

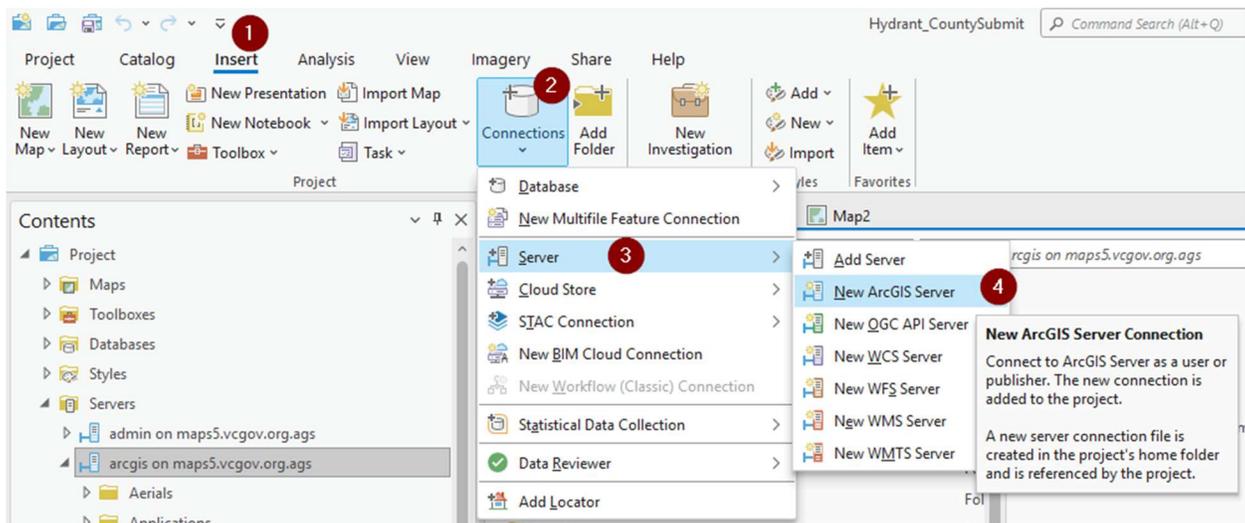
Volusia County Countywide Hydrants Editing

The goal of this document is to assist with the efforts of IT-GIS to create an up-to-date layer that accurately contains the known hydrants for all incorporated and unincorporated areas. Due to the amount of time it takes to manage, de-conflict, and push updates for each entity the County is asking for each city to assist with loading and managing their hydrant data. This process is outlined below.

Add the ArcGIS Server to your ArcGIS Pro Project

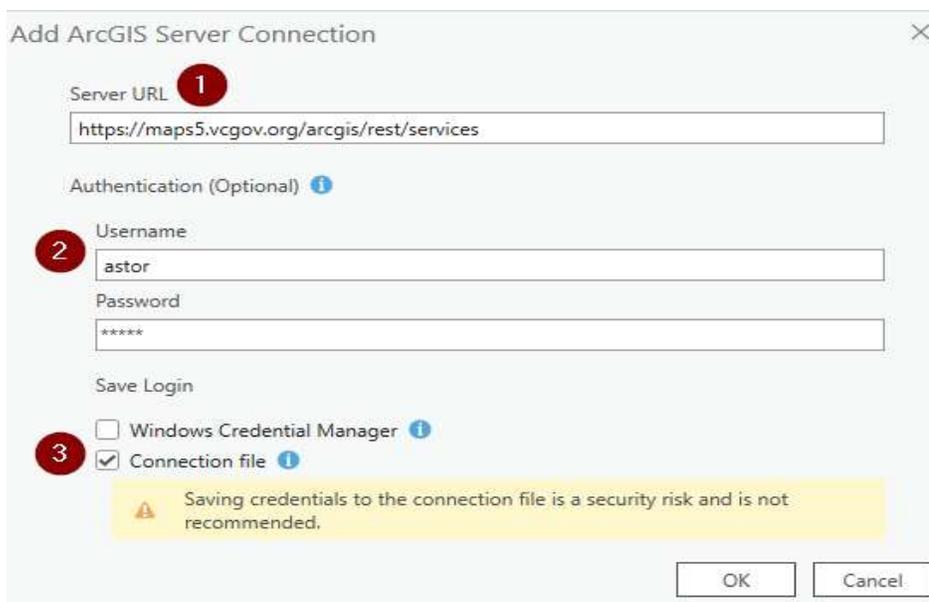
Navigate to the Insert tab to insert a new ArcGIS Server Connection into your project.

