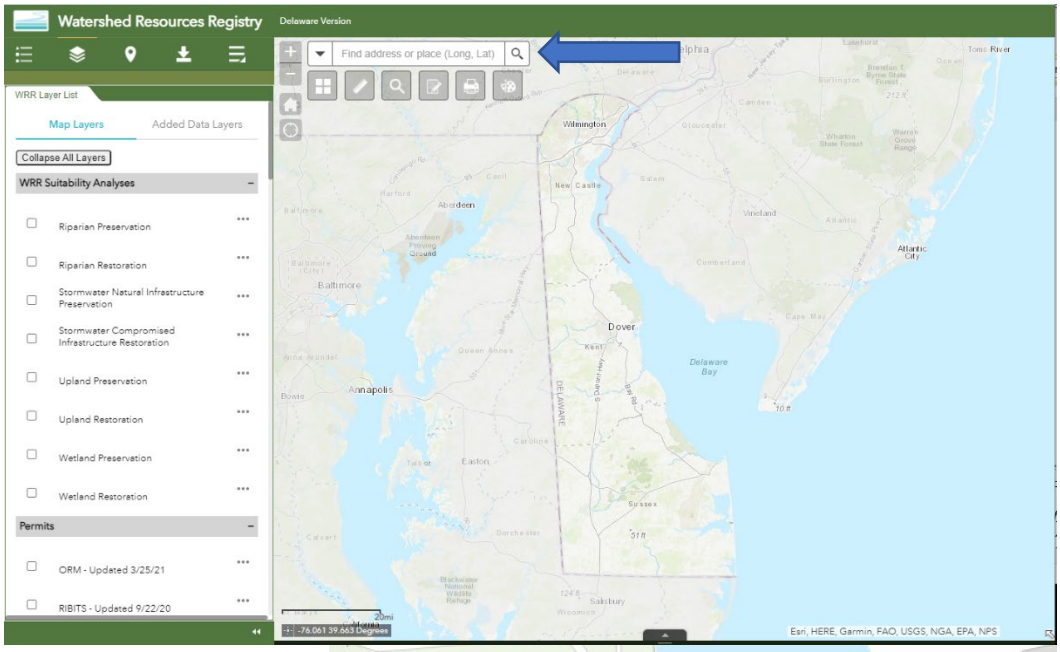
The Water Resources Report

The Water Resources Report is a customized Location Details report designed to provide summary of information on the watershed(s) and water resources within a user-defined area of interest. The Report's information comes from the attribute tables of mapped data layers present within a given WRR, and thus, presents the same information that can be accessed from the WRR Layer List. The Water Resources Report, however, aggregates all this information instantly and pulls it together in a printable or downloadable report that includes a map, legend, and scale.

▪ Making the Most of the Water Resources Report

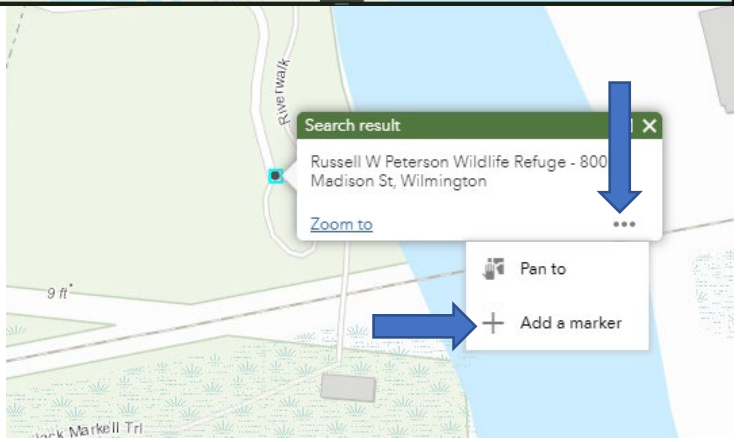
Open the WRR that corresponds with project area you are reviewing. Upon opening the WRR, you should see a large map on the right-hand side of the screen, and an expanded tool panel on the left.

Use the search bar in the upper left-hand corner of the map to navigate to the project area. You can enter in the latitude and longitude coordinates, the street address, or the common name of a location.

