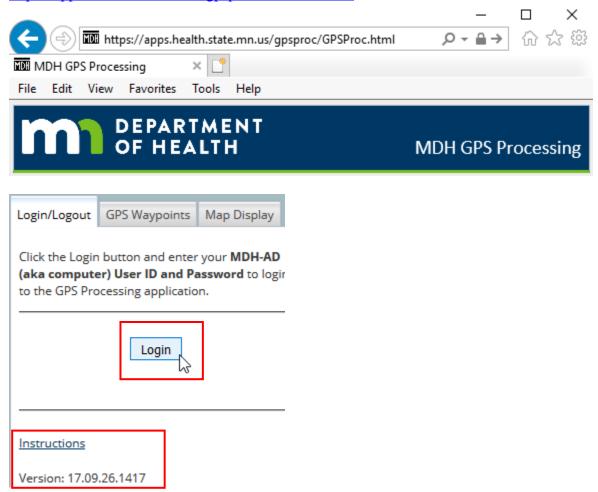
Instructions for using the MDH GPS Processing web browser data editing application Last updated October 3, 2017.

LOGGING IN

To begin, open your web browser and go to the following web site: https://apps.health.state.mn.us/gpsproc/GPSProc.html.



Click the Login button to open the login page.

NOTE: the <u>Instructions</u> link opens up this PDF document, and the current version of this application is also shown.

LOGGING IN (continued)

On the MDH GIS Realm page, enter your MDH-AD (aka computer) Username and Password and click the Log in button to login to the GPS Processing application.

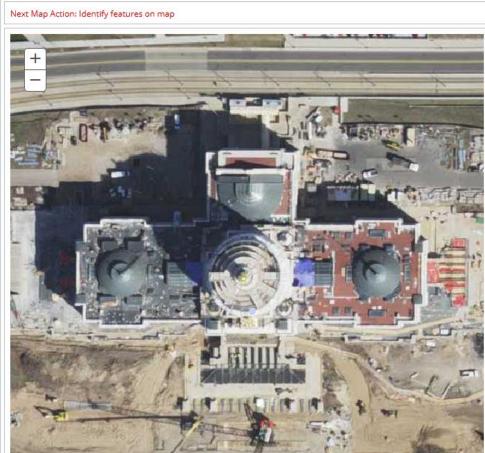


NOTE: There is no session time limit for this application, but if you navigate away from this web page and try to return to it using the back arrow you will have to log in again.

SELECTING A GPS FILE TO WORK WITH

Once you've logged in, the application focuses on the **GPS Waypoint** tab (the application is initially zoomed in on the State Capitol building). Click on the **Select a GPS File** combo box to display a list of downloaded GPS files that have GPS waypoints that still need to be processed. By default, this list only includes GPS files downloaded within the last year. If you want to search for older files, click the **Show files more than 1 year old** check box and then click the **Select a GPS File** combo box again. When you select a GPS filename the program will immediately select and zoom to the first waypoint of that file (see next page).



