

What's New in NJ-GeoWeb

A preview of the enhanced web
mapping application

NJDEP – Bureau of Geographic Information Systems
November 2014

NJ-GeoWeb

- NJDEP's flagship environmental interactive mapping application
- Through the use of "profiles" is able to deliver information and tools for users with specific interests.
- Developed by NJDEP using Rolta's OnPoint software
- Replaced i-MapNJ series of applications

Major enhancements ...

- More advanced user interface with much more map area
- Customized print output – greater control of layout, output size
- Locate Point Using Coordinates – NJSPC, UTM, DD, **and** DMS
- Buffer on entered coordinates
- Generate URL Tool – generated URL now includes visible layers

Several **new** profiles added...

- GeoWeb
- Ambient Water Monitoring
- Barnegat Bay
- **Bear**
- Geology
- **Historic Preservation**
- **Sustainability & Green Energy**
- **Safe Drinking Water**
- Site Remediation – Remedial Priority Scoring
- Tidelands
- **Water Allocation**
- Well Drillers

NJ-GeoWeb previous user interface

NJ-GeoWeb Map Viewer - Windows Internet Explorer

http://njwebmap.state.nj.us/NJGeoWeb/WebPages/Map/MapView.aspx?THEME=Surf&JH=True&RIDZ=634859860607394195

File Edit View Favorites Tools Help

NJ-GeoWeb new jersey department of environmental protection [reports](#) [help](#) [data descriptions](#)

Welcome Guest

Map Search

Map Tools

Scale 1: 2,330,999.00

Easting (X) : 479,996 , Northing (Y) : 608,326

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Layer Manager

Note: To view additional layers, click the '+' sign
For more functionality, Right Click on the layer's name.

- Environmental Data
 - Environmental Monitoring
 - Sites and Facilities
 - Planning Areas
 - Landscape/Natural Heritage
 - Historic Areas
 - Water
 - Land
 - Base Layers
 - Geology
 - Imagery

Apply

Local intranet 100%

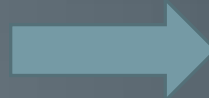
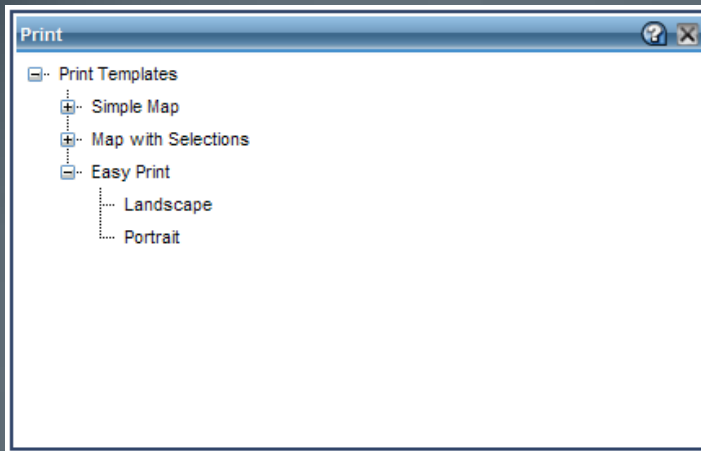
NJ-GeoWeb – new user interface

The screenshot displays the NJ-GeoWeb web application interface. At the top, there is a menu bar with 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. Below the menu bar is a header area with the 'NJ-GeoWeb' logo and the 'NJDEP' (New Jersey Department of Environmental Protection) logo. A search bar is located on the left side of the header. The main map area shows an aerial view of a city with a river and various infrastructure. A yellow arrow points to the 'Advanced Tools' dropdown menu, which is open, showing options like 'Selection', 'Mark Up', 'Measure', 'Buffer Selections', and 'Locate Point Using Coordinates'. Another yellow arrow points to the 'Map Tools' toolbar. A pink arrow points to the 'Map Tabs' area, which includes 'GeoWeb' and 'Ambient_Water_Monitoring'. A yellow arrow points to the 'Help' button, which is labeled 'Help' and 'data descriptions'. On the right side, there is a 'Map Content' panel with a tree view showing layers like 'Environmental Monitoring', 'Sites and Facilities', 'Planning Areas', 'Landscape/Natural Heritage', 'Historic Areas', 'Water', 'Land', 'Base Layers', and 'Geology'. Below the map, there is a scale bar and coordinates: 'Scale 1: 15,000.00 GO' and 'Easting (X) : 593,685.49 , Northing (Y) : 699,720.30'. A pink arrow points to the bottom of the map area with the text 'Search results and selections display here'. The bottom right corner shows a zoom level of '100%'.

