# **Tutorial**

This tutorial is meant to be a general guide to functionality within the Arizona Environmental Review Tool - the intention is not to cover all functionality but expose the user to various tools for further exploration. Additional documentation can be found by navigating the Contents. Clicking a link will navigate you directly to the help topic, which provides detailed information on the use and functionality of the components of the application.

- 1. If you are new to the system, **Create new account**, otherwise, **log in**.
  - If you have forgotten your password, **Request new password**.
  - To update your account settings, including Password, edit My Account.
- 2. Click the **Map** menu to navigate to the map.
- 3. Familiarize yourself with the Map Navigation.
  - a. Use the Find address or place tool Grind address or place to find Canyon del Muerto.
    b. Using the Zoom to Coordinates or Scale tool , zoom in to a Scale of 1:36,112.
  - c. Add a **Spatial Bookmark** for **Canyon del Muerto**.
  - d. Zoom to the Default Extent of the map.
  - e. Perform a **Feature Search** using the *Resource*: **Milepost** to find *Road Name*: **U 191** with *Milepost Number*: **M448** and **Zoom** to it.
  - f. Add a **Spatial Bookmark** for **Milepost**.
  - g. Using the newly created **Spatial Bookmark**, zoom to **Canyon del Muerto**.
- 4. Alter the content of the map:
  - **Switch Basemap** to Imagery to see the great topography of the Canyon del Muerto area.
  - Work with the **Layers** to make them visible/invisible, view their symbology, alter the layer transparency,...
  - Use the Add Resource tool to add a map service to the map via URL: http://gis.landscope.org/arcgis/rest/services/LandScope/LS1\_Protected\_Areas/MapServer and name it Protected Lands.
- 5. **Identify** the **Protected Lands** resource, added in Step 4, to determine **Owner** of the area surrounding the Canyon del Muerto.
- 6. Make a Map by adding Points, Lines, Polygons and/or Text to the map.
  - a. Add a **Point** by:
    - digitizing a point using the default Draw Shape tool<sup>1</sup>.
    - entering Coordinates via the Additional Mapping Options tool
  - b. Add a **Polygon** by:

- digitizing a polygon using the default Draw Shape tool
- uploading a shape from a file (shapefile, KML, GML) using the Upload Shapes
- c. Add a Line by:
  - digitizing a line after selecting the **Use Freehand** option from **Draw Settings**<sup>1</sup>.
- d. Add **Text** to the map of various colors, sizes, and styles.
- e. Edit Annotations to edit the Line to change the Line Style, Line Color, and Line Thickness.
- 7. Try out various Map Tools:
  - a. Make the **Tribal Lands** layer visible and **Identify** that surrounding the Canyon. What is it?
  - b. After **Making a map** by adding various annotations, **Print** <sup>IIIII</sup> the map.
- 8. **Create Project** to submit for environmental review. Consider doing so via one of the following multiple options:
  - Draw shape
  - Upload shape from a (zipped) shapefile
  - Additional Mapping Options, including:
    - Map Layers:
      - Selecting the Milepost marker identified by the Feature Search performed in Step 3
      - Selecting the Resource: Protected Lands (previously loaded in Step 4) and

*Layer*: **44: Protected Areas Database** surrounding the Milepost marker.

- Make a Map drawn in Step 6
- Coordinates Latitude/Longitude (Decimal) with Latitude (Northing) of 36.1686 and Longitude (Easting) of -109.4896
- Drawing a point or line feature(s)
- 9. Edit Project:
  - j. Edit the project **details**.
  - k. Edit the **spatial boundary** of the project. Note that this enables the user to edit the project details as well.

**Clear All Annotations** 

10. Clear All Annotations

from the map.

- 11. View Project for the project created to download and review the **Report File** and Boundary **Shapefile**, in the case where the *Review Status* reflects **Report Generated**.
- 11. Log out to close your session.

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# **Administrative Functionality**

The following functionality requires administrative privileges.

- List All Projects to view the Projects submitted and their details.
   E-mail the Contact of a project with questions/comments.
- 2. **Find Users** to view registered Users and assign Roles within the system, as appropriate.

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# How To...

# Log In

- Log In
- Log Out
- Edit My Account
- Request new password

### Мар

### Alter the map display

- Switch Basemap
- Add Resources (a.k.a add map service)
- Layers make visible/invisible
- Make A Map add features and labels to the map
  - Draw/Edit

### Navigation and map tools

- Identify a feature
- Feature Search (a.k.a. find something on the map)
- Find Address or Place
- Map Navigation
- Measure
- Overview Map
- Print
- Spatial Bookmarks create, use and edit
- Zoom To Coordinates or Scale

### **Create Project**

- Create Project for environmental review
  - Draw/Edit

# **My Projects**

• My Projects

### Users

Allows users assigned the Administrator Role the ability to find, sort, and view Users registered within the system and designate User Roles.

