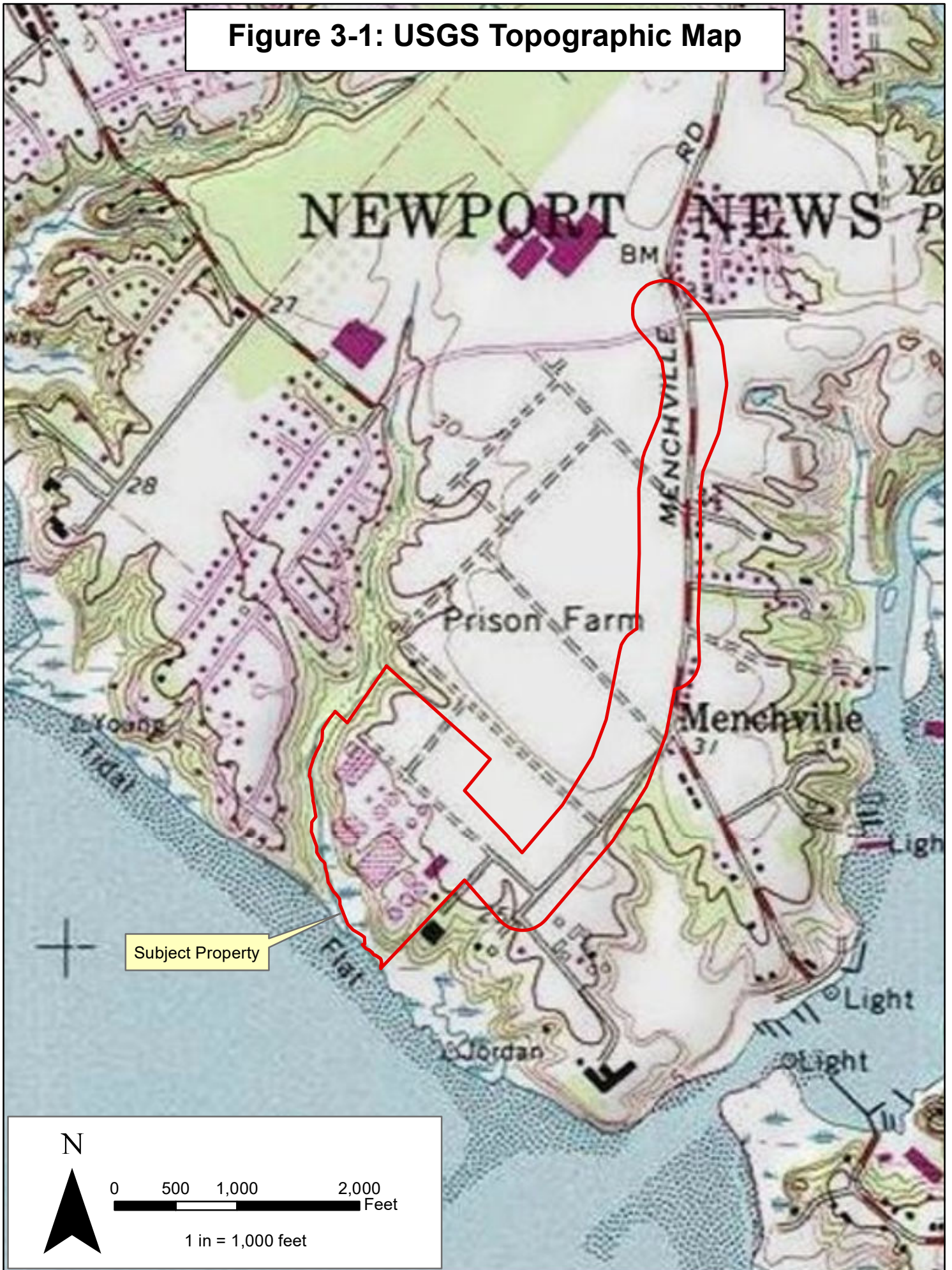
The Federal Emergency Management Agency Flood Insurance Rate Map (Panels 5104030107D, 5101030108D, and 5101030109D, effective December 9, 2014) were reviewed. The southern and southwestern portion of the Subject Property is located within and abutting a Special Flood Hazard Area. Other than the aforementioned areas, no Special Flood Hazard Areas are within or abutting the Subject Property. The Flood Insurance Rate Maps for the Subject Property are included as **Appendix B**.

The USGS National Hydrography Dataset was reviewed and several streams and watercourses are depicted within and abutting the Subject Property. Warwick River and the James River are depicted as abutting the southern boundary of the Subject Property. Additionally, a perennial stream that transitions to an intermittent stream is depicted on the USGS mapping within and abutting the southwestern-most portion of the Subject Property. Other than the aforementioned stream and watercourses, no streams or other watercourses are depicted on the USGS National Hydrography Dataset within or abutting the Subject Property. With the exception of the aforementioned stream and watercourses, no streams or watercourses were observed on the Subject Property during site reconnaissance.

Review of the National Wetlands Inventory (NWI) mapping was performed for the Subject Property and abutting areas. The NWI mapping depicts a wetland area along the southernmost portion of the unnamed perennial stream and its confluence with the James River, and along the James River east of the JRTP

parcel. Other than the aforementioned areas, NWI mapping does not depict wetlands within or abutting the Subject Property. A wetland delineation was performed for the Subject Property, and jurisdictional wetland areas that are not depicted on the NWI mapping were found to be present. Based on the wetland delineation, wetland areas along the southeastern project boundary are more extensive than those depicted on the NWI mapping, and wetland areas were found to be present in the eastern and northeastern portions of the fenced storage area associated with the JRTP. The wetland delineation did not identify areas other than those previously described to be present within or abutting the Subject Property.

Figure 3-1: USGS Topographic Map



4. User Provided Information

4.1 Specialized Knowledge

Specialized knowledge of the Subject Property consisted of an interview with site personnel.

4.2 Valuation Reduction for Environmental Issues

Hazen was not provided with an appraisal for the Subject Property. No environmental issues were identified by the *User* that could result in property value reduction.

4.3 Owner, Operator, and Occupant

The Subject Property is comprised of portions of numerous parcels and has numerous owners. Interviews were not performed with the parcel owners of the parcels within the Subject Property except the JRTP parcel.

4.4 Prior Environmental Reports / Other Helpful Documents

As part of this Phase I ESA and pursuant to the ASTM Standard, Hazen requested copies or access to the following Prior Environmental Reports or Other Helpful Documents:

- Previous Phase I ESA reports
- Environmental compliance audit reports
- Environmental permits
- Registrations for underground and aboveground storage tanks
- Registrations for underground injection systems
- Material Safety Data Sheets
- Community right-to-know plan or documentations
- Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; and facility response plans
- Reports regarding hydrogeological conditions on the Subject Property or surrounding area
- Notification or correspondence from governmental agencies relating to past or current violations or environmental liens
- Hazardous waste generator notices or reports
- Geotechnical studies or reports

- Risk assessments
- Activity and use limitations (AULs)

Environmental documentation relative to the JRTP were provided by the *User* for review as part of this assessment.

5. Records Review

5.1 Historical Information Review

The objective of consulting historical sources is to develop a history of the previous uses of the Subject Property and surrounding area, in order to help identify the likelihood of past uses having led to RECs in connection with the Subject Property. Hazen reviewed historical sources that were reasonably ascertainable and likely to provide useful information, as defined by the ASTM standard. The ASTM standard requires that all obvious uses of the Subject Property shall be identified from the present, back to the Subject Property's first developed use (including agricultural uses and placement of fill dirt), or back to 1950, whichever is earlier. Documented data failure in lieu of the above goal is the only acceptable alternative.

The historical research is only complete when either: (1) the objectives in 8.3.1 through 8.3.2.2 of the ASTM standard are achieved or (2) data failure is encountered. Data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Data failure is not uncommon in trying to identify the use of the property at five-year intervals back to first use or 1950 (whichever is earlier). Notwithstanding a data failure, standard historical sources may be excluded if: (1) the sources are not reasonably ascertainable or (2) if experience indicates that the sources are not likely to be sufficiently useful, accurate, or complete in terms of satisfying the objectives. Other historical sources specified in the ASTM Standard may be used to satisfy the objectives but are not required to comply with this practice. If data failure is encountered, the report shall document the failure and, if any of the standard historical sources were excluded, give the reasons for their exclusion. If the data failure represents a significant data gap, the report shall comment on the impact of the data gap on the ability of the Environmental Professional to identify RECs.

5.1.1 Fire Insurance Maps (Sanborn Maps)

Sanborn Maps constitute a source of prior site uses of real property for many cities and towns in the United States. The maps were originally created to assist insurance underwriters in understanding the potential fire risk of structures requiring insurance; however, they are also useful in determining the previous uses of a property. Sanborn Maps often contain information relating to uses of individual structures, location of certain petroleum and chemical storage tanks, and the storage of other potentially toxic substances. Sanborn Maps provide coverage of urban areas from 1867 through 2007.

Hazen requested EDR to conduct a search of available Sanborn Fire Insurance Company Maps for the Subject Property and adjoining properties. Sanborn Maps were not found to be available for the Subject Property or adjoining properties (**Appendix C**). Therefore, Sanborn Maps depicting the Subject Property were not reviewed as part of this ESA.

5.1.2 Aerial Photographs

Aerial photographs provide visual documentation of site conditions at the time of the photograph. Hazen reviewed online historical aerial photographs provided by EDR. Historical aerials for 1963, 1973, 1982,

1990, 1994, 2000, 2006, 2009, 2012, and 2016 were viewed and summarized (**Table 5-1**). A copy of the reviewed aerials is provided in **Appendix D**.

Table 5-1: Historical Aerial Photograph Summary

Year	Subject Property	Adjacent and Surrounding Properties
1963	Subject property contains a roadway within the north/south corridor abutted by farmland to the west; and farmland, a wooded area, farmland and several structures that appear to be associated with farming activities to the east. A small area within the western portion of the JRTP facility contains a structure and several unidentifiable structures or large pieces of machinery. The southern and western portion of the JRTP areas consist of undeveloped wooded area. Menchville Road, which was later changed to Menchville Road South, traverses the Subject Property corridor from north to south. A portion of what is presently Riverview Parkway is not present.	Abutting properties on all sides, with the exception of northeast of the northern terminus of the Subject Property, are in similar condition as the Subject Property. Land disturbance appears to be occurring in the eastern portion of the Old Menchville Landfill parcel. Minimal residential development is present east of the Subject Property.
1973	Subject Property is as depicted on the 1963 aerial except for the JRTP facility being present and construction of several residences along Menchville Road South, two of which are in the Subject Property.	Abutting properties on all sides are similar to the 1963 conditions with additional residential development east of the Subject Property and west of the Riverview Farm Park parcel. Active land disturbance is still visible in the eastern portion of the Old Menchville Landfill parcel.
1982	Subject Property is as depicted on the 1973 aerial except for construction of a residential structure on Camellia Road.	In general, the abutting and surrounding properties are similar to the depiction on the 1973 aerial. The Old Menchville Landfill activities are depicted as occurring throughout the parcel, including in the Subject Property. Most of the farming activities east of Riverview Parkway appear to have ceased. A residential community has been constructed northeast of and abutting the Subject Property, and the Menchville High School has been constructed. Additional development west of the Riverview Farm Park is evident.
1990	Subject Property is as depicted on the 1982 aerial except for additional residences having been constructed along Riverview Parkway, and the JRTP storage area does not appear to be in use for agriculture.	Abutting properties on all sides of the Subject Property are similar to the 1982 conditions with additional residential development east of the Subject Property. Active land disturbance is visible throughout the Old Menchville Landfill parcel.
1994	Subject Property is as depicted on the 1990 aerial except that farming operations do not appear to be occurring in the Subject Property northeast of the JRTP.	Abutting properties on all sides of the Subject Property are similar to the 1990 conditions except for an area northeast of the Subject Property that appears to have been excavated. Several other areas of land disturbance not associated with farming are visible in proximity to the area of excavation.
2000	Subject Property is as depicted on the 1994 aerial except for additional ground disturbing activities northeast of the JRTP and non-farming disturbance	Abutting and surrounding properties are as depicted on the 1994 aerial except for areas in the Riverview Farm Park being converted from farm

Year	Subject Property	Adjacent and Surrounding Properties
	of an area abutting the east side of Riverview Parkway. The structure that is presently a gymnastics training facility has been constructed.	field to public park. The area within Riverview Farm Park that presently contains the overlook has what appears to be dirt roadways leading to it.
2006	Subject Property is as depicted on the 2000 aerial except that a new roadway, what is presently Riverview Parkway, has been constructed west of Old Menchville Road. A paved entrance road and parking area has been constructed for the gymnastics training facility.	Abutting and surrounding properties are as depicted on the 2000 aerial except for additional residential construction in the Subject Property vicinity and land disturbing activity appears to have ceased at the Old Menchville Landfill.
2009	Subject Property is as depicted on the 2006 aerial.	Abutting and surrounding properties are as depicted on the 2006 aerial.
2012	Subject Property is as depicted on the 2009 aerial.	Abutting and surrounding properties are as depicted on the 2009 aerial.
2016	Subject Property is as depicted on the 2012 aerial except that the JRTP storage area appears to be used for storage.	Abutting and surrounding properties are as depicted on the 2012 aerial.

5.1.3 Topographic Maps

Historical topographic maps provide an overview of the area relative to land uses. Historical topographic maps of the Subject Property for the years 1907, 1943, 1950, 1957, 1965, 1970, 1973, 1979, 1986, and 2013 were obtained from the USGS Historical Topographic Maps website and reviewed. A copy of the reviewed topographic maps is provided in **Appendix E**. A summary of information depicted on the aforementioned topographic maps is provided below as **Table 5-2**.

Table 5-2: Historical Topographic Map Summary

Year	Subject Property	Adjacent and Surrounding Properties
1907	Subject Property is depicted as mainly undeveloped land. Several roadways are depicted within and traversing the Subject Property corridor. No structures are depicted in the Subject Property.	Adjacent and surrounding properties are depicted as containing several structures east of the Subject Property. The Subject Property is not depicted to contain structures.
1943	Subject Property is depicted as it was on the 1907 topographic quadrangle although portions of the Subject Property are depicted as having been cleared.	Adjacent and surrounding properties are depicted as they were on the 1907 topographic quadrangle. Some abutting areas are depicted as having been cleared.
1950	Subject Property is depicted to have numerous dirt roads extending off Menchville Road. All areas are shown to have been cleared.	The area abutting the Subject Property, with the exception of a wooded area, is depicted as having been cleared. Numerous dirt roads are depicted traversing the area west of the Subject Property corridor and the area is labeled as Prison Farm. The area southeast of the southernmost portion of the Subject Property is labeled as Prison Barracks. The area east of the Subject Property is shown to have a few additional structures along Deep Creek.

Year	Subject Property	Adjacent and Surrounding Properties
1957	Subject Property is depicted as it was on the 1950 topographic quadrangle except two small structures east of Menchville Road south of Camellia Drive.	Adjacent and surrounding properties are depicted as they were on the 1950 topographic quadrangle. Residential development in the Subject Property vicinity is depicting as having increased.
1965	The Subject Property is as it was depicted on the 1957 topographic quadrangle.	Adjacent and surrounding properties are depicted as they were on the 1957 topographic quadrangle.
1970	The Subject Property is as it was depicted on the 1965 topographic quadrangle except that the JRTP facility is depicted as having been constructed and two more residences are depicted along Menchville Road in the central portion of the Subject Property.	The adjacent and surrounding properties are as they were depicted on the 1965 topographic quadrangle except some new residential development in proximity to and in vicinity of the Subject Property. Menchville High School is depicted as having been constructed.
1973	The Subject Property is as it was depicted on the 1970 topographic quadrangle.	The adjacent and surrounding properties are as they were depicted on the 1970 topographic quadrangle. New residential development in the Subject Property vicinity is depicted.
1979	The Subject Property is as it was depicted on the 1973 topographic quadrangle.	The adjacent and surrounding properties are as they were depicted on the 1973 topographic quadrangle with the exception of a new residential development northeast of the northern terminus of the Subject Property. New residential development is depicted in the vicinity of the Subject Property.
1986	The Subject Property is as it was depicted on the 1979 topographic quadrangle.	The adjacent and surrounding properties are as they were depicted on the 1979 topographic quadrangle. New residential development is depicted in the vicinity of the Subject Property.
2013	The Subject Property is shown as an urban area with only structures within the JRTP facility depicted. Menchville Road, which was renamed to Menchville Road South, is depicted.	The adjacent and surrounding properties are depicted as an urban area with only the public school facilities located in proximity to the Subject Property's northern terminus being shown.

5.1.4 City Directories

City directories provide site occupant listings by address via telephone records. Historical city directories for 1964, 1969, 1975, 1979, 1984, 1989, 1992, 1995, 2000, 2005, 2010, and 2014 were obtained for the Subject Property via EDR and reviewed. A copy of the reviewed city directories is provided in **Appendix F**. A summary of information provided in the aforementioned city directories is provided below as **Table 5-3**.

Table 5-3: City Directory Listing Summary

Year	Subject Property
1964	None of the roads in the Subject Property are listed in the city directories; therefore, no listings within the Subject Property are provided in the city directories.
1969	City Prison Farm, John N. Mueller: 100 City Farm Road

Year	Subject Property
1975	City Prison Farm, Billy Payne: 100 City Farm Road
1979	City Prison Farm, Billy Payne: 100 City Farm Road James River Treatment Plant: no address provided
1984	City Prison Farm, Billy Payne: 100 City Farm Road James River Treatment Plant: 111 Prison Farm Road North Shore Laboratory: 111 Prison Farm Road
1989	City Prison Farm, Billy Payne: 100 City Farm Road James River Treatment Plant: 111 Prison Farm Road North Shore Laboratory: 111 Prison Farm Road
1992	City Prison Farm, Billy Payne: 100 City Farm Road
1995	Pizzagalli Construction Co., Sheila J Irish: 112 Prison Farm Road
2000	Hampton-Newport News: 100 Prison Farm Road Hampton Road Sanitation Dist: 111 Prison Farm Road
2005	Hampton-Newport News Comm Svc: 100 Prison Farm Road Hampton Road Sanitation Dist: 111 Prison Farm Road Newport News Parks & Rec Dept: 125 Prison Farm Road Riverview Gymnastic Center: 125 Prison Farm Road
2010	Hampton-Newport News Comm Svc: 100 Prison Farm Road Hampton Road Sanitation Dist: 111 Prison Farm Road Mid-Eastern Builders Inc: 111 Prison Farm Road Newport News Parks & Rec Dept: 125 Prison Farm Road Riverview Gymnastic Center: 125 Prison Farm Road
2014	Hampton-Newport News Comm Svc: 100 Prison Farm Road Hampton Road Sanitation Dist: 111 Prison Farm Road HRSD: 111 Prison Farm Road Riverview Gymnastic Center: 125 Prison Farm Road

5.1.5 Title Records

A copy of the Subject Property's Chain of Title has not been reviewed.

5.1.6 Environmental Liens and Activity and Use Limitations

No environmental liens or AULs were identified during the ESA relative to the Subject Property.

5.1.7 Historical Summary

Based on review of historical aerial photographs, topographic maps and city directories, the Subject Property contained a north/south roadway and was traversed by several roads prior to 1907. Farming activities associated with the City Prison Farm occurred within the Subject Property and abutting areas prior

to 1950. The Prison Farm farmland was converted to a public park, the Riverview Farm Park, between 1994 and 2000. Also, the gymnastics training facility located in the Subject Property was constructed between 1994 and 2000.

Development along Menchville Road began before 1970 with several residences being constructed in the Subject Property prior to 1973. The JRTP facility was constructed prior to 1970, and use of the JRTP storage area appears to have begun between 2012 and 2016. The Old Menchville Landfill appears to have been in operation from prior to 1973 until prior to 2006.

5.2 Environmental Regulatory Review

Federal, State, and Tribal Environmental databases were searched to evaluate the environmental regulatory status of the Subject Property. EDR was contracted to compile information and generate a report listing sites identified on select federal and state standard source environmental databases within the Subject Property and a one-mile radius of the Subject Property. Hazen reviewed each environmental database to determine if certain sites identified in the database report are suspected to represent a material negative environmental impact to the Subject Property.

The sites identified by regulatory databases within the search distance are included in **Table 5-4**. The *EDR Summary Radius Map Report* is provided in **Appendix G**.

Table 5-4: Sites Identified by Regulatory Databases

Databases Reviewed	Search Distance (Miles)	Number of Sites Within Search Distance
Federal National Priorities List (NPL) Site List	1	1
Federal Delisted NPL Site List	1	0
Superfund Enterprise Management System (SEMS) (formerly the Federal Comprehensive Environmental Response, Compensation, and Liability Information System [CERCLIS])	0.5	0
Federal CERCLIS No Further Remedial Action Planned (NFRAP)	0.5	2
Federal Corrective Action Tracking System (CORRACTS)	1	1
Federal Resource Conservation and Recovery Information System (RCRIS), Treatment, Storage, and Disposal (TSD) List	0.5	0
Federal RCRIS Generators List	0.25	2
Federal Institutional Control/Engineering Control Registries (IC/EC)	0.5	0
Federal Emergency Response Notification System (ERNS) List	Subject Property	0
Federal Facility Index System (FINDS)	Subject Property	0
RCRA NonGen/NLR	0.25	1

Databases Reviewed	Search Distance (Miles)	Number of Sites Within Search Distance
Department of Defense Sites	1.0	1
State and Tribal Landfills or Solid Waste Facilities List	0.5	1
State and Tribal Leaking UST/Spill List	0.5	6/1
State and Tribal Registered Underground & Aboveground Storage Tank (UST/AST) Lists	0.25	5/0
State Institutional Control/Engineering Control Registries	0.5	0
State and Tribal Voluntary Cleanup Sites	0.5	0
State and Tribal Brownfields Sites	0.5	0
EDR Manufactured Gas Plants	1.0	0
EDR Historic Auto Stations	0.125	0
EDR Historic Cleaners	0.125	0

Federal NPL

The NPL, also known as Superfund, is a listing of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or “Superfund”). A site must be on the NPL to receive money from the Trust Fund for Remedial Action.

Summary of Analysis: One site within the search radius was identified as an NPL site. Fort Eustis Military Reservation, located on Mulberry Island approximately 0.995 mile west of the Subject Property’s southern terminus, is listed as an NPL site. Fort Eustis Military Reservation is separated from the Subject Property by the Warwick River. Numerous issues relative to hazardous materials have been identified in association with the facility. Due to the distance and hydrological position of Fort Eustis Military Reservation relative to the Subject Property, the Fort Eustis Military Reservation is not considered an REC relative to the Subject Property.

Federal Delisted NPL Site List

The U.S. Environmental Protection Agency (USEPA) may delete a final NPL site if it determines that no further response is required to protect human health or the environment. Under Section 300.425(e) of the National Contingency Plan (55 CFR 8845, March 8, 1990), sites that have been deleted from the NPL remain eligible for further Superfund-financed remedial action in the unlikely event that conditions in the future warrant such action. Partial deletions can also be conducted at NPL sites.

Summary of Analysis: The database report did not identify Delisted NPL sites within the search distance.

Federal SEMS

The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS, is the USEPA's system for tracking potential hazardous waste sites within the Superfund program. A site's presence on CERCLIS does not imply a level of federal activity or progress at a site, nor does it indicate that hazardous conditions necessarily exist at the location. Within one year of being entered into CERCLIS, the USEPA performs a preliminary assessment of a site. Based upon the results of the preliminary assessment, the USEPA may conduct additional investigation, which could lead to a site being listed on the NPL.