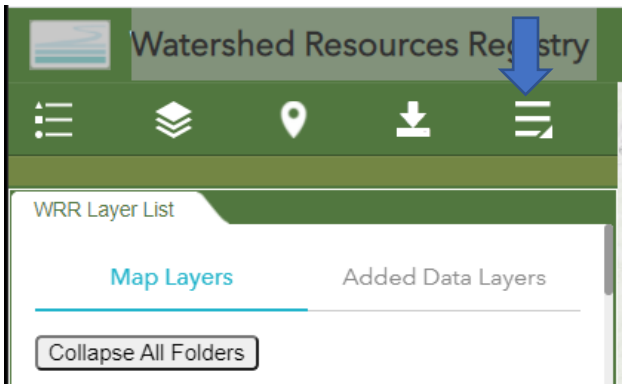


The map will zoom to your specified location.

Optional step: Click on the ellipses (three small dots) in the lower right-hand corner of the pop-up box. A drop-down menu will appear. Select the 'Add a marker' option. This will save your location on the map, so that if you navigate away for any reason, you can easily find your way back.

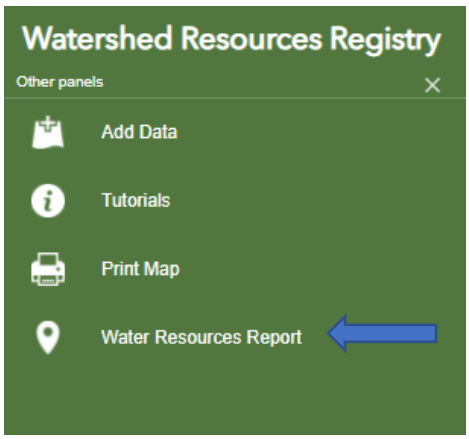


Once you are viewing your desired area on the map, turn your attention to the expanded tool panel on the left-hand side of the screen. In the WRR Layer List, scroll to the **National Hydrography Dataset** folder. This folder exists for all WRRs. Turn on the *NHD Plus Catchment* layer, so that you can see the catchment(s) that your location resides in. (This is not explicitly necessary but can help you when you draw your AOI). The catchments outlines are a pale pink color that stand out against imagery but might be more difficult to see if your base map is pale.



Next navigate to the green tool bar and click on the 'More' icon. This is the far-right icon on the green toolbar.

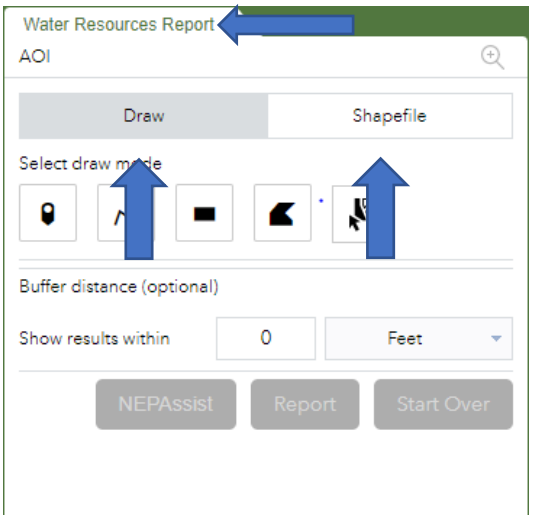
A list of options will appear. Click on the 'Water Resources Report' at the bottom of the list.



This will open a panel that looks similar to the Location Details panel. The tab at the top, however, will read, 'Water Resources Report'.

