

Geodetic Monument Viewer Help Documentation

Working with the Geodetic Monument Viewer

- Geodetics Folder and Monuments sub folder

The Geodetics folder in the Table of Contents contains the CORS Stations Layer and the Monuments sub folder. The Monuments sub folder contains 8 layers, 6 of which are active and set to turn on automatically at the scale of 1:180,000 or closer. They are **HARN**, **3D**, **Horizontal**, **Vertical**, **Other** and **Un-positioned**. The remaining 2 monument layers are inactive by default until checked on (made visible) and have the same scale dependency as the other monuments. They are **Not Found Monuments** and **Destroyed Monuments**. For detailed descriptions about all of these monuments please see the associated Metadata link in the drop-down by left clicking the layer name and choose the name with the document icon (see Figure 1 below).

Geodetics folder and Monuments subfolder

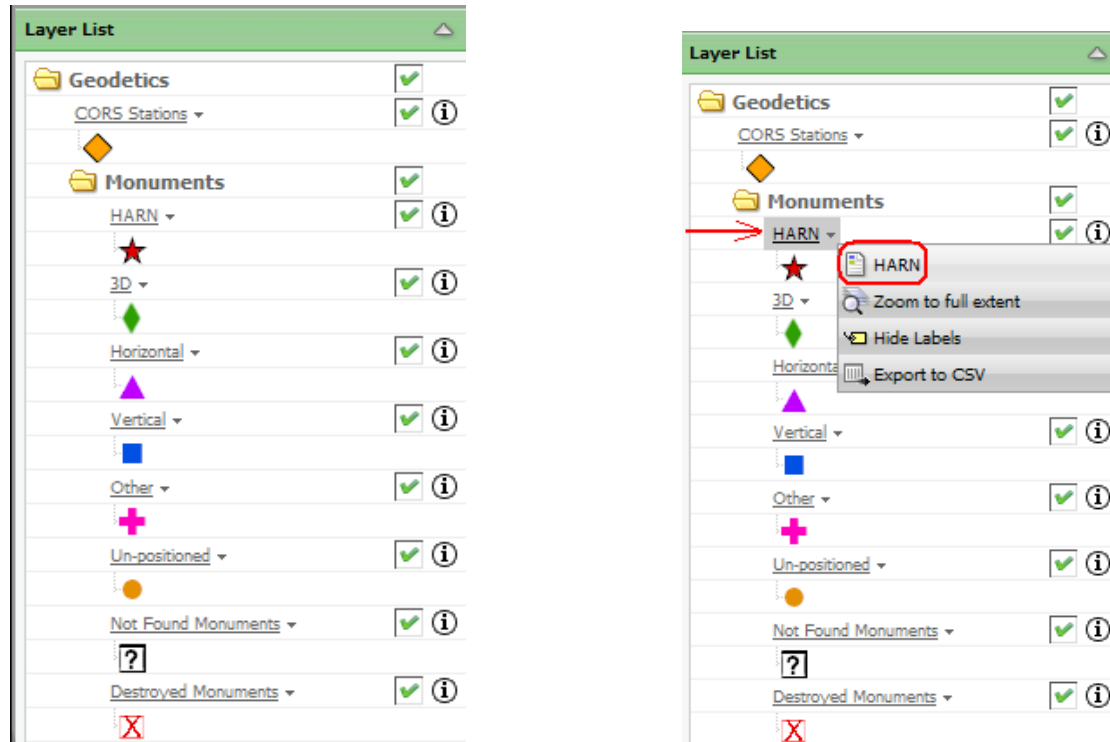


Figure 1.

- Browsing by location.