Summary of Analysis: The database report did not identify federal CERCLIS sites within the search distance.

Federal CERCLIS No Further Remedial Action Planned (NFRAP) Sites

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from the CERCLIS list. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to warrant Federal Superfund Action or NPL consideration. NFRAP sites are presently listed in the SEMS-Archive database.

Summary of Analysis: Two sites within the search radius were identified as NFRAP sites. The Old Menchville Landfill is located in the southeast quadrant of the intersection of Menchville Road and Riverview Parkway. The westernmost portion of the Old Menchville Landfill is located within the northeastern-most portion of the Subject Property. The Old Menchville Landfill was designated as a NFRAP site in 1987. Based on a portion of the Old Menchville Landfill being within the Subject Property, the Old Menchville Landfill is considered to be an CREC.

Menchville High School, located at 275 Menchville Road, approximately 0.12-mile northwest of the northern terminus and at the same elevation as the Subject Property, was designated as a NFRAP site in 1984. Based on the archived status of the Menchville High School case and the crossgradient hydrologic position of Menchville High School relative to the Subject Property, Menchville High School is not considered an REC relative to the Subject Property.

Federal Corrective Action Tracking System (CORRACTS)

CORRACTS is a list of facilities that are found to have had hazardous waste releases and require Resource Conservation and Recovery Act (RCRA) corrective action activity, which can range from site investigations to remediation.

Summary of Analysis: The database identified one site within the search distance on the CORRACTS database. Fort Eustis Military Reservation, located on Mulberry Island approximately 0.995 mile west of the Subject Property's southern terminus, is reported as having been assigned a high corrective action priority in 1996. Due to the distance and hydrological position of Fort Eustis Military Reservation relative to the Subject Property, the Fort Eustis Military Reservation is not considered an REC relative to the Subject Property.

Federal Resource Conservation and Recovery Information System (RCRIS), Treatment, Storage, and Disposal (TSD) Facilities

The RCRIS TSD database contains information pertaining to those facilities that treat, store, or dispose of hazardous waste. While these facilities represent some form of hazardous waste activity, they are most significant if determined to be out of compliance or to have violations.

Summary of Analysis: The database report did not identify RCRIS TSD facilities within the search distance.

Federal RCRIS Generators

Under RCRA, hazardous waste generators are classified by the quantity of hazardous waste generated in a calendar month into the following categories: Large Quantity Generator (LQG), greater than 1,000 kilograms (kg); Small Quantity Generator (SQG), 100 to 1,000 kg; and Conditionally-Exempt Small Quantity Generator (CESQG), less than 100 kg. RCRIS Generators, while they represent some form of hazardous waste activity, are most significant if they are determined to have Class I Violations or to be non-compliant.

Summary of Analysis: The database identified the JRTP within the Subject Property as a CESQG and one site, Menchville High School, as a SQG within the search distance. The sites are described in **Table 5-5**. Neither of the sites is listed as having had a violation. It is considered unlikely that conditions associated with Menchville High School represents an environmental concern to the Subject Property. Although the JRTP site is listed as a CESQG, conditions associated with the JRTP relative to generation of hazardous waste is not considered to represent an environmental concern to the Subject Property. Therefore, the hazardous waste generation classification of Menchville High School and the JRTP are not considered RECs relative to the Subject Property.

Table 5-5: SQG and CESQG Sites Identified by Regulatory Databases

Site Name and Address	Classification	Approximate Distance and Direction from Subject Property	Elevation Relative to Subject Property	Violations
JRTP 111 City Farm Road	CESQG	Within Subject Property	---	None listed
Menchville High School 275 Menchville Road	SQG	0.12 mile	Same	None listed

Federal Institutional Control/Engineering Control (IC/EC) Registries

These Federal registries contain listings of those sites that have either engineering and/or institutional controls in place. Engineering controls (ECs) include various physical control devices such as fences, caps, building slabs, paved areas, liners and treatment methods to eliminate pathways for regulated substances to enter the environment or affect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post-remediation care requirements intended to prevent exposure to contaminants remaining onsite. Deed restrictions (AULs) are generally required as part of institutional controls.

Summary of Analysis: The database report did not identify the Subject Property or sites within the search distance on the Federal IC/EC database.

Federal Emergency Response Notification System (ERNS) List

The ERNS is a database of notifications of oil discharges and hazardous substance releases made to the Federal government. These notifications are used by “OnScene Coordinators” to determine an emergency response and release prevention. When a call is made to the National Response Center or one of the 10 USEPA Regions, a report is created containing all of the release information that the caller provided. This report is transferred to an appropriate agency to evaluate the need for a response, and the records are electronically transferred to the ERNS database. As such, if a reported release of oil or a hazardous substance is deemed to require a response, it should also be listed in the appropriate federal or state environmental database such as CERCLIS, state equivalent CERCLIS, or state leaking underground storage tank or spills lists.

Summary of Analysis: The database report identified the Subject Site on the ERNS database. The JRTP, located at 111 City Farm Road within the Subject Property, experienced equipment failure when a pressure gauge on a waste treatment pipe blew in 1993 emitting an estimated 50 pounds of chlorine that reached a nearby waterway, resulting in an ERNS incident. No remedial action is reported as having occurred in conjunction with the aforementioned incident due to the material dissipating into the atmosphere. A second ERNS incident is reported to have occurred in 1994 when equipment failure resulted in an aboveground storage tank (AST) leak. The leak is reported to have resulted in discharge of an estimated 800 gallons of ferric chloride that affected soil. Remedial actions reported in response to the discharge include draining the recovered product into the onsite treatment system and applying lime on the impacted soils. The incidents at the JRTP facility listed in the ERNS database are not considered RECs relative to the Subject Property.

Facility Index System (FINDS)

FINDS listings are usually associated with a site’s inclusion on other databases, such as RCRIS, CERCLIS, Aerometric Information Retrieval System, and Permit Compliance System.

Summary of Analysis: The JRTP within the Subject Property is listed by FINDS relative to two incidents. The first FINDS listing is from 2007 relative to NPDES permitting compliance. No date or information was provided by the database relative to the second incident except that the incident related to compliance and emissions reporting. The listings of the JRTP by FINDS is relative to permitting compliance and is not considered an REC relative to the Subject Property.

Department of Defense Sites

Department of Defense (DOD) sites are federally owned or administered lands that are administered by the DOD and are 640 acres or greater in size.

Summary of Analysis: The southernmost portion of Fort Eustis Military Reservation is located approximately 0.922 mile west southwest of the southwestern terminus of the Subject Property. The southern portion of Fort Eustis Military Reservation consists of undeveloped land. The developed portion of Fort Eustis Military Reservation is located more than a mile from the southwestern terminus of the

Subject Property. The military facility listed on numerous federal databases, including NPL and SEMS. However, due to the distance of the developed portions of the facility from the Subject Property and that most of the area between the facility and the Subject Property is the Warwick River, the Fort Eustis Military Reservation is not considered an REC relative to the Subject Property.

RCRA Non-Generators

The RCRA database includes selective information on sites that generate, transport, store, treat, and/or dispose of hazardous waste, as defined by RCRA. RCRA Non-Generators lists sites that do not presently generate hazardous waste.

Summary of Analysis: Menchville Marine Supply Corporation, located at 494 Menchville Road approximately 0.25-mile east southeast from the Subject Property corridor and at a lower elevation than the Subject Property, is listed as a transporter of hazardous waste. The violation status of the Menchville Marine Supply Corporation is listed as no violations found. The Menchville Marine Supply Corporation status as a RCRA non-generator is not considered to be an REC relative to the Subject Property.

5.3 State and Tribal Databases

Local Solid Waste Facilities (SWF)/ Landfill Facilities (LF) Sites and Open Dumps on Tribal Lands

The Virginia SWF/LF database contains an inventory of solid waste disposal facilities and landfills in the state.

Summary of Analysis: No SWF/LF sites are listed in the EDR report within the search radius.

State and Tribal Leaking Underground Storage Tanks (LUST) and Spill Lists

The Virginia and Tribal Leaking Underground Storage Tank (LUST) lists are inventories of spills and leaks, both active and inactive, and include stationary and non-stationary source spills reported to state and tribal agencies. The LUST lists include remediated and contaminated LUST sites. The Spills List is a compilation of data collected on spills and emergency releases in Virginia and reported to the State.

Summary of Analysis: One spill site, the JRTP facility, and six LUST and spill sites within approximately 0.5 mile of the Subject Property were identified by the databases. The sites are described in **Table 5-6**. Numerous spill incidents are reported in association with the JRTP; however, all the spill incidents have been closed and were closed soon after the reported incidents occurred.

Of the six LUST sites within 0.5 mile of the Subject Property, three are within 0.25 mile of the Subject Property. The Ushman Property abuts the eastern Subject Property boundary. The Ushman Property LUST incident case was closed by the State within four days of the incident occurring. The specific location of the Newport News City Farm (City Prison Farm) LUST incident is not specified in the database or State reports. The remaining four LUST incidents are located 0.25 mile or greater from the Subject Property and the incidents were closed by the State within six months of the incident. All of the USTs associated with the above referenced petroleum leaks have been removed from the ground.

Due to the closed status of the LUST listed incident cases indicates that the incidents have been remediated to the satisfaction of DEQ, the listed LUST incidents are not considered RECs for the Subject Property. The numerous spills that have been reported relative to the JRTP facility are not considered RECs; however, the potential for future spills at the JRTP to impact the Subject Property is considered an REC.

Table 5-6: LUST and Spill List Sites Identified by Regulatory Databases

Site Name and Address	Approximate Distance and Direction from Subject Property	Elevation Relative to Subject Property	Facility and Incident Information
JRTP 111 City Farm Road	Subject Property	---	<ul style="list-style-type: none"> • Spill of unreported type or quantity of material reported on 4/24/2000 – incident closed on 4/26/2000 • Spill of an unreported quantity of low chlorine residual reported on 4/16/2001 – incident closed date not provided • Spill of 250 gallons of rainwater reported on 6/13/2002 – incident closed on 6/18/2002 • Spill of unreported quantity of final effluent reported on 7/26/2002 – incident closed on 7/29/2002 • Spill of unreported quantity of chlorine reported on 7/17/2002 – incident closed on 8/22/2002 • Spill of 1,500 gallons of raw sewage into Warwick River via a storm drain reported on 7/19/2003 – incident closed on 7/29/2003 • Spill of 1,500 gallons of raw sewage into Warwick River reported on 8/5/2003 – incident closed on 8/21/2003 • Spill of 2,000,000 gallons of raw sewage into Warwick River reported on 8/7/2003 – incident closed date not provided • Spill of 300 gallons of raw sewage into Warwick River reported on 8/13/2003 – incident closed date not provided • Spill of 30 gallons of caustic solution into containment tank reported on 9/19/2008 – incident closed on 9/23/2008 • Spill of 200 gallons of non-potable water into storm drain reported on 3/4/2009 – incident closed on 3/5/2009 • Spill of 1,000 gallons of wastewater into Warwick River via a storm drain reported 9/30/2010 – incident closed on 10/19/2010 • Spill of approximately 3,000 gallons of non-potable water into a storm drain reported on 8/28/2011 – incident closed 9/1/2011 • Spill of 400-500 gallons of bypass water into the James River via a storm drain reported on 10/19/2011 – incident closed on 10/24/2011 • Spill of unreported quantity of raw sewage to James River reported on 8/27/2012 – incident closed on 10/25/2012 • Spill of approximately 100 gallons of sewage into the James River via a storm drain reported on 11/29/2012 – incident closed on 11/30/2012

Site Name and Address	Approximate Distance and Direction from Subject Property	Elevation Relative to Subject Property	Facility and Incident Information
			<ul style="list-style-type: none"> • Spill of approximately 120 gallons of fully treated, chlorinated effluent into a drainage ditch reported on 10/13/2015 – incident closed on 10/16/2015 • Spill of 50 gallons of wastewater in the James River reported on 11/19/2015 – incident closed on 11/23/2015 • Spill of approximately 1,500 gallons of raw influent into Warwick River reported on 2/24/2016 – incident closed on 3/17/2016 • Spill of 500 gallons of untreated sewage to abutting creek via a storm drain reported on 5/4/2016 – incident closed on 5/20/2016 • Spill of up to 10,000 gallons of sewage to James River reported on 10/8/2016 – incident closed on 10/26/2016 • Spill of approximately 7,100 gallons of non-potable water reported on 8/2/2017 – incident closed on 8/9/2017 • Spill of 30 gallons of non-potable water into storm drain that discharges to the creek west of the facility reported on 6/30/2018 – incident closed on 11/14/2018 • Spill of approximately 50 gallons of unrecoverable non-potable water reported on 10/22/2018 – incident is reported to be closed • Spill of approximately 275 gallons of well water/plant drain water released via storm drain reported on 12/21/2018 – incident listed as open but no recent entries in the incident report •
Ushman Property 360 Old Menchville Road	Abutting East	Higher	<ul style="list-style-type: none"> • Release from a LUST reported on 7/10/2014 – case listed as closed 7/14/14 with no further action required
Newport News City Farm 100 City Farm Road	400 feet Southeast	Higher	<ul style="list-style-type: none"> • Release from a LUST reported on 6/24/2003 – incident closed on 10/9/2003
Menchville Marine Supply Corporation 494 Menchville Road	0.25 mile East	Lower	<ul style="list-style-type: none"> • Release from a LUST reported on 1/18/2000 – incident closed on 10/10/2006
Charles Elementary School 101 Youngs Road	0.3 mile Northwest	Same	<ul style="list-style-type: none"> • Release from a LUST reported on 5/18/1993 – incident closed on 10/6/1993
Edward Folts Property 209 Dabney Drive	0.4 mile East	Higher	<ul style="list-style-type: none"> • Release from a LUST reported on 10/27/2017 – incident closed on 2/12/2018
James River Marina 665 Deep Creek Road	0.5 mile East	Lower	<ul style="list-style-type: none"> • Release from a LUST reported on 5/9/2001 – incident closed on 5/15/2001

State and Tribal Registered Underground & Aboveground Storage Tank (UST/AST) Lists

The underground storage tank (UST)/AST lists are an inventory of registered liquid bulk storage tanks maintained either by the county, State, or Tribe. Inclusion of a site on the UST/AST list indicates the presence of registered bulk storage tanks and does not constitute environmental contamination.

Summary of Analysis: The database reports identified five UST sites and no AST sites within the search distance. Although not reported in the EDR databases, ASTs have been present at the JRTP facility within the Subject Property since commencement of operation of the facility. The reported UST sites are described in **Table 5-7**. It should be noted that except for USTs and ASTs associated with the JRTP facility, no active USTs or ASTs are reported within 0.25 mile of the Subject Property.

Although not reported in the databases, it is assumed that the City Prison Farm historically contained USTs or ASTs that are not reported. Additionally, although the address for City Prison Farm is 400 feet southeast of the Subject Property, the area utilized by City Prison Farm is located within and abutting almost all the Subject Property. The portion of the historical City Prison Farm parcel within the Subject Project corridor from north of City Farm Road is not anticipated to have historically contained USTs or ASTs. The portion of City Prison Farm within the JRTP sites may have historically contained USTs or ASTs. The unknown presence, location, and closure or removal status of USTs and ASTs that may have been present during use of the JRTP facility and storage area portions of the Subject Property by the City Prison Farm is considered an HREC for the Subject Property.

Table 5-7: UST and AST List Sites

Site Name and Address	Approximate Distance and Direction from Subject Property	Elevation Relative to Subject Property	Facility and Incident Information
JRTP 111 City Farm Road	Subject Property	---	<ul style="list-style-type: none"> One 20,000-gallon diesel UST installed on 4/4/2013 – currently in use One 2,500-gallon gasoline UST installed on 9/1/1991 – currently in use One 6,000-gallon diesel UST installed on 9/1/1991 – reported as having been removed on 6/5/2013 One 2,000-gallon gasoline UST installed on 5/7/1968 – reported as having been removed on 9/26/1991
City Farm Maintenance 100 City Farm Road	400 feet Southeast	Higher	<ul style="list-style-type: none"> One 1,000-gallon diesel UST whose installation date is not provided – reported as having been removed One 2,000-gallon diesel UST installed on 11/15/2000 – reported as having been removed One 2,000-gallon gasoline UST whose installation date is not provided – reported as having been removed One 2,000-gallon gasoline UST installed on 11/15/2000 – reported as having been removed
Sewage Pump Station #120 116 Canvas Back Trail	0.1 mile East	Lower	<ul style="list-style-type: none"> One 500-gallon diesel UST installed on 5/1/1987 – reported as having been removed

Site Name and Address	Approximate Distance and Direction from Subject Property	Elevation Relative to Subject Property	Facility and Incident Information
Menchville High School 275 Menchville Road	0.1 mile Northwest	Same	<ul style="list-style-type: none"> One 10,000-gallon heating oil UST installed on 8/1/1970 – reported as having been closed in place
Menchville Marine Supply Corporation 494 Menchville Road	0.25 mile East	Lower	<ul style="list-style-type: none"> One 2,000-gallon gasoline UST whose installation date is not provided – reported as having been closed in place One 3,000-gallon diesel UST whose installation date is not provided – reported as having been closed in place One 4,000-gallon gasoline UST whose installation date is not provided – reported as having been closed in place

Virginia Engineering Control (EC)/ Institutional Control (IC) Registry

The Virginia Institutional Control Registry contains a listing of contaminated sites in the State that are subject to ECs or ICs. ECs or ICs include a multitude of methods to contain or reduce contamination, such as groundwater pumping and treatment, capping of landfills, and vapor extraction systems. The ECs and ICs also provide physical barriers to limit access to the site, such as fencing and guards.

Summary of Analysis: The database report did not identify any EC or IC sites within the search distance.

State Voluntary Cleanup Program (VCP) and Tribal Voluntary Cleanup Priority Listing

The Virginia VCP provides a listing of closed and active voluntary cleanup sites. The Tribal Voluntary Cleanup Priority Listing details voluntary cleanup priority sites on tribal land.

Summary of Analysis: The database report did not identify any VCP sites within the search distance.

State and Tribal Brownfield Sites

Brownfields are defined as abandoned, idled, or underused industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.

Summary of Analysis: The database report did not identify any brownfield sites within the search distance.

5.4 EDR Proprietary Databases

EDR Manufactured Gas Plants (MGP)

The MGP database includes records of coal gas plants (former manufactured gas plants) compiled by EDR’s researchers. Manufactured gas sites were used in the United States from the 1800’s to the mid-1900’s to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of wastes. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and nonvolatile chemicals), sludges, oils and other compounds, are potentially hazardous to human health and the environment. The byproduct

from this process was frequently disposed of directly at the plant site and can remain in place or spread slowly, serving as a continuous source of soil and groundwater contamination.

Summary of Analysis: The database report did not identify properties within the search distance on the MGP database.

EDR Historical Automobile Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas stations/filling stations/service station sites. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas stations/filling stations/service station establishments. The categories reviewed included, but were not limited to, gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, and service station.

Summary of Analysis: The database report did not identify sites within the search distance on the historical automobile station database.

EDR Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to, dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, and wash and dry.

Summary of Analysis: The database report did not identify sites within the search distance on the historical cleaners database.

6. Site Inspection

6.1 Methodology and Limiting Conditions

The objective of the site reconnaissance is to obtain information indicating the likelihood of RECs in connection with the Subject Property. Where access to portions of the site or to structures on the Subject Property was unavailable or limited, Hazen renders no opinion as to the presence of direct or indirect evidence relating to petroleum substances, hazardous substances, or both in that portion of the Subject Property and structures. Due to the size of the Subject Property, visual assessment of all portions of the site was not feasible or was not performed. However, areas in which incidents, storage or use of constituents of concern are reported in the databases, and areas in which ongoing or historic use of constituents of concern are anticipated to occur were assessed to the extent feasible. Hazen renders no opinion as to the presence of direct or indirect evidence relating to petroleum substances, hazardous substances, or both in portions of the Subject Property that were not visually assessed or included in the databases.

The site visit was conducted on April 24 and 25, 2019 and January 15 and 16, 2020 by Linda Diebolt, representing Hazen. No weather restrictions occurred during the time of site inspection. Hazen conducted the site reconnaissance in a systematic survey manner. As stated, visual assessment of all portions of the site was not feasible or performed. Except for the JRTP parcel, the Subject Property consists of portions of numerous parcels with numerous owners and is used for numerous purposes. Assessment of the interior of structures located outside of the JRTP facility was not performed during the site reconnaissance. Within the JRTP facility, visual assessment of the interior of structures used solely for wastewater treatment was not performed.

Field reconnaissance of the site and structures on the Subject Property was performed on foot and by vehicle. Site observations were conducted to obtain information indicating the likelihood of RECs to be present at the Subject Property. Site observations indicated the present uses in the Subject Property varied from a wastewater treatment facility and associated storage area, a public park including a gymnastics training facility and dog park, paved roadways and parking areas, undeveloped portions of the City Prison Farm, a closed landfill, single-family residences, and undeveloped wooded areas.

The southwestern portion of the Subject Property consists of an active wastewater treatment facility and its associated storage area. The treatment plant is bound to the southeast, south, and west by undeveloped wooded area that is within the Subject Property. The remainder of the southernmost portion of the Subject Property consists of a small portion of the City Prison Farm site consisting of maintained grass, and portions of Riverview Farm Park consisting of maintained grass areas, paved roadways and parking areas, a portion of a dog park, and a portion of a gymnastics training facility. The Subject Property corridor that extends from the aforementioned areas to the northern terminus of the Subject Property consists mainly of maintained grass areas associated with the public park and its associated paved walking trails, paved roadways and associated maintained and landscaped areas. Single-family residences, undeveloped wooded land, and land associated with the Old Menchville Landfill are also located in the Subject Property corridor.

Assessment of the JRTP facility found the site to contain USTs and ASTs and their associated piping, as well as numerous structures, components, and piping associated with operation of the treatment facility.

The JRTP storage area was observed to contain various types of material, piping, and empty containers. A manmade berm was present along the southeastern boundary of the storage area. Assessment of the undeveloped wooded area northwest of the fenced treatment plant and storage area was performed, and numerous debris disposal areas were observed. The debris appeared to have been pushed down embankments from the northwestern portion of the JRTP site. It is not known and was not evident at the time of site reconnaissance as to when the material was placed in the wooded area, if it was all placed at the same, or if it was placed over time. Photographs taken during site reconnaissance of the site observations noted herein are provided in **Appendix H**. Specific observations relating to potential RECs at the Subject Property are discussed herein.

Hazardous Substances and Petroleum Products in Connection with Identified Uses

Hazen observed hazardous substances and petroleum products in use and stored at the JRTP facility. The products observed and reported to be present at the JRTP facility are used in the operation and maintenance of the treatment plant. **Table 6-1** provides a summary of the hazardous materials and petroleum products used and stored at the JRTP facility including the number and type of tanks in which each product is stored and the volume of product for which available storage is presently available. A numbered listing and site map showing the location of each of the materials listed in **Table 6-1** is provided in **Appendix H**. Other than those observed at the JRTP facility, no storage of hazardous substances or petroleum products were observed within the Subject Property. It is assumed that typical household amounts of hazardous substances and petroleum products are present in association with the single-family residences located in the Subject Property. No storage of quantities of products not typical of identified uses was observed during the site assessment. The bulk storage and use of hazardous substances and petroleum products for operation of the treatment facility is considered an REC.