Arizona

### Steps:

- 1. From the *Admin* menu, select **Users**.
- 2. Within the Users page, all Users are listed.
  - Filter the Users by **First name, Last name** and/or **Organization** by selecting a comparison type from the dropdown menu and typing in search text within the corresponding box. Click **Apply**

Apply				
Apply.	. <b>NOTE</b> : To remove the fill	ter, delete the filter crite	ria from the text b	ox and click
Users				
First name		Last name		Organization
Contains	*	Contains	*	Contains

• Sort users in ascending order by clicking on the desired heading (i.e. **Organization**).

User ID	Organization	Registration date	Last login
asmith_24	AGFD	6/9/2014 07:08:07 PM	06/09/2014 - 19:33
sschuetze_47	AGFD	8/5/2014 06:12:43 PM	08/08/2014 - 15:52
jmikolajczyk_53	AGFD	9/3/2014 02:57:36 PM	09/03/2014 - 15:00
tbuhr_54	AGFD	9/3/2014 04:21:31 PM	09/03/2014 - 16:29
kwolff-krauter_57	AGFD	9/10/2014 04:41:55 PM	09/10/2014 - 16:43
neiden_55	Arizona Game and Flsh	9/4/2014 12:47:28 AM	09/04/2014 - 00:48
gritter	Arizona Game and FIsh Department	4/23/2014 12:50:05 PM	09/18/2014 - 17:29
stonn	Arizona Game and FIsh Department	4/23/2014 12:13:14 PM	09/17/2014 - 16:06
jkuzek_44	Arizona Game and Fish Department	8/1/2014 10:36:21 AM	08/26/2014 - 11:11
awood_58	Arizona Game and Fish Department	9/11/2014 07:35:09 PM	09/12/2014 - 14:01
rlawrence	Arizona Game and Fish Dept.	4/22/2014 07:19:57 PM	07/08/2014 - 17:11
jdimiceli_33	AZGFD	7/9/2014 01:05:22 PM	08/14/2014 - 17:29
hgriscom_59	AZGFD	9/13/2014 06:44:50 PM	09/22/2014 - 13:37
c-ndewar	DONR	И/22/2014 02:39:23 PM	09/18/2014 - 12:28

• Click on the same heading (i.e. **Organization**), a second time, to sort in descending order.

User ID	Organization <del>–</del>	Registration date	Last login
cheriboucher_34	Unaffiliated user	7/11/2014 06:02:02 PM	07/11/2014 - 18
Robert_M_Anderson_41	U.S. Fish and Wildlife Service	7/24/2014 11:58:24 AM	07/24/2014 - 15
sabratonn	Tonn Ventures	4/23/2014 12:21:51 PM	09/24/2014 - 13
tbommarito_56	Reclamation	9/4/2014 03:01:59 PM	09/19/2014 - 13
sabraschwartz_51	private	8/28/2014 01:12:16 PM	09/24/2014 - 13
gpodniesin	PNHP	4/22/2014 08:25:08 AM	07/14/2014 - 14
whitney weber 40	NatureServe	7/21/2014 09:32:11 AM	07/28/2014 - 09

3. Click the **User ID** of a user to view the User Details.

First name Contains	Contains	Or C
User ID	Organization	Registration da
		6/9/2014 07:08:0
asmith_24	AGFD	6/9/2014 07.00.0

5. Within the *Edit User* page, designate the pertinent role by clicking the corresponding checkbox.

View	Edit
Display par	no *
Display nan asmith_24	
Snaces are	allowed; punctuation is not allowed except for periods, hyphens, apostrophes, and unders
E-mail addr	
asmith@a	
Password	
acomora	Password strength:
Confirm pa:	ssword
sonnin pa	55W014
To change i	the current user password, enter the new password in both fields.
Roles	
	cated user
Custome	
	ed Customer
🗹 Evaluato	ır -
AZ Admii	nistrator
Cours	Cancel account
Save	

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**Related Topics:** 

• Projects

# Projects

Allows administrative users (Evaluators and Administrators) the ability to find, view, and sort all projects submitted to the system.

### Steps:

- 1. From the Admin menu, select **Projects**.
- 2. Within the *Projects* page, all projects are listed.
  - Filter the Projects by Project ID and/or Contact Name by selecting a comparison type from the drop-

down menu and typing in search text within the corresponding box. Click **ApplyNOTE**: To remove the filter, delete the filter criteria from the text box and click **Apply**.