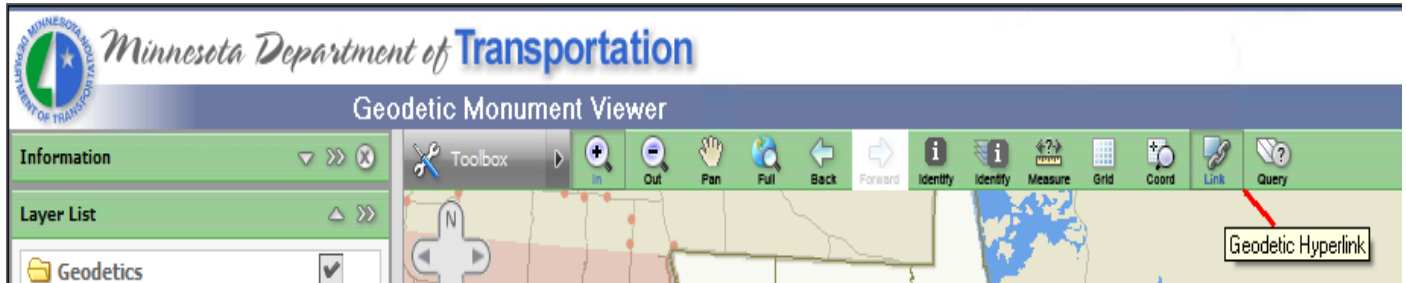
This can be accomplished using various combinations of tools and methods which are described in more detail in the Online Help and Tutorial System. [Here](#)

- Use the Identify Tool

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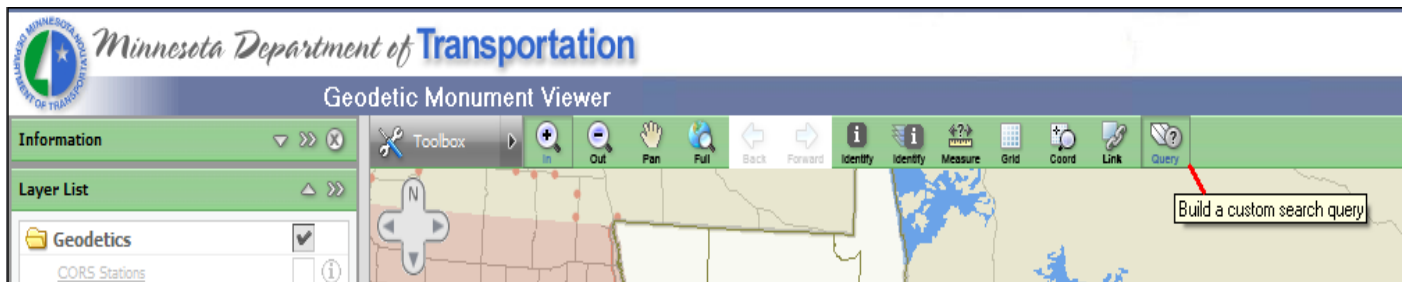
- Use the Geodetic Hyperlink Tool

The Geodetic Hyperlink Tool can be used on any visible Geodetic feature and will link to the PDF-format Map Sheet associated with that feature. This tool only has to be active (by clicking on it in the Navigation Toolbar, see graphic below) and the geodetic layers visible to work. If monuments are stacked or very close to each other, the tool will provide a pop-up list for the user to choose which monuments map sheet they want to investigate. If available, map sheets contain links to photos of the monuments and their locations. These links can be found at the bottom of the PDF.