Table 6-1: JRTP Hazardous Substances and Petroleum Products

Product	Number and Type of Storage Tanks	Volume (gallons)
Propane	1 AST	500
Propane	1 AST	250
Gasoline	1 UST	2,500
Diesel fuel	1 UST	20,000
No. 2 fuel oil	1 AST	2,500
No. 2 fuel oil	1 AST	4,000
Sodium bisulfite	2 AST	4,500
Sodium hypochlorite	4 AST	7,050
Sodium hydroxide	2 AST	10,000
Sodium hydroxide	2 AST	18,000
Hydrochloric acid	1 AST	1,000
Polymer	2 AST	1,000
Polymer	2 AST	8,000
Polymer	2 AST	2,500
Defoamer	2 carboys	500
Waste oil	1 AST	500
Flammable liquids	Locker	Varies

Product	Number and Type of Storage Tanks	Volume (gallons)
Methane gas	2 AST	30,000
AnitaMox micronutrients	1 AST	250

Storage Tanks

Numerous ASTs, and two fill ports and two vent pipes associated with two USTs were observed in the JRTP facility of the Subject Property at the time of site assessment. A summary of the size and volume of the ASTs observed in the JRTP facility is provided in Table 6-1. Several empty small, mobile storage tanks were observed in the JRTP storage area. No stained soils or evidence of stressed or dead vegetation was observed in proximity to the observed storage tanks. Other than the aforementioned storage tanks observed in the JRTP areas, no storage tanks were observed within the Subject Property at the time of site reconnaissance. The presence of numerous USTs and ASTs in the JRTP facility in the Subject Property is considered an REC.

Strong, Pungent, or Noxious Odors

Hazen did not identify strong, pungent, or noxious odors suspected to represent an environmental concern on the Subject Property.

Pools of Liquid

Hazen did not observe areas of standing surface pools containing liquids other than rainwater in the Subject Property.

Drums and Containers

Containers of various products and various sizes were observed in the JRTP facility. The larger of the containers are listed in **Table 6-1**. In addition to the products and containers specified in **Table 6-1**, various small containers of miscellaneous products were observed in the JRTP facility. The products are typical for use and storage at a treatment plant and its associated structures. No excessive staining, dead or stressed vegetation, or evidence of spills was observed in association with the containers observed in the JRTP facility at the time of reconnaissance.

Hazen observed numerous rusted drums along the embankment located northwest of the JRTP sites. The drums, along with other debris, appeared to have been pushed down the embankment abutting the JRTP fenced areas. None of the debris appeared to have been recently deposited. Due to the rusted condition of the drums, no labels were present. None of the drums were observed to contain product; however, the drums were observed to be in very poor condition and not capable of holding liquid. No evidence of suspect material, soil discoloration, unusual odor, or dead or stressed vegetation was observed at the time of assessment in association with the drums located in the wooded area northwest of the JRTP sites. Pictures depicting some of the drums observed are included in **Appendix H**.

Except for the aforementioned JRTP facility and abutting wooded area northwest of the JRTP areas, no drums or containers suspected of storing hazardous or petroleum products were observed at the time of reconnaissance within the Subject Property. The drums and containers observed in the JRTP facility and

storage area are not considered a REC relative to the Subject Property. Due to the unknown presence or nature of the historical contents, if any, of the drums observed and those that may not be visible but present in the wooded area northwest of the JRTP sites, the debris disposal area is considered a REC relative to the Subject Property.

Polychlorinated Biphenyls (PCBs)

Pole-mounted transformers were observed in the Subject Property during the site reconnaissance. The transformers were marked as non-PCB and are not suspected to represent an environmental concern to the Subject Property.

Heating and Cooling

The administration building at the JRTP and the gymnastic training facility contained electric heating and cooling systems at the time of site reconnaissance. It is not known if the residences in the Subject Property have natural gas heating systems. The heating and cooling systems present in structures within the Subject Property are not considered REC's.

Stains or Corrosion

Several small areas of staining were observed on asphalt and gravel areas within the Subject Property in areas in which vehicles park. The aforementioned areas of staining are discussed below in the *Stained Soil or Stained Pavement* section. No additional staining or areas of corrosion were observed on the Subject Property during site reconnaissance. The areas of staining observed within the Subject Property are considered to be a de minimis condition.

Drains and Sumps

Numerous drains and sumps associated with operation of the treatment plant are located within the JRTP facility. The sumps within the treatment facility discharge the pumped liquid into the appropriate stage of the facility's waste stream. Additionally, numerous stormwater drains are present in the JRTP facility, the parking area associated with the gymnastics training facility, and along public roadways within the Subject Property. The stormwater drains in the JRTP facility discharge to the northwest into channels that flow into a stream that flows into the Warwick River and to the southwest into the James River. The JRTP facility stormwater discharge locations and all or portions of the associated discharge channels are within the Subject Property.

Stormwater collected via inlets within the Subject Property, excluding the JRTP facility, are anticipated to flow into the City of Newport News stormwater system or into existing stormwater swales or ditches and not suspected to represent an environmental concern to the Subject Property. Based on observed topography relative to stormwater drains in the JRTP facility, discharge of sewage overflow or spills in the JRTP facility will flow into the stream northwest of the facility that discharges into the Warwick River or into the James River. The potential for drains within the JRTP facility to discharge sewage, hazardous materials, or petroleum products to nearby sensitive receptors is considered an REC.

Pits, Ponds, or Lagoons

Other than open tanks associated with the wastewater treatment process, no pits, ponds, or lagoons suspected of containing hazardous substances or petroleum products were identified on the Subject Property. The open wastewater tanks associated with the JRTP facility are considered to be an REC.

Stained Soil or Stained Pavement

Areas of stained pavement, gravel, and soil was observed at the time of site reconnaissance in vehicle parking areas in the JRTP facility and gymnastics training facility portions of the Subject Property. The staining observed in the vehicle parking areas appeared to be typical of areas in which passenger vehicles park. Stained soil and gravel were observed in some of the areas in which filling of the JRTP facility ASTs occurs; however, the observed areas of staining were small and faint. The observed areas of staining in the parking areas and in the AST filling areas are considered to be *de minimis* conditions and are not considered RECs.

Stressed Vegetation

Hazen did not observe evidence of stressed or dead vegetation on the Subject Property.

Solid Waste

Within the Subject Property, the JRTP facility, gymnastics training facility, and residences generate solid waste. Solid waste generated by the JRTP facility is expected to be typical of an office, as well as solid waste generated in association with operation and maintenance of a wastewater treatment facility. Solid waste generated by the gymnastics facility is expected to be typical of an office, as well as solid waste typical for operation and maintenance of a sports training facility. Solid waste generated by the residences in the Subject Property is expected to be typical of a residence. A solid waste dumpster was observed within the JRTP at the time of assessment. The solid waste generated or stored within the Subject Property are not considered RECs.

Fill Materials

Evidence of fill materials having been placed in several areas was observed during the site reconnaissance of the Subject Property. The westernmost boundary of the Subject Property is located outside of the fenced areas associated with the JRTP facility and storage area. The land outside the fenced JRTP area slopes down to a floodplain and its associated wetland and stream. Numerous areas in which fill material were observed are located on and at the base of the slopes. The fill material was observed to be comprised of various types of debris including, but not limited to, concrete slabs, piping, metal debris/equipment components, and rusted-out 55-gallon drums. Pictures showing the typical composition of the fill material observed along the slope northwest of the fenced JRTP areas are included in **Appendix H**.

Review of the 2006 and 2009 aerial photographs, fill material was placed within the northeastern portion of the JRTP storage area. The area of fill is visible in the aerial photographs and was observed during site reconnaissance. The fill material was observed to extend from the northeastern to the southeastern boundary of the JRTP storage area parallel to the eastern storage area boundary.

A raised, landscaped and grass berm is located along the east side of Riverview Parkway from Menchville Road South to Camellia Road. A raised berm that appeared to be maintained on an irregular basis and is vegetated with herbaceous vegetation, shrubs, and saplings extends from Camellia Road to Menchville Road and provides a visual barrier from Riverview Parkway to the Old Menchville Landfill site.

A large area of fill material abuts the Subject Property along the northern boundary of the JRTP storage area. The area of fill is within the Riverview Farm Park and is used as an overlook area. At the time of site assessment, the area of fill was vegetated with grasses. The City of Newport News' *Master Plan* for the Deep Creek/Menchville area dated February 27, 1990 denotes the overlook mound and abutting areas of the public park as "dredge spoil easement". Therefore, it appears that the fill material used to create the overlook mound is dredge material from U.S. Army Corps of Engineers activities.

During the site reconnaissance, a soil probe was used in the JRTP storage area to obtain soils for the wetland delineation. Advancing the soil probe into the soil was not possible in areas of the storage area due to the presence of what appeared to be fill material.

Although areas of fill material are located in several areas within the Subject Property, areas of fill that are not located in the aforementioned area northwest of JRTP sites are not considered RECs relative to the Subject Property. The fill material present along the slope west of the fenced portion of the JRTP facility and storage area is considered an REC.

Wastewater

The Subject Property includes the JRTP facility. Transmission lines containing wastewater are present in the residential area within and abutting the Subject Property. Additionally, wastewater transmission lines that transport wastewater to the JRTP for treatment are present in the Subject Property. Wastewater in the Subject Property is generated by the Riverview Gymnastics Center, the JRTP facility, and residences and is expected to be typical for the facility generating the wastewater. At the time of reconnaissance, no areas of wastewater not associated with ongoing treatment were observed in the Subject Property. Wastewater generated by the aforementioned facilities is not considered to be a REC for the Subject Property; however, the wastewater entering and being treated within the JRTP facility is considered an REC.

Wells

No water supply wells were observed or reported on the Subject Property.

Septic Systems or Cesspools

No septic systems or cesspools were identified on the Subject Property.

7. Conditions Outside the Scope of ASTM E 2247-16

The evaluation of conditions outside the scope of the ASTM E 2247-16 included limited asbestos-containing materials (ACM) and lead-based paint (LBP) to provide an indication of the potential for business environmental risks associated with these conditions outside the scope of the ASTM Standard. Concealed building materials such as those inside walls, inaccessible attics, crawl spaces, and inside ductwork were not evaluated; drinking water and radon gas were not evaluated or tested. Wetlands within the Subject Property were surveyed but are not considered or discussed herein. As such, the information presented in the following sections should not be misconstrued as comprehensive surveys for any other use than that stated above.

7.1 Lead-Based Paint (LBP)

LBP use in residential housing was banned by the Consumer Products Safety Commission (CPSC) in 1978. The CPSC ban did not include commercial facilities, nor did it mandate removal of LBP in residences. Congress passed the Residential Lead-Based Paint Hazard Reduction Act, also known as Title X in 1992. Title X establishes the infrastructure and standards necessary to reduce LBP hazards in housing. Title X defines LBP as containing at least 0.5 percent lead, by weight. Title X also amended the Toxic Substances Control Act (TSCA) to give USEPA direction to work with other federal agencies to enact regulations designed to protect the public from exposure to lead.

Under applicable Occupational Safety and Health Administration (OSHA) regulations, if paint contains any concentration of lead and will be disturbed (e.g. via sanding, welding, scraping, grinding, etc.) in a way to create fine mists, fumes, or fine particulate aerosols which could be inhaled or ingested by site workers, the proposed construction plans should be reviewed by a qualified individual. The reviewer shall evaluate the plans for compliance with federal, state and local regulations, including the OSHA Safety and Health Regulations for Lead in Construction Standard (29 CFR 1926.62).

Painted surfaces observed in the Subject Property consist of the exterior and interior of the JRTP structures and buildings, the gymnastics training facility, asphalt marking, safety and informational signage, and exterior areas of the single-family residences and their associated outbuildings. Due to the age of construction of most of the improved areas within the Subject Property, LBP may be present. Demolition of components of the JRTP facility will occur as part of the proposed work, and proper demolition activity and disposal protocols will have to be followed.

7.2 Asbestos-Containing Materials (ACM)

Materials which contain over one percent (1%) asbestos fibers are considered regulated ACM and must be handled according to the USEPA and OSHA regulations if disturbed. ACMs identified as "friable" are highly susceptible to release of fibers to the atmosphere and are of greater concern than non-friable ACMs. Friable ACMs that are damaged require renovation or removal and are of the greatest immediate concern.

Under the Asbestos Hazard Emergency Response Act regulations, the USEPA categorizes all suspect ACM materials as: Surfacing Material, Thermal System Insulation, or Miscellaneous ACM. The purpose of an inspection is to identify the potential presence of Presumed Asbestos-Containing Material (PACM). Per the OSHA Asbestos Standard for Construction (29 CFR 1926.1101), PACM is defined by OSHA as "thermal system insulation and surfacing material found in buildings constructed no later than 1980".

No potential uses of ACM were observed within the Subject Property during the site reconnaissance; however, based on the age of the administration building, the possibility exists that friable and non-friable ACM exists in the Subject Property structure.

8. Findings, Opinions, Conclusions, and Recommendations

8.1 Environmental Report Findings

The environmental findings identified RECs or Issues that may be a concern to the Subject Property or warrant mention in the Phase I ESA and are summarized below. Supporting information is detailed within the appropriate sections throughout the report. Findings identified as RECs were those determined to comprise a condition meeting the definition of a REC as indicated in Section 1.1 of this report.

Old Menchville Landfill

The Old Menchville Landfill is located within and abuts the northeastern-most portion of the Subject Property. At the time of site reconnaissance, the landfill area was vegetated with herbaceous species. The landfill is listed in the Superfund Enterprise Management System archive database as not qualifying for the National Priority List with No Further Remedial Action Planned.

JRTP Areas

The JRTP areas are in the southwestern-most portion of the Subject Property and is abutted to the southwest by the Warwick River and James River, to the northwest by an unnamed tributary to the Warwick River, and to the southeast by an unnamed tributary to the James River. At the time of generation of this report, the JRTP areas consist of an active wastewater treatment plant facility and a storage area in which treatment operations do not occur and in which bulk storage of hazardous materials or petroleum products does not occur. The JRTP facility is listed on numerous databases and is reported to have had numerous spills/discharge incidents that have been reported to regulatory agencies and to have bulk storage of hazardous materials and petroleum products in ASTs and USTs. Raw sewage is transported via underground pipes to the JRTP facility for treatment. A portion of the wastewater treatment process at the JRTP facility includes use of open wastewater tanks. Within the JRTP facility, numerous stormwater drains that discharge directly to waterways or drainageways that abut the JRTP areas to the northwest, southwest, and southeast are present.

Debris Areas

Disposal of debris, including 55-gallon drums, historically occurred along the embankment located northwest of the JRTP sites. No evidence of suspect material, soil discoloration, unusual odor, or dead or stressed vegetation was observed at the time of assessment in association with the drums located in the wooded area northwest of the JRTP sites. However, the drums observed were in very poor condition and no longer capable of containing liquids.

Historical City Prison Farm Use Area

Due to the timeframe in which the City Prison Farm was in operation, it is assumed that USTs and/or ASTs were used prior to applicable registration requirements. The portion of the City Prison Farm located in the JRTP areas was depicted on the historical aerial photographs as having been taken out of crop production with active land disturbance evident in the JRTP storage area. A structure and unknown objects are visible in historical aerial photographs along the northwestern edge of the JRTP facility area. Use of fertilizers,

herbicides, and pesticides are anticipated to have been used during farming operations at the City Prison Farm; however, the location of the storage of these items is not known.

Asbestos-Containing Materials: No evidence of suspect ACM was observed in the Subject Property; however, based on the age of the buildings in the JRTP facility, there may be ACM present within structures or associated with components of the treatment process on the Subject Property.

LBP/LCP: Painted surfaces observed in the JRTP facility portion of the Subject Property associated with onsite buildings, safety structures, and treatment process components were in poor to fair condition. Based on the age of the JRTP facility, LBP may be present.

8.2 Opinions and Conclusions

Based on the findings of the site reconnaissance and review of the environmental databases, as provided by Environmental Data Resources®, areas of concern were noted within the study area. It should be noted that a site being designated as an REC does not necessarily mean that the study area has or will be negatively affected, but that due to the nature of the past, present, or future activities, the REC site is recognized as having the potential to impact the study area.

This assessment has revealed no evidence of RECs in connection with the Subject Property except the following:

Old Menchville Landfill

- Based on a review of the database report, the Old Menchville Landfill, of which a portion is located within the northeastern-most portion of the Subject Property, was historically reported to contain groundwater and/or soil contamination. Based on the historical presence of hazardous materials within the Old Menchville Landfill site, Hazen is of the opinion that the presence of past known contamination associated with the landfill and the presence of a portion of the landfill site in the Subject Property that the Old Menchville Landfill represents a CREC to the Subject Property.

JRTP Areas

- Based on a review of the databases, the JRTP facility has had numerous reported spills/discharge incidents. The potential for future releases is considered to be likely. Hazen is of the opinion that the likelihood of future spills or discharges of hazardous materials within the JRTP facility portion of the Subject Property represents an REC to the Subject Property.
- Operation of the JRTP facility requires a large amount of bulk storage of hazardous materials and petroleum products to be stored onsite. The bulk storage of hazardous materials and petroleum products increases the potential for moderate to large incidents to occur at the facility. Hazen is of the opinion that the likelihood for discharge of moderate to large quantities of hazardous materials or petroleum products represents an REC to the Subject Property.
- Raw sewage transported via underground pipes to the JRTP facility is processed onsite. Part of the treatment process is performed in open wastewater tanks. The volume of wastewater continually entering and being processed within the facility, including wastewater processing in open,

aboveground tanks, has the potential to discharge large quantities of wastewater in various stages of treatment. Hazen is of the opinion that the potential for a discharge of large quantities of wastewater from the JRTP represents an REC to the Subject Property.

- The numerous stormwater drains within the JRTP facility discharge directly to waterways or drainageways that abut the JRTP areas. Releases at the JRTP facility that enter the storm drains have the potential to enter the Warwick River and the James River. Hazen is of the opinion that the likelihood of spills or discharges of hazardous materials, wastewater, or petroleum products into the environment from the JRTP facility represents an REC to the Subject Property.

Debris Area

- Areas of historical fill and debris disposal consisting of various materials including metal, concrete, and rusted 55-gallon drums are present northwest of the JRTP areas. The extent and composition of the disposed materials are not known. Areas of fill material also appear to be present in portions of the JRTP facility and storage area. Hazen is of the opinion that the presence of the historical fill and debris disposal within and abutting the northwest side of the JRTP sites represents an REC to the Subject Property.

Historical City Prison Farm Use Area

- During operation of the City Prison Farm, the western portion of the JRTP areas appears to not have been in crop production and at least one large structure and land disturbance is visible on the historical aerial photographs. The location of USTs and ASTs used for farming operations and the location of storage of fertilizers, herbicides, and pesticides is not known. Hazen is of the opinion that the use of portions of the JRTP for non-crop production associated with the City Prison Farm represents an REC to the Subject Property.

In addition, the following warrants mention:

- **Asbestos-Containing Materials:** No evidence of suspect ACM was observed at the Project Site; however, based on the age of the buildings and equipment on the Subject Property, there may be ACM present within the structures and treatment plant components on the Subject Property.
- **LBP/LCP:** Painted surfaces observed on the Subject Property were in poor to fair condition. Based on the age of the JRTP facility, LBP may be present.

8.3 Recommendations

The following are the recommendations relating to the identified RECs by this ESA:

- **Potential Subsurface Contamination Associated with Active and Historical Activities within the Subject Property:** Hazen recommends that care be taken during any excavation activities and all excavated material be handled and disposed of in accordance with all applicable governmental regulations and guidelines. Furthermore, any potential impacted soils or groundwater encountered may require assessment and laboratory analysis to determine the extent of contamination.

Disturbance or removal of contaminated materials should be performed in accordance with governmental regulations and guidelines.

- **Potential ACM and LBP/LCP Associated with Administration Building on the Subject Property:** Hazen recommends assessment of the presence of ACM and LBP/LCP, if required, and proper handling and disposal of identified materials be performed per appropriate governmental regulations and guidelines for activities that disturb the existing buildings, structures, or components.

9. Data Gap

According to § 3.2.21 of ASTM E 2247-16, a data gap is a lack of or inability to obtain information required by the ASTM Standard despite *good faith* efforts to gather same. Data gaps may result from unintended incompleteness in any of the activities defined as such in the ASTM Standard. The data gaps that occurred in connection with this report are provided in **Table 9-1**.

Table 9-1: Data Gaps

Data Gap	Explanation	Significance
Site History	Site history not conducted in 5-year intervals (See § 8.3.2.1)	This is not considered a significant data gap as the present use of the Subject Property for agricultural activity is assumed the first developed use of the Subject Property.
Former Owner or Operator Interview	Unable to interview former site owner or site operators due to length of time since previous ownership and operation	This is not considered a significant data gap due to Hazen's search of standard historical sources of information such as aerial photographs, historical topographic maps, and interviews with knowledgeable individuals who were familiar with the Subject Property.

10. Signatures of Environmental Professionals

I declare that, to the best of my professional knowledge and belief, I meet the definition of *environmental professional* as defined in §312.10 of 40 CFR § 312 and I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the Subject Property. I have developed and performed the AAI in conformance with the standards and practices set forth in 40 CFR Part 312.

A handwritten signature in black ink that reads "Linda Diebolt". The signature is written in a cursive style with a large, stylized initial "L".

Linda Diebolt
Environmental Professional

11. References

Unpublished references or references in the public domain (e.g. Internet-based) were suitably annotated within the text of this report for retrieval and review by another party.

Other than listed below, no published sources other than those appended to this document were relied upon in preparation of this Phase I ESA.

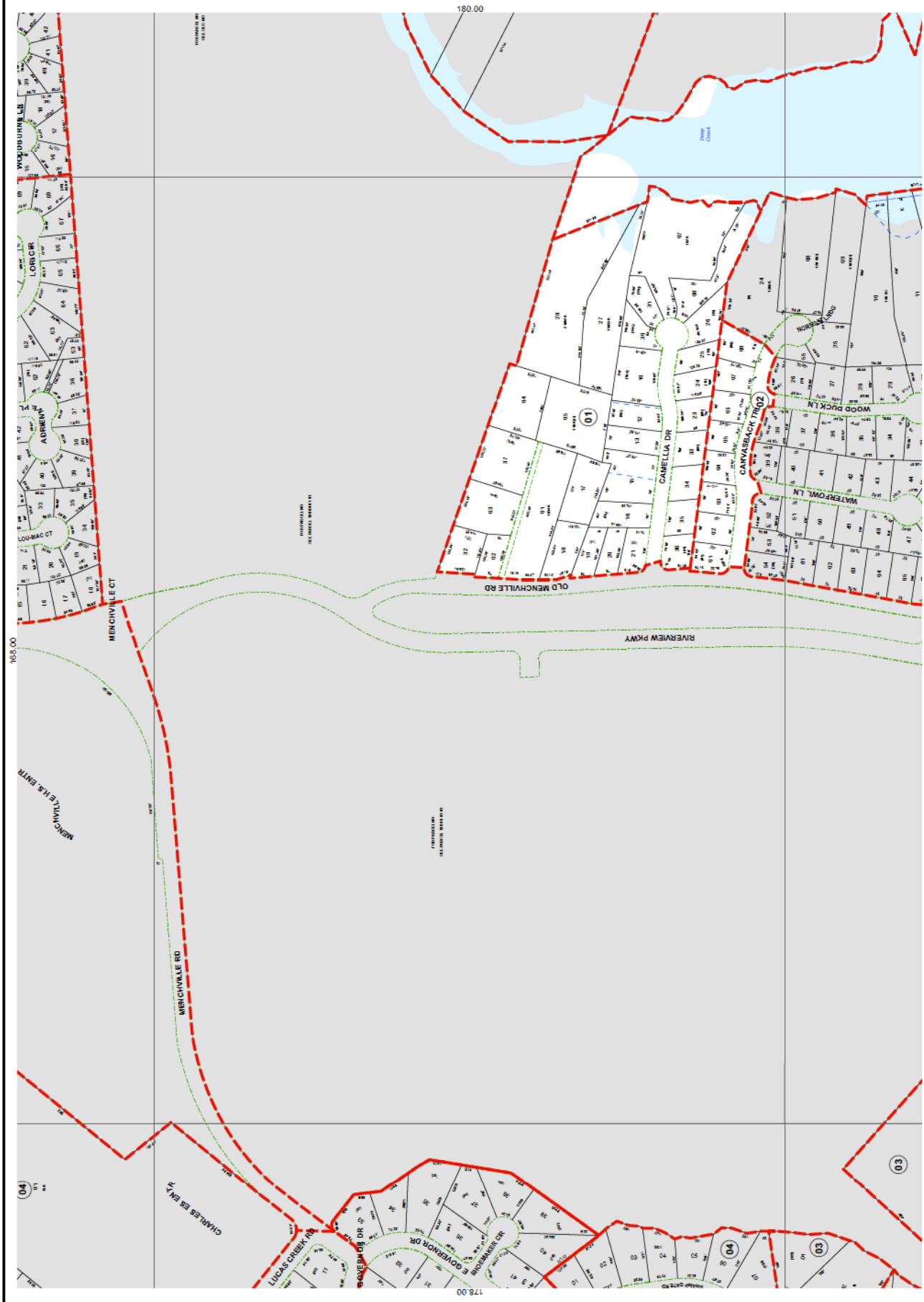
American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM E 2247-16.