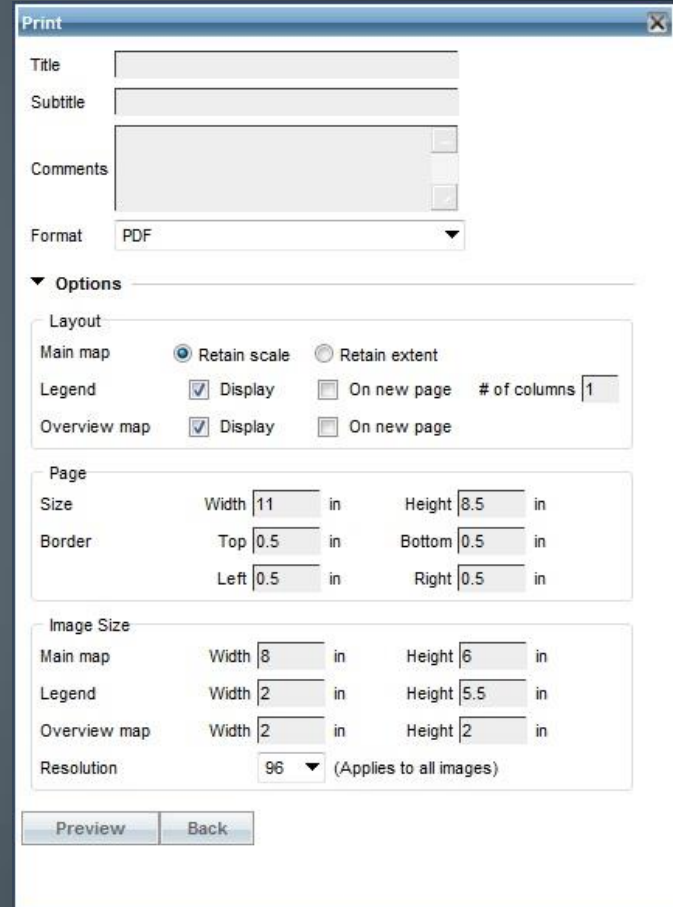
Customized print output

- Allows user to print better quality maps and have more control over the output
- Users can turn on/off elements (legend, overview map, results), the size of the map view changes automatically
- User has the option to force the printing of elements on to separate pages.
- Printing in PDF format allows larger sized output, user can modify paper and image sizes.
- Users can select from several pre-defined image resolution sizes.
- For lengthy legends, user can create multi-columned legends

Print tool – “Easy Print”



DEP will add standardized templates to accommodate the most commonly needed output sizes. Users can alter options here to suite individual needs.



Easy Print example dialog

The screenshot displays the NJ-GeoWeb interface with a print dialog box open. The dialog box contains the following fields and options:

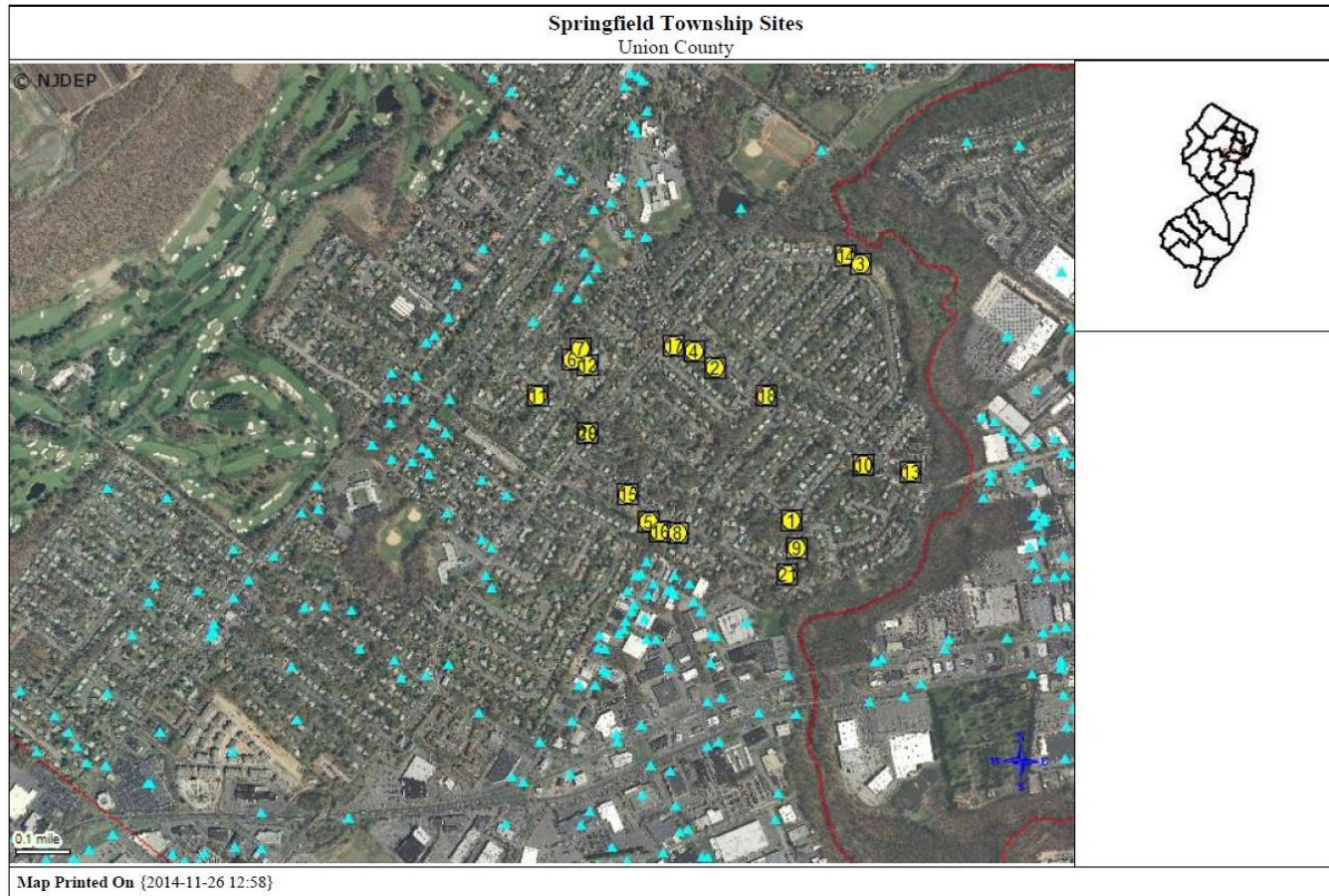
- Title: Springfield Township Sites
- Subtitle: Union County
- Comments: (empty text area)
- Format: PDF
- Options section:
 - Layout: Main map (Retain scale selected, Retain extent unselected)
 - Legend: Display, On new page, # of columns 1
 - Overview map: Display, On new page
 - Results: Display, On new page, # per column 15
- Page section:
 - Size: Width 11 in, Height 8.5 in
 - Border: Top 0.5 in, Bottom 0.5 in, Left 0.5 in, Right 0.5 in
- Image Size section:
 - Main map: Width 8 in, Height 6 in
 - Legend: Width 2 in, Height 5.5 in
 - Overview map: Width 2 in, Height 2 in
 - Resolution: 96 (Applies to all images)

The map content panel on the right shows the following structure:

- Map Content
- Right-click a layer for more functions
- Active Layer: Counties
- GeoWeb
 - Environmental Monitoring
 - Sites and Facilities
 - NJEMS Sites
 - NJPDES Regulated Facility Locations
 - NJPDES Discharge Points-Surface Water
 - NJPDES Combined Sewer Overflow (CSO) - DRAFT
 - Known Contaminated Sites List
 - Groundwater Contamination Areas (CKE)
 - Groundwater Contamination Areas (CEA)
 - Child Care Centers
 - Schools
 - Deed Notice Areas
 - Historic Fill
 - Chromate Sites

At the bottom of the window, the scale is 1:15,000.00 and the coordinates are Easting (X): 539,408.10, Northing (Y): 681,544.80.