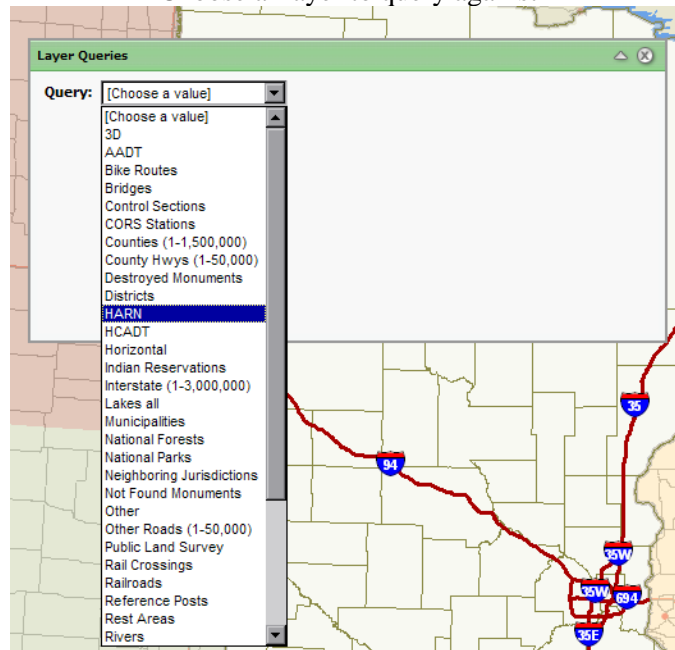


- Use the Custom Search Query Tool

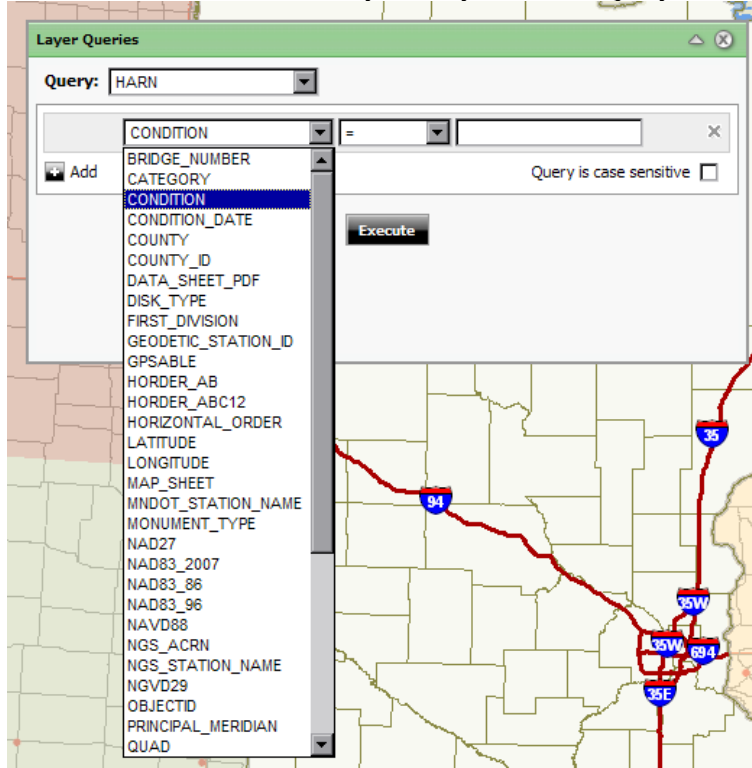
The Custom Search Query Tool (Query Tool) lets the user build a custom search query on any map layer. Clicking the tool opens up an interactive form to build the custom query (see below).