Environmental Data Resources Inc. (EDR) database report: Environmental Database Search Report, Inquiry Number: 5663423.2s - EDR DataMap™ Area Study, May 24, 2019.

Google Earth Maps.

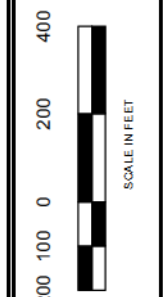
United States Geological Survey - 7.5-Minute Topographic Quadrangle.

Appendix A: Tax Maps




REAL ESTATE ASSESSMENT MAP
of the
CITY OF NEWPORT NEWS, VIRGINIA

MAP NUMBER
179.00
JUL 22, 2014

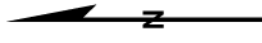


- Legend**
- Tax Block
 - Right of Way
 - Property
 - Lot
 - Traverse
 - Railroad
 - Tax Block Number
 - Property Number
 - Denotes Common Owner
 - (26) Block Number
 - 06 Subdivision Lot Number
 - Adjacent Tax Maps

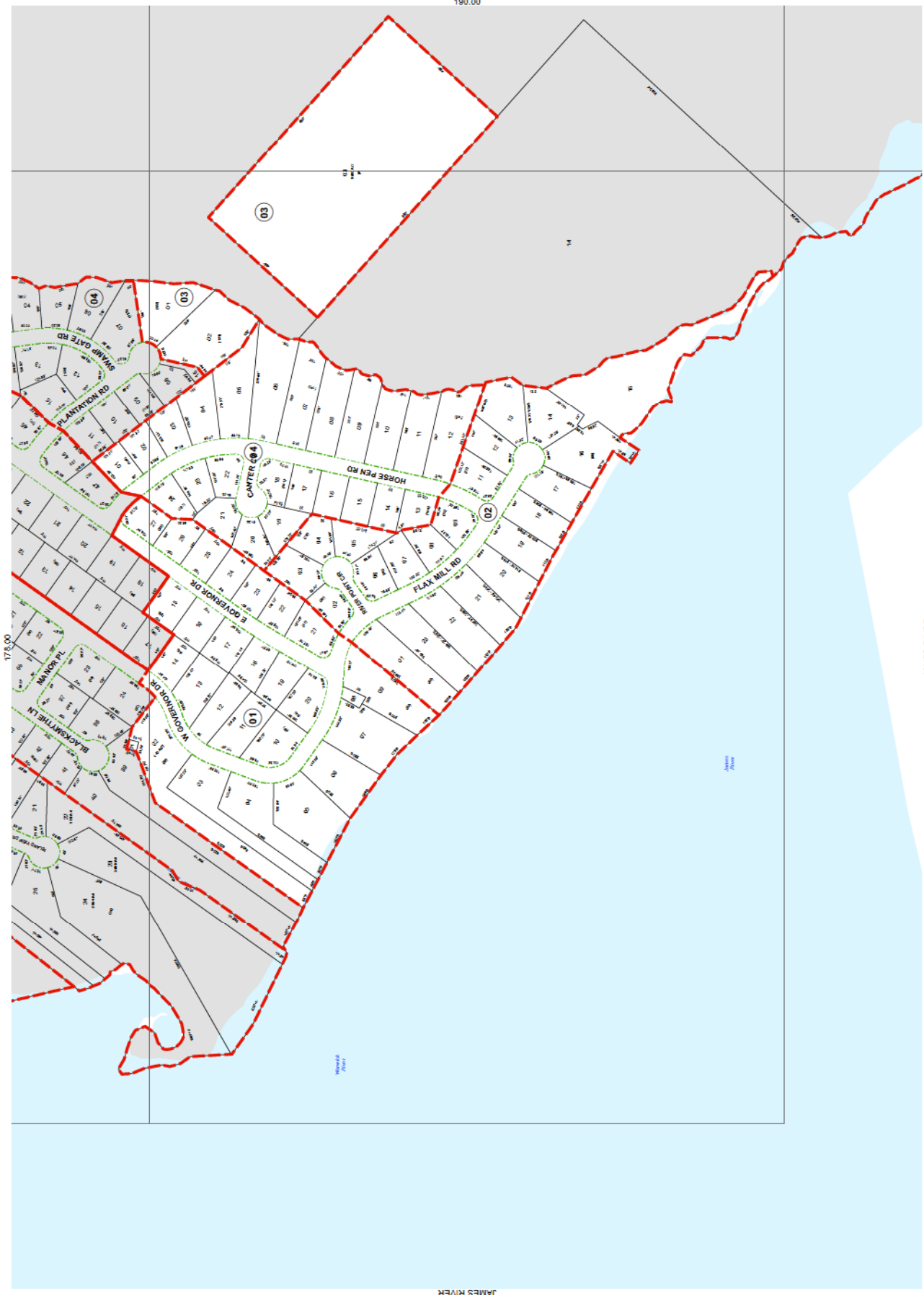
Prepared by
**DEPARTMENT OF ENGINEERING
TECHNICAL SUPPORT DIVISION**



Any Assessment of property or contents, or any addition or physical improvements, property lines or boundaries in this plan or information only are not to be used for title, zoning, utility, or construction of improvements, by any person or for third party claim.



190.00

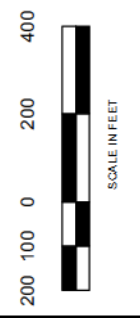


JAMES RIVER

- Legend**
- Tax Block
 - Right of Way
 - Property
 - Lot
 - Traverse

- Railroad
- Tax Block Number
- Property Number
- Denotes Common Owner

- Block Number
- Subdivision Lot Number
- Adjacent Tax Maps

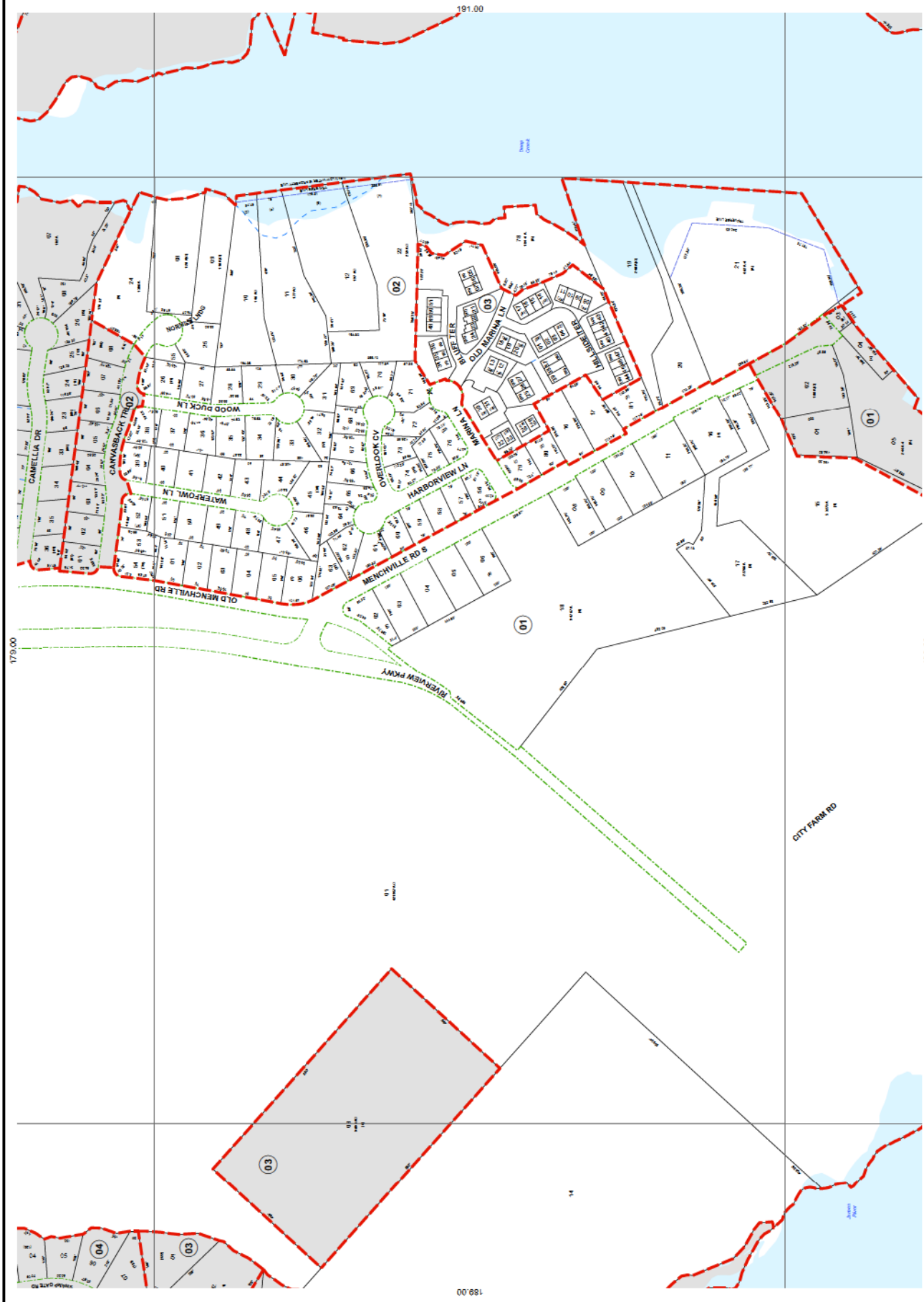


REAL ESTATE ASSESSMENT MAP
of the
CITY OF NEWPORT NEWS, VIRGINIA

Any alteration, change, or correction, or any addition or deletion of property, property lines or boundaries in the prior & subsequent official assessments, property maps or maps of improvements, to the extent that they are not shown on this map, shall be corrected by the City of Newport News, Virginia, or its authorized agents.

MAP NUMBER
189.00
JUL 22, 2014

Prepared by
**DEPARTMENT OF ENGINEERING
TECHNICAL SUPPORT DIVISION**

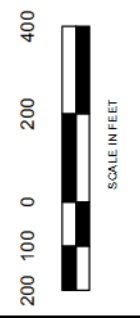


Prepared by
**DEPARTMENT OF ENGINEERING
 TECHNICAL SUPPORT DIVISION**



- Legend**
- Tax Block
 - Right of Way
 - Property
 - Lot
 - Traverse
 - Railroad
 - Tax Block Number
 - 02 Property Number
 - 15 Denoties Common Owner

- (26) Block Number
- 06 Subdivision Lot Number
- Adjacent Tax Maps



REAL ESTATE ASSESSMENT MAP
 of the
CITY OF NEWPORT NEWS, VIRGINIA

Any Alteration of topography or contours, or any addition or physical improvements, property lines or boundaries in the prior & subsequent maps shall not be transfer for details, review, duty, or contribution of improvements, in real property or the related information.

MAP NUMBER
190.00
 JUL 22, 2014

Appendix B: FIRM Maps

Appendix C: Sanborn Maps

SWIFT - JRTP

SWIFT - JRTP

Newport News, VA 23602

Inquiry Number: 5663423.3

May 24, 2019

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

05/24/19

Site Name:

SWIFT - JRTP
SWIFT - JRTP
Newport News, VA 23602
EDR Inquiry # 5663423.3

Client Name:

Hazen & Sawyer
498 Seventh Ave.
New York, NY 10018
Contact: Linda Diebolt



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Hazen & Sawyer were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # A4E0-491B-B13C
PO # NA
Project NA

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: A4E0-491B-B13C

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Appendix D: Historical Aerial Photographs



SWIFT - JRTP

SWIFT - JRTP

Newport News, VA 23602

Inquiry Number: 5663423.8

May 24, 2019

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

05/24/19

Site Name:

SWIFT - JRTP
SWIFT - JRTP
Newport News, VA 23602
EDR Inquiry # 5663423.8

Client Name:

Hazen & Sawyer
498 Seventh Ave.
New York, NY 10018
Contact: Linda Diebolt



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2000	1"=750'	Flight Date: March 26, 2000	USGS
1994	1"=500'	Acquisition Date: March 06, 1994	USGS/DOQQ
1990	1"=750'	Flight Date: April 08, 1990	USGS
1982	1"=500'	Flight Date: April 01, 1982	USDA
1973	1"=500'	Flight Date: April 01, 1973	USGS
1963	1"=500'	Flight Date: April 03, 1963	USGS

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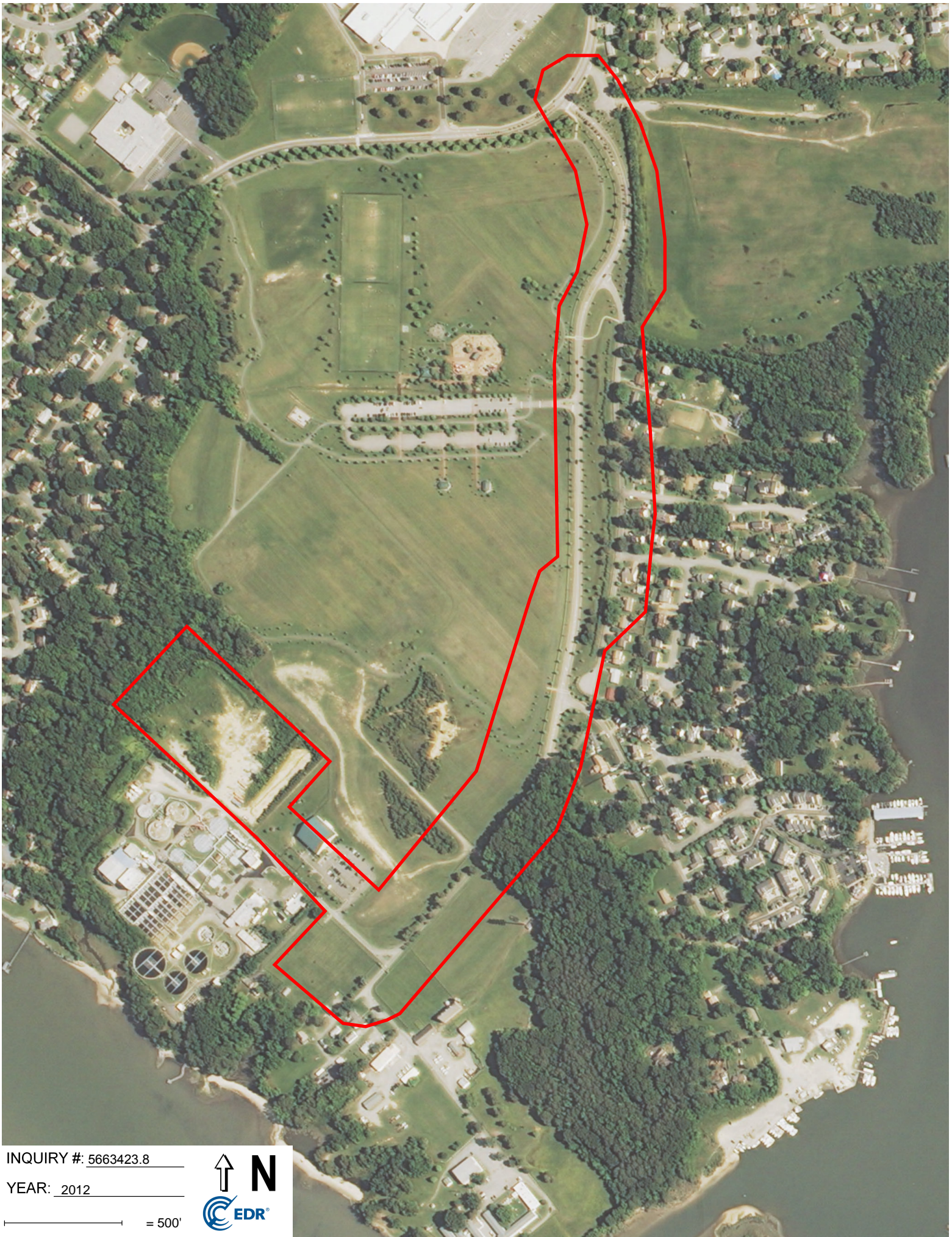


INQUIRY #: 5663423.8

YEAR: 2016

— = 500'





INQUIRY #: 5663423.8

YEAR: 2012

— = 500'





INQUIRY #: 5663423.8

YEAR: 2009

— = 500'





INQUIRY #: 5663423.8

YEAR: 2006

— = 500'





INQUIRY #: 5663423.8

YEAR: 2000

— = 750'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.

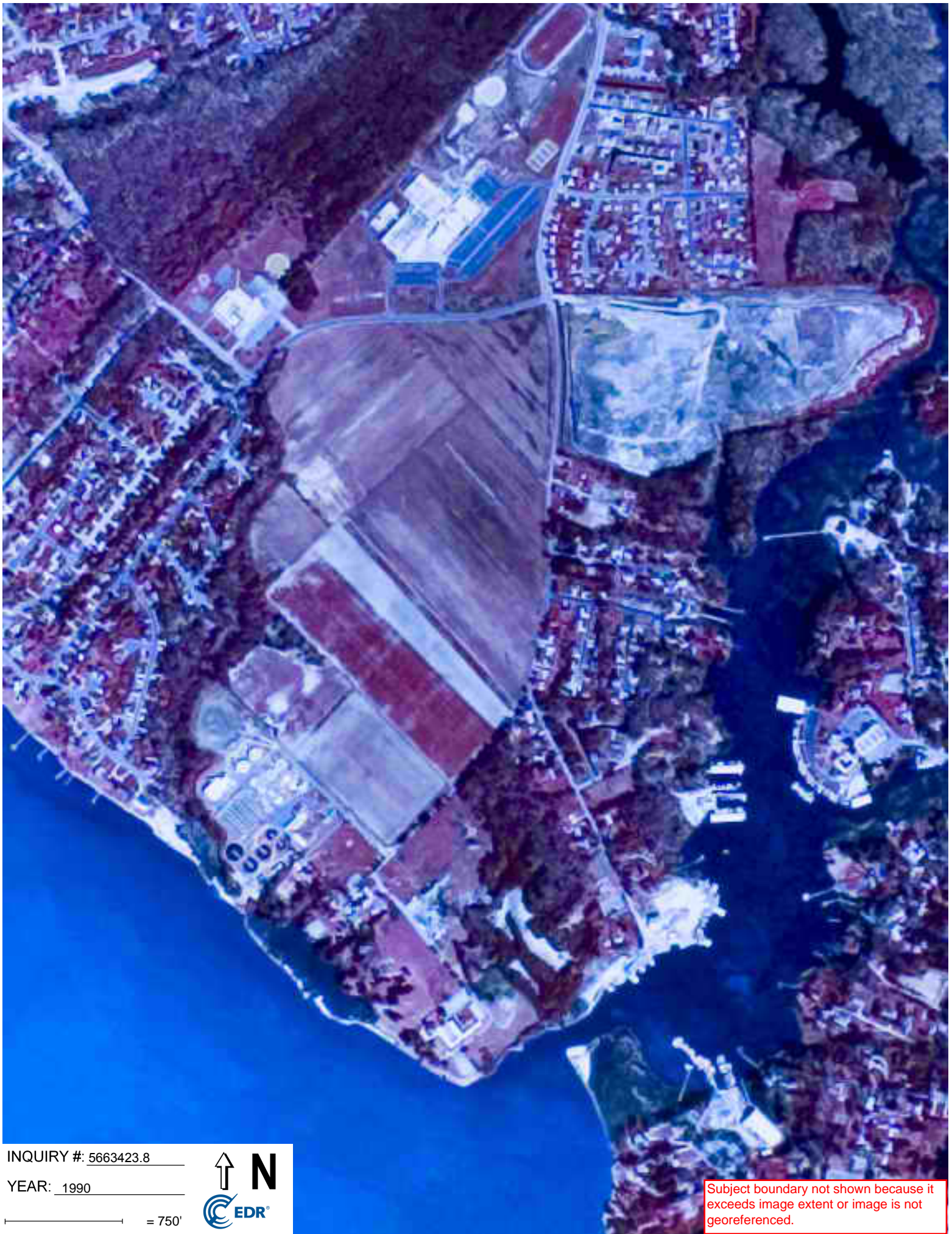


INQUIRY #: 5663423.8

YEAR: 1994

— = 500'





INQUIRY #: 5663423.8

YEAR: 1990

— = 750'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.