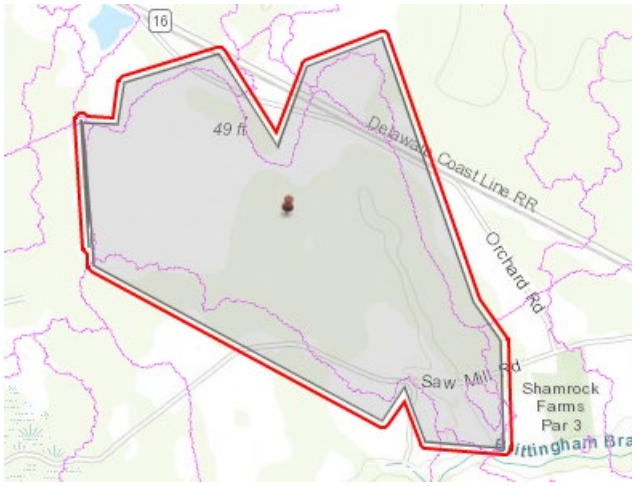
Choose whether you would like to delineate your Area of Interest (AOI) on the map by selecting the 'Draw' tab or the 'Shapefile' tab.

The 'Shapefile' tab will prompt you to upload a zipped shapefile.



▪ Select Area of Interest by Drawing

The 'Draw' tab will prompt you to select a draw mode: point, line, extent, polygon, and select by rectangle. Regardless of what mode you select, instructions for how to use the tool will appear near the cursor once you select the mode and move your mouse over to the map. With the catchment layer turned on, you can easily create an AOI that encompasses part or all of the catchment(s) your site resides in. You can also define your area of interest by simply drawing any shape you want on the map.



Once you have drawn your desired AOI on the map, you can create a buffer around the AOI. Input the desired buffer size into the text box and select the appropriate units from the drop-down menu.

If you make a mistake or would like to redraw your AOI, click the Start Over button.

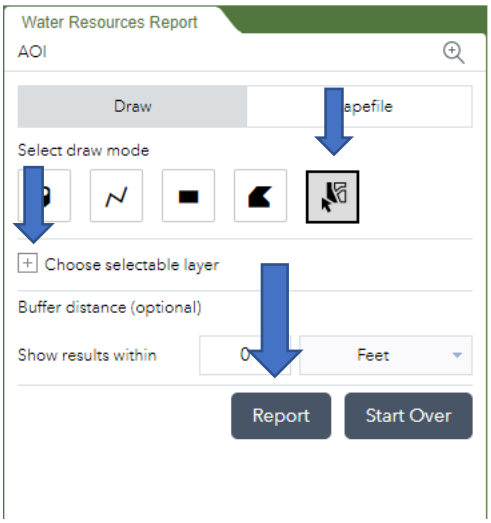
Manually drawing your AOI (versus using the Select by Rectangle tool or uploading a zipped shapefile) will allow you to also run NEPAssist reports on your AOI.

Once your shape is created, skip the next section, and go to the Watershed Resources Report, page following.

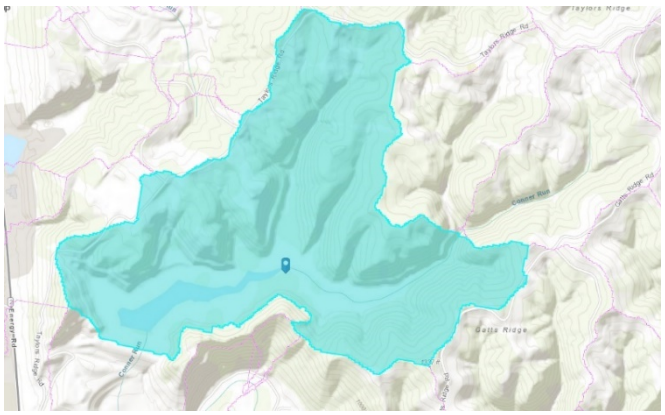
▪ Drawing with Select by Rectangle

The 'Select by Rectangle' is a powerful drawing tool that will allow you to select a mapped polygon from a data layer and use it as your AOI. When running the Water Resources Report, this works well with the NHD Plus Catchment layer (this layer is in every WRR).

First, ensure that the NHD Plus Catchment layer (or whatever layer you're interested in) is turned on in the WRR Layer List.



Choose the 'Draw' tab and the 'Select by Rectangle' mode. An option to 'Choose selectable layer' will appear. Click on the '+' sign to expand the available options.

