

# Updating the Federal Boundaries Data Layer

John Wolf and Fred Irani, USGS

Federal Facilities Workgroup Meeting

December 11, 2024

# Purpose

*The federal lands data layer is a key input to the Phase 7 watershed model and essential to calculating federal reduction goals. Updating the federal property boundaries is needed as part of the Phase 7 model development to assess federal pollutant loads and allocate responsibility for reducing those loads to the appropriate federal agencies.*

# Resources Available for Review

1. GIS Data for existing CBP Federal Facilities (v 2021) – available for download at
  - <https://gis-data.chesapeakebay.net/downloads/FederalFacilities2021.zip>
2. GIS Service for existing Federal Facilities (v2021) – available at
  - [FederalFacilitiesReview/Federal\\_Facility\\_Review \(MapServer\)](#)
3. Online Map Viewers (one per agency) containing v 2021 Fed Facilities and agency-specific ancillary data) available at
  - <https://gis.chesapeakebay.net/fedfacilities/review>
4. GSAT
  - Available for agency-specific one-on-one discussions in January

# Things to keep in mind...

- Each agency is different, so will adjust our approach based on agency needs/capabilities
- For this exercise, there are diminishing returns for improving accuracy
- Try to arrive at the best representation with moderate or low effort
- Are the big properties reflected and reflected relatively accurately?



Collection

# Federal Facilities Review

Chesapeake Bay Program



1 Department of Defense



2 U.S. Forest Service



Smithsonian

3 Smithsonian Institution



4 National Park Service



5 U.S. Fish and Wildlife Service



6 General Services Administration

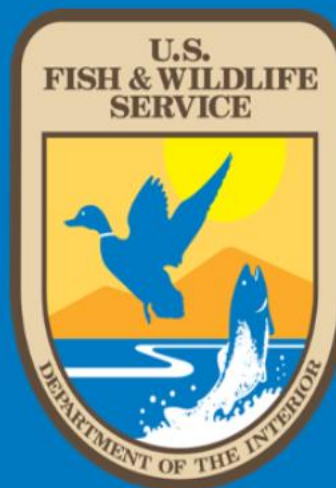


7 National Aeronautics and Space Administration



8 Agricultural Research Service

<https://gis.chesapeakebay.net/fedfacilities/review>



# Fish and Wildlife Service

Federal Facilities in the Chesapeake Bay Watershed

Enter

## Introduction



The federal lands data layer is a key input to the Phase 7 watershed model and essential to calculating federal reduction goals. Updating the federal property boundaries is needed as part of the Phase 7 model development as a means to assess federal pollutant loads and allocate responsibility for reducing those loads to the appropriate federal agencies. This data layer needs to be updated for Phase 7 by early spring 2025 and may be further updated as per the Phase 7 update cycle (TBD by the WQGIT).