Now with control – Map, Overview Map on page 1...








Results and legend forced to page 2

Results




1 365665 - RUBEN SAGUIL CONTRACTING CO, 5 CRAIG RD, SPRINGFIELD TWP, UNION
2 169907 - 244 MILLTOWN ROAD, 244 MILLTOWN RD, SPRINGFIELD TWP, UNION
3 370487 - PHILLIPS PATRICK, 49 LAUREL DR, SPRINGFIELD TWP, UNION
4 432521 - 224 MILLTOWN ROAD, 224 MILLTOWN RD, SPRINGFIELD TWP, UNION
5 387320 - 44 EVERGREEN AVENUE, 44 EVERGREEN AVE, SPRINGFIELD TWP, UNION
6 390749 - CESPEDES LAWN MAINTENANCE CORP, 237 S SPRINGFIELD AVE, SPRINGFIELD TWP, UNION
7 392609 - 231 SOUTH SPRINGFIELD AVENUE, 231 S SPRINGFIELD AVE, SPRINGFIELD TWP, UNION
8 157000 - S COOPER & BROTHERS TRUCKING INC, 15 BERNADETTE CT, SPRINGFIELD TWP, UNION
9 93158 - SEBASTIAN BIANCO LANDSCAPING, 17 ARCHBRIDGE LN, SPRINGFIELD TWP, UNION
10 340435 - 376 MILLTOWN ROAD, 376 MILLTOWN RD, SPRINGFIELD TWP, UNION
11 452962 - 275 NORTHVIEW TERRACE, 275 NORTHVIEW TER, SPRINGFIELD TWP, UNION
12 354703 - RONDDONTE, 27 GLENVIEW DR, SPRINGFIELD TWP, UNION
13 398807 - 407 MILLTOWN ROAD, 407 MILLTOWN RD, SPRINGFIELD TWP, UNION
14 382410 - BRONSTEIN YAN, 41 LAUREL DR, SPRINGFIELD TWP, UNION
15 25772 - ROBERT FISHER LANDSCAPING INC, 29 EVERGREEN AVE, SPRINGFIELD TWP, UNION
16 431456 - SOBIN DONALD , 48 EVERGREEN AVE , SPRINGFIELD TWP, UNION
17 460350 - 447 MEISEL AVENUE, 447 MEISEL AVE, SPRINGFIELD TWP, UNION
18 170821 - CARDINAL GARDEN CENTER, 272 MILLTOWN RD, SPRINGFIELD TWP, UNION
19 49993 - SPRINGFIELD TWP MARION STORM PUMP STATION, SPRINGFIELD AVE, SPRINGFIELD TWP, UNION
20 308836 - NJDOT, SPRINGFIELD AVE, SPRINGFIELD TWP, UNION
21 148954 - JOE MARTINO LANDSCAPING, 4 ARCHBRIDGE LN, SPRINGFIELD TWP, UNION

Legend

GeoWeb

-  NJEMS Sites
-  Municipalities
-  Counties
- Mid-Atlantic States
 -  New Jersey
 -  Other Mid-Atlantic States
- 2012 Imagery (Natural)

RGB

-  Red: Band_1
-  Green: Band_2
-  Blue: Band_3

Map Printed On {2014-11-26 13:02}

Legends with maps having layers with large symbol sets

The screenshot displays the NJ-GeoWeb interface, a web-based geographic information system. The main map shows a geological map of Northern New Jersey, with various geological units color-coded and labeled with county names: SUSSEX, PASSAIC, BERGEN, MORRIS, ESSEX, HUNTERDON, and HUDSON. A print dialog box is open on the left, allowing users to generate a PDF of the map. The dialog includes fields for Title, Subtitle, and Comments, and a Format dropdown set to PDF. Under the Options section, the Layout options are set to Retain scale. The Legend options are checked for Display and On new page, with the number of columns set to 4. The Image Size options are also checked for Display and On new page, with the Legend width set to 10 inches and height to 7.5 inches. The Resolution is set to 96 DPI. A Preview button is visible at the bottom of the dialog. On the right side, the Map Content panel shows the active layer as Counties, and the Legend panel shows a detailed list of geological units, including various formations and members. The interface includes a search bar, navigation tools, and a scale bar at the bottom left.