Click Connections and then Server and then New ArcGIS Server



The URL you'll need is: <https://maps5.vcgov.org/arcgis/rest/services>

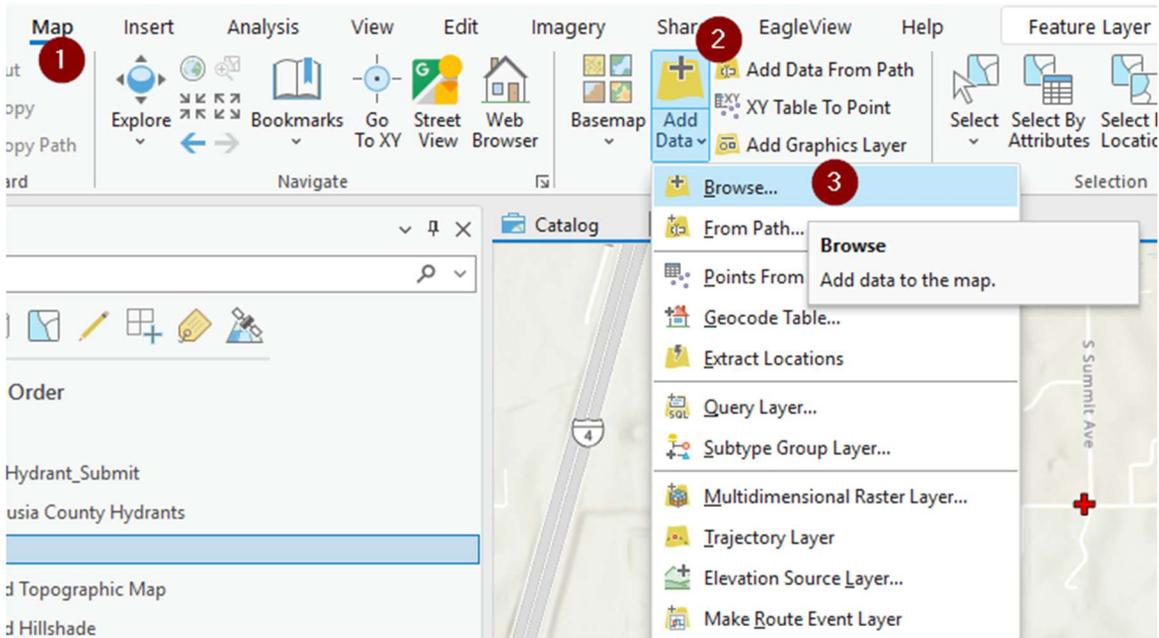
Be sure to enter the correct username and password for your hydrant access. This will dictate what hydrants you can change or delete. Also be sure to save the login to the "connection file" and not the default "windows credential manager".



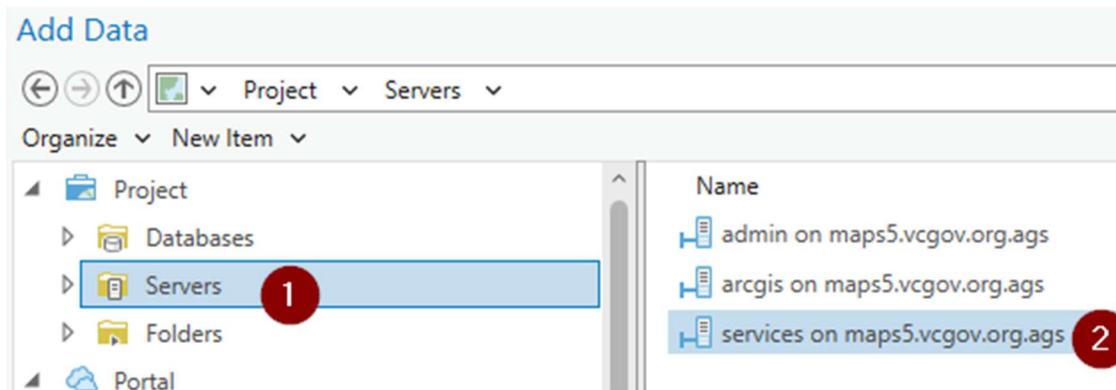
Add the Hydrants layer to your Map

Now that you have the ArcGIS Server Connection you'll need to use that and add the Feature Service URL to your existing map.