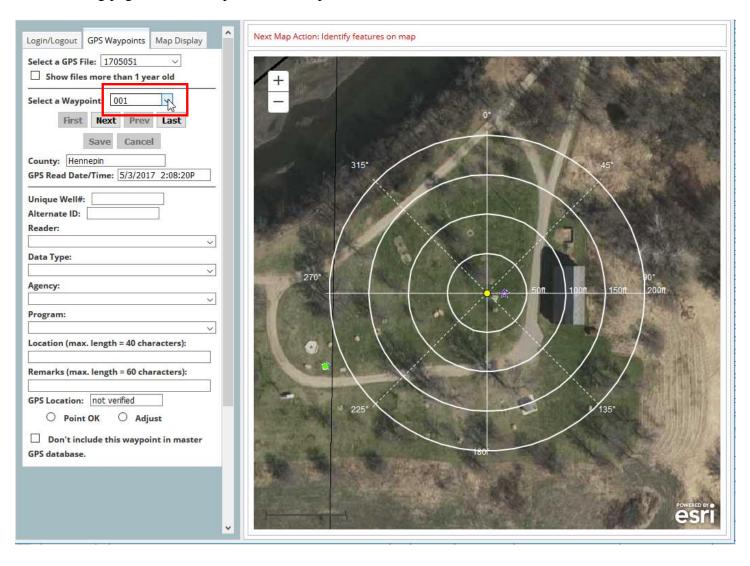


INITIAL DISPLAY

The currently selected waypoint will display in the center of the image as a yellow circle, and its name is displayed to the left of the image.

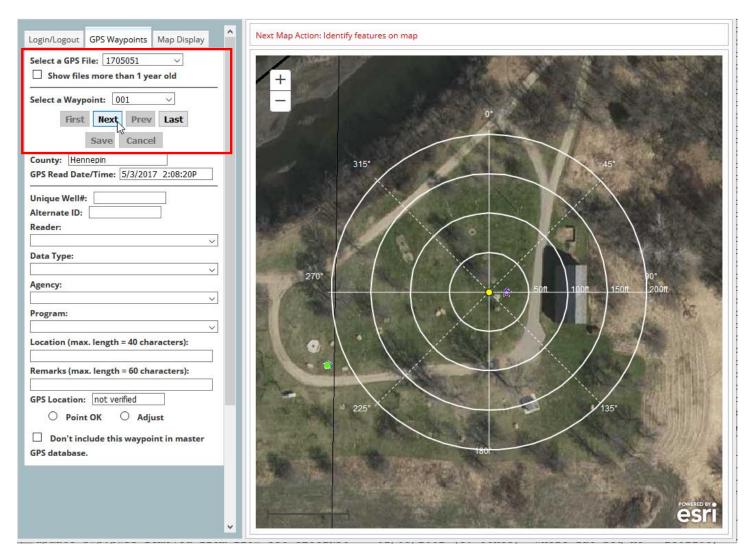
At this point you can modify which layers and graphics to show on the map, change the map scale, type and select data for this waypoint, verify or adjust the current waypoint location on the map, save or cancel any changes you've made to this waypoint, navigate to a different waypoint of GPS file, or log out of the application.

The following pages show examples of how to perform these functions.



GPS FILE AND WAYPOINT NAVIGATION

You can step through the waypoints of the current GPS file by using the **First**, **Next**, **Prev** (previous), and **Last** buttons. You can also move to a specific waypoint by clicking the **Select a Waypoint** combo box and clicking on the waypoint you want to work with. You can even work with a different GPS file by clicking the **Select a GPS File** combo box and selecting a different GPS file.



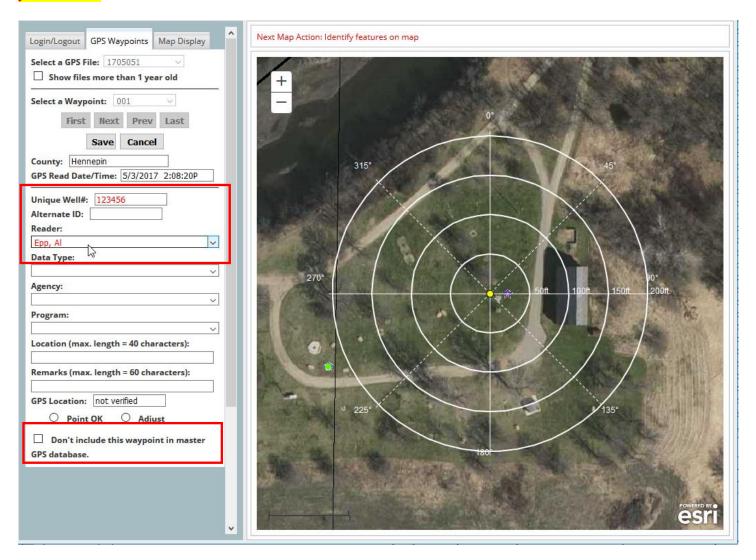
EDITING

You can edit various fields by typing in data (text boxes) and by selecting values from the combo boxes. Any changes you make will be shown in red text. If you do make changes, both the **Save** and **Cancel** buttons will be enabled, and you will not be able to navigate away from this waypoint until you either save or cancel the changes you've made.