File Edit View Favorites Tools Help

NJ-GeoWeb new jersey njdep department of environmental protection help data descriptions

Searches GeoWeb Geology

Advanced Tools

Print

Title: Bedrock Geology

Subtitle: Northern New Jersey

Comments:

Format: PDF

Options

Layout

Main map: Retain scale Retain extent

Legend: Display On new page # of columns: 4

Overview map: Display On new page

Page

Size: Width 11 in Height 8.5 in

Border: Top 0.5 in Bottom 0.5 in Left 0.5 in Right 0.5 in

Image Size

Main map: Width 8 in Height 6 in

Legend: Width 10 in Height 7.5 in

Overview map: Width 2 in Height 2 in

Resolution: 96 (Applies to all images)

Preview Back

Scale: 1:301,000.00 GO

Map Content

Right-click a layer for more functions

Active Layer: Counties

- Geophysical Data
- Base Layers
- Water
- Aquifers
- Surficial Geology
- Bedrock Geology
 - Dikes
 - Faults
 - Folds
 - Bedrock Geology Cross-sections
 - Bedrock Outcrop
 - Bedrock Geology (up to 1:30000 scale)
 - Bedrock Geology (1:29999 to 1:11999 scale)
 - Bedrock Geology Generalized
- Imagery
 - 2012 Natural