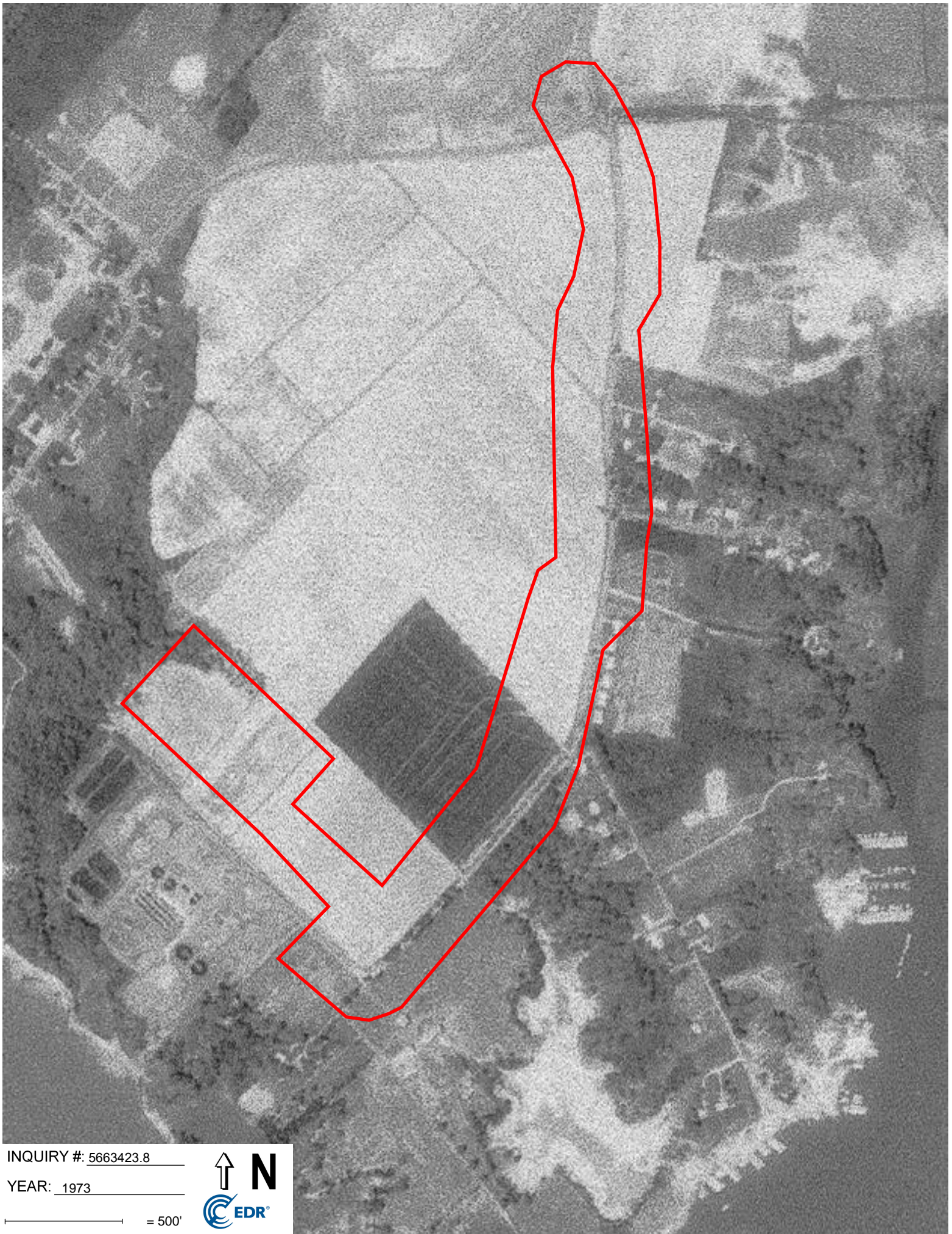


INQUIRY #: 5663423.8

YEAR: 1982

— = 500'





INQUIRY #: 5663423.8

YEAR: 1973

— = 500'





INQUIRY #: 5663423.8

YEAR: 1963

— = 500'



Appendix E: Historical Topographic Maps

SWIFT - JRTP

SWIFT - JRTP

Newport News, VA 23602

Inquiry Number: 5663423.4

May 24, 2019

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

05/24/19

Site Name:

SWIFT - JRTP
SWIFT - JRTP
Newport News, VA 23602
EDR Inquiry # 5663423.4

Client Name:

Hazen & Sawyer
498 Seventh Ave.
New York, NY 10018
Contact: Linda Diebolt



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Hazen & Sawyer were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

Coordinates:

P.O.# NA
Project: NA

Latitude: 37.087123 37° 5' 14" North
Longitude: -76.533387 -76° 32' 0" West
UTM Zone: Zone 18 North
UTM X Meters: 363716.60
UTM Y Meters: 4105637.14
Elevation: 26.00' above sea level

Maps Provided:

2013	1943
1986	1907
1979	
1973	
1970	
1965	
1957	
1950	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets



Mulberry Island
2013
7.5-minute, 24000

1986 Source Sheets



Mulberry Island
1986
7.5-minute, 24000
Aerial Photo Revised 1981

1979 Source Sheets



Mulberry Island
1979
7.5-minute, 24000
Aerial Photo Revised 1978

1973 Source Sheets



Mulberry Island
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1970 Source Sheets



Mulberry Island
1970
7.5-minute, 24000
Aerial Photo Revised 1970

1965 Source Sheets



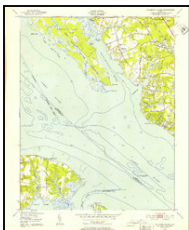
Mulberry Island
1965
7.5-minute, 24000
Aerial Photo Revised 1963

1957 Source Sheets



Mulberry Island
1957
7.5-minute, 24000
Aerial Photo Revised 1955

1950 Source Sheets



Mulberry Island
1950
7.5-minute, 24000
Aerial Photo Revised 1947

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1943 Source Sheets

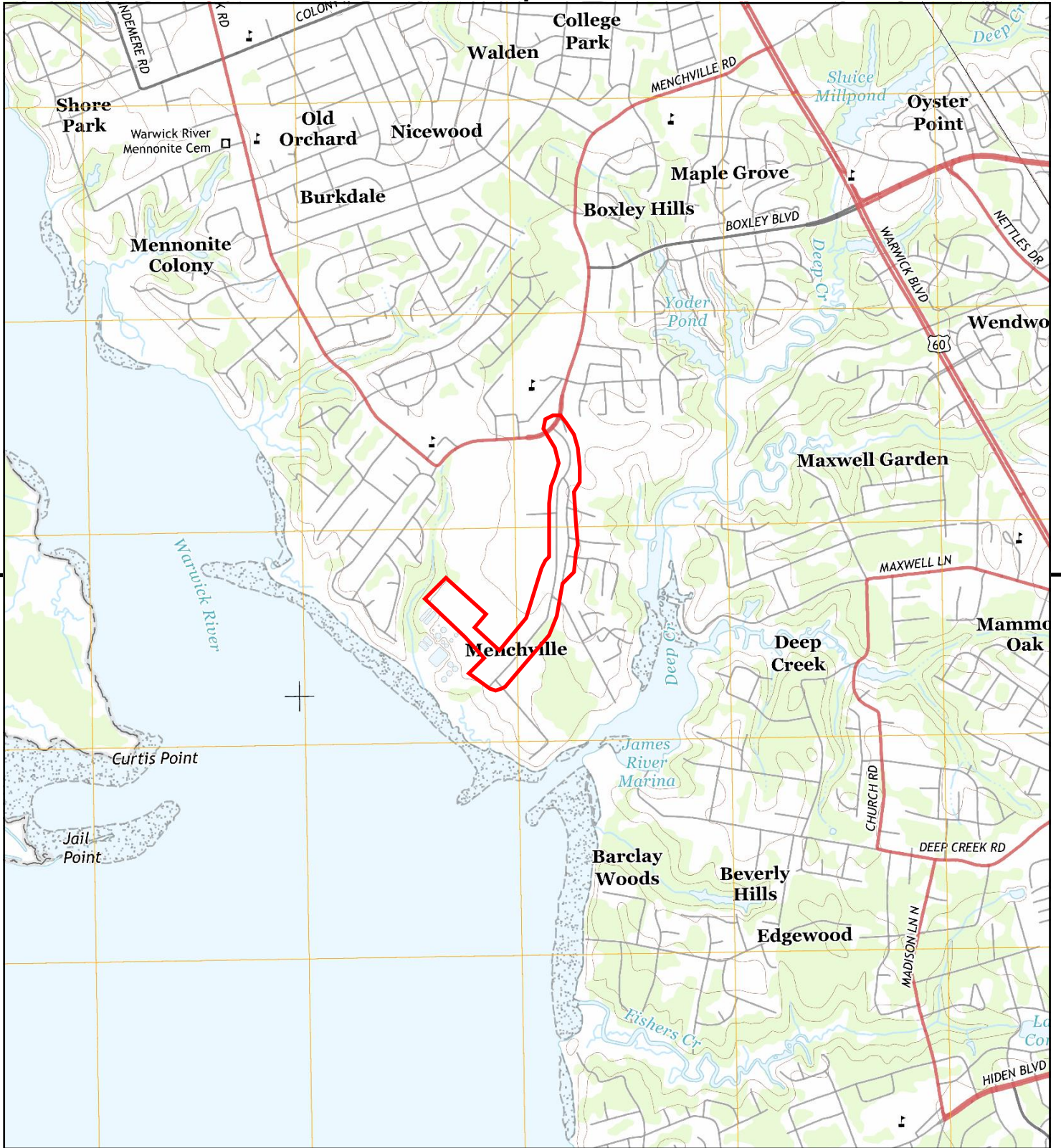


Yorktown
1943
15-minute, 62500

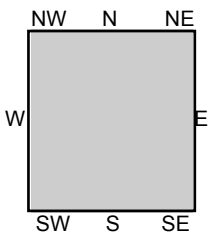
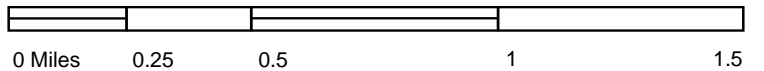
1907 Source Sheets



Yorktown
1907
15-minute, 62500



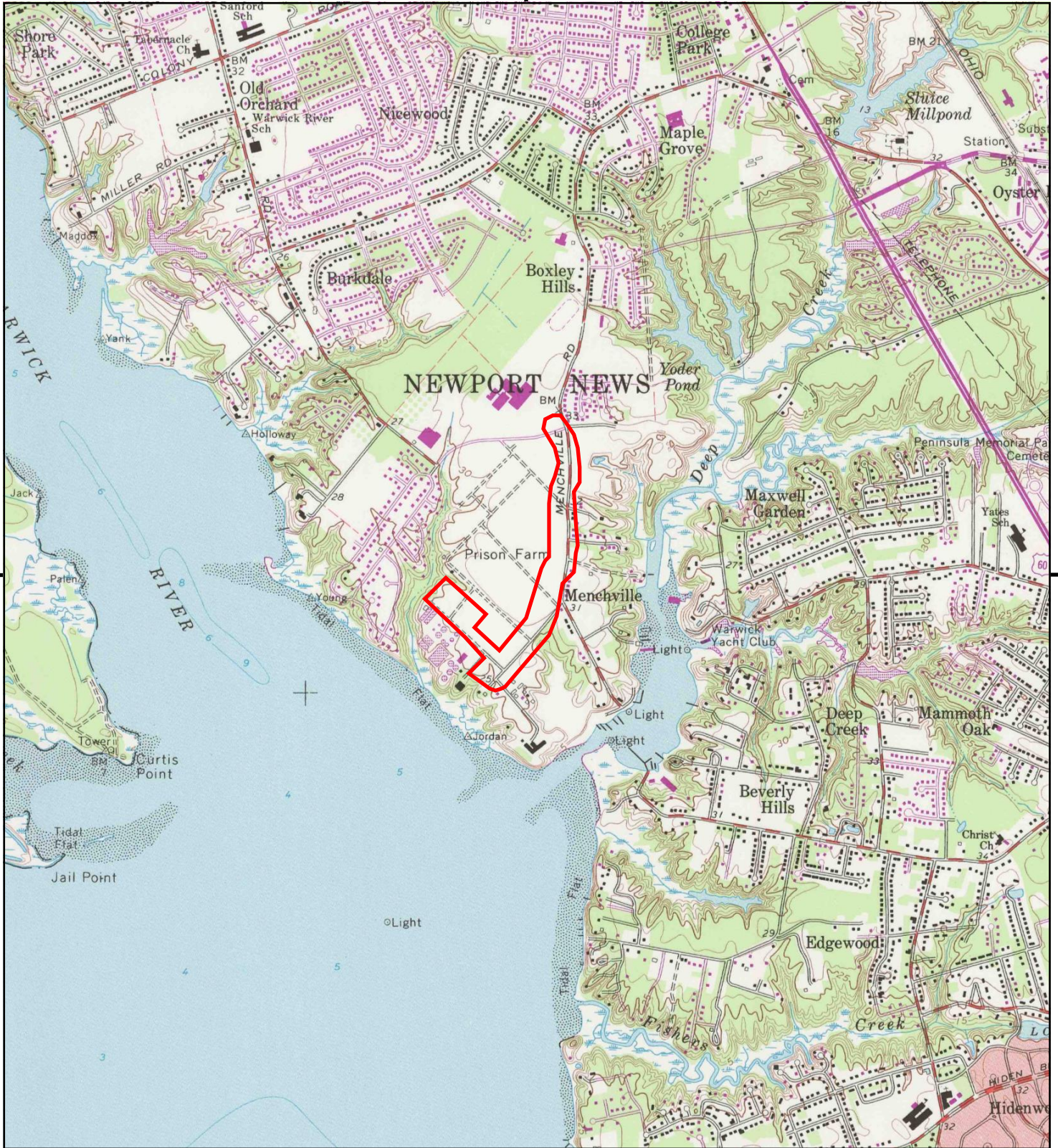
This report includes information from the following map sheet(s).



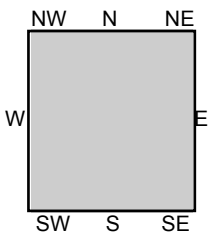
TP, Mulberry Island, 2013, 7.5-minute

SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News, VA 23602
 CLIENT: Hazen & Sawyer





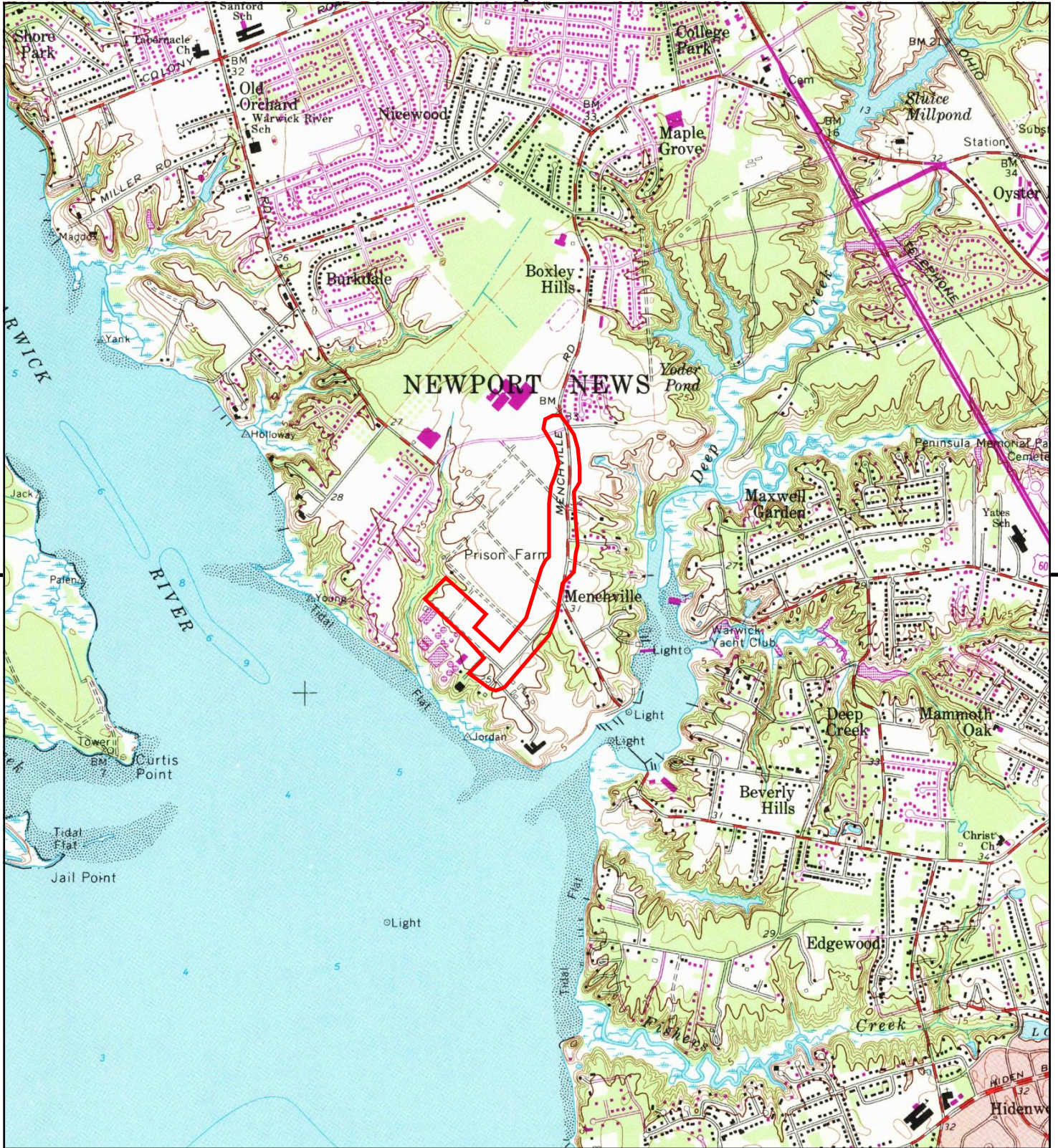
This report includes information from the following map sheet(s).



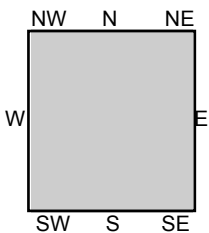
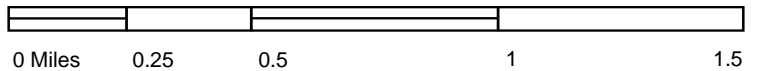
TP, Mulberry Island, 1986, 7.5-minute

SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News, VA 23602
 CLIENT: Hazen & Sawyer





This report includes information from the following map sheet(s).



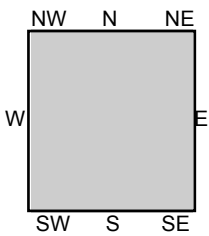
TP, Mulberry Island, 1979, 7.5-minute

SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News, VA 23602
 CLIENT: Hazen & Sawyer





This report includes information from the following map sheet(s).



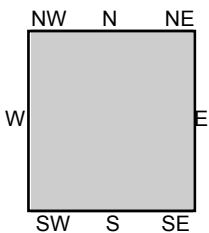
TP, Mulberry Island, 1973, 7.5-minute

SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News, VA 23602
 CLIENT: Hazen & Sawyer





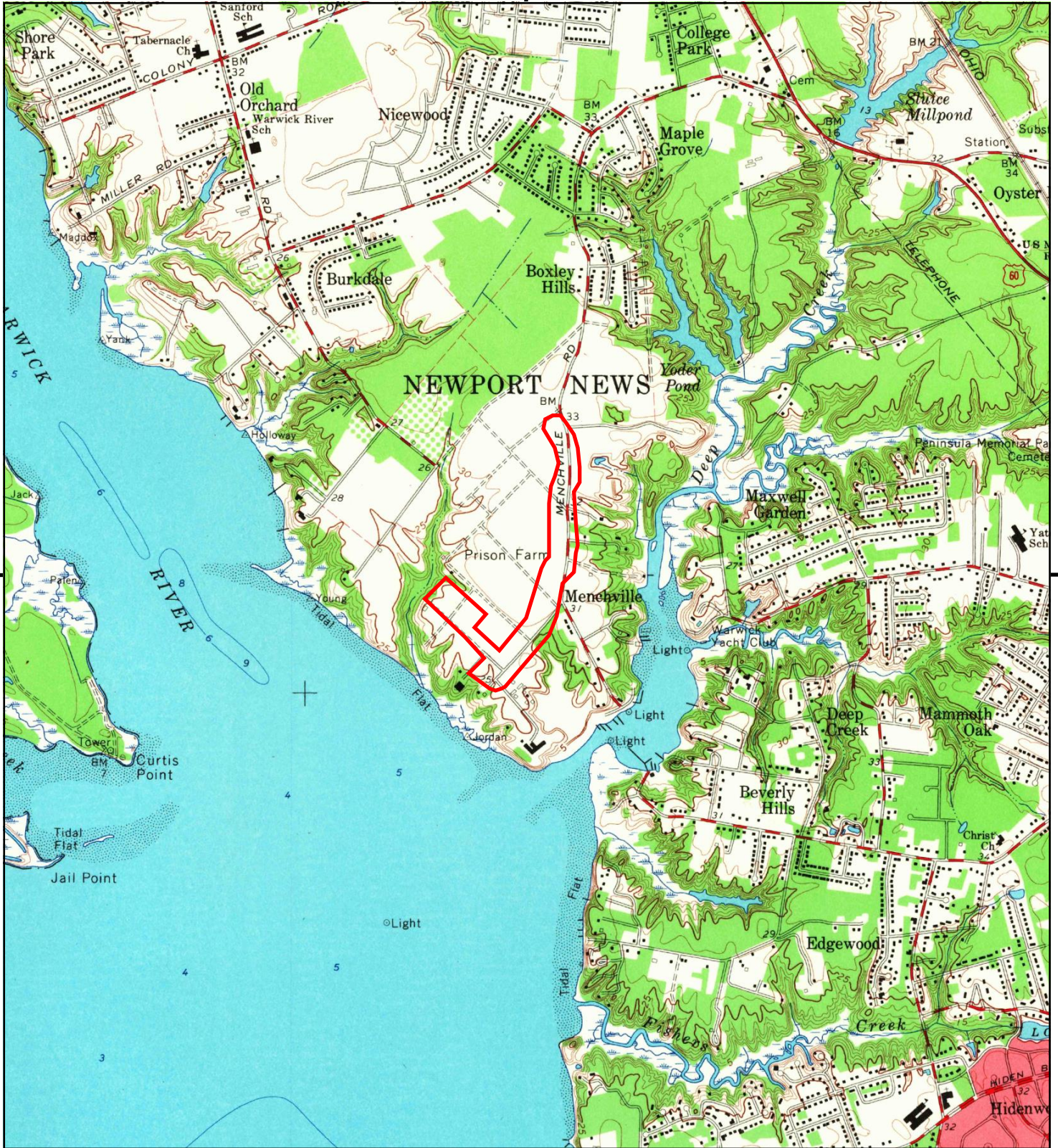
This report includes information from the following map sheet(s).



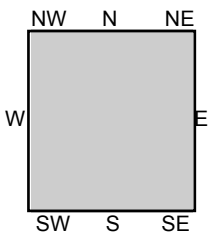
TP, Mulberry Island, 1970, 7.5-minute

SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News, VA 23602
 CLIENT: Hazen & Sawyer





This report includes information from the following map sheet(s).



TP, Mulberry Island, 1965, 7.5-minute

SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News, VA 23602
 CLIENT: Hazen & Sawyer





This report includes information from the following map sheet(s).



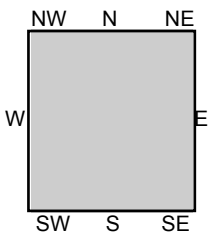
TP, Mulberry Island, 1957, 7.5-minute

SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News, VA 23602
 CLIENT: Hazen & Sawyer





This report includes information from the following map sheet(s).