Use the **Alternate ID** text box for anything other than a unique well number. For example, if your waypoint was for a Public Water Supply well you could enter in the PWSID and Sample Point ID (e.g. 5040010S01) in the **Alternate ID** text box and the unique well number in the **Unique Well**# text box.

If the current GPS waypoint is a test point, personal point (e.g. fishing location), or is otherwise not needed, you can just click the check box labeled **Don't include this waypoint in the master GPS database** and then save the record without entering in any other information.

By default, the map uses MNGeo regional imagery. The current waypoint you are working with will appear as a yellow circle in the middle of the view.

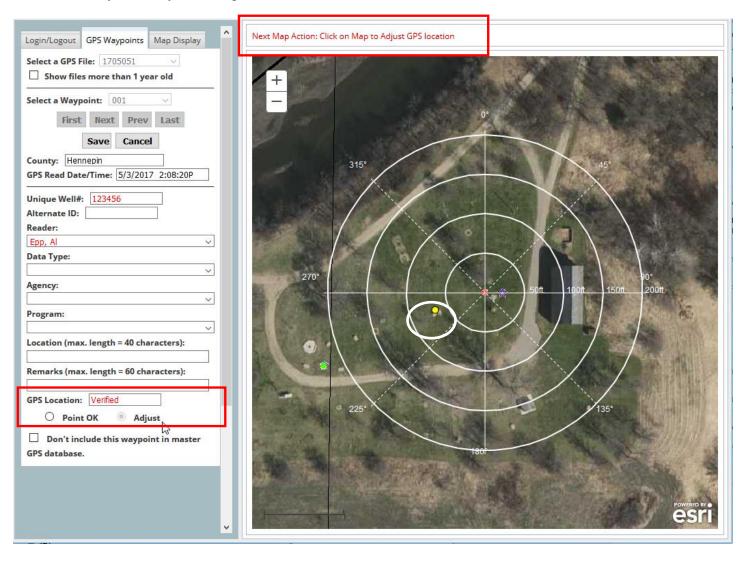


EDITING (con't.)

WELL LOCATION VERIFICATION

If the current point appears to be at the right location, click the **Point OK** radio button. If you need to adjust the point location, click the **Adjust** radio button. In both cases note that the **Save** and **Cancel** buttons become enabled and the **GPS Location** text line changes to Verified, *and* when you click the **Adjust** button the text above the map changes to Next Map Action: Click on Map to Adjust GPS location.

To adjust the location of the current waypoint simply click on the map where the waypoint should be and the yellow circle will appear at the new location, moving away from the center of the bull's-eye. You can click the map as many times as you need to in order to get the waypoint in the correct location. The pale red circle at the original location will remain until you save your changes. Also, the map will re-center itself on the new location when you save your changes.



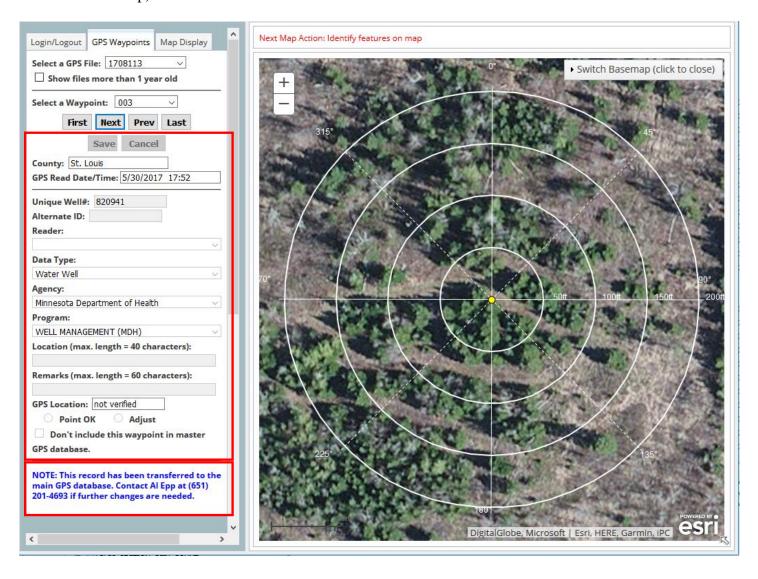
EDITING (con't.)