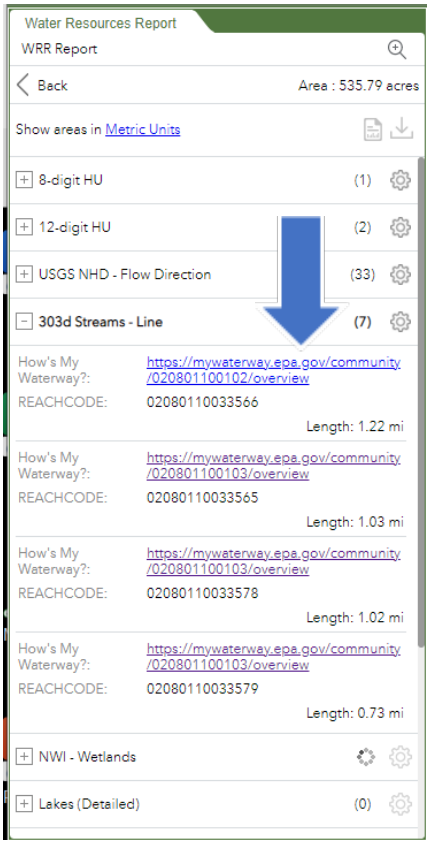


Check the box next to 'NHDPlusCatchment' (or whatever layer you have decided to use), and then minimize the list.

Draw a rectangle on the map that is ***entirely contained*** within the catchment(s) you would like to select. The selected catchment(s) should appear in cyan. Apply a buffer if desired. Now, you may run the Water Resources Report.

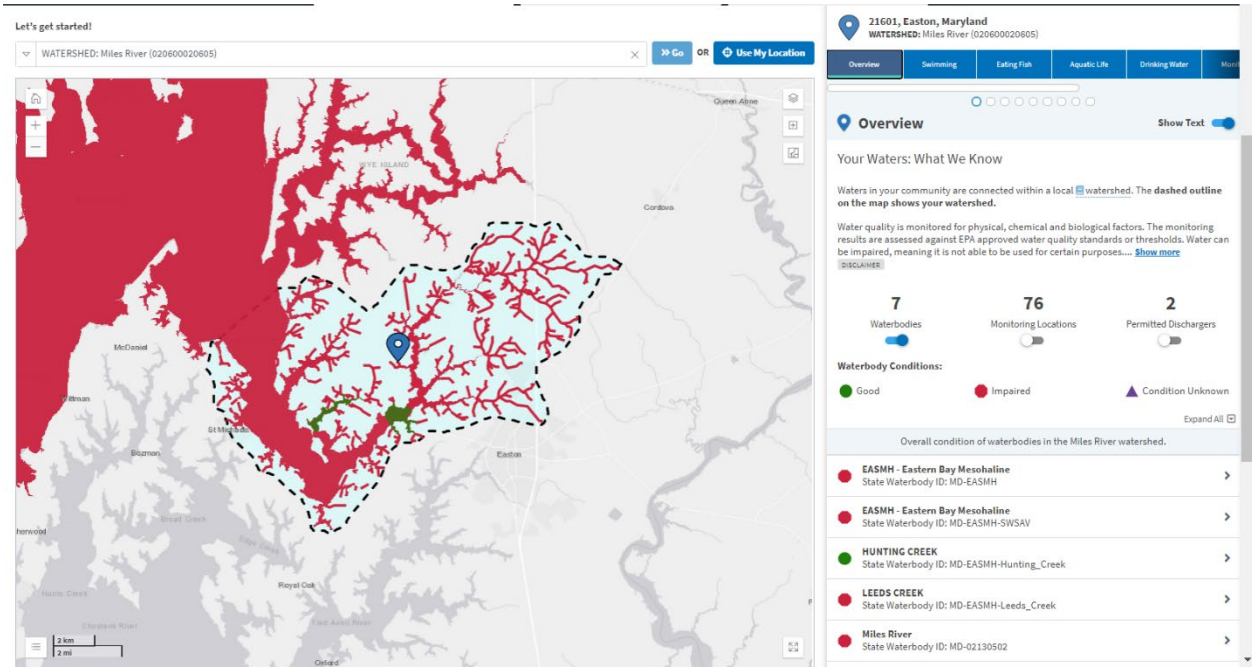
Water Resources Report

Click on the blue 'Report' button to run the Water Resources Report. A new panel will open with a list of data layers surveyed. The results for each data layer can be expanded (using the plus sign) to reveal more information about the site and the metric in question.