☐ Don't show this again

Enter



## Fish & Wildlife Service Federal Facilities Review

Legend

Select Basemap

Bookmarks

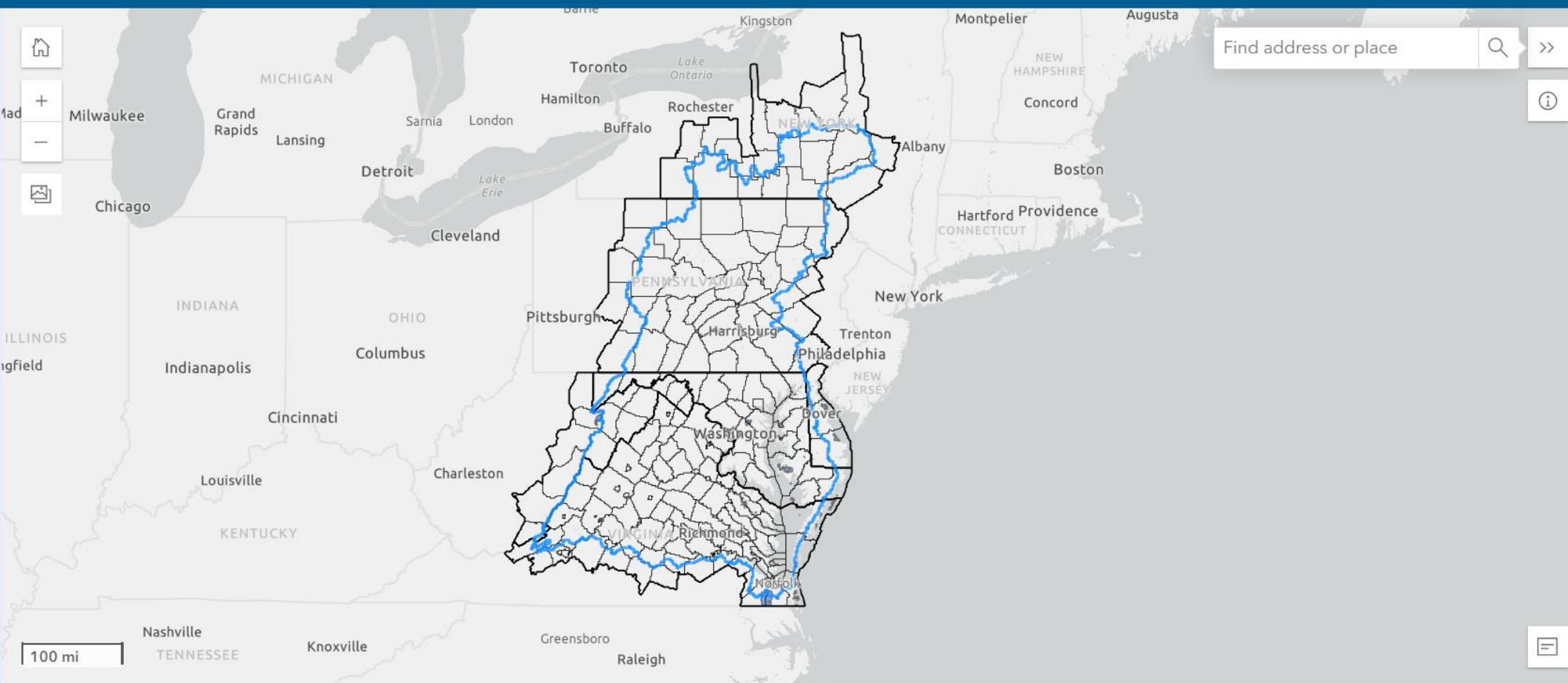
Layers



Find address or place



Collapse







## Fish & Wildlife Service Federal Facilities Review

The screenshot displays a web-based map application interface. On the left side, there is a vertical menu with the following options: Legend, Select Basemap, Bookmarks, and Layers. A search bar at the top right contains the placeholder text "Find address or place" and a magnifying glass icon. A central text box with a white background and black text reads "Map Navigation and Snapshot". A black box highlights three navigation controls on the left: a home icon labeled "Home", a zoom in (+) and zoom out (-) icon labeled "Zoom", and a snapshot icon labeled "Snapshot". The map itself shows the Eastern United States, with major cities like Toronto, Hamilton, Buffalo, Rochester, Albany, Montreal, Boston, and Washington, D.C. visible. A scale bar at the bottom left indicates "100 mi".

Legend

Select Basemap

Bookmarks

Layers

Find address or place

Home

Zoom

Snapshot

Map Navigation and Snapshot

100 mi

PSU Office of Physical Plant, County of Chester, data.ba.gov, Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS | Chesapeake Bay Program, City of Chesapeake Public Works Department - Engineering Divis... Powered by Esri