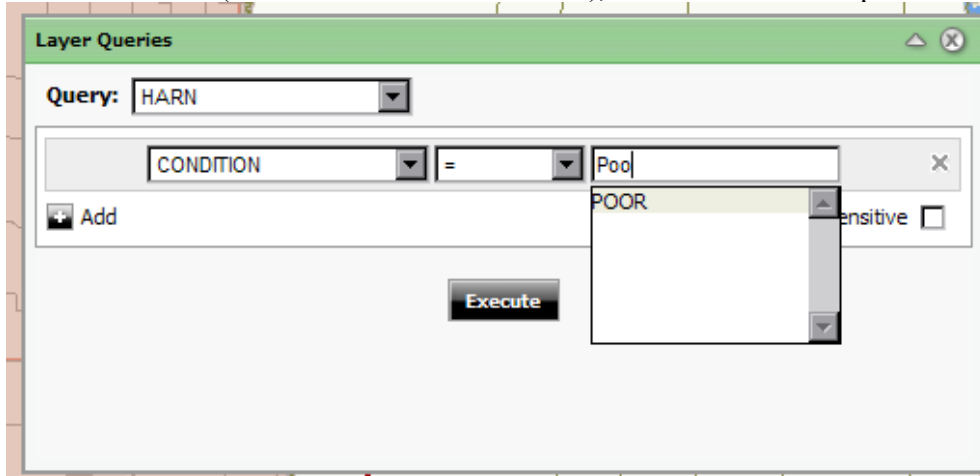
Choose a Layer to query against



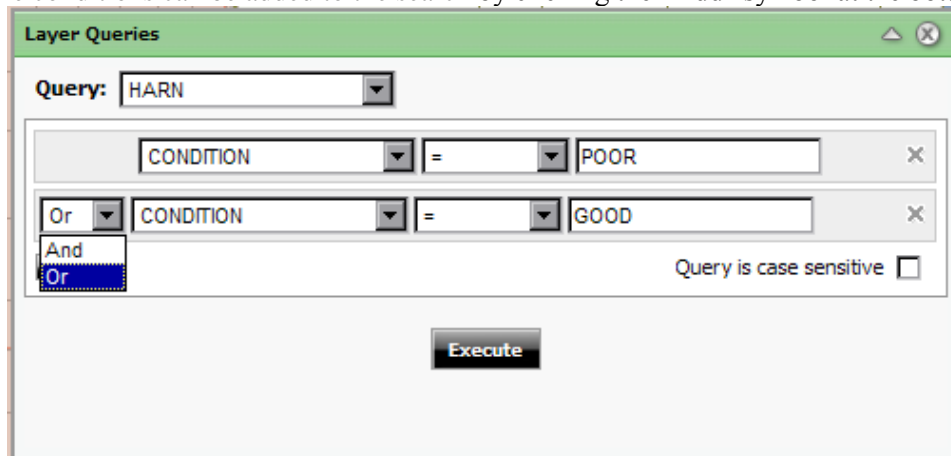
Choose a field in that layer that you want to query.



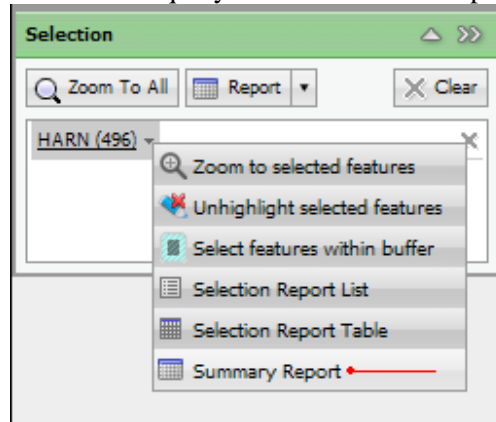
Type in value that you want to query for. Auto-Complete will start after 3-4 values are typed. If there are no selections to choose from (as in the value "POOR" below), the value will not be present in the data.



































































Multiple conditions can be added to the search by clicking the "Add" symbol at the bottom left.