Always expand the 303d Streams – line data layer. This layer is included in every WRR Water Resources Report and will include a link to the EPA's How's My Waterway tool for every 303d listed waterway. Clicking any link will take you to How's My Waterway, and that specific waterway. ***It is important to expand the 303d Streams – Line layer within the tool panel, because the hyperlinks to How's My Waterway will not appear in the printable report.***

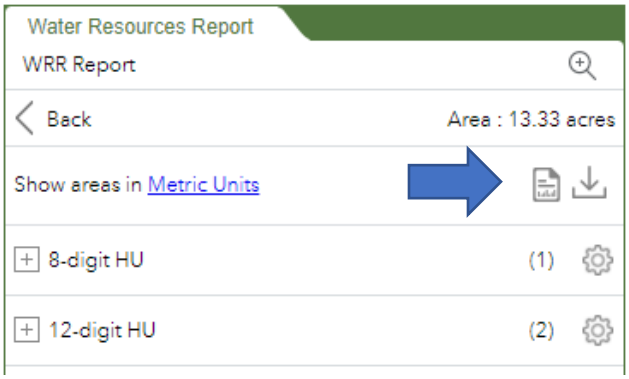
Currently, Maryland's is the only WRR that includes any other data layers with hyperlinks in the Water Resources Report. That is the Tidal Waters Use Classes.