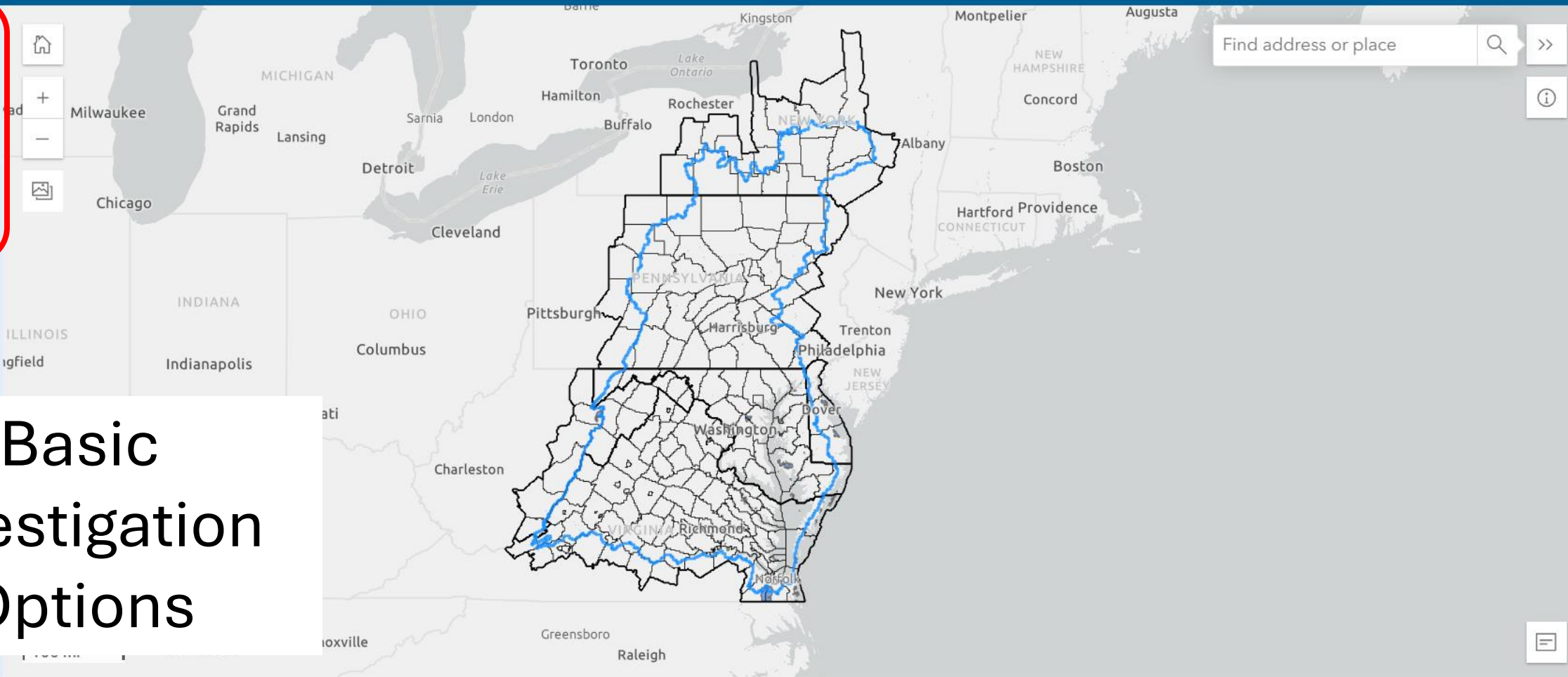
## Fish & Wildlife Service Federal Facilities Review