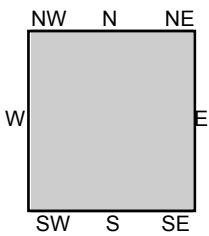
TP, Mulberry Island, 1950, 7.5-minute

SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News, VA 23602
 CLIENT: Hazen & Sawyer





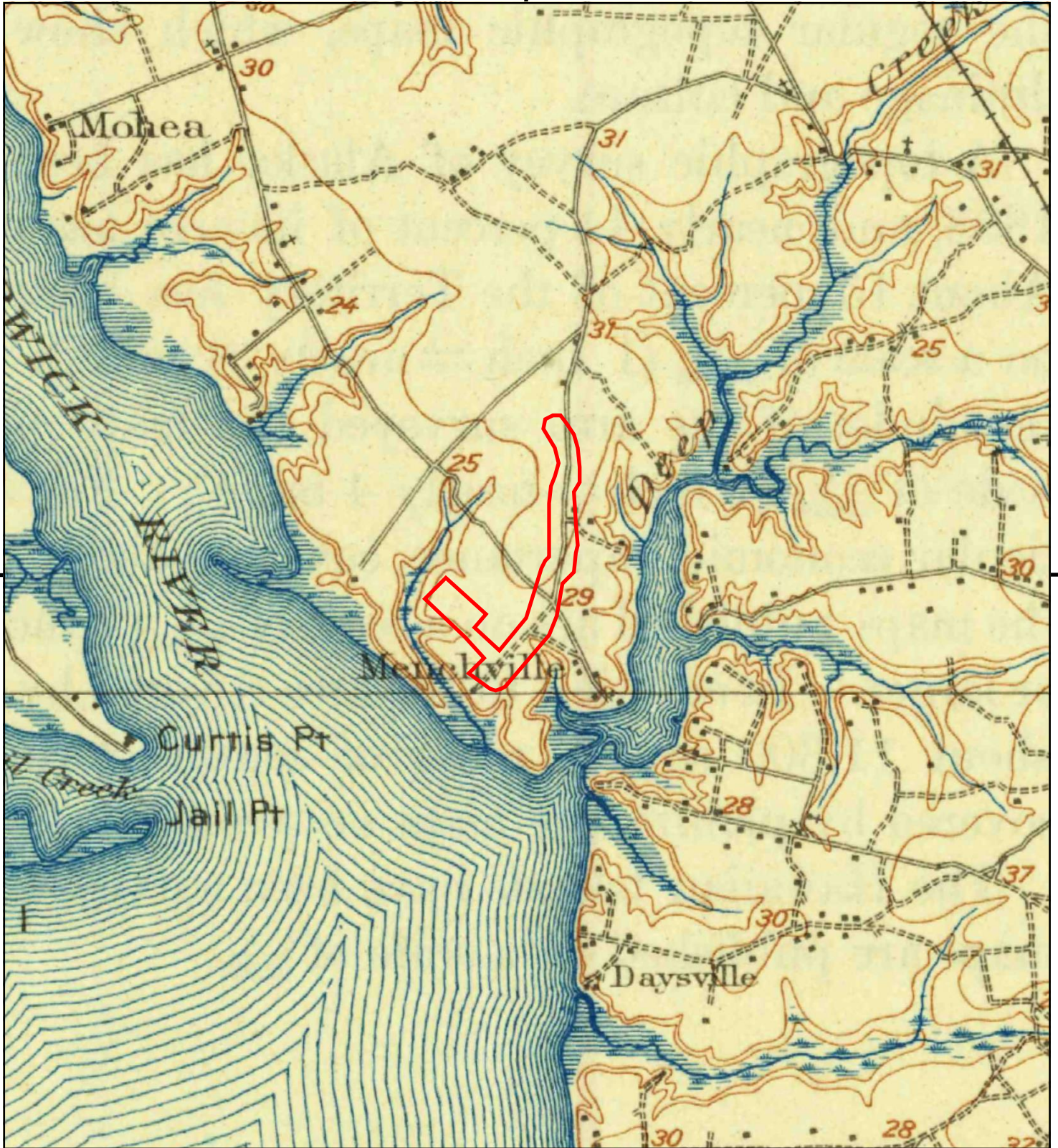
This report includes information from the following map sheet(s).



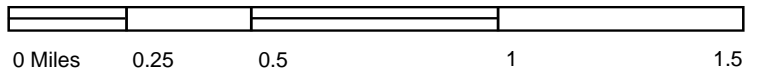
TP, Yorktown, 1943, 15-minute

SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News, VA 23602
 CLIENT: Hazen & Sawyer





This report includes information from the following map sheet(s).



TP, Yorktown, 1907, 15-minute

SITE NAME: SWIFT - JRTP
ADDRESS: SWIFT - JRTP
Newport News, VA 23602
CLIENT: Hazen & Sawyer



Appendix F: City Directories

SWIFT - JRTP

SWIFT - JRTP

Newport News, VA 23602

Inquiry Number: 5663423.5

May 28, 2019

The EDR-City Directory Image Report

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SECTION

Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

infoUSA[®]

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1989	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1984	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1979	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hill's City Directory
1975	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hill's City Directory
1969	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hill's City Directory
1964	<input type="checkbox"/>	<input type="checkbox"/>	Hill's City Directory

FINDINGS

TARGET PROPERTY STREET

SWIFT - JRTP
Newport News, VA 23602

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

CITY FARM RD

2014	pg A1	EDR Digital Archive	
2010	pg A2	EDR Digital Archive	
2005	pg A3	EDR Digital Archive	
2000	pg A4	EDR Digital Archive	
1995	pg A5	EDR Digital Archive	
1992	pg A6	EDR Digital Archive	
1989	pg A7	Polk's City Directory	
1984	pg A8	Polk's City Directory	
1979	pg A9	Hill's City Directory	
1975	pg A10	Hill's City Directory	
1969	pg A11	Hill's City Directory	
1964	-	Hill's City Directory	Street not listed in Source

RIVERVIEW PKWY

2014	-	EDR Digital Archive	Street not listed in Source
2010	-	EDR Digital Archive	Street not listed in Source
2005	-	EDR Digital Archive	Street not listed in Source
2000	-	EDR Digital Archive	Street not listed in Source
1995	-	EDR Digital Archive	Street not listed in Source
1992	-	EDR Digital Archive	Street not listed in Source
1989	-	Polk's City Directory	Street not listed in Source
1984	-	Polk's City Directory	Street not listed in Source
1979	-	Hill's City Directory	Street not listed in Source
1975	-	Hill's City Directory	Street not listed in Source
1969	-	Hill's City Directory	Street not listed in Source
1964	-	Hill's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

CITY FARM RD

2014

- 100 HAMPTON-NEWPORT NEWS
- 111 HAMPTON ROADS SANITATION DST
HRSD
- 125 RIVERVIEW GYMNAS TIC CENTER

CITY FARM RD 2010

- 100 HAMPTON-NEWPORT NEWS
- 111 HAMPTON ROADS SANITATION DST
MID EASTERN BUILDERS INC
- 125 NEWPORT NEWS PARKS & REC DEPT
RIVERVIEW GYMNASIIC CENTER

CITY FARM RD

2005

100 HAMPTON-NEWPORT NEWS COMM SVC
111 HAMPTON ROADS SANITATION DST
125 NEWPORT NEWS PARKS & REC DEPT
RIVERVIEW GYMNAS TIC CENTER

CITY FARM RD

2000

- 100 HAMPTON-NEWPORT NEWS
- 111 HAMPTON ROADS SANITATION DST

CITY FARM RD

1995

112 IRISH, SHEILA J
PIZZAGALLI CONSTRUCTION CO

CITY FARM RD

1992

100 NEWPORT NEWS CITY PRISON FARM

CITY FARM RD 1989

377

**CITY FARM RD -FROM 401
MENCHVILLE RD SOUTHWEST 1
SOUTH CAMELLIA DR**

ZIP CODE 23602

100 City Prison Farm 886-2724

★Payne Billy 886-2724

111 James River Treatment Plant 877-9356

North Shore Laboratory 874-1287

80-A

CITY FARM RD 1984

**CITY FARM RD —FROM 401
MENCHVILLE RD SOUTHWEST 1
SOUTH CAMELLIA DR**

ZIP CODE 23602

100 City Prison Farm 877-9450

Payne Billy

111 James River Treatment Plant 877-9356

North Shore Laboratory 874-1287

CITY FARM RD 1979

**CITY FARM RD —FROM 401
MENCHVILLE RD SOUTHWEST 1
SOUTH CAMELLIA DR**

ZIP CODE 23602

100 City Prison Farm 877-9450

Payne Billy

James River Treatment Plant

CITY FARM RD 1975

77

**CITY FARM RD —FROM 401
MENCHVILLE RD SOUTHWEST 1
SOUTH CAMELLIA DR**

**ZIP CODE 23602
100 City Prison Farm 877-9450
★Payne Billy**

CITY FARM RD 1969

**CITY FARM RD —FROM 401
MENCHVILLE RD SOUTHWEST, 1
SOUTH CAMELLIA DR**

ZIP CODE 23602

100 City Prison Farm 877-9450

Mueller John N 877-9450

Appendix G: EDR Summary Radius Map Report

SWIFT - JRTP

SWIFT - JRTP

Newport News, VA 23602

Inquiry Number: 5663423.2s

May 24, 2019

EDR Summary Radius Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

SWIFT - JRTP
NEWPORT NEWS, VA 23602

COORDINATES

Latitude (North): 37.0871230 - 37° 5' 13.64"
Longitude (West): 76.5333870 - 76° 32' 0.19"
Universal Transverse Mercator: Zone 18
UTM X (Meters): 363713.3
UTM Y (Meters): 4105433.8
Elevation: 26 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: TP
Source: U.S. Geological Survey

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140701
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 SWIFT - JRTP
 NEWPORT NEWS, VA 23602

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	FORT EUSTIS MILITARY		DOD	Same	5255, 0.995, WSW
Reg	FORT EUSTIS (US ARMY	END OF MULBERRY ISLA	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG, US ENG..	Same	4866, 0.922, WSW
A1	HRSD - JAMES RIVER S	111 CITY FARM ROAD	ICIS, FINDS, ECHO	Lower	1 ft.
A2	JAMES RIVER TREATMEN	111 CITY FARM RD	SPILLS	Lower	1 ft.
B3	B.C. CHARLES ELEM. S	101 YOUNG RD., NEWPO	RGA LUST	Higher	1 ft.
A4	JAMES RIVER STP	111 CITY FARM RD	SPILLS	Lower	1 ft.
A5		111 CITY FARM ROAD	ERNS	Lower	1 ft.
A6	HRSD JAMES RIVER WWT	111 CITY FARM RD	FINDS	Lower	1 ft.
A7	JAMES RIVER PLANT	111 CITY FARM ROAD	SPILLS	Lower	1 ft.
B8	B.C. CHARLES ELEM SC	101 YOUNG RD., NEWPO	RGA LUST	Higher	1 ft.
B9	NEWPORT NEWS CITY B.	101 YOUNGS ROAD	RGA LUST	Higher	1 ft.
B10	B.C. CHARLES ELEMENT	101 YOUNGS ROAD	RGA LUST	Higher	1 ft.
A11	JAMES RIVER PLANT	111 CITY FARM ROAD,	SPILLS	Lower	1 ft.
B12	B.C. CHARLES ELEMENT	101 YOUNGS ROAD	UST	Higher	1 ft.
A13	JAMES RIVER PLANT	111 CITY FARM RD	SPILLS	Lower	1 ft.
A14	JAMES RIVER TREATMEN	111 CITY FARM ROAD	RCRA-CESQG, UST, SPILLS, US AIRS, Financial...	Lower	1 ft.
A15		111 CITY FARM ROAD	SPILLS	Lower	1 ft.
A16	HRSD NEWPORT NEWS	111 CITY FARM ROAD	SPILLS, AIRS, NPDES	Lower	1 ft.
B17	NEWPORT NEWS CITY B.	101 YOUNGS ROAD	LUST	Higher	1 ft.
A18	HRSD - JAMES RIVER S	111 CITY FARM RD	SPILLS, SPILLS 90	Lower	1 ft.
A19		111 CITY FARM RD	ERNS	Lower	1 ft.
A20	HRSD - JAMES RIVER W	111 CITY FARM ROAD	TIER 2	Lower	1 ft.
A21	JAMES RIVER STP	111 CITY FARM ROAD	SPILLS	Lower	1 ft.
A22	JAMES RIVER STP	111 CITY FARM ROAD	SPILLS	Lower	1 ft.
23	USHMAN PROPERTY	360 OLD MENCHVILLE R	LTANKS	Higher	34, 0.006, East
C24	NEWPORT NEWS CITY -	100 CITY FARM RD	LUST, LTANKS	Higher	396, 0.075, SE
C25	CITY FARM MAINTENANC	100 CITY FARM RD	UST	Higher	396, 0.075, SE
26	SEWAGE PUMP STATION	116 CANVASS BACK TRA	UST	Lower	590, 0.112, ENE
D27	MENCHVILLE HIGH SCHO	275 MENCHVILLE ROAD	UST	Higher	840, 0.159, NNE
D28	MENCHVILLE HIGH SCHO	275 MENCHVILLE RD	SEMS-ARCHIVE, RCRA-SQG, FINDS, ECHO	Higher	840, 0.159, NNE
29	MENCHVILLE MARINE SU	494 MENCHVILLE ROAD	LUST, LTANKS, UST, RCRA NonGen / NLR, FINDS, ECHO	Lower	1315, 0.249, ESE
30	FOLTS EDWARD PROPERT	209 DABNEY DR	LTANKS	Higher	2017, 0.382, NNE
31	JAMES RIVER MARINA	665 DEEP CREEK RD	LUST, UST, SPILLS	Lower	2592, 0.491, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: A review of the NPL list, as provided by EDR, and dated 04/11/2019 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>FORT EUSTIS (US ARMY)</i> Cerclis ID:: 302859 EPA Id: VA6210020321	<i>END OF MULBERRY ISLA</i>	<i>WSW 1/2 - 1 (0.922 mi.)</i>	<i>0</i>	<i>8</i>

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 04/11/2019 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>MENCHVILLE HIGH SCHO</i> Site ID: 0302780 EPA Id: VAD980927271	<i>275 MENCHVILLE RD</i>	<i>NNE 1/8 - 1/4 (0.159 mi.)</i>	<i>D28</i>	<i>16</i>

EXECUTIVE SUMMARY

Federal RCRA CORRACTS facilities list

CORRACTS: A review of the CORRACTS list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORT EUSTIS (US ARMY) EPA ID:: VA8213720321	END OF MULBERRY ISLA	WSW 1/2 - 1 (0.922 mi.)	0	8

Federal RCRA generators list

RCRA-SQG: A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MENCHVILLE HIGH SCHO EPA ID:: VAD980927271	275 MENCHVILLE RD	NNE 1/8 - 1/4 (0.159 mi.)	D28	16

RCRA-CESQG: A review of the RCRA-CESQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JAMES RIVER TREATMEN EPA ID:: VAD000800813	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A14	12

Federal ERNS list

ERNS: A review of the ERNS list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 ERNS sites within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported NRC Report #: 170506	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A5	10
Not reported NRC Report #: 19361	111 CITY FARM RD	0 - 1/8 (0.000 mi.)	A19	14

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: A review of the LUST list, as provided by EDR, has revealed that there are 4 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NEWPORT NEWS CITY B. Database: LUST REG TD, Date of Government Version: 06/30/2013 Facility Status: Closed Facility ID: 200000090700 Pollution Complaint Num: 19932306	101 YOUNGS ROAD	0 - 1/8 (0.000 mi.)	B17	13
NEWPORT NEWS CITY - Database: LUST REG TD, Date of Government Version: 06/30/2013 Facility Status: Closed Facility ID: 200000064560 Pollution Complaint Num: 20025102	100 CITY FARM RD	SE 0 - 1/8 (0.075 mi.)	C24	15

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MENCHVILLE MARINE SU Database: LUST REG TD, Date of Government Version: 06/30/2013 Facility Status: Closed Facility ID: 200000197895 Pollution Complaint Num: 20005171	494 MENCHVILLE ROAD	ESE 1/8 - 1/4 (0.249 mi.)	29	16
JAMES RIVER MARINA Database: LUST REG TD, Date of Government Version: 06/30/2013 Facility Status: Closed Facility ID: 200000065684 Pollution Complaint Num: 20015141	665 DEEP CREEK RD	SE 1/4 - 1/2 (0.491 mi.)	31	17

LTANKS: A review of the LTANKS list, as provided by EDR, and dated 02/05/2019 has revealed that there are 4 LTANKS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
USHMAN PROPERTY Facility Status: Closed CEDS Facility Id: 200000878460 Pollution Complaint #: 20155009	360 OLD MENCHVILLE R	E 0 - 1/8 (0.006 mi.)	23	14
NEWPORT NEWS CITY - Facility Status: Closed CEDS Facility Id: 200000064560 Pollution Complaint #: 20025102	100 CITY FARM RD	SE 0 - 1/8 (0.075 mi.)	C24	15
FOLTS EDWARD PROPERT Facility Status: Closed CEDS Facility Id: 200000885920 Pollution Complaint #: 20185091	209 DABNEY DR	NNE 1/4 - 1/2 (0.382 mi.)	30	17
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MENCHVILLE MARINE SU	494 MENCHVILLE ROAD	ESE 1/8 - 1/4 (0.249 mi.)	29	16

EXECUTIVE SUMMARY

Facility Status: Closed
CEDS Facility Id: 200000197895
Pollution Complaint #: 20005171

State and tribal registered storage tank lists

UST: A review of the UST list, as provided by EDR, and dated 02/04/2019 has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
B.C. CHARLES ELEMENT Tank Status: REM FROM GRD Facility Id: 5008642 CEDS Facility ID: 200000090700	101 YOUNGS ROAD	0 - 1/8 (0.000 mi.)	B12	11
CITY FARM MAINTENANC Tank Status: REM FROM GRD Facility Id: 5020757 CEDS Facility ID: 200000064560	100 CITY FARM RD	SE 0 - 1/8 (0.075 mi.)	C25	15
MENCHVILLE HIGH SCHO Tank Status: CLS IN GRD Facility Id: 5008392 CEDS Facility ID: 200000091384	275 MENCHVILLE ROAD	NNE 1/8 - 1/4 (0.159 mi.)	D27	15
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>JAMES RIVER TREATMEN</i> Tank Status: CURR IN USE Tank Status: REM FROM GRD Facility Id: 5016809 CEDS Facility ID: 200000065569	<i>111 CITY FARM ROAD</i>	<i>0 - 1/8 (0.000 mi.)</i>	<i>A14</i>	<i>12</i>
SEWAGE PUMP STATION Tank Status: REM FROM GRD Facility Id: 5022453 CEDS Facility ID: 200000066674	116 CANVASS BACK TRA	ENE 0 - 1/8 (0.112 mi.)	26	15
<i>MENCHVILLE MARINE SU</i> Tank Status: CLS IN GRD Facility Id: 5037646 CEDS Facility ID: 200000197895	<i>494 MENCHVILLE ROAD</i>	<i>ESE 1/8 - 1/4 (0.249 mi.)</i>	<i>29</i>	<i>16</i>

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

SPILLS: A review of the SPILLS list, as provided by EDR, has revealed that there are 11 SPILLS sites

EXECUTIVE SUMMARY

within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JAMES RIVER TREATMEN Database: SPILLS TD, Date of Government Version: 09/17/2009 Date Closed: 8/21/2003 Date Closed: 8/27/2003 Date Closed: 7/29/2003 Date Closed: 7/20/2004 Incident Response: 2004-T-0240 Incident Response: 2004-T-0224 Incident Response: 2004-T-0299 Incident Response: 2004-T-0112 Incident Response: 2005-T-0092	111 CITY FARM RD	0 - 1/8 (0.000 mi.)	A2	9
JAMES RIVER STP Database: SPILLS, Date of Government Version: 02/04/2019 Facility Status: Closed IR Number: 2016-T-1596	111 CITY FARM RD	0 - 1/8 (0.000 mi.)	A4	9
JAMES RIVER PLANT Database: SPILLS TD, Date of Government Version: 09/17/2009 Date Closed: 8/4/2008 Date Closed: 9/23/2008 Date Closed: 11/7/2008 Date Closed: 4/11/2008 Date Closed: 3/5/2009 Incident Response: 2009-T-0093 Incident Response: 2009-T-0301 Incident Response: 2009-T-0443 Incident Response: 2008-T-0964 Incident Response: 2009-T-0757	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A7	10
JAMES RIVER PLANT Database: SPILLS TD, Date of Government Version: 09/17/2009 Date Closed: 9/23/1999 Incident Response: 2000-T-0126 Incident Response: 2000-T-0524	111 CITY FARM ROAD,	0 - 1/8 (0.000 mi.)	A11	11
JAMES RIVER PLANT Database: SPILLS TD, Date of Government Version: 09/17/2009 Date Closed: 4/26/2000 Date Closed: 6/18/2002 Date Closed: 7/29/2002 Date Closed: 8/22/2002 Incident Response: 2000-T-1783 Incident Response: 2001-T-2040 Incident Response: 2002-T-2294 Incident Response: 2003-T-0177 Incident Response: 2003-T-0106	111 CITY FARM RD	0 - 1/8 (0.000 mi.)	A13	11
JAMES RIVER TREATMEN Database: SPILLS, Date of Government Version: 02/04/2019 Facility Status: Closed IR Number: 2018-T-0295 IR Number: 2017-T-1075 IR Number: 2017-T-0723 IR Number: 2016-T-3320	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A14	12
Not reported Database: SPILLS TD, Date of Government Version: 09/17/2009	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A15	12

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HRSD NEWPORT NEWS Database: SPILLS, Date of Government Version: 02/04/2019 Facility Status: Closed IR Number: 2019-T-0009 IR Number: 2012-T-1017 IR Number: 2012-T-0481 IR Number: 2011-T-0860	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A16	13
HRSD - JAMES RIVER S Database: SPILLS, Date of Government Version: 02/04/2019 Facility Status: Open Facility Status: Closed IR Number: 2019-T-2316 IR Number: 2019-T-2208 IR Number: 2019-T-1667 IR Number: 2016-T-2532 IR Number: 2016-T-1237 <i>*Additional key fields are available in the Map Findings section</i>	111 CITY FARM RD	0 - 1/8 (0.000 mi.)	A18	13
JAMES RIVER STP Database: SPILLS, Date of Government Version: 02/04/2019 Facility Status: Closed IR Number: 2013-T-1079	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A21	14
JAMES RIVER STP Database: SPILLS, Date of Government Version: 02/04/2019 Facility Status: Closed IR Number: 2013-T-1306	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A22	14

SPILLS 90: A review of the SPILLS 90 list, as provided by EDR, and dated 09/01/2012 has revealed that there is 1 SPILLS 90 site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HRSD - JAMES RIVER S Status: OPEN Site Id: 2013-T-0500	111 CITY FARM RD	0 - 1/8 (0.000 mi.)	A18	13

Other Ascertainable Records

RCRA NonGen / NLR: A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MENCHVILLE MARINE SU EPA ID:: VAD023821663	494 MENCHVILLE ROAD	ESE 1/8 - 1/4 (0.249 mi.)	29	16

EXECUTIVE SUMMARY

DOD: A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORT EUSTIS MILITARY		WSW 1/2 - 1 (0.995 mi.)	0	8

ROD: A review of the ROD list, as provided by EDR, and dated 04/11/2019 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORT EUSTIS (US ARMY) EPA ID:: VA6210020321	END OF MULBERRY ISLA	WSW 1/2 - 1 (0.922 mi.)	0	8

ICIS: A review of the ICIS list, as provided by EDR, and dated 11/18/2016 has revealed that there is 1 ICIS site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HRSD - JAMES RIVER S FRS ID:: 110002030962	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A1	9

US AIRS: A review of the US AIRS list, as provided by EDR, has revealed that there is 1 US AIRS site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JAMES RIVER TREATMEN Database: US AIRS MINOR, Date of Government Version: 10/12/2016 EPA plant ID:: 110002030962	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A14	12

FINDS: A review of the FINDS list, as provided by EDR, and dated 02/15/2019 has revealed that there are 2 FINDS sites within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HRSD - JAMES RIVER S Registry ID:: 110002030962	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A1	9
HRSD JAMES RIVER WWT Registry ID:: 110069624080	111 CITY FARM RD	0 - 1/8 (0.000 mi.)	A6	10

EXECUTIVE SUMMARY

ECHO: A review of the ECHO list, as provided by EDR, and dated 04/07/2019 has revealed that there is 1 ECHO site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HRSD - JAMES RIVER S Registry ID: 110002030962	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A1	9

AIRS: A review of the AIRS list, as provided by EDR, and dated 01/14/2019 has revealed that there is 1 AIRS site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HRSD NEWPORT NEWS Registration Number: 60996 Facility ID: 200000065569 Operating Status: Operating	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A16	13

NPDES: A review of the NPDES list, as provided by EDR, and dated 03/04/2019 has revealed that there is 1 NPDES site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HRSD NEWPORT NEWS Facility ID: VA0081272	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A16	13

Financial Assurance: A review of the Financial Assurance list, as provided by EDR, has revealed that there is 1 Financial Assurance site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JAMES RIVER TREATMEN Database: Financial Assurance 1, Date of Government Version: 01/30/2019 Facility ID: 5016809 ROF Own Id: 33681	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A14	12

TIER 2: A review of the TIER 2 list, as provided by EDR, and dated 12/31/2014 has revealed that there are 2 TIER 2 sites within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JAMES RIVER TREATMEN	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A14	12
HRSD - JAMES RIVER W	111 CITY FARM ROAD	0 - 1/8 (0.000 mi.)	A20	14

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: A review of the RGA LUST list, as provided by EDR, has revealed that there are 4 RGA LUST sites within approximately 0.001 miles of the target property.