Projects		
Project Title Contains	Project IE	Primary Project Type Contains

Apply

#### • Sort Projects in ascending order by clicking on the desired heading (i.e. **Project ID**).

Project Title	Project ID 🔺	Primary Project Type	Contact Name	Orga
test	27	Forest, Woodland, Vegetation Management	Austin	agfd
test 2	5	Communication	Zoey Tonn	Tonn
Test Rayo	AGFD-000029-HGIS	Energy Storage/Production /Transfer	Sabra Tonn	Arizor FIsh (
Patagonia	AGFD-000039-HGIS	Mining	Michele Bottiaux	Natur
Copied multiple		Agricultural Operations	ERT	Natur

• Click on the same heading (i.e. **Project ID**), a second time, to sort in descending order.

Project Title	Project ID-	Primary Project Type	Contact Name	Organ
test 1	M14-04234334	Energy Storage/Production /Transfer	Rocky Ray	Torch
Make a Map	AGFD-000113-HGIS	Agricultural Operations	ERT Support	Nature
Cook's Lake	AGFD-000112-HGIS	Habitat Conservation and Restoration	Tab Bommarito	Reclarr
Chiricahua new	AGED-000111-HGIS	Recreation Areas	Sahra Tonn	Arizona

4. Click a **Project Title** to find additional information pertaining to the Project.

Project Title	Project ID	Primary Project Type	Contact Name	Organizati
Upload shapes from shapefile	AGFD-000054-HGIS	Agricultural Operations	ERT Support	NatureServ
Make a Map	AGFD-000113-HGIS	Agricultural Operations	ERT Support	NatureSer∨
Cook's Lake	AGFD-000112-HGIS	Habitat Conser∨ation and Restoration	Tab Bommarito	Reclamatio
Blanco Wash	AGED-000096-HGIS	Habitat Conservation and	Michele	NatureServ

- 5. Within the *Project Details* page:
  - click the **Project Type** hyperlink to view more information regarding the **Project Type**.
  - click the Report **File attachment** to view the report generated as a result of the Project analysis.
  - click the Boundary Shapefile to save the project boundary.
  - Edit the project details or Map to edit the project boundary.
  - Add pertinent **Notes** regarding the project.
  - Email the Contact.

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### **Related Topics:**

- Edit Project
- Email
- Users

### Dynamic Analysis

This functionality allows users assigned the Administrator Role the ability to find, sort, view, and create **Dynamic Analysis** report text within the system.

**Dynamic Analysis** report text are displayed within the project report only when a feature within the layer is identified during the project analysis. Dynamic Analysis Report Text is linked to a specific layer used in the project analysis. In contrast, **Static Structure** report text is always displayed in the report, regardless of the results of the analysis. The **Project Type** report text included in the project report corresponds to that identified by the client when creating the project.

- View
- Create
- Edit
- Delete

#### Steps:

- 1. From the Admin menu, within the Report Texts section, select Dynamic Analysis.
- 2. Within the Dynamic Analysis Report Text page, all Dynamic Analysis report texts are listed.
  - Filter the report texts by **Title** or **Report Text Language** by selecting a comparison type from the

dropdown menu and typing in search text within the corresponding box. Click **ApplyNOTE**: To remove the filter, delete the filter criteria from the text box and click **Apply**.

Dynamic Analysi	s Report Texts	
Create Report Text		
Title Contains	Contains	Apply
Tortoise		

- Sort Dynamic Analysis report text in ascending order by clicking on the desired heading (i.e. **Title**).
- Click on the same heading (i.e. **Title**), a second time, to sort in descending order.

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Apply

#### View

Within the Dynamic Analysis Report Text page, click the **Title** of the text to view.

back to top

### Create

- 1. Within the *Dynamic Analysis Report Text* page, click **Create Report Text** to create new text for inclusion in the project report.
- 2. Within the Create Report Text page, enter:

- Title: create a meaningful title for yourself. This title will not be displayed within the report
- **Type**: from the dropdown menu, select the type of report text this applies to in this case **Dynamic Analysis**:
  - **Dynamic Analysis**: only displayed within the project report when a feature within the given layer detects a conflict during the project analysis. Dynamic Analysis Report Text is linked to a specific layer used in the project analysis.
  - Static Structure: always displayed in the report, regardless of the results of the analysis.
  - **Project Type**: text displayed within the project report is dependent on the Project Type defined within the Project.
- **Project Type**: this only applies when **Project Type** is selected from the *Type* dropdown. Indicate all Project Types to which the text should apply.
- **Body**: indicate the text to display in the project report