SAVING AND CANCELLING

Any attribute or location changes you make to this waypoint will require you to either **Save** or **Cancel** your changes before proceeding to another record or quitting the editing session. If you click **Save** and you have entered in all the necessary attribute information and verified the point location, a message box will appear stating that the record appears to be complete and will be transferred to the main GPS database. If there are missing required data, a message box will appear listing the data that are still needed.

If you click **Cancel** all your attribute changes will be discarded and the waypoint location will return to its original location.

If a waypoint record has already been transferred to the main GPS database you will not be able to make further edits through this application (descriptive blue text appears at the bottom of the waypoint tab, the **Save** and **Cancel** buttons and all text boxes and combo boxes are disabled, and there is no way to adjust the waypoint location on the map).

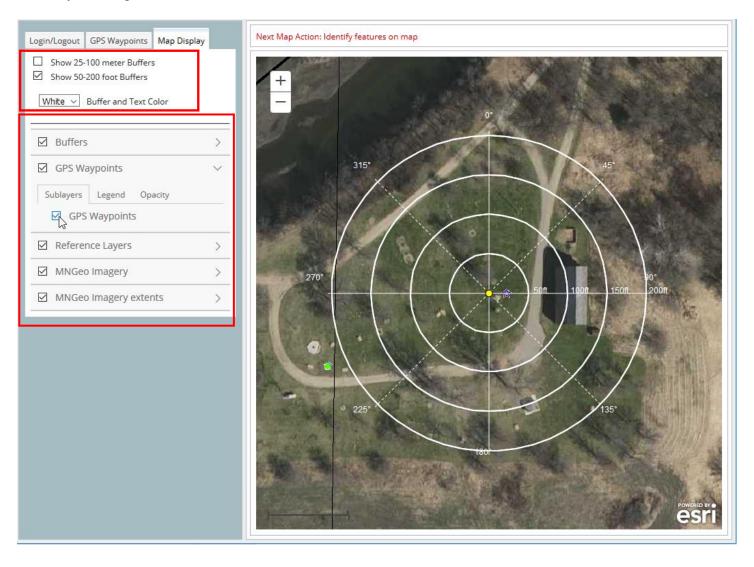


WORKING WITH THE MAP

To change the map display click the **Map Display** tab.

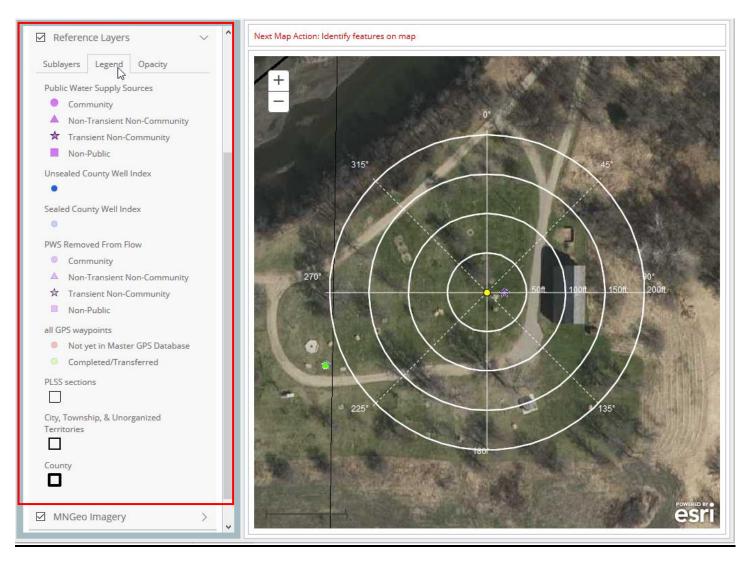
<u>Map Scales, Buffers, Bearing Lines, and Text</u> - This application allows you to zoom in and out using your mouse wheel, or by clicking the + and – buttons in the upper left corner of the map. You can also display buffer circles (in meters or feet) and bearing lines by using the **Show 25-100 meter Buffers** and **Show 50-200 foot Buffers** check boxes. You can also change the color of these graphics and associated text in order to make them easier to see, depending on the imagery displayed.