- Legend
- Select Basemap
- Bookmarks
- Layers



# Basic Investigation Options

<< Collapse



## Fish & Wildlife Service Federal Facilities Review

Legend

Select Basemap

Bookmarks

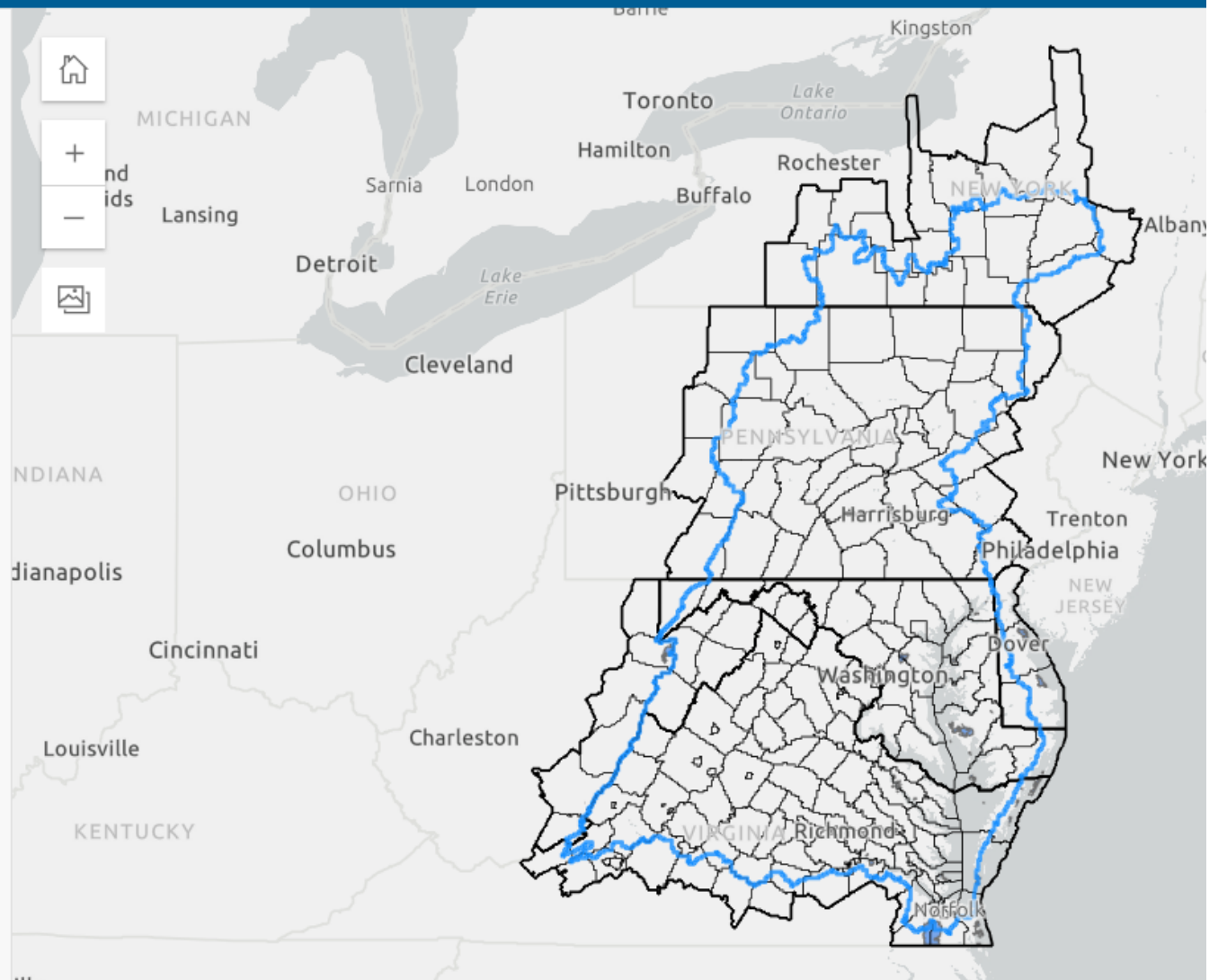
Layers

Federal Facility Review

Fish and Wildlife Service



Map Legend



## Fish & Wildlife Service Federal Facilities Review

Legend

Select Basemap

Bookmarks

Layers

Patuxent NWR

Eastern Neck Island NWR

Blackwater NWR

Mason Neck NWR

Susquehanna Point

Harrisville

Seward

DORCHESTER

Fishing Creek

Crapo

Elliott

Linkwood

Cambridge

Paw Paw Acres

Church Creek

Taylors Island Wildlife Management Area

Chesapeake Ranch Estates

Solomons

5 mi

Find address or place

Agency-specific Bookmarks (where appropriate)