Cotor o fit	
	le that is most meaningful to you.
importar	It Bird Areas
Гуре *	
	e relevant category. c Analysis Text
Cynami	, Analysis lext
Body	
	rce 😽 🖻 🛍 🗞 🔶 🦀 🎎 📰 🥙 💖 -
BI	Uੁ ↔ X <sub>2</sub> X <sup>2</sup> Ø ⋮ ⊟ ⇐ ∉ ♥ ₩ ≡ ≛ ≣ ■ ▶¶ ¶
Styles	🔽 Normal 🔽 Font 🔽 Size 🔽 🚑 🚑 🍽 🏚 🕵
	t has been found with one or more Important Bird Areas.
body p	

4.	At the top of the page, a message is displayed indicating that the Layer has been created successfully.
	Report Text New Dynamic Analysis text has been created.
	back to top
E	dit
1.	Within the <i>Dynamic Analysis Report Text</i> page, click the <b>Title</b> of the text to view.
	Edit
2.	Within the <i>Dynamic Analysis Report Text Details</i> page, click the <b>Edit</b> menu.
_	Save
	Make the desired edits and click <b>Save</b> at the bottom of the page to save the changes.
4.	At the top of the page, a message is displayed indicating that the Report Text has been successfully updated.
	Report Text Important Bird Areas has been updated.
	back to top
D	elete
1.	Within the <i>Dynamic Analysis Report Text</i> page, click the <b>Title</b> of the text to view.
	Edit
2.	Within the Dynamic Analysis Report Text Details page, click the Edit menu.
	Delete
2	
J.	Within the <i>Edit Report Text</i> page, click the <b>Delete</b> button at the bottom of the page to delete the Layer.
4.	A prompt appears confirming that the layer should be deleted. Click <b>Delete</b> to confirm or <b>Cancel</b> to cancel the deletion.

Are you sure you want to delete New Dynamic A
View Edit
This action cannot be undone.
Delete Cancel

5. At the top of the page, a message is displayed indicating that the Layer has been successfully deleted.

Report Text New Dynamic Analysis text has been deleted.

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#### **Related Topics:**

- Analysis Layer
- Analysis Layer Attributes
- Analysis Layer Triggers
- Project Type
- Static Structure

### Static Structure

This functionality allows users assigned the Administrator Role the ability to find, sort, view, and create **Static Structure** report text within the system. After creating the Static Structure, submit a ticket to the **ERT Help Desk** indicating the Title of the Static Structure report text and where it should be included in the project report.

**Static Structure** report text is always displayed in the report, regardless of the results of the analysis. In contrast, **Dynamic Analysis** report text are displayed within the project report only when a feature within the layer is identified during the project analysis. Dynamic Analysis Report Text is linked to a specific layer used in the project analysis. The **Project Type** report text included in the project report corresponds to that identified by the client when creating the project.

- View
- Create
- Edit
- Delete

#### Steps:

- 1. From the *Admin* menu, within the *Report Texts* section, select **Static Structure**.
- 2. Within the Static Structure Report Texts page, all Static Structure report texts are listed.
  - Filter the report texts by **Title** or **Report Text Language** by selecting a comparison type from the

Apply

dropdown menu and typing in search text within the corresponding box. Click Apply

**NOTE**: To remove the filter, delete the filter criteria from the text box and click **Apply**.

Static Stru	ucture Report Texts
Create Report Text	
<b>Title</b> Contains disclaimer	Report Text Language         Contains         Apply
Title	Report Text Language
	No Documented Occurrences of Special Status Species
	No special status species were documented as occurring within the

• Click on the same heading (i.e. **Title**), a second time, to sort in descending order.

back	to	ton
Dack	ω	ιορ

### View

Within the *Static Structure Report Texts* page, click the **Title** of the text to view.

#### back to top

### Create

- 1. Within the *Static Structure Report Texts* page, click **Create Report Text** to create new text for inclusion in the project report.
- 2. Within the *Create Report Text* page, enter:
  - **Title**: create a meaningful title for yourself. This title will not be displayed within the report
  - **Type**: from the dropdown menu, select the type of report text this applies to:
    - Dynamic Analysis: only displayed within the project report when a feature within the given layer detects a conflict during the project analysis. Dynamic Analysis Report Text is linked to a specific layer used in the project analysis.
    - Static Structure: always displayed in the report, regardless of the results of the analysis.
    - **Project Type**: text displayed within the project report is dependent on the Project Type defined within the Project.
  - **Project Type**: this only applies when **Project Type** is selected from the *Type* dropdown. Indicate all Project Types to which the text should apply.