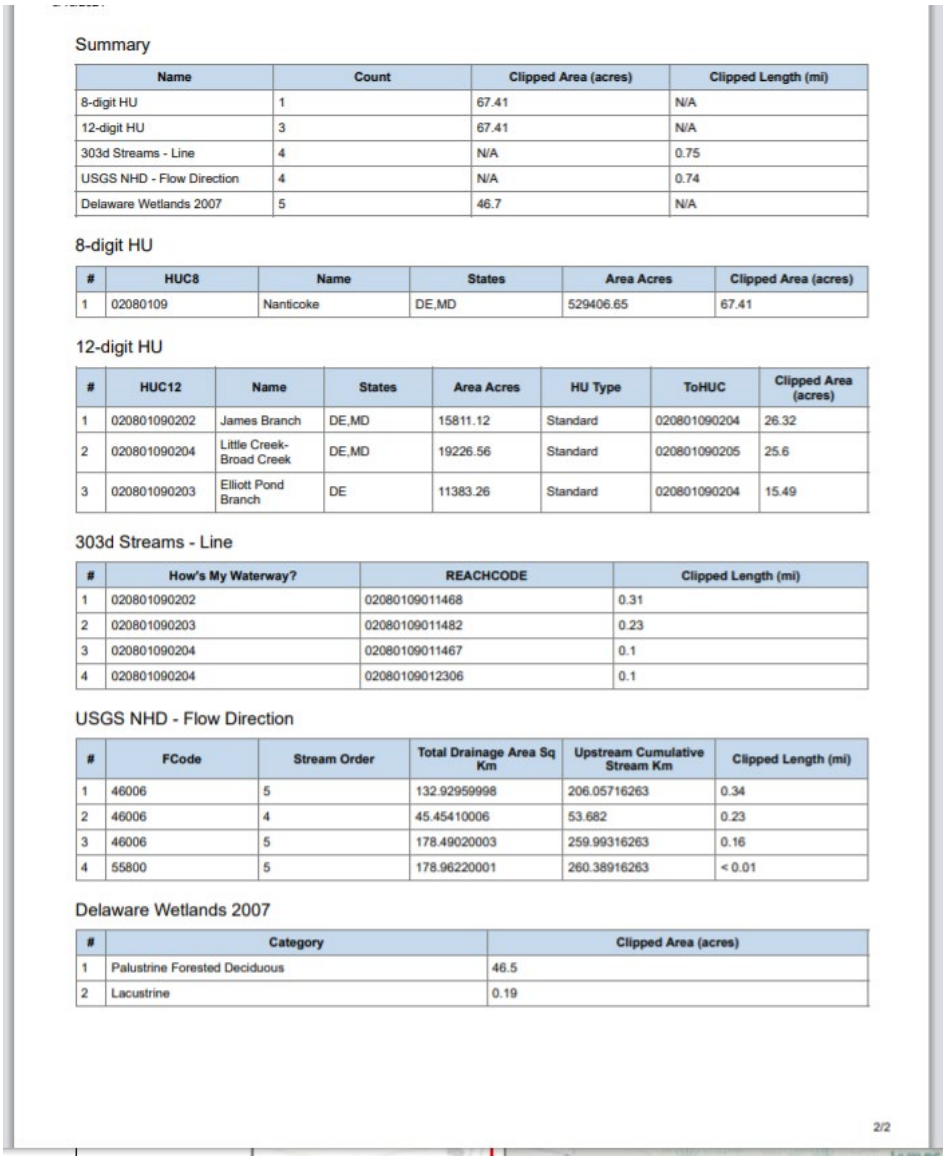


▪ Printing a Report

In the upper right-hand corner of the Water Resources Report, click on the document icon.

A drop-down menu will appear. The default, Letter ANSI A Portrait is a standard 8.5” X 11” sheet of computer paper. Clicking the blue ‘Print’ button will bring up a preview of the document that you are printing. Click the gray ‘Print’ button again to print out a version of your WRR Report or select ‘Save as a pdf’.





Summary

Name	Count	Clipped Area (acres)	Clipped Length (mi)
8-digit HU	1	67.41	N/A
12-digit HU	3	67.41	N/A
303d Streams - Line	4	N/A	0.75
USGS NHD - Flow Direction	4	N/A	0.74
Delaware Wetlands 2007	5	46.7	N/A

8-digit HU

#	HUC8	Name	States	Area Acres	Clipped Area (acres)
1	02080109	Nanticoke	DE,MD	529406.65	67.41

12-digit HU

#	HUC12	Name	States	Area Acres	HU Type	ToHUC	Clipped Area (acres)
1	020801090202	James Branch	DE,MD	15811.12	Standard	020801090204	26.32
2	020801090204	Little Creek-Broad Creek	DE,MD	19226.56	Standard	020801090205	25.6
3	020801090203	Elliott Pond Branch	DE	11383.26	Standard	020801090204	15.49

303d Streams - Line

#	How's My Waterway?	REACHCODE	Clipped Length (mi)
1	020801090202	02080109011468	0.31
2	020801090203	02080109011482	0.23
3	020801090204	02080109011467	0.1
4	020801090204	02080109012306	0.1

USGS NHD - Flow Direction

#	FCode	Stream Order	Total Drainage Area Sq Km	Upstream Cumulative Stream Km	Clipped Length (mi)
1	46006	5	132.92959998	206.05716263	0.34
2	46006	4	45.45410006	53.682	0.23
3	46006	5	178.49020003	259.99316263	0.16
4	55800	5	178.96220001	260.38916263	< 0.01

Delaware Wetlands 2007

#	Category	Clipped Area (acres)
1	Palustrine Forested Deciduous	46.5
2	Lacustrine	0.19

2/2

▪ NEPAssist Widget

The NEPAssist widget (and resulting reports) can be run on the AOI created for the Watershed Details Report, unless you upload a shapefile or use the 'Select by Rectangle' draw mode. Clicking on the NEPA Assist button (after creating an AOI) will open a new window with National, State, Demographic, and USFWS IPaC Reports. The USFWS IPaC report contains information on USFWS managed resources like endangered species, migratory birds, facilities, and wetlands. The demographic reports contain census information from the EJ Screen tool. All of these reports can be downloaded as an Excel spreadsheet or PDF.

This tool will work on AOI 500 sq. miles (320,000 acres) or less, but it can struggle when working on HUC 12s.

Reminder Note: The NEPAssist tool does not work if you have created your AOI by uploading a shapefile or by using the 'Select by Rectangle' tool. It will work only by drawing a point, polyline, rectangle or polygon.