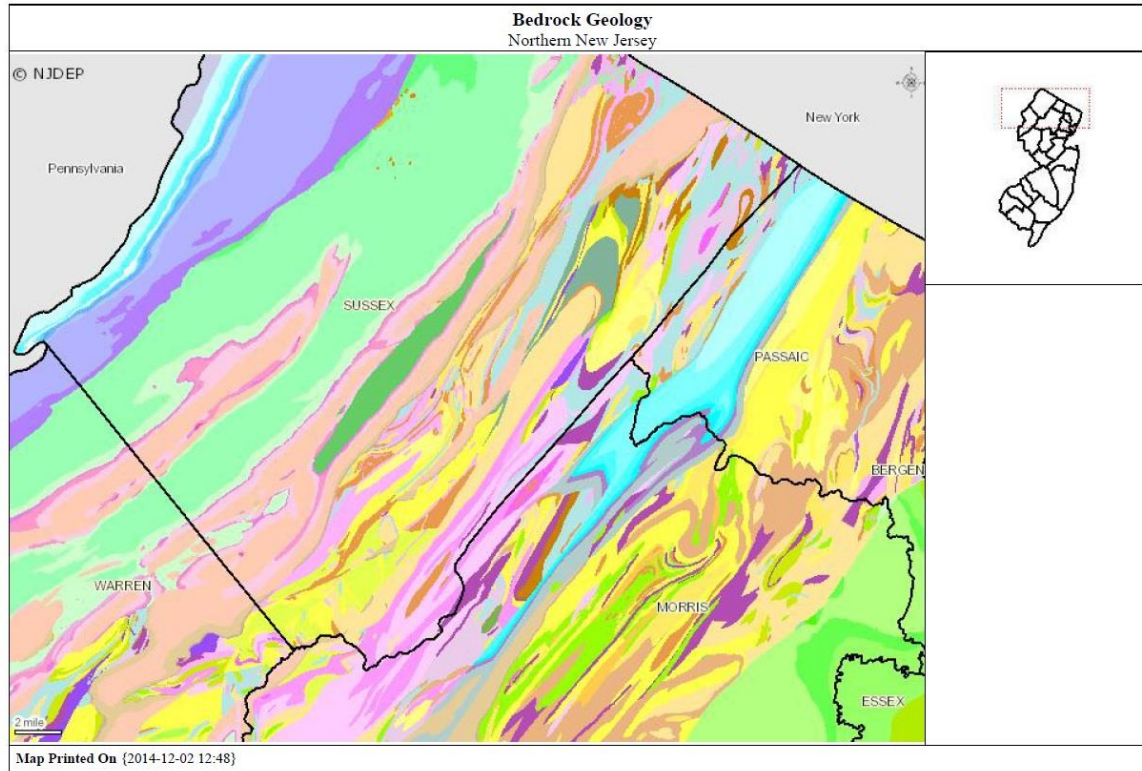
Legend

Geology

- Counties
- Mid-Atlantic States
 - New Jersey
 - Other Mid-Atlantic States
- Bedrock Geology (up to 1:30000 scale)
 - Tc Unnamed Formation at Cape May
 - Tch Cohansey Formation
 - Tkl Lower Member Kirkwood Formation
 - Tkb Belleplaine Member
 - Tkw Tillwood Member
 - Tks Shiloh Marl Member
 - Tsr Shark River Formation
 - Tmq Manasquan Formation
 - Tvt Vincentown Formation
 - Th The Hornerstown Formation
 - Kbs Shrewsbury Member
 - Kbsah Sandy Hook Member
 - Kt Tinton Formation
 - Kns Navesink Formation
 - Kml Mt. Laurel Formation
 - Kw Wenonah Formation
 - kmt Marshalltown Formation
 - Ket Englishtown Formation
 - Kwb Woodbury Formation
 - Kim Merchantsville Formation
 - Kca Chesapeake Formation
 - Kmg Magothy Formation
 - Kr Raritan Formation

Page 1 – map and overview map

File Edit Go to Favorites Help



Page 2 – multi-columnned legend

File Edit Go to Favorites Help

Legend

Geology

Counties

Mid-Atlantic States

New Jersey

Other Mid-Atlantic States

Bedrock Geology (up to 1:30000 scale)