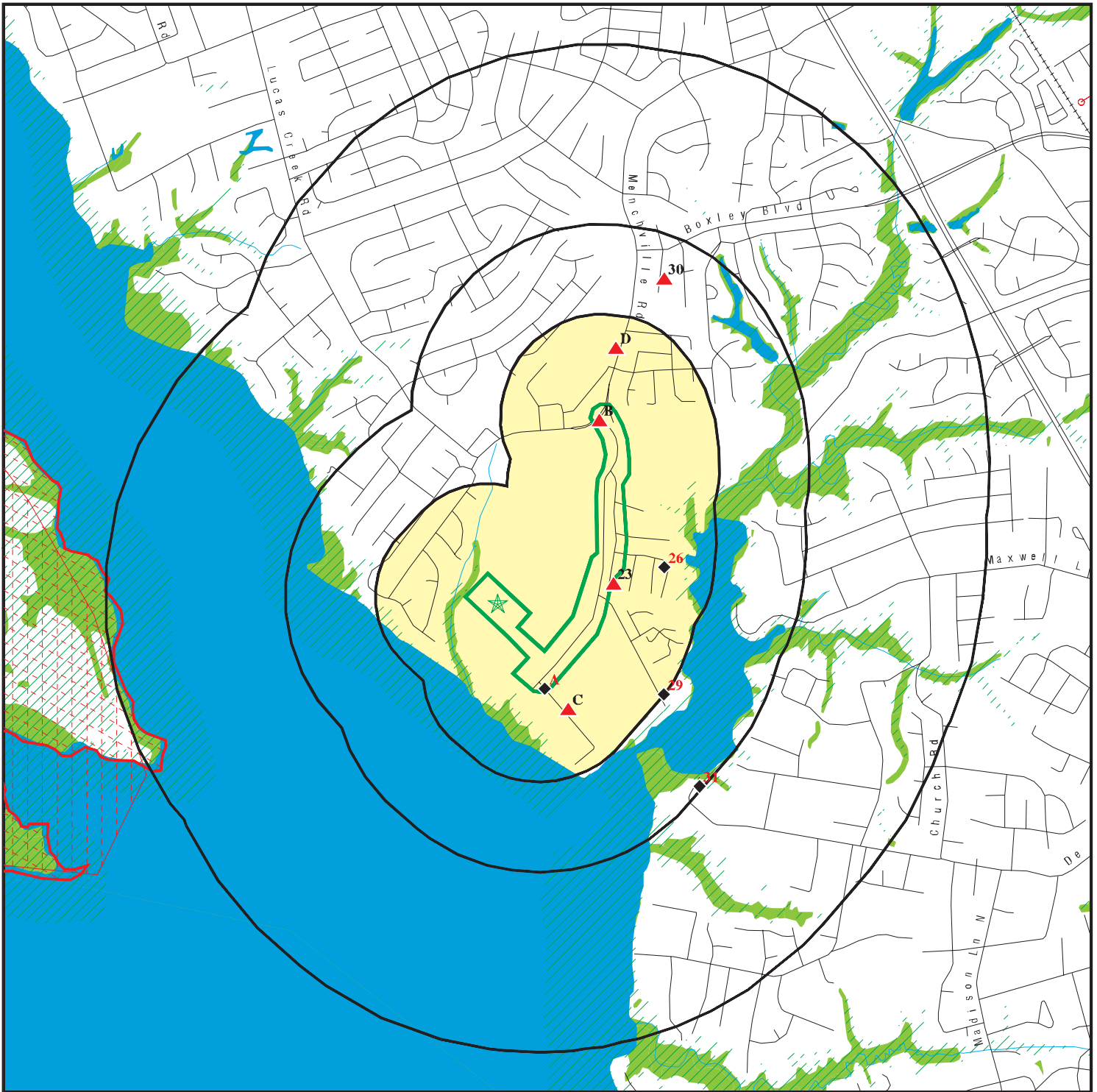
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
B.C. CHARLES ELEM. S Facility ID: 5008642	101 YOUNG RD., NEWPO	0 - 1/8 (0.000 mi.)	B3	9
B.C. CHARLES ELEM SC Facility ID: 5008642	101 YOUNG RD., NEWPO	0 - 1/8 (0.000 mi.)	B8	10
NEWPORT NEWS CITY B. Facility ID: 200000090700	101 YOUNGS ROAD	0 - 1/8 (0.000 mi.)	B9	11
B.C. CHARLES ELEMENT Facility ID: 200000090700	101 YOUNGS ROAD	0 - 1/8 (0.000 mi.)	B10	11











Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEWPORT NEWS	1003866208	OLD MENCHVILLE LANDFILL	OLD MENCHVILLE LANDFILL	23602	SEMS-ARCHIVE

OVERVIEW MAP - 5663423.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory

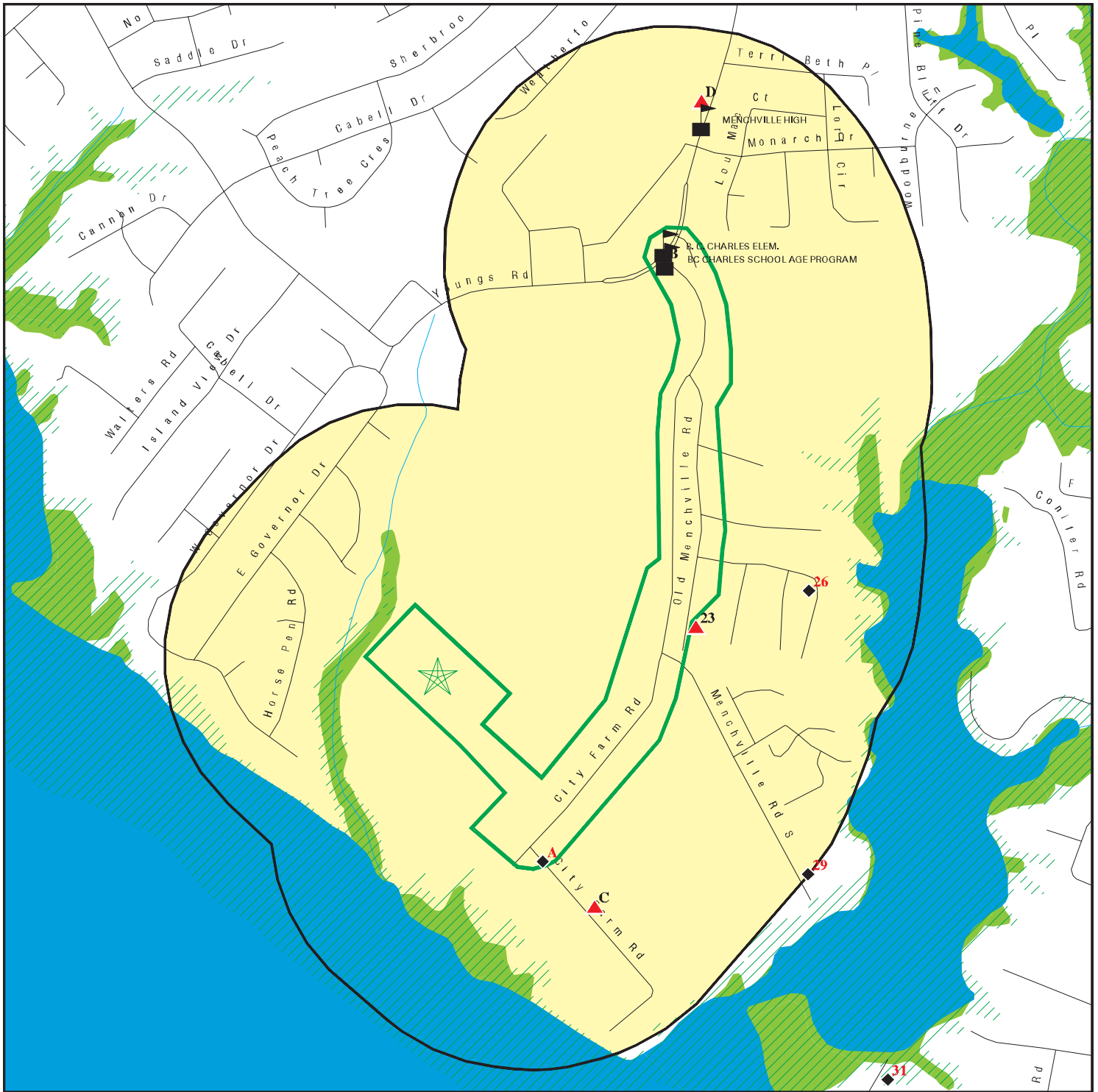









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.





SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News VA 23602
 LAT/LONG: 37.087123 / 76.533387

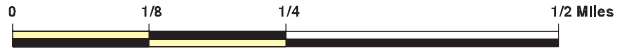
CLIENT: Hazen & Sawyer
 CONTACT: Linda Diebolt
 INQUIRY #: 5663423.2s
 DATE: May 24, 2019 10:39 am

DETAIL MAP - 5663423.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News VA 23602
 LAT/LONG: 37.087123 / 76.533387

CLIENT: Hazen & Sawyer
 CONTACT: Linda Diebolt
 INQUIRY #: 5663423.2s
 DATE: May 24, 2019 10:40 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	1	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	1	0	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	1	NR	1
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		1	0	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		2	NR	NR	NR	NR	2
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		2	1	1	NR	NR	4
INDIAN LUST	0.500		0	0	0	NR	NR	0
LTANKS	0.500		2	1	1	NR	NR	4
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		4	2	NR	NR	NR	6
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		11	NR	NR	NR	NR	11
SPILLS 90	0.001		1	NR	NR	NR	NR	1
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	1	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	1	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	1	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		1	NR	NR	NR	NR	1
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		1	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		2	NR	NR	NR	NR	2
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		1	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001		1	NR	NR	NR	NR	1
NPDES	0.001		1	NR	NR	NR	NR	1
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		1	NR	NR	NR	NR	1
TIER 2	0.001		2	NR	NR	NR	NR	2
UIC	0.001		0	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	0.001		0	NR	NR	NR	NR	0
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MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LUST	0.001		4	NR	NR	NR	NR	4
- Totals --		0	37	7	2	4	0	50

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

DOD
 Region
WSW
 1/2-1
 5255 ft.

FORT EUSTIS MILITARY RESERVATION
FORT EUSTIS MILITARY RESE (County), VA

DOD **CUSA136885**
 N/A

[Click here for full text details](#)

NPL
 Region
WSW
 1/2-1
 4866 ft.

FORT EUSTIS (US ARMY)
END OF MULBERRY ISLAND
NEWPORT NEWS, VA 23604

NPL **1000114665**
SEMS **VA8213720321**
CORRACTS
RCRA-TSDF
RCRA-LQG
US ENG CONTROLS
US INST CONTROL
ROD

[Click here for full text details](#)

NPL
 Cerclis ID:: 302859
 EPA Id: VA6210020321

SEMS
 Site ID: 0302859
 EPA Id: VA6210020321

CORRACTS
 EPA ID:: VA8213720321

RCRA-TSDF
 EPA Id: VA8213720321

RCRA-LQG
 EPA Id: VA8213720321

US ENG CONTROLS
 EPA ID:: VA6210020321
 EPA ID:: VA6210020321

US INST CONTROL
 EPA ID:: VA6210020321

ROD
 EPA ID:: VA6210020321

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
--	--	-------------	--------------------------------

A1 < 1/8 1 ft.	HRSD - JAMES RIVER SEWAGE TREATMENT PLANT 111 CITY FARM ROAD NEWPORT NEWS, VA 23602	ICIS FINDS ECHO	1016127220 N/A
--------------------------	--	-----------------------	-------------------

[Click here for full text details](#)

Relative:
Lower

ICIS
FRS ID:: 110002030962

FINDS
Registry ID:: 110002030962

ECHO
Registry ID: 110002030962

A2 < 1/8 1 ft.	JAMES RIVER TREATMENT PLANT 111 CITY FARM RD NEWPORT NEWS (County), VA	SPILLS	S108921624 N/A
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[Click here for full text details](#)

Relative:
Lower

SPILLS
 Date Closed: 8/21/2003
 Date Closed: 8/27/2003
 Date Closed: 7/29/2003
 Date Closed: 7/20/2004
 Incident Response: 2004-T-0240
 Incident Response: 2004-T-0224
 Incident Response: 2004-T-0299
 Incident Response: 2004-T-0112
 Incident Response: 2005-T-0092

B3 < 1/8 1 ft.	B.C. CHARLES ELEM. SCHOOL 101 YOUNG RD., NEWPORT NEWS NEWPORT NEWS, VA	RGA LUST	S115954243 N/A
--------------------------	---	----------	-------------------

[Click here for full text details](#)

Relative:
Higher

RGA LUST
Facility ID: 5008642

A4 < 1/8 1 ft.	JAMES RIVER STP 111 CITY FARM RD NEWPORT NEWS, VA	SPILLS	S118457488 N/A
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[Click here for full text details](#)

Relative:
Lower

SPILLS
 Facility Status: Closed
 IR Number: 2016-T-1596

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A5

< 1/8
1 ft.

111 CITY FARM ROAD
NEWPORT NEWS, VA

ERNS 93170506
N/A

Relative:
Lower

[Click here for full text details](#)

ERNS
NRC Report #: 170506

A6

< 1/8
1 ft.

HRSD JAMES RIVER WWTP
111 CITY FARM RD
NEWPORT NEWS, VA 23602

FINDS 1023540270
N/A

Relative:
Lower

[Click here for full text details](#)

FINDS
Registry ID:: 110069624080

A7

< 1/8
1 ft.

JAMES RIVER PLANT
111 CITY FARM ROAD
NEWPORT NEWS (County), VA

SPILLS S109150575
N/A

Relative:
Lower

[Click here for full text details](#)

SPILLS
Date Closed: 8/4/2008
Date Closed: 9/23/2008
Date Closed: 11/7/2008
Date Closed: 4/11/2008
Date Closed: 3/5/2009
Incident Response: 2009-T-0093
Incident Response: 2009-T-0301
Incident Response: 2009-T-0443
Incident Response: 2008-T-0964
Incident Response: 2009-T-0757

B8

< 1/8
1 ft.

B.C. CHARLES ELEM SCHOOL
101 YOUNG RD., NEWPORT NEWS
NEWPORT NEWS, VA

RGA LUST S115954242
N/A

Relative:
Higher

[Click here for full text details](#)

RGA LUST
Facility ID: 5008642

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
B9 < 1/8 1 ft.	NEWPORT NEWS CITY B.C. CHARLES ELEMENTARY SCHOOL 101 YOUNGS ROAD NEWPORT NEWS, VA	RGA LUST	S115979504 N/A
Relative: Higher	Click here for full text details RGA LUST Facility ID: 200000090700		
B10 < 1/8 1 ft.	B.C. CHARLES ELEMENTARY 101 YOUNGS ROAD NEWPORT NEWS, VA	RGA LUST	S115954244 N/A
Relative: Higher	Click here for full text details RGA LUST Facility ID: 200000090700		
A11 < 1/8 1 ft.	JAMES RIVER PLANT 111 CITY FARM ROAD, PS 64 NEWPORT NEWS (County), VA	SPILLS	S106036918 N/A
Relative: Lower	Click here for full text details SPILLS Date Closed: 9/23/1999 Incident Response: 2000-T-0126 Incident Response: 2000-T-0524		
B12 < 1/8 1 ft.	B.C. CHARLES ELEMENTARY 101 YOUNGS ROAD NEWPORT NEWS, VA 23602	UST	U003690242 N/A
Relative: Higher	Click here for full text details UST Tank Status: REM FROM GRD Facility Id: 5008642 CEDS Facility ID: 200000090700		
A13 < 1/8 1 ft.	JAMES RIVER PLANT 111 CITY FARM RD NEWPORT NEWS (County), VA	SPILLS	S105520684 N/A
Relative: Lower	Click here for full text details SPILLS Date Closed: 4/26/2000 Date Closed: 6/18/2002 Date Closed: 7/29/2002 Date Closed: 8/22/2002		

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JAMES RIVER PLANT (Continued)

S105520684

Incident Response: 2000-T-1783
Incident Response: 2001-T-2040
Incident Response: 2002-T-2294
Incident Response: 2003-T-0177
Incident Response: 2003-T-0106

A14

**JAMES RIVER TREATMENT PLANT
111 CITY FARM ROAD
NEWPORT NEWS, VA 23602**

**< 1/8
1 ft.**

**RCRA-CESQG 1004789410
UST VAD000800813
SPILLS
US AIRS
Financial Assurance
TIER 2**

**Relative:
Lower**

[Click here for full text details](#)

RCRA-CESQG

EPA Id: VAD000800813

UST

Tank Status: CURR IN USE
Tank Status: REM FROM GRD
Facility Id: 5016809
CEDs Facility ID: 200000065569

SPILLS

Facility Status: Closed
IR Number: 2018-T-0295
IR Number: 2017-T-1075
IR Number: 2017-T-0723
IR Number: 2016-T-3320

US AIRS

EPA plant ID:: 110002030962

Financial Assurance

Facility ID: 5016809
ROF Own Id: 33681

A15

**111 CITY FARM ROAD
NEWPORT NEWS, VA**

**< 1/8
1 ft.**

**SPILLS S106655795
N/A**

**Relative:
Lower**

[Click here for full text details](#)

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

A16	HRSD NEWPORT NEWS 111 CITY FARM ROAD NEWPORT NEWS, VA 23606	SPILLS AIRS NPDES	S106563668 N/A
-----	--	--	---------------------------------

< 1/8
1 ft.

[Click here for full text details](#)

Relative:
Lower

SPILLS

Facility Status: Closed
 IR Number: 2019-T-0009
 IR Number: 2012-T-1017
 IR Number: 2012-T-0481
 IR Number: 2011-T-0860

AIRS

Registration Number: 60996
 Facility ID: 200000065569
 Operating Status: Operating

NPDES

Facility ID: VA0081272

B17	NEWPORT NEWS CITY B.C. CHARLES ELEMENTARY SCHOOL 101 YOUNGS ROAD NEWPORT NEWS, VA 23602	LUST	S105985400 N/A
-----	--	-------------	---------------------------------

< 1/8
1 ft.

[Click here for full text details](#)

Relative:
Higher

LUST

Facility Status: Closed
 Facility ID: 200000090700
 Pollution Complaint Num: 19932306

A18	HRSD - JAMES RIVER STP 111 CITY FARM RD NEWPORT NEWS, VA 23606	SPILLS SPILLS 90	S112429895 N/A
-----	---	-----------------------------------	---------------------------------

< 1/8
1 ft.

[Click here for full text details](#)

Relative:
Lower

SPILLS

Facility Status: Open
 Facility Status: Closed
 IR Number: 2019-T-2316
 IR Number: 2019-T-2208
 IR Number: 2019-T-1667
 IR Number: 2016-T-2532
 IR Number: 2016-T-1237
 IR Number: 2015-T-1915
 IR Number: 2015-T-0645
 IR Number: 2015-T-0633
 IR Number: 2018-T-1613
 IR Number: 2013-T-1998
 IR Number: 2013-T-0500

SPILLS 90

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
	HRSD - JAMES RIVER STP (Continued) Site Id: 2013-T-0500 Status: OPEN		S112429895
A19 < 1/8 1 ft.	111 CITY FARM RD NEWPORT NEWS, VA 23602 Click here for full text details	ERNS	9019361 N/A
Relative: Lower	ERNS NRC Report #: 19361		
A20 < 1/8 1 ft.	HRSD - JAMES RIVER WASTEWATER TREATMENT PLANT 111 CITY FARM ROAD NEWPORT NEWS, VA 23602 Click here for full text details	TIER 2	S118192506 N/A
Relative: Lower			
A21 < 1/8 1 ft.	JAMES RIVER STP 111 CITY FARM ROAD NEWPORT NEWS, VA Click here for full text details	SPILLS	S113243804 N/A
Relative: Lower	SPILLS Facility Status: Closed IR Number: 2013-T-1079		
A22 < 1/8 1 ft.	JAMES RIVER STP 111 CITY FARM ROAD NEWPORT NEWS, VA Click here for full text details	SPILLS	S113243871 N/A
Relative: Lower	SPILLS Facility Status: Closed IR Number: 2013-T-1306		
23 East < 1/8 0.006 mi. 34 ft.	USHMAN PROPERTY 360 OLD MENCHVILLE RD NEWPORT NEWS, VA 23602 Click here for full text details	LTANKS	S117273694 N/A
Relative: Higher	LTANKS Facility Status: Closed		

MAP FINDINGS

Map ID				EDR ID Number
Direction				EPA ID Number
Distance				
Elevation	Site	Database(s)		

USHMAN PROPERTY (Continued)

S117273694

CEDS Facility Id: 200000878460
Pollution Complaint #: 20155009

C24
SE
< 1/8
0.075 mi.
396 ft.

NEWPORT NEWS CITY - CITY FARM
100 CITY FARM RD
NEWPORT NEWS, VA 23607

LUST S105566748
LTANKS N/A

[Click here for full text details](#)

Relative:
Higher

LUST

Facility Status: Closed
Facility ID: 200000064560
Pollution Complaint Num: 20025102

LTANKS

Facility Status: Closed
CEDS Facility Id: 200000064560
Pollution Complaint #: 20025102

C25
SE
< 1/8
0.075 mi.
396 ft.

CITY FARM MAINTENANCE
100 CITY FARM RD
NEWPORT NEWS, VA 23607

UST U003691946
N/A

[Click here for full text details](#)

Relative:
Higher

UST

Tank Status: REM FROM GRD
Facility Id: 5020757
CEDS Facility ID: 200000064560

26
ENE
< 1/8
0.112 mi.
590 ft.

SEWAGE PUMP STATION #120
116 CANVASS BACK TRAIL
NEWPORT NEWS, VA 23602

UST U003692193
N/A

[Click here for full text details](#)

Relative:
Lower

UST

Tank Status: REM FROM GRD
Facility Id: 5022453
CEDS Facility ID: 200000066674

D27
NNE
1/8-1/4
0.159 mi.
840 ft.

MENCHVILLE HIGH SCHOOL
275 MENCHVILLE ROAD
NEWPORT NEWS, VA 23602

UST U003690183
N/A

[Click here for full text details](#)

Relative:
Higher

UST

Tank Status: CLS IN GRD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MENCHVILLE HIGH SCHOOL (Continued)

U003690183

Facility Id: 5008392
CEDS Facility ID: 200000091384

D28
NNE
1/8-1/4
0.159 mi.
840 ft.