• **Body**: indicate the text to display in the project report

Create Report Text
Title * Enter a title that is most meaningful to you.
Disclaimer
Type * Select the relevant category.
Static Structure Text
Body
🗐 Source 🛷 🛅 😭 🍓 🚓 🍌 👭 🏨 🧮 🗮 🕸
<b>B</b> $I \ \ \square \ \ \square \ \ X_2 \ \ X_2 \ \ \square \ \ \ \square \ \ \ \square \ \ \ \square \ \ \square \ \ \square \ \ \ \square \ \ \square \ \ \ \square \ \ \ \square \ \ \ \square \ \ \ \square \ \ \ \square \ \ \ \ \square \ \ \ \square \ \ \ \ \ \square \$
<ol> <li>Changes.</li> <li>This is a preliminary environmental screening tool. It is not a substitute for the potential knowledge gained by havi This review is also not intended to replace environmental consultation (including federal consultation under the En Department's review of site-specific projects.</li> <li>The Department's Heritage Data Management System (HDMS) data is not intended to include potential distributio with plants, animals, and environmental conditions that are ever changing. Consequently, many areas may contai previously noted in a particular area may no longer occur there. HDMS data contains information about species of Department. Not all of Arizona has been surveyed for special status species, and surveys that have been conducte may reveal previously undocumented population of species of special concern.</li> <li>HabiMap™ Arizona data, specifically Species of Greatest Conservation Need (SGCN) under our State Wildlife Action Recreational Importance (SERI), represent potential species distribution models for the State of Arizona which are The status of a wildlife resource can change quickly, and the availability of new data will necessitate a refined assisted.</li> </ol>
body of li
Switch to plain text editor

3. Click **Save** 

at the bottom of the page to save the changes.

4. At the top of the page, a message is displayed indicating that the Layer has been created successfully.

Report Text Disclaimer has been created.

Save

5. Submit a ticket to the **ERT Help Desk** indicating the Title of the Static Structure report text and where it should be included in the project report.

### Edit

- 1. Within the *Static Structure Report Texts* page, click the **Title** of the text to view.
- Within the Static Structure Report Text Details page, click the Edit menu.
   Save
   Make the desired edits and click Save at the bottom of the page to save the changes.
   At the top of the page, a message is displayed indicating that the Report Text has been successfully updated.

Report Text disclaimer-indemnification has been updated.

back to top

### Delete

1. Within the *Static Structure Report Texts* page, click the **Title** of the text to view.

2.	Within the <i>Static Structure Report Text Details</i> page, click	the <b>Edit</b>	Edit	menu.
		Dele	te	
2.	Within the <i>Edit Report Text</i> page, click the <b>Delete</b> button delete the Layer.			at the bottom of the page to

3. A prompt appears confirming that the layer should be deleted. Click **Delete** to confirm or **Cancel** to cancel the deletion.

Are you sure you want to delete Disclaimer			
View	Edit		
This action	on canr	not be undone.	
Delet	e C	Cancel	

4. At the top of the page, a message is displayed indicating that the Layer has been successfully deleted.

Report Text Disclaimer has been deleted.

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### **Related Topics:**

- Dynamic Analysis
- Project Type

# Project Type Recommendations

This functionality allows users assigned the Administrator Role the ability to find, sort, view, and create **Project Type Recommendations**.

**Project Type Recommendations** included in the project report corresponds to that identified by the client when creating the project. **Static Structure** report text is always displayed in the report, regardless of the results of the analysis. In contrast, **Dynamic Analysis** report text are displayed within the project report only when a feature within the layer is identified during the project analysis. Dynamic Analysis Report Text is linked to a specific layer used in the project analysis.

- View
- Create
- Edit
- Delete

### Steps:

- 1. From the *Admin* menu, within the *Report Texts* section, select **Project Type**.
- 2. Within the *Project Type Report Texts* page, all Project Type report texts are listed.
  - Filter the report texts by **Title, Nickname** or **Report Text Language** by selecting a comparison type from the dropdown menu and typing in search text within the corresponding box. Click **Apply**



. NOTE: To remove the filter, delete the filter criteria from the text box and click

Apply.		
Project Type Rep	oort Texts	
Create Report Text		
Title	Nickname	Report Text Language
Contains	Contains 🔽	Contains
	Aquaculture	
Title Report Te	ext Language	
No Docur	nented Occurrences of Special Sta	tus Species
analysis-results- No specia	I status species were documented as o	ccurring within the proj

• Sort Project Type report text in ascending order by clicking on the desired heading (i.e. **Nickname**).

• Click on the same heading (i.e. **Nickname**), a second time, to sort in descending order.

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20	<b>U</b> IX	~~		P .

### View

Within the Project Type Report Texts page, click the **Title** of the text to view.

