# Land Resource Protection Web App USER GUIDE



A User Guide for the Land Resource Protection Web Application

Department of Environmental Protection Division of Watershed Land Management Bureau of Program Development (GIS)

# LAND RESOURCE PROTECTION INTRANET APPLICATION USER GUIDE



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# Introduction

## Purpose and Tool List

This application is a public web application intended to provide GIS data relevant to a Land Resource Protection Permit Application. Geographic Information System (GIS) layers are grouped in different categories to aid in a desktop evaluation. The following list summarizes the tools available in the application:

- Navigation Tools
- Address Search
- <u>Coordinate Search</u>
- Block/Lot Search
- Layers & Settings
  - o Base Layers
  - o Imagery Layers
  - Grouped Layers
- Viewing GIS feature Details
  - o <u>Pop-Ups</u>
  - o <u>Attribute Table</u>
- Legend
- <u>Share/Save Location</u>
- Measurement Tool
- Drawing Tool
- <u>Swipe Tool</u>
- Basemap Gallery
- Land Resource Screening Tool
- Water Resource Screening Tool
- Add Data
- <u>Print</u>





## Menu Bar





## Navigation

The following tools are available to help the user in moving or panning around the map:

## Zoom in/Zoom out



Use the *plus* or *minus* button located on the top left of the application to *zoom in* or *out* of the map. Or use a scroll wheel on a mouse to zoom in/out of the map.

## Default Extent



This button is located under the *zoom in*/out button. It will bring the map view back to the extent of New Jersey.

My Location



This button is located under the *default extent* button. If a device is location enabled (such as a tablet or a cell phone), this will bring you to the physical location of the device you are using to access the application.

## Previous/Next Extent



This button is located under *my location* button. This enables the user to view the previous extent (or scale) of the map. This may be useful to go to previous or next extents when panning though an area of interest.

## Address Search



The address search bar is located on the top left of the application. Type in a full address and the results will start to auto-populate with possible matches. Click on

the address or the magnifying glass to bring the extent of the map to the location.

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Address Search Window



When selecting the address, the map will zoom to the location by placing a point where the address was mapped. This point is temporary and will be removed once other layers are turned on.

## Accessing/Viewing Layers, Transparency, Visibility

The following examples show where to find layers, how to turn on/off layers in different groups and how to adjust transparency:

## Accessing Layers

Some layers can be accessed through the buttons below the address search bar for quick access, while other layers can be found in the group layer list on the main menu bar.



The base layers consist of administrative boundaries and transportation features such as county, municipal boundaries, parcels, road centerlines, rail stations and rail lines, as well as NJEMS Sites.

Find a	address	or place			Q
-		≣	xx	*	

Imaaerv List



The imagery list located under the address search bar contains aerial images from the 1930s to 2020, as well as Vermeule maps (NJ Color Historical Maps) and Color/Black & White Topographical Maps.

Most layers can be found in the *grouped layer lists* on the top right of the menu as shown below. To see a full list of layers available, click <u>here</u>.



Group Layer Dropdown Menu

## Turning layers on/off

Layers can be turned on and off individually or by groups. Navigate to the *Group Layers* on the top right side of the application.

Group Layer List



**Option 1** | Select a group of layers from the drop-down list (i.e. Base Layer). To expand or collapse the list of layers click the double arrow outlined in yellow in the figure below.

**Option 2** | To close the layer list click on the *X* symbol. To turn individual layers on/off check the box to the left of the layer.



**Option 3** | To see the symbology of the layer, click on the little gray arrow to the left of the layer. The layer will be on if the box is checked (see *County* in the example below).

**Option 4** | To expand all layers in the group on/off click on the symbol outlined in red (a list with a check) and select *Turn all layers on* or *Turn all layers off.* To expand or collapse all layers (to see the legend/symbology), click *Expand All Layers* or *Collapse All Layers*.



The layers that are checked on are visible in the map view frame. The County layer is the only one that is visible when the user first opens the application. Layer names that appear gray indicate that they are not visible at the current map scale. For example, the Parcel layer will appear gray until you zoom in close enough to a site for the parcel layer to become available. This is to help the application run faster as displaying layers with numerous records at a state wide level will slow down the application.





Parcel Layer not available at a small scale

Parcel Layer available at a larger scale after zooming in



## View Legend

When a layer is turned on the symbology will appear in the legend window located below the address search bar.

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	Legend Tool	
Find address or	place Q	
	≣ 🙏 🖤	
	Legend ×	
	Parcel (Block and Lot)	
	County	
		1

## Changing visibility range, transparency, and order

A User can temporarily change the transparency, visibility range, labels, and order while working in the application. To change the transparency, click on the three dots to the right of the layer of interest and select transparency. A menu will appear, slide the bar to change the level of transparency desired. Other features include:

- Setting the visibility range
  - If a layer needs to be viewed at a different scale, then the visibility range can be changed.
- Disable pop-up
  - To temporarily hide the pop-up associated to the GIS layer the user can disable it.
- Hiding labels
  - If the labels of the layer are distracting, they can be temporarily turned on/off.
- Moving the layer up or down
  - Controlling if a layer will be displayed on top or on bottom of other layers.
- View the attribute table
  - See a detailed view of the information associated to the GIS layer. However, it is recommended to use the pop-up to view the details of the feature in interest.
- Show item details
  - View metadata associated to the GIS layer.





## View details of GIS feature

Associated information to the GIS layers can be viewed through a Pop-Up window. It is possible that a pop was disabled if there was no pertinent information in the GIS layer.

Pop up Window



To view the pop-up simply click on the layer in an area of interest. The information will show up in the pop-up. There may be links to other sites that can provide more information.

To maximize the pop-up, click on the small box in the top right of the pop-up as outlined in red. To close the pop-up click on the *X*.