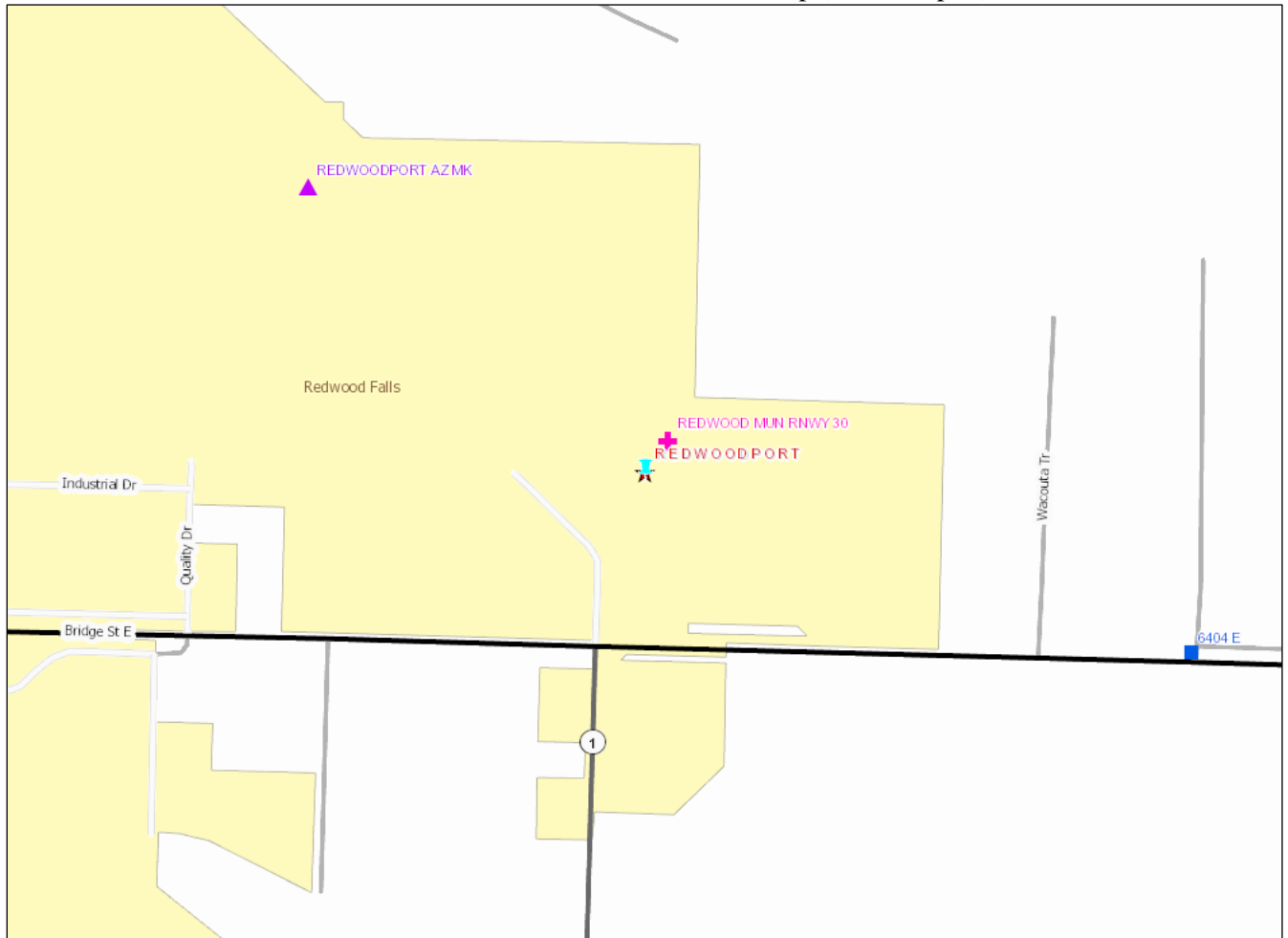
Results of user custom search query shown in lower left panel of application.



Summary Report Table results from query.

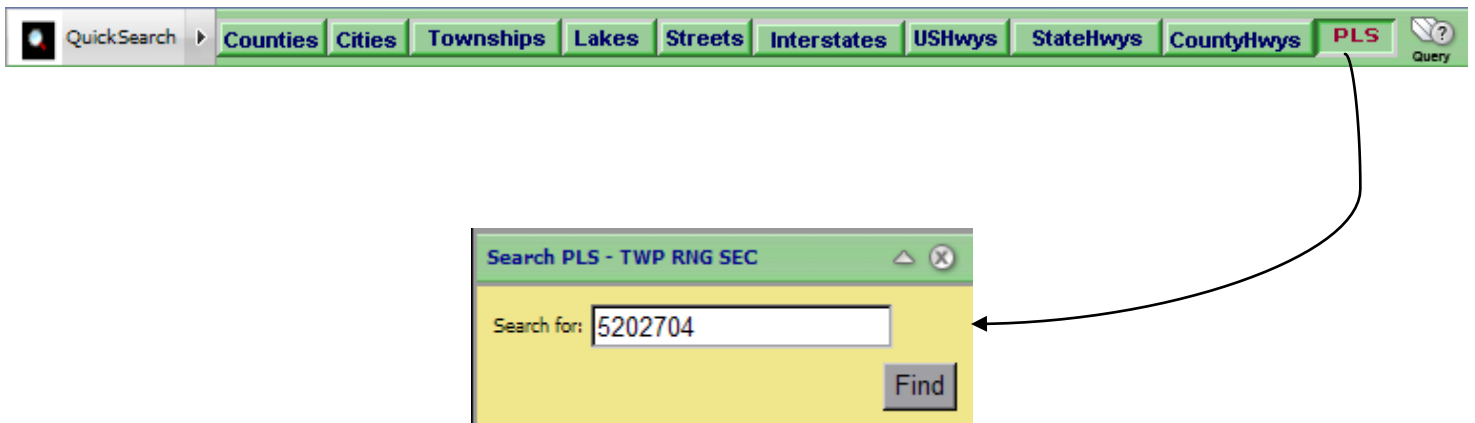
#	Feature Actions	OBJECTID	DATA_SHEET_PDF	MNDOT_STATION_NAME	INGS_STATION_NAME	COUNTY
1	   	135	GSID_19225	FRM A	FRM A	MARTIN, MN
2	   	163	GSID_8930	W 387	W 387	FILLMORE, MN
3	   	421	GSID_25548	REDWOODPORT	REDWOODPORT	REDWOOD, MN
4	   	667	GSID_50359	SACR MNDT RESET	SACR RESET	RENVILLE, MN
5	   	778	GSID_20164	CHUCK MNDT	CHUCK	MORRISON, MN
6	   	966	GSID_4232	POTSHOT MNDT	POTSHOT	CASS, MN
7	   	1017	GSID_4992	1407 J	1407 J	CLAY, MN
8	   	1120	GSID_15816	PANC MNDT	PANC	KOOCHICHING, MN
9	   	1167	GSID_64209	SAWYER	SAWYER	CLEARWATER, MN
10	   	1187	GSID_18499	TRAU MNDT	TRAU	MAHNOMEN, MN
11	   	1435	GSID_17159	JAMIE MNDT	JAMIE	LAKE OF THE WOOD
12	   	1518	GSID_23255	ARLONE MNDT	ARLONE	PINE, MN
13	   	1714	GSID_13692	WHITEHORN MNDT	WHITEHORN	ITASCA, MN
14	   	1744	GSID_27819	BARRS MNDT	BARRS	ST. LOUIS, MN
15	   	1823	GSID_3389	WALLI MNDT	WALLI	CARLTON, MN
16	   	1894	GSID_6053	ZACK MNDT	ZACK	COOK, MN