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### Create

- 1. Within the *Project Type Report Texts* page, click **Create Report Text** to create new text for inclusion in the project report.
- 2. Within the *Create Report Text* page, enter:
  - **Title**: create a meaningful title for yourself. This title will not be displayed within the report
  - **Type**: from the dropdown menu, select the type of report text this applies to:
    - Dynamic Analysis: only displayed within the project report when a feature within the given layer detects a conflict during the project analysis. Dynamic Analysis Report Text is linked to a specific layer used in the project analysis.
    - **Project Type**: always displayed in the report, regardless of the results of the analysis.
    - **Project Type**: text displayed within the project report is dependent on the Project Type defined within the Project.
  - **Project Type**: this only applies when **Project Type** is selected from the *Type* dropdown. Indicate all Project Types to which the text should apply.

 $\circ~~\textbf{Body}:$  indicate the text to display in the project report

Create Report Text
Title * Enter a title that is most meaningful to you.
PT-10101
Type * Select the relevant category.
Project Type Text
Project Type Select as many project types as are applicable.
□ Agricultural Operations
Aquaculture
Construction of new facilities or hatchery
Maintenance or expansion of existing facilities or hatcheries
E Farming Operations (crops)
Livestock Operations/Management
Communication
🖽 Development Outside Municipalities (Rural Development)
🖽 Development Within Municipalities (Urban Growth)
Energy Storage/Production/Transfer
🖽 Forest, Woodland, Vegetation Management
Habitat Conservation and Restoration
Conservation easement
Dam removal
Disease research and monitoring (pathogens/parasites)
Exotic tree/shrub removal

Save

3. Click Save

- at the bottom of the page to save the changes.
- 4. At the top of the page, a message is displayed indicating that the Layer has been created successfully.

Report Text PT-10101 has been created.

### Edit

- 1. Within the *Project Type Report Texts* page, click the **Title** of the text to view.
- Within the Project Type Report Text Details page, click the Edit menu.
   Make the desired edits and click Save at the bottom of the page to save the changes.
- 4. At the top of the page, a message is displayed indicating that the Report Text has been successfully updated.

Report Text PT-1 has been updated.

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### Delete

1. Within the *Project Type Report Texts* page, click the **Title** of the text to view.

		Edit	
2.	Within the Project Type Report Text Details page, click the Edit		menu.

- 3. Within the *Edit Report Text* page, click the **Delete** button delete the Layer.
- 4. A prompt appears confirming that the layer should be deleted. Click **Delete** to confirm or **Cancel** to cancel the deletion.

Delete

Are you sure you want to delete PT-10101				
View	Edit			
This action	cannot be undone.			
Delete	Cancel			

5. At the top of the page, a message is displayed indicating that the Layer has been successfully deleted.

Report Text PT-10101 has been deleted.

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### Related Topics:

- Dynamic Analysis
- Static Structure

### Analysis Layers

This functionality allows users assigned the Administrator Role the ability to find, sort, view, and create **Analysis Layers** within the system. Analysis Layers are used within the spatial analysis to detect conflicts between a project boundary and the analysis layer. Unlike **Layers**, Analysis Layers are not displayed within the Map.

- View
- Create
- Edit
- Delete

### Steps:

- 1. From the Admin menu, within the Analysis Layer Rules section, select Analysis Layers.
- 2. Within the Analysis Layers page, all Analysis Layers are listed.
  - Filter the Analysis Layers by **Title** by selecting a comparison type from the dropdown menu and typing

in search text within the corresponding box. Click **Apply** delete the filter criteria from the text box and click **Apply**.

- Sort Layers in ascending order by clicking on the desired heading (i.e. **Report Text**).
- Click on the same heading (i.e. **Report Text**), a second time, to sort in descending order.

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### View

Within the *Analysis Layers* page, click the **Title** to view the Analysis Layer Details.

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### Create

- 1. Within the *Analysis Layers* page, click **Create Analysis Layer** to create a new Analysis Layer for inclusion in the analysis.
- 2. Within the Create Analysis Layer page, enter:
  - Title
  - Analysis Layer Name: the name of the Analysis Layer;

### Apply

### . **NOTE**: To remove the filter,

### *(*; **, ,**

### 1.

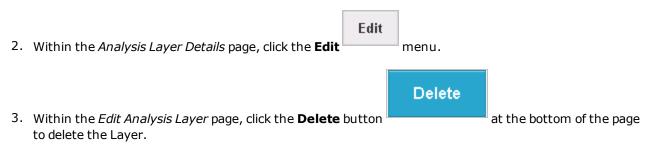
• **Report Text Link**: select the **Dynamic Analysis** report text to be included in the report when a conflict is detected with this analysis layer.