MENCHVILLE HIGH SCHOOL
275 MENCHVILLE RD
NEWPORT NEWS, VA 23602

SEMS-ARCHIVE 1000448406
RCRA-SQG VAD980927271
FINDS
ECHO

[Click here for full text details](#)

Relative:
Higher

SEMS-ARCHIVE
Site ID: 0302780
EPA Id: VAD980927271

RCRA-SQG
EPA Id: VAD980927271

FINDS
Registry ID:: 110005229528

ECHO
Registry ID: 110005229528

29
ESE
1/8-1/4
0.249 mi.
1315 ft.

MENCHVILLE MARINE SUPPLY CORP
494 MENCHVILLE ROAD
NEWPORT NEWS, VA 23602

LUST 1000171213
LTANKS VAD023821663
UST
RCRA NonGen / NLR
FINDS
ECHO

[Click here for full text details](#)

Relative:
Lower

LUST
Facility Status: Closed
Facility ID: 200000197895
Pollution Complaint Num: 20005171

LTANKS
Facility Status: Closed
CEDS Facility Id: 200000197895
Pollution Complaint #: 20005171

UST
Tank Status: CLS IN GRD
Facility Id: 5037646
CEDS Facility ID: 200000197895

RCRA NonGen / NLR
EPA Id: VAD023821663

FINDS

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

MENCHVILLE MARINE SUPPLY CORP (Continued)

1000171213

Registry ID:: 110005220652

ECHO

Registry ID: 110005220652

30
NNE
1/4-1/2
0.382 mi.
2017 ft.

FOLTS EDWARD PROPERTY
209 DABNEY DR
NEWPORT NEWS, VA 23602

LTANKS S121308422
N/A

[Click here for full text details](#)

Relative:
Higher

LTANKS

Facility Status: Closed
CEDs Facility Id: 200000885920
Pollution Complaint #: 20185091

31
SE
1/4-1/2
0.491 mi.
2592 ft.

JAMES RIVER MARINA
665 DEEP CREEK RD
NEWPORT NEWS, VA 23606

LUST U003690081
UST N/A
SPILLS

[Click here for full text details](#)

Relative:
Lower

LUST

Facility Status: Closed
Facility ID: 200000065684
Pollution Complaint Num: 20015141

UST

Tank Status: CLS IN GRD
Facility Id: 5007575
CEDs Facility ID: 200000065684

SPILLS

Facility Status: Closed
IR Number: 2018-T-1094

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
VA	AIRS	Permitted Airs Facility List	Department of Environmental Quality	01/14/2019	01/17/2019	04/08/2019
VA	AST	Registered Petroleum Storage Tanks	Department of Environmental Quality	02/04/2019	02/27/2019	04/05/2019
VA	BROWNFIELDS	Brownfields Site Specific Assessments	Department of Environmental Quality	01/23/2019	01/24/2019	02/22/2019
VA	CEDS	Comprehensive Environmental Data System	Department of Environmental Quality	03/04/2019	03/05/2019	04/08/2019
VA	COAL ASH	Coal Ash Disposal Sites	Department of Environmental Protection	12/10/2018	12/12/2018	01/30/2019
VA	DRYCLEANERS	Drycleaner List	Department of Environmental Quality	12/31/2017	11/01/2018	12/26/2018
VA	ENFORCEMENT	Enforcement Actions Data	Department of Environmental Quality	02/04/2019	02/05/2019	04/08/2019
VA	ENG CONTROLS	Engineering Controls Sites Listing	Department of Environmental Quality	01/07/2019	01/08/2019	02/25/2019
VA	Financial Assurance 1	Financial Assurance Information Listing	Department of Environmental Quality	01/30/2019	01/31/2019	02/22/2019
VA	Financial Assurance 2	Financial Assurance Information listing	Department of Environmental Quality	01/31/2019	02/05/2019	04/08/2019
VA	INST CONTROL	Voluntary Remediation Program Database	Department of Environmental Quality	01/07/2019	01/08/2019	02/25/2019
VA	LTANKS	Leaking Petroleum Storage Tanks	Department of Environmental Quality	02/05/2019	02/28/2019	04/08/2019
VA	LUST REG NO	Leaking Underground Storage Tank Tracking Database	Department of Environmental Quality Northern	05/18/2004	05/22/2004	07/09/2004
VA	LUST REG PD	Leaking Underground Storage Tank Sites	Department of Environmental Quality Piedmont	12/02/2014	12/04/2014	01/16/2015
VA	LUST REG SC	Leaking Underground Storage Tanks	Department of Environmental Quality, South Ce	09/06/2013	09/06/2013	09/17/2013
VA	LUST REG SW	Leaking Underground Storage Tank Database	Department of Environmental Quality Southwest	07/15/2013	07/18/2013	09/16/2013
VA	LUST REG TD	Leaking Underground Storage Tank Sites	Department of Environmental Quality Tidewater	06/30/2013	07/05/2013	09/16/2013
VA	LUST REG VA	Leaking Underground Storage Tank List	Department of Environmental Quality Valley Re	12/06/2011	12/08/2011	01/16/2012
VA	LUST REG WC	Leaking Underground Storage Tank List	Department of Environmental Quality West Cent	06/04/2015	06/05/2015	07/07/2015
VA	PFAS	Per- and Polyfluoroalkyl Substances	Department of Environmental Quality	04/08/2019	04/10/2019	05/08/2019
VA	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environmental Quality		07/01/2013	01/20/2014
VA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Environmental Quality		07/01/2013	01/15/2014
VA	SHWS	This state does not maintain a SHWS list. See the Federal CE	Department of Environmental Quality			
VA	SPILLS	Prep/Spills Database Listing	Department of Environmental Quality	02/04/2019	02/27/2019	04/08/2019
VA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	09/01/2012	01/03/2013	02/15/2013
VA	SPILLS BRL	Prep/Spills Database Listing	DEQ, Blue Ridge Regional Office	09/18/2009	09/18/2009	10/06/2009
VA	SPILLS NO	PREP Database	Department of Environmental Quality, Northern	09/23/2009	09/29/2009	10/30/2009
VA	SPILLS PC	Pollution Complaint Database	Department of Environmental Quality	06/01/1996	10/22/1996	11/21/1996
VA	SPILLS PD	PREP Database	Department of Environmental Quality, Piedmont	10/20/2009	10/29/2009	12/03/2009
VA	SPILLS SW	Reportable Spills	Department of Environmental Quality, Southwes	01/21/2010	01/22/2010	02/16/2010
VA	SPILLS TD	PREP Database	Department of Environmental Quality, Tidewate	09/17/2009	09/23/2009	10/06/2009
VA	SPILLS VA	PREP Database	Department of Environmental Quality, Valley R	08/08/2012	08/09/2012	10/05/2012
VA	SPILLS WC	Prep Database	Department of Environmental Quality, West Cen	09/21/2009	09/29/2009	10/30/2009
VA	SWF/LF	Solid Waste Management Facilities	Department of Environmental Quality	03/04/2019	03/05/2019	04/10/2019
VA	TIER 2	Tier 2 Information Listing	Department of Environmental Quality	12/31/2014	01/20/2017	02/14/2017
VA	UIC	Underground Injection Control Wells	Department of Mines, Minerals and Energy	01/29/2019	01/30/2019	02/25/2019
VA	UST	Registered Petroleum Storage Tanks	Department of Environmental Quality	02/04/2019	02/27/2019	04/05/2019
VA	VRP	Voluntary Remediation Program	Department of Environmental Quality	01/07/2019	01/08/2019	02/25/2019
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	03/27/2019	03/28/2019	05/01/2019
US	BRS	Biennial Reporting System	EPANTIS	12/31/2015	02/22/2017	09/28/2017
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	03/31/2019	04/23/2019	05/23/2019
US	CORRACTS	Corrective Action Report	EPA	03/25/2019	03/27/2019	04/17/2019
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/31/2018	07/26/2018	10/05/2018

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transportation, Office of Pipeli	12/03/2018	01/29/2019	03/21/2019
US	Delisted NPL	National Priority List Deletions	EPA	04/11/2019	04/18/2019	05/14/2019
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	04/07/2019	04/09/2019	05/23/2019
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	03/25/2019	03/26/2019	05/01/2019
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	04/03/2019	04/05/2019	05/14/2019
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2017	10/13/2017
US	FINDS	Facility Index System/Facility Registry System	EPA	02/15/2019	03/05/2019	03/15/2019
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	03/07/2019	04/03/2019	05/23/2019
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	02/19/2019	02/21/2019	04/01/2019
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/25/2019	03/26/2019	05/14/2019
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Services, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/13/2018	03/07/2019	05/01/2019
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	10/17/2018	03/07/2019	05/01/2019
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	09/24/2018	03/12/2019	05/01/2019
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/12/2018	03/07/2019	05/01/2019
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	11/01/2018	03/07/2019	05/01/2019
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	02/19/2019	03/07/2019	05/01/2019
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/16/2018	03/07/2019	05/01/2019
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	10/10/2018	03/08/2019	05/01/2019
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/03/2018	03/07/2019	05/01/2019
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	10/17/2018	03/07/2019	05/01/2019
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	09/24/2018	03/12/2019	05/01/2019
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/12/2018	03/07/2019	05/01/2019
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	11/01/2018	03/07/2019	05/01/2019
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	11/07/2018	03/07/2019	05/01/2019
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/16/2018	03/07/2019	05/01/2019
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	10/10/2018	03/08/2019	05/01/2019
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	04/11/2019	04/18/2019	05/14/2019
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	04/11/2019	04/18/2019	05/23/2019
US	LUCIS	Land Use Control Information System	Department of the Navy	02/22/2019	03/07/2019	04/17/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016
US	NPL	National Priority List	EPA	04/11/2019	04/18/2019	05/14/2019
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	03/20/2019	04/10/2019	05/14/2019
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US	PRP	Potentially Responsible Parties	EPA	04/11/2019	04/18/2019	05/23/2019
US	Proposed NPL	Proposed National Priority List Sites	EPA	04/11/2019	04/18/2019	05/14/2019
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	04/02/2019	04/02/2019	05/14/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/25/2019	03/27/2019	04/17/2019
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	03/25/2019	03/27/2019	04/17/2019
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/25/2019	03/27/2019	04/17/2019
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/25/2019	03/27/2019	04/17/2019
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/25/2019	03/27/2019	04/17/2019
US	RMP	Risk Management Plans	Environmental Protection Agency	04/25/2019	05/02/2019	05/23/2019
US	ROD	Records Of Decision	EPA	04/11/2019	04/18/2019	05/23/2019
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	04/11/2019	04/18/2019	05/23/2019
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	04/11/2019	04/18/2019	05/23/2019
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	12/17/2018	12/18/2018	01/11/2019
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	02/24/2019	02/26/2019	04/17/2019
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	01/31/2019	02/04/2019	03/08/2019
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	03/25/2019	03/26/2019	05/07/2019
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	02/24/2019	02/26/2019	04/17/2019
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	01/31/2019	02/04/2019	03/08/2019
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	11/27/2018	02/27/2019	04/01/2019
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	12/31/2017	01/17/2019	04/01/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	02/11/2019	02/12/2019	03/04/2019
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2018	04/10/2019	05/16/2019
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	01/30/2019	02/14/2019
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2017	10/23/2018	11/27/2018
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2017	02/23/2018	04/09/2018
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2017	06/15/2018	07/09/2018
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
VA	Daycare Centers	Sensitive Receptor: Licensed Facilities	Department of Social Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines		PennWell Corporation			
US	Electric Power Transmission Line Data		PennWell Corporation			

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SWIFT - JRTP
SWIFT - JRTP
NEWPORT NEWS, VA 23602

TARGET PROPERTY COORDINATES

Latitude (North):	37.087123 - 37° 5' 13.64"
Longitude (West):	76.533387 - 76° 32' 0.19"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	363713.3
UTM Y (Meters):	4105433.8
Elevation:	26 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5954353 MULBERRY ISLAND, VA
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

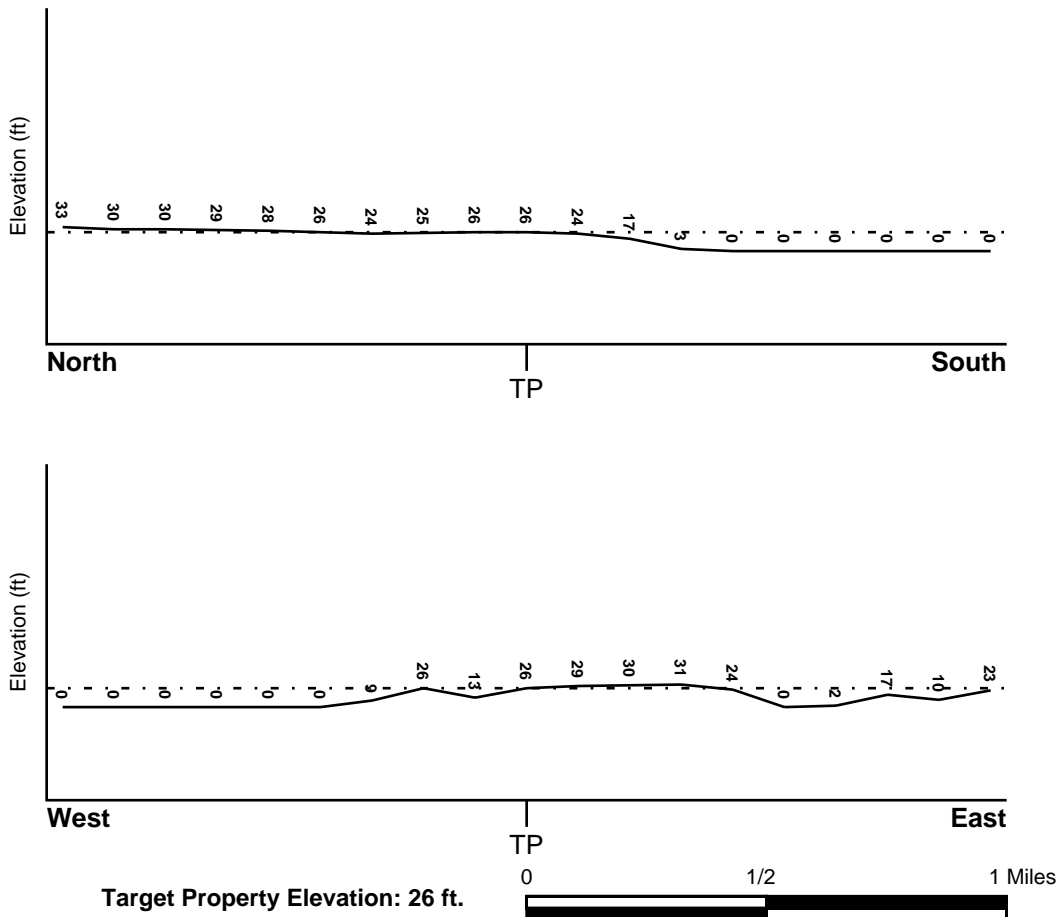
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
5101030108D	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
5101030106D	FEMA FIRM Flood data
5101030107D	FEMA FIRM Flood data
5101030109D	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
MULBERRY ISLAND	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

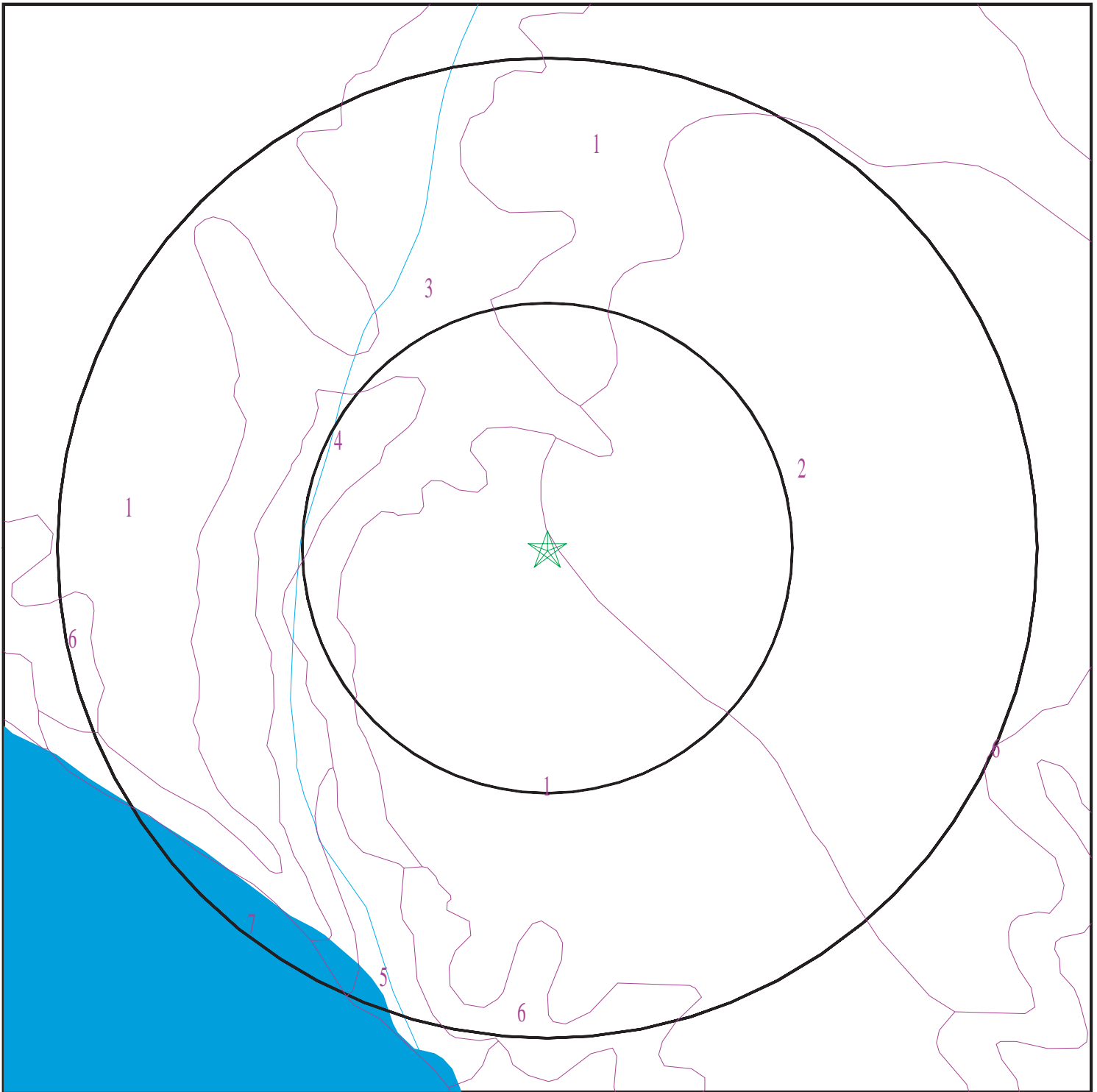
Era:	Cenozoic
System:	Tertiary
Series:	Miocene
Code:	Tm (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

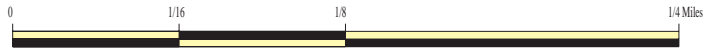
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5663423.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: SWIFT - JRTP
ADDRESS: SWIFT - JRTP
Newport News VA 23602
LAT/LONG: 37.087123 / 76.533387

CLIENT: Hazen & Sawyer
CONTACT: Linda Diebolt
INQUIRY #: 5663423.2s
DATE: May 24, 2019 10:40 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Slagle

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 0.01	Max: 5.5 Min: 3.6
2	9 inches	25 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 0.01	Max: 5.5 Min: 3.6
3	25 inches	59 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 0.01	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Craven

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 42 Min: 1.4	Max: 5.5 Min: 3.6
2	9 inches	53 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 42 Min: 1.4	Max: 5.5 Min: 3.6
3	53 inches	79 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 42 Min: 1.4	Max: 5.5 Min: 3.6

Soil Map ID: 3

Soil Component Name: Uchee

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	24 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 4.5
2	24 inches	55 inches	sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 4.5
3	55 inches	64 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 4.5

Soil Map ID: 4

Soil Component Name: Johnston

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	33 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 141 Min: 42	Max: 5.5 Min: 4.5
2	33 inches	59 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 141 Min: 42	Max: 5.5 Min: 4.5

Soil Map ID: 5

Soil Component Name: Udorthents

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 6

Soil Component Name: Uchee

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	24 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 4.5
2	24 inches	55 inches	sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 4.5
3	55 inches	64 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 4.5

Soil Map ID: 7

Soil Component Name: Water

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

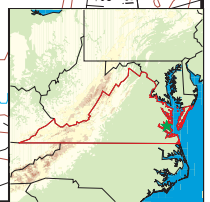
PHYSICAL SETTING SOURCE MAP - 5663423.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: SWIFT - JRTP
 ADDRESS: SWIFT - JRTP
 Newport News VA 23602
 LAT/LONG: 37.087123 / 76.533387

CLIENT: Hazen & Sawyer
 CONTACT: Linda Diebolt
 INQUIRY #: 5663423.2s
 DATE: May 24, 2019 10:40 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

EPA Region 3 Statistical Summary Readings for Zip Code: 23602

Number of sites tested: 66.

Maximum Radon Level: 5.5 pCi/L.

Minimum Radon Level: -0.1 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
62 (93.94%)	4 (6.06%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Federal EPA Radon Zone for NEWPORT NEWS CITY County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Virginia Public Water Supplies

Source: Department of Health, Office of Water Programs

Telephone: 804-786-1756

OTHER STATE DATABASE INFORMATION

Virginia Oil and Gas Wells

Source: Department of Mines, Minerals and Energy

Telephone: 804-692-3200

A listing of oil and gas well locations.

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA

Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix H: Site Photographs

JRTP and SWIFT Facility Property – Photo Log



Vent pipe, fill port, fuel dispenser, and spill kit storage container for gasoline UST at JRTP facility.



Fuel pump, fill ports, vent pipe, and spill kit storage container for diesel fuel UST at JRTP facility.

JRTP and SWIFT Facility Property – Photo Log



Muriatic acid AST and associated containment area at JRTP facility.



Propane tank and spill kit storage container at JRTP facility.

JRTP and SWIFT Facility Property – Photo Log



Methane flare and associated piping at JRTP facility.



Sodium hydroxide and ferric sulfate ASTs and associated containment area and phosphorous removal facility at JRTP facility.

JRTP and SWIFT Facility Property – Photo Log



Sodium hydroxide ASTs and associated containment area at JRTP facility.



No. 2 fuel oil UST fill port and vent pipe at JRTP facility.

JRTP and SWIFT Facility Property – Photo Log



Dumpster and piping in the JRTP storage area.



Miscellaneous items present in the JRTP storage area.

JRTP and SWIFT Facility Property – Photo Log



Miscellaneous pipe present in the JRTP storage area.



Miscellaneous materials, soil, and debris present in the JRTP storage area.

JRTP and SWIFT Facility Property – Photo Log



Miscellaneous materials present in the JRTP storage area.



Debris along slope northwest of the JRTP sites.

JRTP and SWIFT Facility Property – Photo Log



Drum at the bottom of the slope and in the stream northwest of the JRTP sites.



Debris along slope northwest of the JRTP sites.

JRTP and SWIFT Facility Property – Photo Log



Debris along slope northwest of the JRTP sites.



Debris at base of slope northwest of the JRTP sites as viewed from opposite slope.

JRTP and SWIFT Facility Property – Photo Log



Debris along slope northwest of the JRTP sites.



Debris along slope northwest of the JRTP sites.