Click map and then Add data and Browse your current connections.



Now your add data window should appear. Click on the servers and then double click on the new server connection we created. From here click on the “CityServices” folder near the top of the services. Then finally double click the City_Hydrant_Submit **feature service**. This will add the layer to your current map.



Project

- Databases
- Servers**
- Folders

Portal

- My Content
- My Favorites
- My Groups

Name
Aerials
Applications
BaseMaps
BeachSafety
Census
CityServices
...

Add Data

Project > Servers > services on maps5.vcgov.org.ags > CityServices

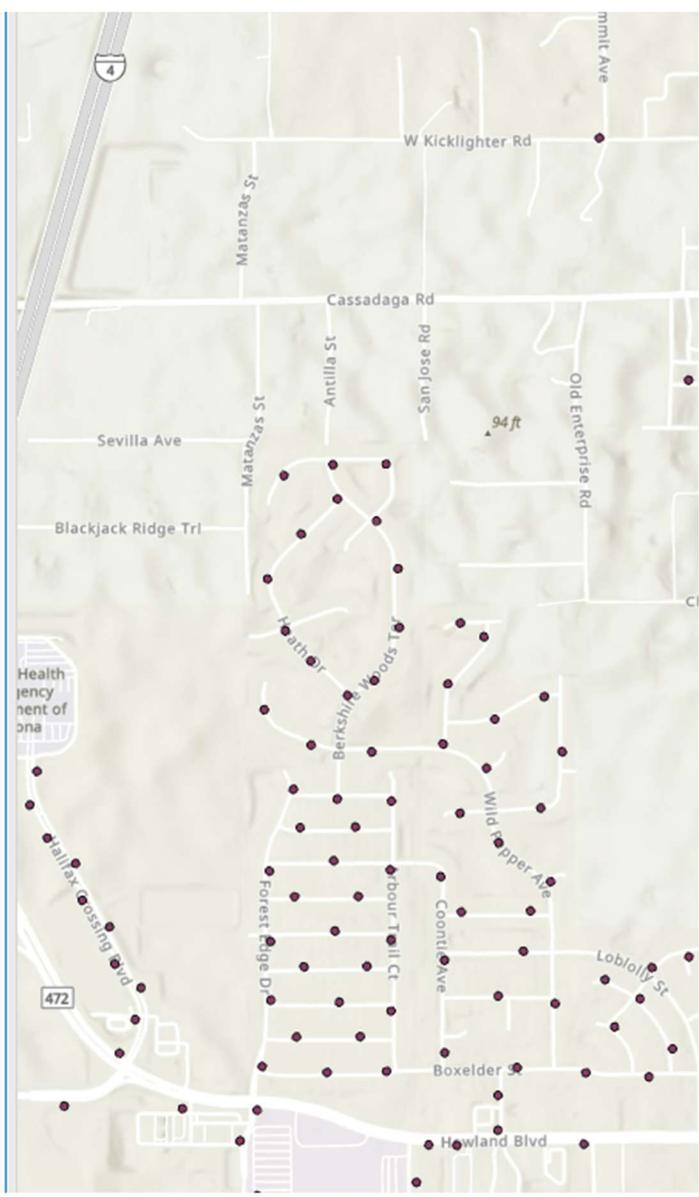
Organize > New Item

Name	Type
City_Hydrant_Submit	Map Service
City_Hydrant_Submit	Feature Service
Oak_Hill_Zoning_and_Land_Use	Map Service

Drawing Order

Map2

- City_Hydrant_Submit
- Volusia County Hydrants
- World Topographic Map
- World Hillshade



Adding Hydrants

Remember you can only update or delete records that your login owns. You must load hydrant for your organization if you are new to the service. To load new hydrants into the Feature service you can manually add records one at a time, or you can use the append tool and field map your fields to our relevant fields.