More options are available by clicking on the three dots located on the bottom right as outlined in red. Options include:

Pan to | Moving the map to the center of the GIS Feature.
Add a Marker |A marker will be placed that shows lat/long
View in Attribute Table |View GIS information in a table
Zoom to |Zoom to the feature selected



Pop-Up	Window	Maximized
--------	--------	-----------

Landscape Project - Piedmont Plains	
Region: Piedmont Plains Highest Rank: 4 Version: Version 3.3	
Rank 5	No rank 5 species listed
Rank 4	Bald Eagle - Haliaeetus leucocephalus (Foraging)
Rank 3	No rank 3 species listed
Rank 2	Eastern Box Turtle - Terrapene carolina carolina (Occupied Habitat) Great Blue Heron - Ardea herodias (Foraging)
Rank 1	No rank 1 species listed
Riparian: Yes Fore Core: Yes Grass Min: No 2012 Land Use Type: DECIDUOUS WOODED WETLA 2012 General Land Use Type: WETLANDS Acres: 27.54 ac Hectares: 11.14 ha Link ID: 261315	NDS
Related tables:	
Environmental_habitat - Envr_hab_ls_v3_3_piedmt_r1_03	
Environmental_habitat - Envr_hab_ls_v3_3_piedmt_sp_03	

## Attribute Table

Most pertinent information can be viewed from the pop-up window. If there is interest in viewing the full details of the GIS feature of interest, this information can be viewed from the attribute table display. There are a couple ways to access the display:

**Option 1** | Through the pop-up window, click on the three dots located on the bottom right-hand side of the window and select *view in attribute table*. This will bring up the attribute table with the selection on the map.

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#### Attribute Table Button



# Tools

## Location

The following tools will help navigate to a location based on coordinates or parcel search (Block and Lot).



## Coordinate Search

The coordinate search tool is located under the address search bar.

Coordinate Search Tool



**Step 1** | In the search window enter the X/Y coordinate in NAD 1983 State Plane. If the coordinates are in WGS click on the drop-down arrow next to the units and change the coordinate system.

			5	
XY Coordinate Search	×	XY Coordin	ate Search	×
Coordinates	Results	Coord	dinates	Results
Enter the coordinates: Units: NAD_1983_Star Easting (X): Northing (Y): Example: 420949.23, 50388	tePlane_New_ v	Enter the coord Units: Easting (X): Northing (Y): Example:	dinates: NAD_1983_Sta NAD_1983_Sta Longitude Latit Longitude Latit 420949.23, 5038	atePlane_New_  atePlane_New_Jersey_FIPS_2900_Feet aude - Decimal Degrees (WGS84) aude - Degrees Minutes Seconds (WGS84) 84.48 Locate
				.1

**Step 2** | Click locate when ready. The map will zoom to the location and a temporary marker will appear to show the location of the coordinates. Once a result is found, clear the results if a new search is required. Other options include clicking on the three dots and panning (moving) to the location in the current scale, adding a marker on the map (this will only stay there for the duration of one session – it will not be saved once the application is closed), and zooming to the location.

#### XY Coordinate Search Window Options



Clea Coordinates	503848
Clea Coordinates Location: 420949, 5	503848
Coordinates Location: 420949, 5	503848
Location: 420949, 5	503848
Zoom to	
	📲 Pan to
	+ Add a marker
	💐 Zoom to

Coordinate Search Window Results

Parcel (Block & Lot) Search



**Step 1** | In the parcel window, select search by parcel or by parcel ID number. All fields do not have to be populated to get a result.

If searching by lot and block enter the municipality, block & lot, and click search. All fields to do not have to be populated to get a result.

If searching by Parcel Number, select the parcel number option in the drop-down menu and type in the parcel number in the format shown in the window. *Note: Use all CAPS if there is a qualifier code.* 

**Step 2** | Click search when ready.

Parcel Search			≈ ×
By Value	e	Results	
Search layer		Clea	ar Fields
Parcel Search			•
Search alias			
Parcel Block & L	.ot	•	
Parcel Block & L	_ot		
Parcel Number	Tranton		
PCL_MUN is	Enter M	unicipality Name	•
PCLBLOCK is	701		
PCLLOT in	6,7		
	QFARM		
Qualifier Code			

Find a location through a *Block/Lot query* finder. This tool is location on the main menu bar on the top of the application.



The results will populate in the *results window*. If there are multiple matches, several results will appear. If there are no matches, the results window will say *no results found*. Some options include zooming to, pan to, flash, show pop-up, view in attribute table, export to CSV file. All results are are temporary, they will not be saved when closing the application. To save locations check out the *save/share tool*. To start a new search, click clear results and go back to the parcel search window. To mimize the attribute table press on the button (pointing down) on the bar on the bottom.

				Parcel Search		*
				By Value		Results
				Features selected: 1 1111_30002_1 COUNTY: MERCER MUN_NAME: TREN: PCL_MUN: 1111 PCLBLOCK: 30002 PCLLOT: 1	· · · · · · · · · · · · · ·	Zoom to Pan to Flash
				PCLQCODE:		Show pop-up
High Hazard Area Change	Floodway Change	Special Flood Hazard Area (	Change Non-Special Flo	od Hazard Area Change Sear		Save to My Content
r selection C Refresh						View in Attribute Table
PCLBLOCK 30002	PCLLOT 1	PCL_ 1111	MUN	PCLQCODE	[∂	Export to CSV file
					$\times$	Clear Results

Parcel Search Winow Results

## Share Tool

The *share tool* creates a weblink that can be shared with someone via email or saved for quick links in trackers such as word documents or excel files. Please note the web link needs to be opened through the NJDEP network either via Citrix, GTMPC, or in the office.

The *share tool* is located on the left-hand side of the application under the address search bar.

Share Tool Location





There are two options to save a link, **Option 1** is to save the location and extent and **Option 2** is to save the layer visibility and add a marker. Follow the instructions below to save a location.



Share Tool Option 2- Step 1



**Option 1** | Click the *share tool* button and copy the link, paste the link into an email, excel file, or word document to keep track and save the location. The link will bring the maps to the saved location when copying the link from the share tool.