Tc Unnamed Formation at Cape May

Tch Cohansey Formation

TKJ Lower Member Kirkwood Formation

TKb Belleplain Member

TKw Wildwood Member

TKs Shiloh Marl Member

Tsr Shark River Formation

Tmq Manasquan Formation

Tvt Vincentown Formation

Tht Hornerstown Formation

Krbs Shrewsbury Member

Krbsh Sandy Hook Member

Kt Tinton Formation

Kns Navesink Formation

Kml Mt. Laurel Formation

Kw Wenonah Formation

Kmt Marshalltown Formation

Ket Englishtown Formation

Kwb Woodbury Formation

Kmv Merchantville Formation

Kcq Chesapeake Formation

Kmg Magothy Formation

Kr Raritan Formation

Kp Potomac Formation

Jb Boonton Formation

Jc Basalt-clast Conglomerate

Jbcq Quartz-pebble Conglomerate

Jh Hook Mt. Basalt

Jt Towaco Formation

Jtc Towaco Formation Conglomerate and Sandstone facies

Jp Preakness Basalt

Jps Feltville Formation

Jfc Feltville Formation Conglomerate and Sandstone facies

Jo Orange Mountain Basalt

Jd Jurassic Diabase

Jg Granophyre

JTrp Passaic Formation

JTrpg Passaic Formation Gray bed

JTrpcq Passaic Formation Quartzite-clast Conglomerate facies

JTrpcl Passaic Formation Limestone-clast Conglomerate facies

JTrpsc Passaic Formation Conglomerate and Sandstone facies

JTrps Passaic Formation Sandstone and Siltstone facies

JTrpms Passaic Formation Mudstone facies

Trl Lockatong Formation

Trlr Lockatong Formation Red bed

Trla Lockatong Formation Arkosic Sandstone facies

Trlcq Sandstone and Conglomerate Sandstone facies

Trls Lockatong Formation Sandstone and Conglomerate Sandstone facies

Trs Stockton Formation

Trsc Stockton Formation Cobble Conglomerate and Sandstone facies

Dsk Skunnenmunk Conglomerate

Dbv Bellvale Sandstone

Dcw Cornwall Shale

Dm Marcellus Shale

Db Buttermilk Falls Limestone

Dkcc Kanouse and Esopus Formations and Connelly Conglomerate

Ds Schoharie Formation

De Esopus Formation

Do Oriskany Group

Dp Port Ewen Shale

Dmn Minisink Limestone and New Scotland Formation

Dkc Kalkberg Limestone Coeymans Limestone Manlius Limestone

DSrd Rondout and Decker Formations

Spv Bossardville Limestone

Sp Poxono Island Formation

Sbp Berkshire Valley and Poxono Island Formations undivided

Sb Bloomsburg Red Beds

Sl Longwood Shale

Sg Green Pond Conglomerate

Ss Shawangunk Formation

SObs Nepheline syenite

SObb Ouachitite breccia

Om Martinsburg Formation

Omh High Point Member

Omr Ramseyburg Member

Omb Bushkill Member

OQjt Jutland Klippe Sequence

OQja Jutland Klippe Sequence Unit A

OQjb Jutland Klippe Sequence Unit B

Ojw Jacksonburg Limestone and Sequence at Wantage undivided

Oj Jacksonburg Limestone

Ow Wantage Sequence

Obu Upper Part Beekmantown Group

Obl Lower Part Beekmantown Group

Oca Allentown Dolomite

Cl Leithsville Formation

Ch Hardyston Quartzite

CZm Manhattan Schist

CZs Serpentinite

CZw Wissahickon Formation

Zch Chestnut Hill Formation

Zv Metabasalt

Ygm Mt. Eve Granite

Ybh Hornblende Granite

Ybs Hornblende Syenite

Ybb Biotite Granite

Yma Microperthite Alaskite

Ypg Pyroxene Granite

Yps Pyroxene Syenite

Ypa Pyroxene Alaskite

Ys Syenite Gneiss

Yk Potassic Feldspar Gneiss

Ym Microcline Gneiss

Yb Biotite-Quartz-Feldspar Gneiss

Ymh Hornblende-Quartz-Feldspar Gneiss

Ymp Clinopyroxene-Quartz-Feldspar Gneiss

Yp Pyroxene Gneiss

Ype Pyroxene-Epidote Gneiss

Yf Franklin Marble

Yq Quartzite

Ye Epidote Gneiss

Ylo Quartz-Oligoclase Gneiss

Yla Albite-Oligoclase Granite

Ylb Biotite-Quartz-Oligoclase Gneiss

Yh Hypersthene-Quartz-Oligoclase Gneiss

Yd Diorite

Ya Amphibolite

Yam Migmatite

Ymg Monazite Gneiss

Yhp Hornblende-Plagioclase Gneiss

Ybp Biotite-Plagioclase Gneiss

Yba Microantiperthite Alaskite

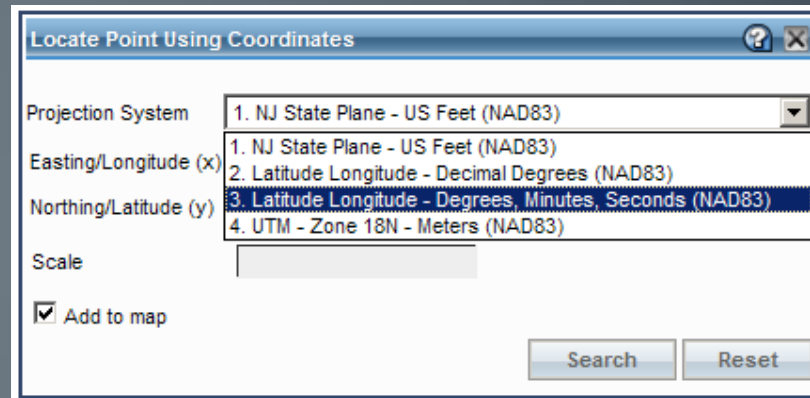
Yg Gneiss granofels and Migmatite

Ygb Gabbro

Map Printed On {2014-12-02 12:48}

Locate Point Using Coordinates

- In addition to NJSP, UTM, and DD, **DMS** is now an option.



- Rendered points now persist after zooming or panning
- Regardless of coordinate projection system used, translated NJSPC values appear in the Results panel

Buffer Enhancements

- Entered coordinates can serve as a buffer origin
 - Previously buffering only performed on:
 - Existing selected features
 - Mouse-click point on map
 - Now coordinate locations in NJSPC, UTM, DD, and DMS can be entered.

Buffering Options

The screenshot displays the NJ-GeoWeb web application interface. The main map area shows an aerial view of a rural landscape with several streams highlighted in blue. A 'Buffer Selections' dialog box is open, allowing users to define a buffer around selected features. The dialog includes the following options:

- Find:** A dropdown menu with 'Streams' selected.
- Selection Method:** Radio buttons for 'Near currently selected:', 'NJEMS Sites', and 'Near a point on map'.
- Enter Coordinates:** A section with a 'Projection System' dropdown set to '1. NJ State Plane - US Feet (NAD83)', and input fields for 'Easting/Longitude (x)' (423225) and 'Northing/Latitude (y)' (689770). A checked 'Add to map' checkbox is also present.
- Within:** A field set to '1000' with a 'Feet' unit dropdown.