## Fish & Wildlife Service Federal Facilities Review


Legend


Select Basemap


Bookmark


Layers

Environment Map

Imagery Hybrid

Light Gray Canvas

Streets

Terrain with Labels

Home

+

-

Full Screen

Find

Smithville

Harriet Tubman Underground Railroad National Historical Park

Harrisville

Taylor's Island

Taylor's Island Wildlife Management Area

5,000 ft

Gun

Select Basemap

Select  
Basemap

# Fish & Wildlife Service Federal Facilities Review

Legend

Select Basemap

Bookmarks

Layers

>

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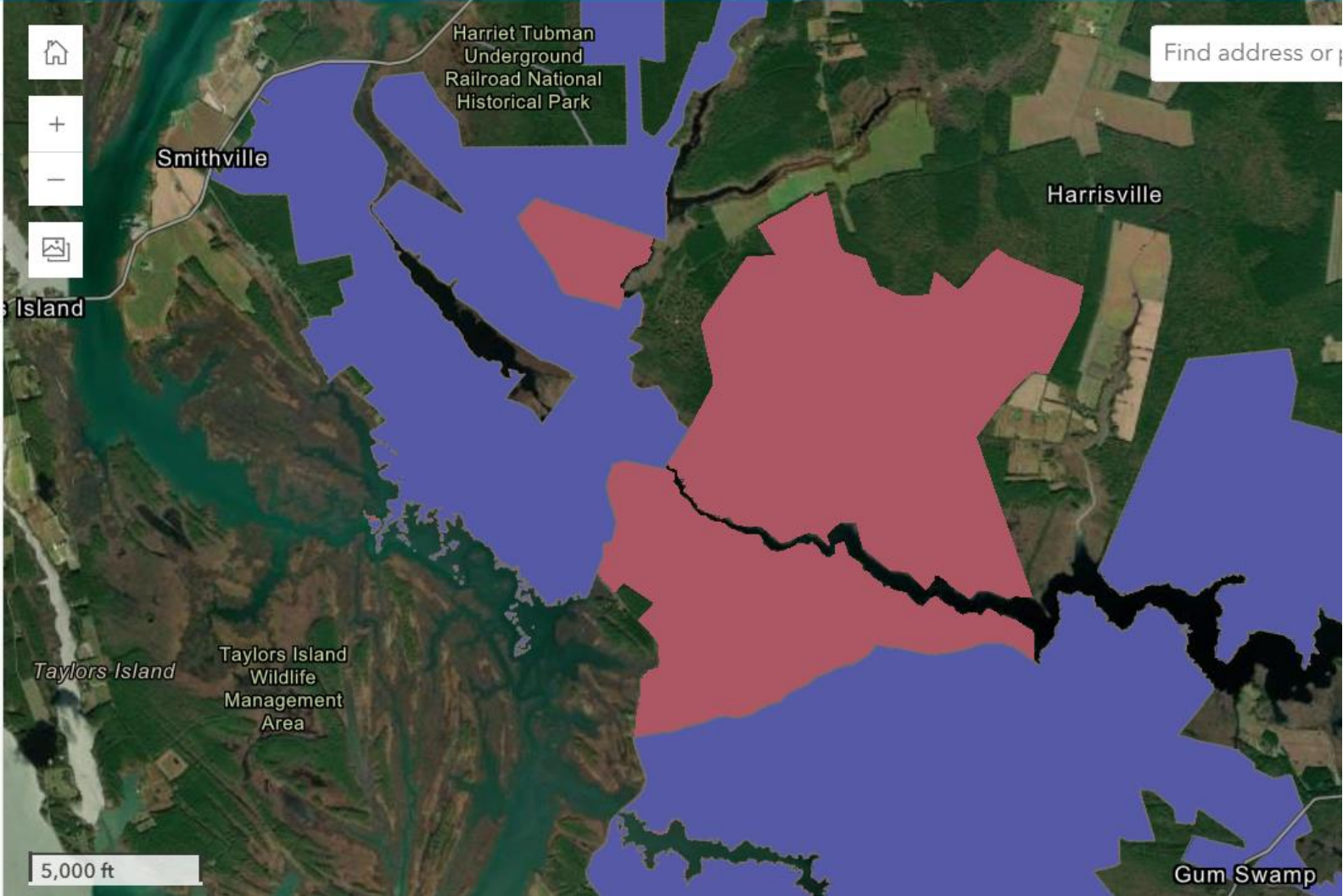
☒

Boundaries

Federal Facility Review

Supplemental

PADUS - FWS Lands



Layer Display  
(that could help with review)