**Option 2 | Step 1** Click the *share tool* button and click on link options.



#### Share Tool Option 2- Step 2

Share		×
$\leftarrow$	Link options	
Select URL paramet	ers included in the link	
O Current map exter	nt	
Click the map to d	efine the center of the map with :	zoom level
Click the map to d	efine the center of the map with i	map scale
Query a feature an	id zoom to it	
<ul> <li>Add a marker on t</li> </ul>	he map	
<b>Q</b>		
WKID	102100	Do Not Change WKID
Pop-up title	Title of the marker pop-u	'P
Symbol	Marker symbol URL	
Label	1506-11-0001.1	]
Overwrite default :	screen size of mobile layout	-
Set display langua	ge of the app	
Remember layers	visibility	
Link preview		
https://dep-gisags.d id=88dd8550d98f48 %2C102100%2C%2 0001.1&level=19&sh Hydrography_44949	ep.state.nj.us/njdep/apps/webap 3b882b4b18dff664a77▮= C%2C1506-11- nowLayers=Government_1312%3 63BLOISV_3421_0%3BLOISV_343	opviewer/index.html? -8243059.8214%2C4880526.3432 3BEnvironmental_admin_6889%3B 21_1%3BLOISV_3421_2%3BLOISV_

Option 2 | Step 2 Click the Add a marker on the map button and add a desired label in the label section Note: Do not change the WKID, leave it as it is.

Check the *remember layers visibility* button to save the layers that were turned on. Remember to turn on the GIS layers that should be displayed before saving the link.

#### Share Tool Option 2- Step 3

←	Link options
	Lincoptono
Select URL parame	ters included in the link
O Current map exte	nt
O Click the map to c	define the center of the map with zoom level
<ul> <li>Click the map to o</li> </ul>	define the center of the map with map scale
Find the location	or feature and zoom to it
Query a feature a	nd zoom to it
<ul> <li>Add a marker on</li> </ul>	the map
9	
WKID	102100
Pop-up title	Title of the marker pop-up
Symbol	Marker symbol URL
Label	1506-11-0001.1
Overwrite default	screen size of mobile layout
Set display langua	age of the app
Remember layers	visibility
Link preview	
https://dep-gisags. id=88dd8550d98f4 %2C102100%2C%2 0001.1&level=19&s Hudrography, 4494	dep.state.nj.us/njdep/apps/websppviewer/index.html? 188882b4b18dff604377▮=-8243059.8214%2C4880526.3432 C%2C1506-1104-777▮=-8243059.8214%2C4880526.3432 1050252-2014-105201002-2014-105201002-2014-201402-201002-201002-201002-201002-201002-201002-201002-201002-201002-201002-201002-201002-201002-20000-2000000

**Option 2 | Step 3** Click the back button on in the tool window.

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Share Tool Option 2- Step 4

Share ×
Share a link to this app https://dep-gisags.dep.state.nj.us/njdep/apps/webappviewer/i Link options
Embed this app in a website <iframe <br="" frameborder="0" height="200" width="300">scrolling="no" allowfullscreen src="https://dep- gisags.dep.state.nj.us/njdep/apps/webappviewer/index.html? id=88dd8550d98f48b882b4b18dff664a77&amp;extent=-8243336. 189%2C4880415_1811%2C-</iframe>
Embed options

**Option 2 | Step 4** Copy the link and email it or save it to a document where it is easily accessible.

When the link is opened, it should have the marker with the label as well as the layers that were turned on before clicking on the share tool.



Result



## Basemap Gallery

To change the basemap or background layer from streets to imagery, or topographical relief, select the *basemap gallery tool on* the main menu bar on the top right of the application.

Basemap Gallery Tool Location



The basemap can be changed at any time. However, in order to compare aerial imagery side by side use the imagery list icon to select the imagery and the <u>swipe tool</u> to compare. *Note: Some basemaps may not be available (based on ESRI production).* 



Basemap Gallery Window

## Land Resource Screening Report

The Land Resource Screening Report tool is a tool that scans an area of interest (a point, polygon, or line) and generates a report that summarizes all GIS layers that were scanned and some details from the



attribute table. This report is specific to land resources such as potential wetlands, historic areas of interest, threatened and endangered species, etc. Use the <u>Water Resource Screening Report</u> to analyze the area of interest for streams, watersheds, and flood hazard areas. The tool should only be used for small areas such as a few parcels to optimize performance. It is meant to help for a site analysis and not a municipal, watershed, or county-wide level analysis.

The screening tool is located on the main menu bar on the top right.

Screening Tool Location



	Land Resource Screening Report 🛛 😞 🗙	
	A0I ک	
: 4.56 Lot: 2.01	Draw Shapefile	
Lot: 2	Select draw mode	
Hock: 4.56 Lot: 6.04 Press down to start and let go to finish	Choose selectable layers     Select All     Parcel (Block and Lot)	
5 Block: 4.56 Lot: 6.03	Buffer distance (optional) Show results within	
t: 2	150 Feet 🔻	
Block: 4.56 Lot: 6.02	Report Start Over	

**Step 1** To activate the window, click on the button shown above. Options for an area of interest include drawing a point on the map, a line, a polygon, or selecting a GIS feature (the parcel layer). In this example, the select option was used by clicking on the select by feature button and clicking on the map to drag over the parcel of interest.

**Step 2** After the box is dragged over the parcel, the tool will select the parcel that intersects the box. If needed, click start over to reselect either by parcel, or to redraw a polygon, a line, or a point. Click on *Report* when you are ready to search the Area of Interest (AOI).



Screening Tool- Finalize the AOI & Click Report

#### Screening Tool – Selecting or Drawing an Area of Interest



**Step 3** Please be patient as the tool searches all the layers. There are over 40 layers to search and depending on the size of the area it can take a couple minutes. Wait for all pending searches to finish (it will change from the swirling circle shown on the bottom left to a result such as (1)). Additionally, the print button will change from light gray to dark gray when it is ready.



Note: Sometimes when the system is

working "too hard" a **wait or cancel** message will appear in the chrome browser. Click wait and give it a minute to let the tool run before restarting the application.