Buttons for 'Search' and 'Reset' are located at the bottom of the dialog. The background map shows streams such as 'Rockaway Creek tributary', 'Rockaway Creek', and 'Barrington River'. A 'Map Content' panel on the right lists various layers, including 'Streams' and 'Water'. The bottom status bar shows 'Scale 1: 10,000.00', 'Perimeter: 4,439.397 ft Area: 0.000 sq.ft', and 'Easting (X) : 422,939.50 , Northing (Y) : 671,584.15'.

Generate URL Tool

- Tool used to generate a URL which can be saved as a shortcut, or to share in an email.
- Previously the generated URL contained parameters for the map tab and current extent of the map.
- Now includes map tab, extent, **and layers that are currently visible.**

Generate URL Tool

The screenshot displays the NJ-GeoWeb web application interface. At the top, there is a menu bar with 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. Below the menu is the application title 'NJ-GeoWeb' and the logo for the 'new jersey department of environmental protection'. A search bar is located on the left side. The main map area shows an aerial view of a rural landscape with roads like 'Sivers Ct', 'E Kears Ct', and 'Elm Ridge Rd', and water features like 'Slough Brook' and 'Slough Brook tributary'. A yellow box highlights the 'Generate URL Tool' icon in the toolbar, with a yellow arrow pointing to it and the text 'Generate URL Tool' overlaid. On the right side, there is a 'Map Content' panel with a tree view of layers including 'GeoWeb' (with sub-layers like Environmental Monitoring, Sites and Facilities, etc.) and 'Imagery' (with sub-layers like 2012 Natural, 2012 Infrared, etc.). The bottom of the interface shows a scale bar (Scale 1:4,421.05), a 'GO' button, and coordinate information (Easting (X) : 421,208.16 , Northing (Y) : 547,381.76). The zoom level is set to 100%.

Generate URL Tool

The screenshot displays the NJ-GeoWeb interface. At the top, the browser window title is "NJ-GeoWeb" with the NJDEP logo and "new jersey department of environmental protection". The main menu includes "File", "Edit", "View", "Favorites", "Tools", and "Help". A search bar is located on the left. The map area shows a satellite view of a water body with several blue-shaded areas. A "Generate URL" dialog box is open, containing the following fields and options:

- Map Co-ordinates:** X: 420858.93, Y: 547306.93. A "Get from Map" button is present.
- Label:** An empty text input field.
- User Credentials:** Include User Credentials. Fields for "User ID" and "Password" are present.
- Layer:** Include Layer visibility from current map.
- Generate URL:** A text area containing a long URL: `http://njwebmap.state.nj.us/NJGeoWeb/UrlHandler.ashx?MAPTABID=13&MINX=417243.805335346&MINY=545681.654879286&MAXX=424474.05856856&MAXY=548932.188675729&SIZE=1884.847&LABEL=%7c420858.93%7c547306.93%7c102711%7c0%2c0%2c0%7c10%7cCRCLE%7c255%2c0%2c0%7c13%7c%7c&THEME=Sacohire&LANGUAGE=en-`
- Buttons:** "Generate", "Copy", and "Reset".
- Email to:** "Email address" field contains "cliff.fiscal@overthec Cliff.n" and a "Send" button.

The map interface includes a "Map Content" panel on the right with a tree view of layers: GeoWeb (Environmental Monitoring, Sites and Facilities, Planning Areas, Landscape/Natural Heritage, Historic Areas, Water, Land, Base Layers, Geology) and Imagery (2012 Natural, 2012 Infrared, 2007 Natural, 2007 Infrared, 2002 Infrared). The status bar at the bottom shows "Scale 1: 4,421.05" and "GO". The bottom right corner displays "Easting (X) : 421,208.16 , Northing (Y) : 547,381.76".

User Support

- Training – half day sessions, see schedule:
 - <http://www.nj.gov/dep/gis/trainimap.htm>
- gisnet@dep.nj.gov – report problems or technical questions to BGIS staff.