Zoomed to selected HARN feature on the map (Redwoodport).



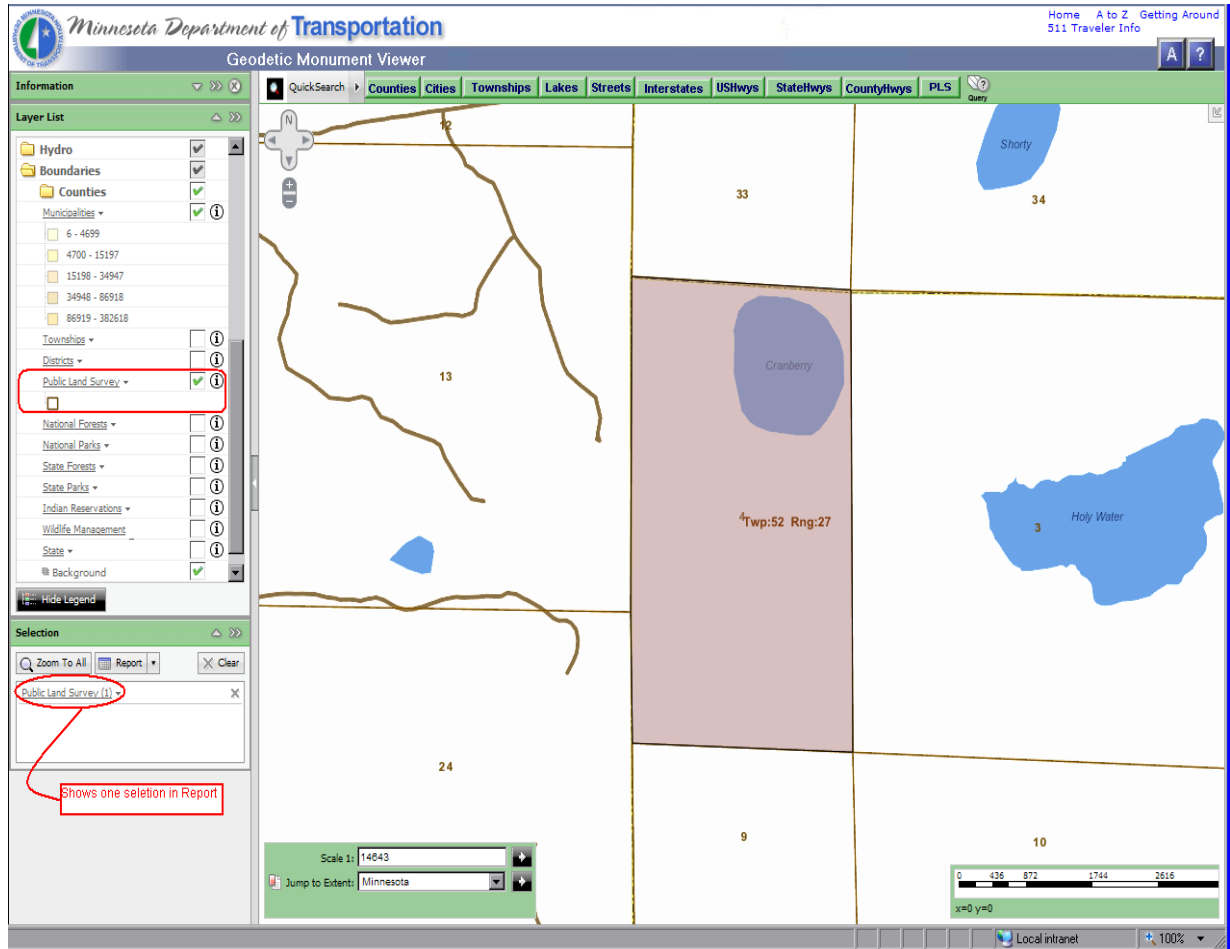
- Quick Search – by PLS

The Quick Search toolbar allows for quick searches in specific layers. The PLS button lets the user search by Township, Range and Section.



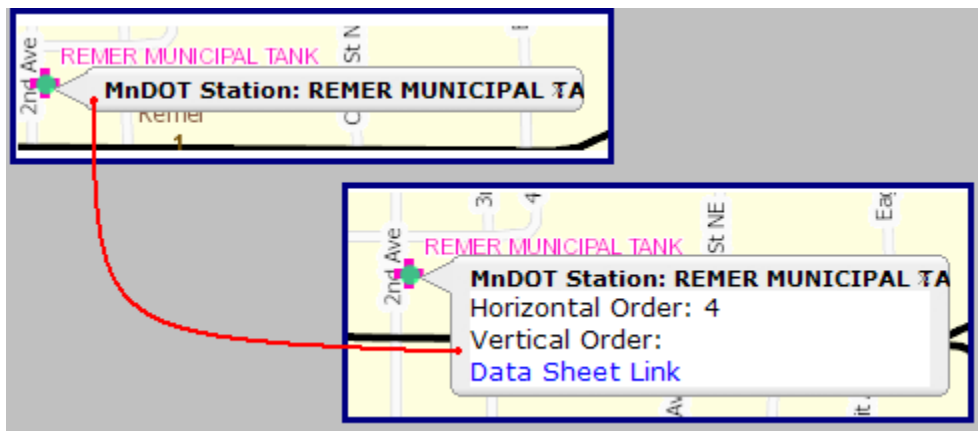
Pressing the PLS button from the Quick Search toolbar opens the PLS Search frame in lower left with a sample format of how the PLS should be entered. * Note: The PLS layer should be turned to “visible” by checking it’s visibility box in the Layer List under Boundaries.

Pressing the “Find” button will search the PLS layer for the TWP RNG SEC and if found, will select it, zoom to it and turn on the Twp and Rng Labels of the selection(s).



- Using MapTips with Geodetic Layers

MapTips are available on all Geodetic Layer and the following basemap layers: bridges, reference posts, truck stations and rest areas. If you turn these layers on you will see the new and improved map tips. Hover over a feature and a tip will appear. Click on the tip and more information will show up. On Geodetic layers a link to the Data Sheet is provided.



- Geodetic Monument Matrix

ORDER	VERTICAL				
HORIZONTAL	1	2	3	4	NULL
A	HARN	HARN	HARN	HARN	HARN
B	HARN	HARN	HARN	HARN	HARN
C	3D	3D	Horizontal	Horizontal	Horizontal
1	Vertical	Vertical	Other	Other	Other
2	Vertical	Vertical	Other	Other	Other
3	Vertical	Vertical	Other	Other	Other
4	Vertical	Vertical	Other	Other	Other
NULL	Vertical	Vertical	Other	Other	Unpositioned