Land Resource Screening Report	*	×
Report		Ð
C Back Area	: 5.55	acres
Ċ ⊥	ē	ŝ
+ Historic Archeological Grid	(1)	ŝ
+ Historic District	(0)	ŝ
+ Historic Property	(0)	ţĊ}
+ CAFRA Coastal Planning Area (2010)	(1)	ŝ
+ CAFRA and Coastal Center (2010)	(0)	ţ
+ CAFRA Zone Boundary	$\langle \rangle$	ţŷ;
+ Highlands Preservation Area	(0)	٢Ç}
+ Meadowlands District Boundary	(0)	£Ç}
+ Open Space (State and Local)	(2)	£Ç}
+ Overburdened Community under the New	(0)	
+ Pinelands Management Area	(0)	ŝ
+ Sewer Service Area	$\langle \rangle$	ŵ
+ State Plan-Critical Environmental and Histor	(0)	
+ State Plan-Core	(0)	÷

Screening Tool- Pending

#### Screening Tool- Click Print

Land Resource Screening Report		*	×
Report			Ð
< Back	Area	a : 5.55	acres
Ċ	↓_	Ē	ţ
+ Historic Archeological Grid		(1)	Print ২২৫
+ Historic District		(0)	<u>نې</u>
+ Historic Property		(0)	<u>نې</u>
+ CAFRA Coastal Planning Area (2010)		(1)	<u>ن</u>
+ CAFRA and Coastal Center (2010)		(0)	<u>نې</u>
+ CAFRA Zone Boundary		(1)	<u>نې</u>
+ Highlands Preservation Area		(0)	<u>نې</u>
+ Meadowlands District Boundary		(0)	<u>نې</u>
+ Open Space (State and Local)		(2)	٩
+ Overburdened Community under the New	w	(0)	ŝ



**Step 4** Once the tool is complete explore the data by clicking on the + button next to the layer to see the results. If the layer has (0) this indicates there are no features within the AOI. Explore by clicking on the features that have (1) or more features that are within the AOI.

Click on the Print button when to receive a PDF summary report of the AOI. Select the layout of the PDF.

Screening Tool- Select layout and click print.

Screening	*	×
Report		Ð
K Back	Area : 39,007	.55 ft²
	Ċ ē	ŝ
Layout	Letter ANSI A Portrait 🔍 )	ŝ
Note : The report title a the report preview.	and comments can be edited in	ŝ
	Print	ŝ

## Customizing & Reading the Screening Tool Report



**Customizing the Report** A new window will appear with the results of the screening tool. The first portion of the report is customizable. The area shown in yellow (on the right) can be customized to write any notes or labels for an AOI such as name, location, file number etc.

Screening Tool Report



**Reading the Report** | The first section of the report provides a summary of all the layers that were scanned in the screening tool. The count indicates how many GIS features intersected the area of interest (AOI). If there are zero that means there are no features in the AOI; if there are more than zero, that indicates there are GIS features within the AOI. Do not focus on the exact number since the GIS layer may be split into multiple polygons. The area or the length columns indicate the total area of the polygons that intersect the AOI. This is not the total area within the AOI, but rather the total area of the polygon.

Summary		1	
Name	Count	Area(acres)	Length(ft)
Historic Archeological Grid	1	5.55	N/A
Historic District	0	0	N/A
Historic Property	0	0	N/A
CAFRA Coastal Planning Area (2010)	1	2.63	N/A
CAFRA and Coastal Center (2010)	0	0	N/A
CAFRA Zone Boundary	1	2.63	N/A
Highlands Preservation Area	0	0	N/A
Meadowlands District Boundary	0	0	N/A
Open Space (State and Local)	2	0.35	N/A
Overburdened Community under the New Jersey Environmental Justice Law	0	0	N/A
Pinelands Management Area	0	0	N/A
Sewer Service Area	1	2.47	N/A
State Plan-Critical Environmental and Historical Site	0	0	N/A
State Plan-Core	0	0	N/A
State Plan-Planning Area	1	2.63	N/A
State Plan-Endorsed Plan	1	1.21	N/A
State Plan-Node	0	0	N/A
Shellfish Classification	1	2.91	N/A
Tidelands Claim	1	3.42	N/A
EPA Priority Wetland	1	5.55	N/A
Land Use 2015	3	5.55	N/A
Landscape Region	1	5.55	N/A

Screening Too	l Report –	Summary	Section
---------------	------------	---------	---------



**Reading the Report** | The second section of the report provides the details of the attribute information from the GIS layers that did intersect the AOI. If there are multiple polygons with the same information, it may be repeated in the detail window.

CA	FRA Zone Bound	lary							
#	# Zone Area(acres)								
1	CAFRA zone				2.63				
Open Space (State and Local)									
#	Owner Type	Owner	l	Name	Use	•	Alt N	ame	Area(acres)
1	Municipal	Beachwood Borough	No Data	ə	No Data		No Data		0.04
2	Municipal	Beachwood Borough	No Dat	ə	No Data		Beachwoo Community	d / Center	0.31
Sev	wer Service Area								
#	Туре		Facility N	ame	Dat	te Adopte	ed		Area(acres)
1	SW	OCUA C	entral		No Data			2.47	
Sta	te Plan-Planning	Area							
#	Ту	ре		De	tail			Area	(acres)
1	SUBURBAN		SUBUR	RBAN			2.63		
Sta	te Plan-Endorsed	d Plan							
#	Туре	Name		Di	ate		End Date		Area(acres)
1	EN	Berkeley Towns	hip	7/5/2012		7/5/202	2	1.2	21
She	ellfish Classificati	on							
#	# Status Area(acres)								
1	Prohibited 2.91								
Tidelands Claim									
#	Map Number	Claim Ty	rpe	TRC Ado	ption Date	C	laim Status		Area(acres)
1	399-2130	Tidally Flowed		9/7/1982		CLAIME	D	3.4	2

Screenina	Tool	Report -	- Detail	Section

## Water Resource Screening Report

The *Water Resource Screening Report tool* is a tool that scans an area of interest (a point, polygon, or line) and generates a report that summarizes all GIS layers that were scanned and some details from the attribute table. This report is specific to water resources such as Flood Hazard Areas, streams, and watersheds, etc. Use the *Land Resource Screening Report Tool* to analyze an area of interest for wetlands, historic areas of interest, land use classification, etc. The tool should only be used for small areas such as a few parcels to optimize performance. It is meant to help for a site analysis and not a municipal, watershed, or county-wide level analysis.

The *screening tool* is located on the main menu bar on the top right.



 Screening Tool Location

 Image: Imag

**Step 1** To activate the window, click on the button shown above. Draw a point on the map, a line, a polygon, or select a GIS feature (the parcel layer). In this example, the select option was used by clicking on the select by feature button and clicking on the map to drag over the parcel of interest.