Please use the Data Diagram to assist with loading data into fields that have domains. A detailed data diagram is available for each domain below.

Once hydrants are added into the service, they can ONLY be edited by individuals who are using the same login (username / password). No municipality can delete or change a record submitted by another city.

Field Name	Alias	Data Type	<input type="checkbox"/> Allow NULL	<input type="checkbox"/> Highlight	Number Format	Domain	Default	Length
Primary_Street	Address	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>				255
Hydrant_Owner	Hydrant_Owner	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Hydrant_OwnerMaintainer		255
Hydrant_Maintainer	Hydrant_Maintainer	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Hydrant_OwnerMaintainer		255
Hydrant_Jurisdiction	Hydrant_Jurisdiction	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Hydrant_Jurisdiction		255
Hydrant_Number	Hydrant_Number	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>				255
Date_Updated	Date_Updated	Date	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Latitude	Latitude	Double	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Numeric			
Longitude	Longitude	Double	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Numeric			
Location_Notes	Location_Notes	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>				255
Hydrant_Notes	Hydrant_Notes	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>				255
Cross_Street	Cross_Street	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>				255
GPM_Flow	GPM_Flow	Long	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Numeric			
Class_BonnetColor	Class_BonnetColor	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Hydrant_Bonnet		255
Last_Flow_Date	Last_Flow_Date	Date	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Active_Flag	Active_Flag	Text	<input checked="" type="checkbox"/>	<input type="checkbox"/>		YesNoText		255

Domain_Name	Code	Description
Hydrant_Bonnet	Red	Red
	Orange	Orange
	Green	Green
	Blue	Blue
	Unknown	Unknown

Hydrant_Jurisdiction	Code	Description
	Daytona Beach	Daytona Beach
	Daytona Beach Shores	Daytona Beach Shores
	DeBary	DeBary
	DeLand	DeLand
	Deltona	Deltona
	Edgewater	Edgewater
	Holly Hill	Holly Hill
	Lake Helen	Lake Helen
	New Smyrna Beach	New Smyrna Beach
	Oak Hill	Oak Hill
	Orange City	Orange City
	Ormond Beach	Ormond Beach
	Pierson	Pierson
	Ponce Inlet	Ponce Inlet
	Port Orange	Port Orange
	South Daytona	South Daytona
	County	County

Hydrant_OwnerMaintainer	Code	Description
	Private	Private
	Unknown	Unknown
	County	County
	Daytona Beach	Daytona Beach
	Daytona Beach Shores	Daytona Beach Shores
	DeBary	DeBary
	DeLand	DeLand
	Deltona	Deltona
	Edgewater	Edgewater
	Holly Hill	Holly Hill
	Lake Helen	Lake Helen
	New Smyrna Beach	New Smyrna Beach
	Oak Hill	Oak Hill
	Orange City	Orange City
	Ormond Beach	Ormond Beach
	Pierson	Pierson
	Ponce Inlet	Ponce Inlet
	Port Orange	Port Orange
	South Daytona	South Daytona

YesNoText	Code	Description
	YES	YES
	NO	NO

Updating or Removing Hydrants

Updating or removing hydrants can be done whenever a change is made. There are two major ways to accomplish this, with the first one being an edit by edit approach. The other would be a bulk re-load process.

The first method would be when making a change to your existing hydrant data, make that same change to the County service. This would keep the countywide hydrant service up to date with your local dataset. The more real time these two datasets sync up, the better for us all.

The other method is to reload the data. You'd use the delete rows tool to delete all the hydrants for your city and then use the append tool to "load" in the new, current hydrants from your production city layer. This process can be good if you have significant changes that maybe too tedious to re-do in another dataset.

Contacts

The IT-GIS department is providing and hosting this service. The data is periodically backed-up and will eventually be used to bulk load the NG911 CAD system if this process is deemed successful. If you need assistance getting access to the service please contact Brandon Barnett.

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Phone: 386-822-5700 x13470

Last Updated: Monday, February 24, 2025