# Fish & Wildlife Service Federal Facilities Review

Legend

Select Basemap

Bookmarks

Layers

>

☒

Boundaries

>

☒

Federal Facility Review

▼

☒

Supplemental

☒

PADUS - FWS Lands

Home

+

-

Layers

Find address or place

Smithville

Harriet Tubman Underground Railroad National Historical Park

Harrisville

Taylor's Island Wildlife Management Area

Gum Swamp

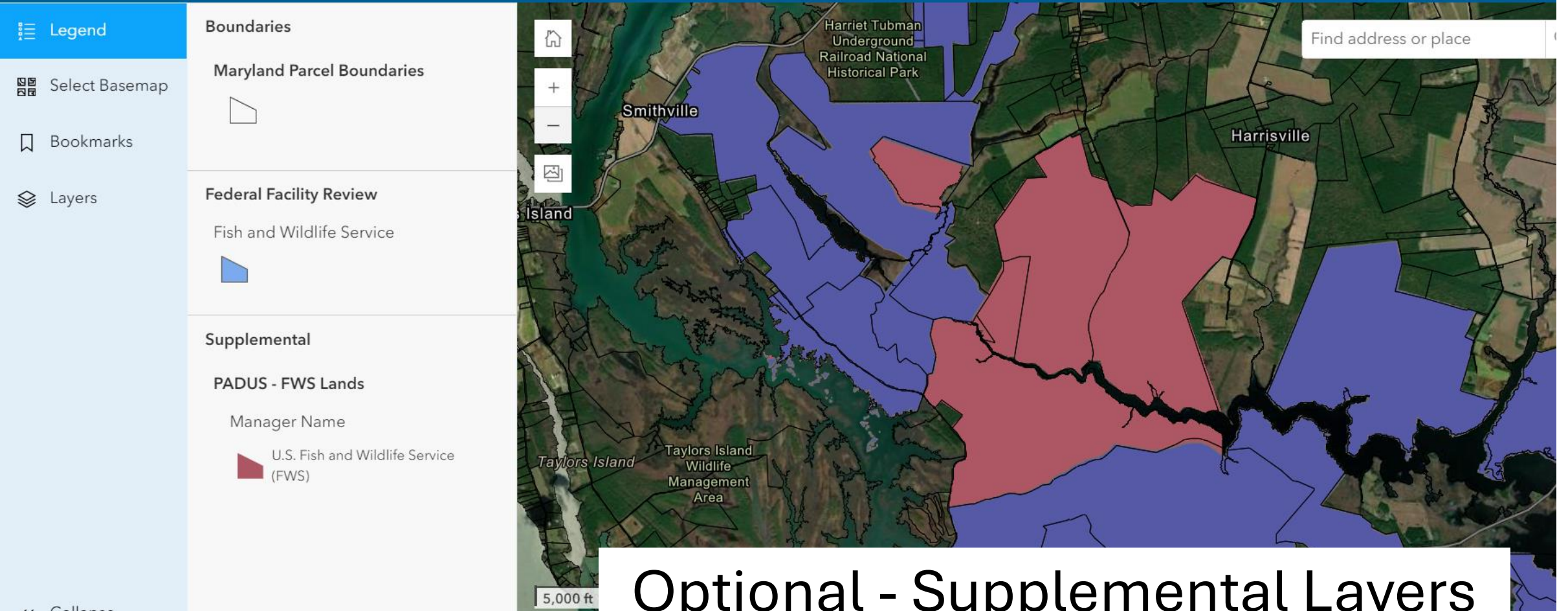
5,000 ft

Optional - Supplemental Layers

(that could help with review)



## Fish & Wildlife Service Federal Facilities Review



# Optional - Supplemental Layers

(Parcel Boundaries and PAD-US Federal)



# Fish & Wildlife Service Federal Facilities Review

Legend

Select Basemap

Bookmarks

Layers

Boundaries

Maryland Parcel Boundaries

Federal Facility Review

Fish and Wildlife Service

Supplemental

PADUS - FWS Lands

Manager Name

U.S. Fish and Wildlife Service (FWS)

Home

+

-

Image

Smithville

Island

Taylors Island

Taylors Island Wildlife Management Area

Harriet Tubman Underground Railroad National Historical Park

Harrisville

Find address or place

MD ParcelBoundaries - Parcel Boundaries: 1004055195

Account ID

1004055195

Acres

980.38

Address

Address Prefix

1 of 3

Optional – Parcel Identification

# Map Viewer Notes

- Supplemental layers in map viewers are optional and agency specific (not all agencies contain supplemental layers)
- If you want a layer added to a map viewer, please reach out
- Some supplemental layers (e.g., Parcels) can take longer to draw
- Parcels are included from publicly accessible services for Maryland and Virginia only
- Still tweaking apps!

# Options for Federal Partners

1. Send us an email indicating that your Federal facilities data is already complete and needs no further editing.

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4. Send us a picture/map/image of an area that should be added or removed from our records.
5. *If necessary, sketch or digitize the boundary changes in an online map editor.*
6. Other ideas?



# Proposed Next Steps/Timeline

- Distribute 2021 FF data (today)
- Release draft map viewers (today)
- Identification of agency GIS contacts (December 2024)
- Hold agency-specific calls as necessary (January 2025)
- Updated data submissions (January 1 – February 15)

# Thank You!

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