**Step 2** When the box is dragged over the parcel, the tool will select the parcel that intersects the box. If needed, click start over to change the selection either by parcel, drawing a polygon, a line, or a point. Click on *Report* to start the search the Area of Interest (AOI).







**Step 3** Please be patient as the tool searches all the layers. There are over 40 layers to search and depending on the size of the area it can take a couple minutes. Wait for all pending searches to finish (it will change from the swirling circle shown on the bottom left to a result such as (1)). Additionally, the print button will change from light gray to dark gray when it is ready.

Note: Sometimes when the system is working "too hard" a **wait or cancel** message will appear in the chrome browser. Click wait and give it a minute to let the tool run before restarting the application.

Screening Tool- Pending							
Water Resource Screening Report	*	×					
Report		Ð					
Kea Back Area	589,360.	82 ft²					
<u>ل</u> ک	Ē	ŝ					
+ Head of Tide	(0)	ŝ					
+ Stream Classification	(0)	£\$}					
+ Sub-watershed & Watershed	(1)	ු					
+ NJ State Flood Plan Locator	(1)	÷					
+ Effective FEMA Flood Hazard Zone	0	£Ç.?					
+ Effective FEMA Base Flood Elevation	$\langle \rangle$	ŝ					
+ Effective FEMA Cross Section	\$	<u>کې</u>					
+ Effective FEMA LIMWA - Limit of Moderate W	🗘	ŝ					
+ Preliminary FEMA Flood Hazard Zone	$\langle \rangle$	<u>کې</u>					
+ Preliminary FEMA Base Flood Elevation		£\$}					
+ Preliminary FEMA Cross Section	\$	<u></u>					
+ Preliminary FEMA LIMWA - Limit of Moderate	¢	ŝ					

Report			Ð
< Back	Area : 58	9,360.	82 ft²
	СĿ	ē	٢ <u>;</u>
+ Head of Tide		(0)	
+ Stream Classification		(0)	
+ Sub-watershed & Watershed		(1)	£03
+ NJ State Flood Plan Locator		(1)	{Ô
+ Effective FEMA Flood Hazard Zone	()	(0)	
+ Effective FEMA Base Flood Elevation	n ()	(0)	
+ Effective FEMA Cross Section	()	(0)	
+ Effective FEMA LIMWA - Limit of Mo	derate W	(0)	
+ Preliminary FEMA Flood Hazard Zor	ie	(6)	ŝ
+ Preliminary FEMA Base Flood Eleva	tion	(0)	
+ Preliminary FEMA Cross Section		(0)	

**\*\*Note:** If there is a red exclamation mark ! next to a layer, this means the screening report was not able to process this layer. This may happen with the Effective or Preliminary Flood Hazard Area Layers from FEMA. NJDEP does not host or maintain these layers. It is always best to turn the layer on under the flood hazard area grouped layer list or check the <u>FEMA Map Service Center</u> if this does not work within the report. You can try refreshing the screening tool (several times) or re-selecting the parcel and re-running the report to see if the result changes.

#### Screening Tool- Click Print



**Step 4** Once the tool is complete you can explore the data by clicking on the + button next to the layer to see the results. If the layer has (0) this indicates there are no features within the AOI. Explore by clicking on the features that have (1) or more features that are within the AOI.

Click on the *Print* button when you are ready to receive a PDF summary report of the AOI. Select the layout of the PDF.

Screening Tool- Select layout and click print.					
Screening	*	×			
Report		÷			
K Back	Area : 39,007	.55 ft²			
	Ċ ē	ŝ			
Layout	Letter ANSI A Portrait 💌 )	ŝ			
Note : The report title a the report preview.	and comments can be edited in	ŝ			
	Print	ŝ			

## Customizing & Reading the Screening Tool Report



**Customizing the Report** A new window will appear with the results of the screening tool. The first portion of the report is customizable. The area shown in yellow (on the right) can be customized to write any notes or labels for an AOI such as name, location, file number etc.



**Reading the Report |** The first section of the report provides a summary of all the layers that were scanned in the screening tool. The count indicates how many GIS features intersected the area of interest (AOI). If there are zero that means there are no features in the AOI; if there are more than zero, that indicates there are GIS features within the AOI. Do not focus on the exact number since the GIS layer may be split into multiple polygons. The area or the length columns indicate the total area of the polygons that intersect the AOI. This is not the total area within the AOI, but rather the total area of the polygon.

Screening	Tool	Report –	- Summary	Section
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Summary			
Name	Count	Area(ft²)	Length(ft)
Head of Tide	0	N/A	N/A
Stream Classification	0	N/A	0
Sub-watershed & Watershed	1	589,360.82	N/A
NJ State Flood Plan Locator	1	589,360.82	N/A
Effective FEMA Flood Hazard Zone	3	589,359.41	N/A
Effective FEMA Base Flood Elevation	0	N/A	0
Effective FEMA Cross Section	0	N/A	0
Effective FEMA LIMWA - Limit of Moderate Wave Action	0	N/A	0
Preliminary FEMA Flood Hazard Zone	6	1,178,721.44	N/A
Preliminary FEMA Base Flood Elevation	0	N/A	0
Preliminary FEMA Cross Section	0	N/A	0
Preliminary FEMA LIMWA - Limit of Moderate Wave Action	0	N/A	0



**Reading the Report** | The second section of the report provides the details of the attribute information from the GIS layers that did intersect the AOI. If there are multiple polygons with the same information, it may be repeated in the detail window. Related records such as T&E species will not show up in this report, however you will be able to see what rank species it is.