	Create Analysis Layer
	Title *
	Enter a title that is most meaningful to you.
	Important Bird Areas
	Analysis Layer Name * The layer name <b>must</b> be the same name as the output layer name as defined by the Review Analysis GIS <u>(</u>
	Important Bird Areas
	Report Text Link (optional) Select the name of the Report Text to be related to this layer.
	Important Bird Areas
	Save
	Click Save At the bottom of the page to save the changes. At the top of the page, a message is displayed indicating that the Layer has been created successfully. Analysis Layer Important Bird Areas has been created.
	back to top
F	dit
1.	Within the Analysis Layers page, click the <b>Title</b> of the layer to edit.
2.	Within the Analysis Layer Details page, click the Edit menu.
3.	Make the desired edits and click <b>Save</b> at the bottom of the page to save the changes.
4.	At the top of the page, a message is displayed indicating that the Layer has been successfully updated.
	Analysis Layer Important Bird Areas has been updated.

#### back to top

### Delete

1. Within the *Analysis Layers* page, click the **Title** of the appropriate analysis layer.



4. A prompt appears confirming that the layer should be deleted. Click **Delete** to confirm or **Cancel** to cancel the deletion.

Are	you	sure	you	want	to	delete	Imp	ortani	t Bird
View	Edit								
This action	on canı	not be und	one.						
Delet	te 🤇	Cancel							

5. At the top of the page, a message is displayed indicating that the Layer has been successfully deleted.

Analysis Layer Important Bird Areas has been deleted.

back to top

**Related Topics:** 

- Analysis Layer Attribute
- Dynamic Analysis
- Layer Group
- Layers

### Analysis Layer Attribute

This functionality allows users assigned the Administrator Role the ability to find, sort, view, and create **Ana-Iysis Layer Attributes** within the system. One or more **Analysis Layer Attribute** is defined for each **Ana-Iysis Layer**. The Analysis Layer Attribute value(s) is reported when the spatial analysis detects conflicts between a project boundary and the Analysis Layer. **NOTE**: The Analysis Layer has to currently exist in the system. If not, then prior to creating an Analysis Layer Attribute, **Create Analysis Layer**.

- View
- Create
- Edit
- Delete

#### View

- 1. From the *Admin* menu, within the *Analysis Layer Rules* section, select **Analysis Layer Attributes**.
- 2. Within the *Analysis Layer Attributes* page, all configured Analysis Layer Attributes are listed.
- 3. Filter the Analysis Layer Attributes by **Title** or **Intersection Attribute** by selecting a comparison type from the dropdown menu and typing in search text within the corresponding box. Click **Apply**



**NOTE**: To remove the filter, delete the filter criteria from the text box and click **Apply**.

Title		Intersection Attribute		
Contains	*	Contains	*	
				Apply

4. Click the **Title** to view the Analysis Layer Attribute Details.

Title	Intersection Attribute	Analysis Layer
ERLayer AGENCY_ID	Agency_ID	ERLayer
ERLayer INSTRUCTION_I	D Instruction_ID	ERLayer

back to top

### Create

- 1. From the *Admin* menu, within the *Analysis Layer Rules* section, select **Analysis Layer Attributes**.
- 2. Within the Analysis Layer Attributes page, click Create Analysis Layer Attribute

Create Analysis Layer Attribute to create a new Analysis Layer Attribute for inclusion in the ana-

lysis.

- 3. Within the Create Analysis Layer Attribute page, enter:
  - Title
  - Analysis Layer Link: from the dropdown menu, select the Analysis Layer with which the attribute is associated; NOTE: If the attribute is associated with a new Analysis layer, Create Analysis Layer first.

• **Intersection Attribute**: enter the exact layer attribute name (case sensitive!) to be used in the analysis, as defined within the layer's table. The attribute value will be included in the report when a conflict is detected with this analysis layer. **NOTE**: Within the map service details, the various attributes associated with a layer can be found within the **Fields** section of the **layer page**.

Title * <u>Enter a title that</u>	is most meaningful to you.
Critical Habitat	
Analysis Layer L Select the name	ink* of the Analysis Layer related to this attribute.
Critical Habita	
Intersection Attril	
Intersection Attril Define the <b>exact</b>	oute *

5. At the top of the page, a message is displayed indicating that the Layer has been created successfully.

Analysis Layer Attribute Critical Habitat has been created.

#### back to top

### Edit

- 1. From the Admin menu, within the Analysis Layer Rules section, select Analysis Layer Attributes.
- 2. Within the Analysis Layer Attributes page, click the **Title** of the layer to edit.
- 3. Within the *Analysis Layer Attributes Details* page, click the **Edit** menu.

4. Make the desired edits and click **Save** at the bottom of the page to save the changes.

5. At the top of the page, a message is displayed indicating that the Layer has been successfully updated.

Analysis Layer Attribute Critical Habitat has been updated.

	bac	k to	top
--	-----	------	-----

### Delete

- 1. From the *Admin* menu, within the *Analysis Layer Rules* section, select **Analysis Layer Attributes**.
- 2. Within the *Analysis Layer Attributes* page, click the **Title** of the layer to edit.