<u>Map Layers</u> - The map layers are listed in the map layer list. You can expand the layer groups, check Sublayers on and off, view the layer symbology in the Legend (see next page), and change the Opacity of each layer. Checking a layer on or off will redraw the map accordingly. In this application the **MnGeo Imagery** layer is on by default, and the application will display imagery based on the location of the facility you're currently working with.



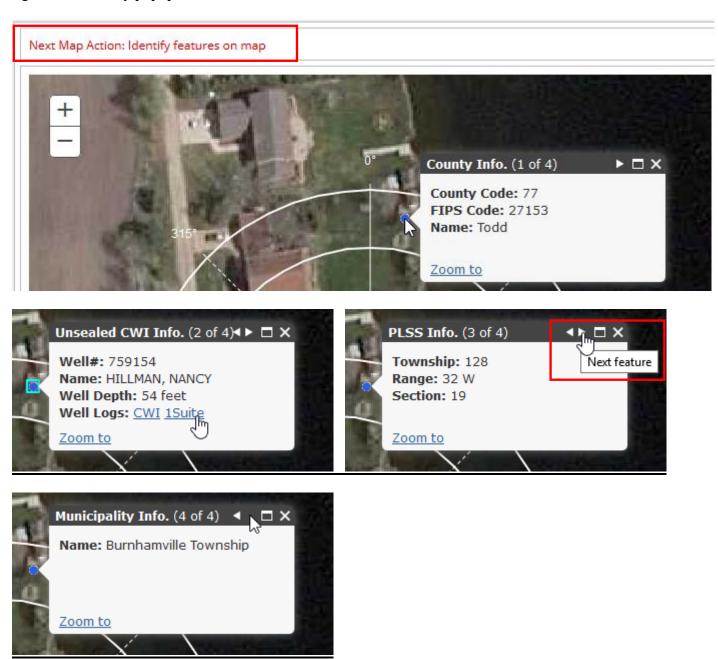
WORKING WITH THE MAP (continued)

Map Layers (continued) – This page is just showing how to view the layer symbology.



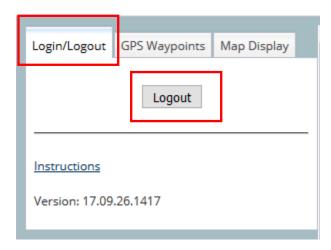
WORKING WITH THE MAP (con't.)

Unless you have clicked either the **Point OK** or **Adjust** buttons, clicking on the map will open up a series of popup boxes identifying the feature(s) at that location. If there is more than one feature you can display information about each one by clicking the left and right arrows on the popup boxes. Click the **X** in the upper right corner of any popup box to close the box.



LOGGING OUT

When you are done working, click on the **Login/Logout** tab and click the **Logout** button to log out of your current session of this application.



That's about it. Hopefully you will be able to successfully use this application and find it valuable, worthwhile, and not too confusing. Please contact Alan Epp at (651) 201-4693 or alan.epp@state.mn.us if you have any questions or problems with this application.