Sub	-watershed &	Watershed										
#	Sub-watershed Name	Watershed Name	Wa Mai A	atershed nagement Area No.	Wate Manaç Area	rshed jement Name	l	Watersh Region M	ed Io.	Watershe Region Na	ed me	Area(ft²)
1	Toms R Lwr (below Rt 166)	Toms River (below Oak Ridge Parkway)	13		Barnega	t Bay	Atl	antic Coa	st	3		589,360.82
1J :	State Flood Pl	an Locator										
#	Map No.	Stream		Munio	cipality	C	oun	ty	Sh	eet Number		Area(ft <sup>2</sup> )
1	V000088	Jakes Branch, Rv	Tom's	S Tom's F	lv.	Ocean			Shee	t 10	5	89,360.82
Effe	ective FEMA FI	ood Hazard Z	one									
#	DFIRM ID	Flood Zone	Z Si	Zone of uitability	Stati	c BFE	Ve	ertical Da	itum	Depth		Area(ft²)
1	34029C	x	0.2 P ANNU CHAI FLOO HAZA	CT UAL NCE DD ARD	-9,999.0	0	No	Data		-9,999.00		11,976.26
2	34029C	AE	No D	ata	5.00		NA	VD88		-9,999.00		577,383.16
Pre #	liminary FEMA DFIRM ID	Flood Hazard	Zon	ie ne	Zone of S	Suitability	,	5	Static I	3FE	V	/ertical Datum
1	34029C	AE		1	Vo Data			8.00		1	IAVD	88
2	34029C	AE		1	Vo Data			9.00		١	IAVD	88
3	34029C	VE		1	Vo Data			10.00		١	IAVD	88
#		Depth	_		U	nit	_			A	rea(f	t²)
1	-9,999.00			Feet					224,9	37.18		
2	-9,999.00			Feet					260,4	27.47		
3	-9,999.00			Feet					693,3	56.78		

Screening	Tool	Report –	Detail	Section
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## Swipe Tool

The Swipe tool enables the user to compare layers to one another. The tool is located at the main menu bar on the top of the application.

Swipe Tool Location



To activate the *Swipe tool*, click on the button shown above and <u>turn on</u> the layers that you would like to compare. In this example, we are comparing the 2020 aerials to the 1970 aerials. To compare aerial imagery, select the imagery from the *imagery group layers* (located under the address search bar) and select the two aerials that need comparison.

## **Step 1** | Turn on the layers for comparison.

Find ad	Idress or place	A. Anter	
		Balanti	
	Imagery	×	
	▶ 🗹 New Jersey Wetlands 1970	24	
	▶ New Jersey Tidelands 1977		
3	▶ New Jersey Infrared 1995	··· III Carlos Marines	
1.	▶ New Jersey Infrared 2002		
	▶ New Jersey Infrared 2007		
	▶ New Jersey Natural 2007		
12	▶ New Jersey Natural 2010		
	▶ New Jersey Infrared 2012		
	▶ New Jersey Natural 2012		9
-	▶ 🔄 New Jersey Natural 2013		1
5	▶ 2013 Imagery (Natural Color)		Ş
	▶ New Jersey Infrared 2015		1
-	▶ New Jersey Natural 2015		
1	▶ New Jersey Infrared 2020		
and y	▶ 🗹 New Jersey Natural 2020		
10			

Imagery Selection



**Step 2** | Open Swipe Tool & select the Swipe layer(s) for comparison that should be overlaid on the underlying base layer on the right-hand side of the swipe bar. In this example, by selecting the *1974 aerial imagery* in the *Swipe Tool window*, the County layer and 2015 imagery will remain to the right-hand side of the swipe bar while any layers turned on in the *Swipe Tool Window* will remain to the left-hand side of the swipe bar.



Swipe Window

**Step 3** | Use the slider located in the middle of the application to compare the imagery. Drag the slider to the left or right.



**Step 4** | To change layers turn on/off other layers and repeat step 2.

To stop using the *Swipe Tool*, click again on the Swipe button on the main menu on the top to close it and return to the map.



## Draw

To temporarily mark up the map and draw a point, polygon, shape of text, use the draw tool found on the main menu on the top right.



To activate the Draw Tool, click on the draw button shown above and the window will appear. Select the shape desired, customize the color and transparency. Click on the map to start drawing. Double click to finish. Press CTRL to enable snapping to boundaries on the map. There are options to undo, redo, or clear on the bottom of the draw window. *Note: The color and line width must be changed before drawing on the map and cannot be revised once placed on the map.* 

Click to start	Draw
drawing (Press CTRL to enable snapping)	Select draw mode
	Color. Transparency:
	Outline color: Outline width:
	Show area measurement
	Show perimeter measurement
	Undo Redo Clear

#### Draw Window

## Measure

The measuring tool can be used to find the distance, area, or coordinate points of a feature on the map. It is located on the main toolbar at the top of the application.

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Measure Area

**Step 1** | To measure the area of a feature on the map click on the area button and select the units on the right-hand side.



**Step 2** | Select the area button and click on the map to begin measuring. Continue drawing the polygon and double click on the at the last point. The results will display in the window. To start a new polygon, click on the *clear* button and the *area* button and start again.





## Measure Distance

**Step 1** | To measure the distance of a feature on the map click on the *distance* button and select the units on the right-hand side.





Measurement Tool – Distance

**Step 2** | Select the *distance* button and click on the map to begin measuring. Continue drawing the line and double click on the at the last point. The results will display in the window. To start a new line, click on the *clear* button and the *distance* button and start again.



## Get Location (XY Coordinates)

To obtain the XY coordinate on the map, can use the *measurement tool* or the *coordinate tool*.

Measurement Tool – Location (XY Coordinates)





**Option 1** | Select the *location* button and click on the map to obtain the XY Coordinates. The results will display in the window. The green marker displays the XY coordinates on the map and the cursor changes as the mouse moves on the map. Select **clear** to start over and place a different point. The *measurement tool* will give location coordinates in WGS 1984 (Decimal Degrees), there is an option to change the coordinate system to NJ State Plane by clicking on the tool on the bottom left of the application.





**Option 2** | Click on the icon on the bottom left of the application and select the coordinate system desired.





## Add Data Tool

The *Add Data Tool* is a tool that can be used to add other GIS layers to your map. This data can be from NJDEP, ArcGIS Online, other GIS data from another web map service, or local data of your own (i.e. a shapefile). Note that there are some limitations of bringing in a local GIS dataset: It cannot be more than 1,000 features or items inside a shapefile. Additionally, if adding a shapefile, it must be zipped.



Any extra data layers added in the application will be temporary and will not stay in the application when the application is closed and reopened.

The Add Data Tool is located on the main menu bar on the top right.

Add Data Tool Location



**Option 1** Step 1 Add DEP Data To activate the window, click on the button shown above and select add DEP data. This will enable the search window to appear for any data within the NJDEP Enterprise.

Search by typing in the name or keywork in the search bar on the top right. Sort the results by type or relevance.

Click the 'ADD' button to bring it into the map or the 'DETAILS' button to view the metadata.

A	dd NJDEP Data	1	
NJDEP Data			× ×
NJDEP Data	Search		٩
Within map	Туре 🔻	Releva	nce 🔻
NJDEP	2017 Imagery Map Service by NJDEPBGIS	ADD	DETAILS
NJDEP	South Jersey DEM Image Service by NJDEPBGIS	ADD	DETAILS
\$	Statewide Hillshade Image Service by NJDEPBGIS	ADD	DETAILS
NJDEP	2010 Imagery (Cache) Map Service by NJDEPBGIS	ADD	DETAILS
\$	Statewide DEM Image Service by NJDEPBGIS	ADD	DETAILS
Q	Tidelands Claim Map Service by NJDEPBGIS	ADD	DETAILS
Total	Sea Level Rise above Mea Map Service by NJDEPBGIS	In Highe	er High
NJDEP	TIdelands Claim	ADD	DETAILS



#### Remove NJDEP Data



**Option 1 | Step 2** Once added, the layer will be placed in the map. Click on the 'REMOVE' button in the NJDEP Data Window next to the layer if the layer is no longer needed in the map (see figure on the left).

To turn the layer off (but not remove it) the layer will be at the bottom of any grouped layer such as base layers (see figure on the right). Layer Location



Add All Data

**Option 2** Add all Data To activate the window, click on the button shown above and select add all data. Search for data within the NJDEP Enterprise, ArcGIS Online, or add a local dataset.

- Searching by NJDEP enterprise or ArcGIS Online can be achieved by the same steps as option 1.
- Insert a link to a GIS rest service, by copying and pasting it into the *URL* tab in the window options.

In this example we will focus on the third option: Add a local dataset.

To add a local dataset, the GIS file must be a zipped shapefile (with under 1,000 features), a CSV, or KML file.







## Option 2|Step 1

Let's practice. **Save a shapefile to any location and zip the file**. A Shapefile consists of multiple files as shown on the left. Select all the files and click download.

Note: A KML file (from google Maps) or a CSV file does not have to be zipped. A CSV file has to have a column with an address or latitude and longitude.

Add Data Tool Shapefile

Add All Data		* ×
Search	URL	File
🗸 Generalize featu	res for web display	
		Ø
SH	AAPE CSV KML	
	DROP OR BROWSE	
	BROWSE	

## Option 2|Step 2

Open the *Add All Data* window and click on file. Click browse and choose the **zipped** shapefile saved to a local PC or drag the file into the window.

Option 2 | Step 3

Once the data is added (if there were no issues with the shapefile, KML, or CSV) the shapefile will automatically show up on the map. Find it in any of the group layers such as *base layers* to turn it on/off and click on the three dots to the right of the layer to change transparency or the order of the layer.



Add Data Tool Results



Turn the layer on/off in the grouped layer list by checking/unchecking the box next to the layer. Once the application is closed the data will not remain in the application the next time it is opened.

## Custom Filter Tool

The Filter tool allows users to limit visibility of features in a layer. Only features that meet the set criteria will be visible in the map.

Print Tool Location



**Step 1** | Open the *custom filter tool* and select the filter button on the bottom right of the tool window.



**Step 2** | Select the layer of interest from the drop-down menu. In this example, we will use the *Surface Water Quality Classification Layer*.

# LAND RESOURCE PROTECTION WEB APPLICATION USER GUIDE



	Layer Selectic	n	
	Custom Layer	Filter	<ul><li>&gt;</li></ul>
	<	Custom filter	
	Layer	Surface Water Quality Clas	•
<ul> <li>Surface Water Quality Classification</li> </ul>	on		
Stream Flow Direction (2002 NHD)	))		
🐏 Head of Tide			
🔀 National Hydrography Dataset (W	/aterbody 2015 NHD	)	
Sub-watershed (HUC14)			
Watershed (HUC11)			
🐼 🛛 Watershed Management Area			
🖶 Bedrock Surface Topography			
CAFRA Coastal Planning Area (20	10)		
CAFRA and Coastal Center (2010	)		
🖙 CAFRA Coastal Area Facilities Rev	view Act Boundary (L	ine)	

Building an Expression



**Step 3** | Select *Add expression* or *Add Set* (to select multiple parameters).

+ Add expression	+ Add set

**Step 4** | Select *Add expression* or *Add Set* (if you need to select multiple parameters). Select the field of interest and use the *unique value* option (located in the gear icon) to select from a drop-down list or type in the desired information.

Custom Layer	r Filter 🗧	≈ ×
<	Custom filter	
Layer	Surface Water Quality Clas	. ▼
Display features in expression	the layer that match the following	
CATEGORY (S	String)	× •
is		•
- empty -		- ¢
Search		
- empty -		
FW1		
FW1-TM		
FW1-TP		L
FW2-NT		
FW2-NT/SE1		

**Step 5** | The map will now only show what was filtered by the expression.

Custom filter          Surface Water Quality Clas         atures in the layer that match the following n         SORY (String)	Custom filter
Surface Water Quality Clas  atures in the layer that match the following GORY (String)	Surface Water Quality Clas
SORY (String)	ing) 
sensitive	

Filtered Layer

Step 6 | To see the results of the filter, open the attribute table on the bottom of the application and



select the layer of interest. A list of filtered data will appear. To zoom into a feature, double click on the item in the list.

								State of New Je	ersey, Esri, I	HERE, Garmin, (	GeoTe
County Surface Water Quality Classification	LOMRs	LOMAs	Cross-Sections	Base Flood Elevations	Gene	eral Structures	Limit of Mo	derate Wave Action	Flood Haz	ard Boundaries	Floo
Doptions 💌 Filter by map extent 💿 Zoom to	ilter by map extent 🛇 Zoom to 🔀 Clear selection 🕜 Refresh										
SITUATION		CATEGORY	Y			NAMECK				REFER	
2		FW1-TM				Flat Brook UN	г			376	
2		FW1-TM				Hemlock Lake					
1		FW1-TM				Bear Creek				80	
2		FW1-TM				Bear Creek				80	
2		FW1-TM				Bear Creek				80	
1		FW1-TM				Flat Brook UN	Г			376	
1		FW1-TM				Flat Brook UN	Г			376	

Filtered Layer in the Attribute Viewer

## Print Tool

The *print tool* will generate a PDF of the current extent and visibility of layers that are currently turned on.

Find the location of the *print tool* on the top of the application in main tool bar.

Print Tool Location



**Step 1** | Open the *print tool*. Change the title of the map name in the map title area. Change the layout of PDF by selecting the layout options.

# LAND RESOURCE PROTECTION WEB APPLICATION USER GUIDE



Ś ଭ  $\odot$  $\Theta$ 57  $\leq$ Print ≈ Land Resource Protection Web Map Map title: Letter ANSI A Landscape Layout: -Format: PDF -Advanced 🖶 Print Ö

Print Tool Window



**Step 2** | Either customize setting in the PDF by clicked *Advanced* or click print when ready.

Some options include:

- Changing the map scale or extent
- Showing labels on the map
- Scale Bar
- Map size (this will only change in the Map\_ONIY layout)

   DPI (resolution)
- Attributes \*\*this function does not currently work in the tool.

	Drint		~ ~
/	Frint		~ ~
1			
VV	Map title:	Land Resource Protec	tion Web Map
~	2 Layout:	Letter ANSI A Landscape	•
5	Format:	PDF	-
	57	Advanced	🛋 Print
	2.4	Auvanceu	
d de			
à.		map scale	
	reserve:	map extent	
and the	Force scale: 🔵		
		current	
	Output spatial re	ference <u>WKID</u> :	
	102100		
	WGS_1984_Web	_Mercator_Auxiliary_Sphere	
	Show labels:	1	
	Layout metadata		
	Author: N	ew Jersev Department	
	Copyright:		
	Include legend:	<b>~</b>	
	Scale bar unit:	Miles 👻	
	MAP_ONLY size:		
	Width (px):	670	
	Height (px):	500	
	Print quality:		
	DPI:	96	
	F		
	Include attribute	s:	
ļ			

Advanced Printer Options

	Print	* ×
d	Map title:	Land Resource Protection Web Map
2	Layout:	Letter ANSI A Landscape 🔍
10 10	Format:	PDF 💌
K.		🏟 Advanced 🛛 🚔 Print
	1. 칠 La	nd Resource Protection Web Map prints

**Step 3** | Click Print when ready. The PDF will show up when ready for download. Click on the icon and save the PDF or Print it.

Click *Clear prints* if the PDFs that were created are no longer needed or saved to another location.

#### Printer Options



# Tips, Tricks, & Quick Links

## Saving a Site Location

While you cannot maintain a personal GIS layer, you can create a link to a site, create a marker label, and save layer visibility. You can save the link in an excel or word document where you keep track of files. See the <u>Share Tool</u> for step-by-step instructions.

## Links to FEMA in Pop-Ups

There is a link to the FEMA Map Service Center located the pop-up in the parcel layer. Click on icon under the parcel information and the link will open the FEMA Map Service Center website to the location of the parcel.

Owner Name	Not Available			
Property Location	1125 BEAR TAVERN RD			
Municipality	HOPEWELL TWP			
County	MERCER			
Property Class	3B (Farm - Qualified )			
Owner Street Address	1125 BEAR TAVERN RD			
Owner City State	TITUSVILLE NJ			
Owner Zip	08560			
Acres	149.42			
FEMA				
Zoom to	***			

## **Customized Pop-Ups**

There are many customized pop-ups in this application, however, here are a few that provide additional information:



## Landscape Project 3.3 (T&E)

This pop-up contains the rank and species listed in the landscape project layer.



## Deed Notice Areas

This layer has a pop-up with information associated with deed notices included the contaminants that can be found onsite.

Deed Notice Areas: Newport Development - DN Boundary	
Name: Newport Development Deed Notice Name: Newport Development - DN Boundary Deed Notice Description: NJLMS Preferred ID: 623875 Subject Item ID: 167875 Activity Number: RAP200001 Case Tracking Number: 0	
Newport Development - DN Boundary Information	
Address	110 River Rd
Block/Lot	See Report
Municipality	Jersey City
County	Hudson
Program	RAP
Filed Date	3/8/2001, 7:00 PM
Contaminant Depth (ft)	
Engineering Control	
Cap Thickness (ft)	
Historic Fill	
Acres	175.50
Contaminants	Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Dibenzo[a,h]anthracene Ideno[1,2,3-cd]pyrene Metals: Arsenic, Beryllium, Cadmium, Lead, Zinc



Surface Water Quality Classification (SWQC) & Fisheries Restrictions

This layer shows the associated information to the SWQC layer but also provides tables and links to fishery timing restrictions.

Surface Water Quality Classification					
Feature Name: North Branch Forked River Classification: FW2-NT/SE1					
Link: Trout Production Waters (Appendix A Guidance Table)					
Fishery Timing Restrictions (Table from FHA Regulations)					
Table 5.71           RESTRICTED TIME PERIODS FOR WATERS WITH FISHERY RESOURCES					
Water and classification	Time period (inclusive) during which activities are prohibited				
1 Trout Waters					
All trout production waters except rainbow trout	September 15 through March 15				
Rainbow trout production waters	February 1 through April 30				
<ul> <li>Trout stocked waters</li> <li>Trout maintenance waters</li> <li>All regulated waters located within 1 mile upstream of a trout stocked or a trout maintenance water</li> </ul>	March 15 through June 15				
2. Non-Trout Waters					
<ul> <li>Regulated waters that support general game fish located north of Interstate 195</li> </ul>	May 1 through July 31				
Regulated waters that support general game fish located south of Interstate 195	May 1 through June 30				
<ul> <li>Regulated waters that support pickerel</li> </ul>	Ice out through April 30				
<ul> <li>Regulated waters that support walleye</li> </ul>	March 1 through May 30				
3. Anadromous Waters					
<ul> <li>All unimpeded tidal regulated waters open to the Atlantic Ocean or any coastal bay</li> <li>All regulated waters identified as anadromous migratory pathways</li> </ul>	April 1 through June 30				
Delaware River upstream of U.S. Route 1	April 1 through June 30 and September 1 through November 30				
Delaware River between U.S. Route 1 and Interaction 205 (Delaware Margarial Bridge)	Manah 1 through June 20 and				