3.	Within the Analysis Layer Attributes Details page, click the <b>Edit</b> menu.					
	Delete					
4.	Within the <i>Edit Analysis Layer Attribute</i> page, click the <b>Delete</b> button at the bottom of the page to delete the Layer.					
5.	A prompt appears confirming that the attribute should be deleted. Click <b>Delete</b> to confirm or <b>Cancel</b> to cancel the deletion.					
	Are you sure you want to delete Critical Habitat					
	View Edit					
	This action cannot be undone.					
	Delete Cancel					

6. At the top of the page, a message is displayed indicating that the Attribute has been successfully deleted.

Analysis Layer Attribute Critical Habitat has been deleted.

back to top

### **Related Topics:**

- Analysis Layer
- Layer Group
- Layers

Apply

### Analysis Layer Triggers

This functionality allows users assigned the Administrator Role the ability to find, sort, view, and create **Ana-Iysis Layer Triggers** within the system. One or more **Analysis Layer Triggers** can be defined for each **Ana-Iysis Layer Attribute**. The Report Text associated with the Analysis Layer Trigger is included in the Project Report when the specified Intersection Attribute Value defined within the Trigger is returned by the spatial analysis upon detecting a conflict between a project boundary and the **Analysis Layer** for which the Analysis Layer Attribute is defined.

**NOTE**: Both the **Analysis Layer** and the **Analysis Layer Attribute** have to currently exist in the system in order to configure an Analysis Layer Trigger. If not, then prior to creating an Analysis Layer Trigger, **Create Analysis Layer** and **Create Analysis Layer Attribute**.

- View
- Create
- Edit
- Delete

### View

- 1. From the Admin menu, within the Analysis Layer Rules section, select Analysis Layer Triggers.
- 2. Within the *Analysis Layer Triggers* page, all configured Analysis Layer Triggers are listed.
- 3. Filter the Analysis Layer Attributes by **Title** or **Intersection Attribute Value** by selecting a comparison type from the dropdown menu and typing in search text within the corresponding box. Click **Apply**

Apply	. <b>NOTE</b> : To remove the filter, delete the filter criter	ia from the text box and click <b>Apply</b> .
Title	Intersection Attribute	e Value
Contains	Contains	~

4. Click the **Title** to view the Analysis Layer Trigger Details.

Title	Intersection Attribute Value	Analysis Layer Attribute	Report Text
ERLayer ADA	ADA	ERLayer AGENCY_ID	AZ Department of Agriculture
ERLayer BUOW	BUOW	ERLayer INSTRUCTION_ID	Western Burrowing Owl
ERLayer TORT	TORT	ERLayer INSTRUCTION_ID	Sonoran Desert Tortoise
ERLayer USFWS	USFWS	ERLayer AGENCY_ID	US Fish and Wildlife Service

### Create

- 1. From the *Admin* menu, within the *Analysis Layer Rules* section, select **Analysis Layer Attributes**.
- 2. Within the Analysis Layer Attributes page, click Create Analysis Layer Trigger

Create Analysis Layer Trigger

to create a new Analysis Layer Trigger for inclusion in the analysis.

- 3. Within the *Create Analysis Layer Trigger* page, enter:
  - Title
  - Analysis Layer Attribute Link: from the dropdown menu, select the Analysis Layer Attribute with which the trigger is associated; NOTE: If the attribute is associated with a new Analysis Layer Attribute, Create Analysis Layer Attribute first.
  - **Intersection Attribute Value**: enter the exact layer attribute value (case sensitive!) to be used in the analysis, as defined within the layer's table. When this attribute value is encountered during analysis, the Report
  - Report Text Link: from the dropdown menu, select the Dynamic Analysis Report Text to be included in the report when the Intersection Attribute Value is encountered during the analysis.
     NOTE: If the desired Dynamic Analysis Report Text doesn't yet exist, Create Report Text.

# Create Analysis Layer Trigger

Title \*

Enter a title that is most meaningful to you.

ERLayer WOLF

Analysis Layer Attribute Link \* Select the name of the Analysis Layer Attribute for this trigger. ERLayer INSTRUCTION ID

Intersection Attribute Value \* Define the **exact** trigger value related to the layer attribute.

WOLF

Report Text Link \* Select the name of the Report Text to be related to this trigger. Mexican Gray Wolf

Save

4. Click Save

at the bottom of the page to save the changes.

5. At the top of the page, a message is displayed indicating that the Layer has been created successfully.

Analysis Layer Trigger ERLayer WOLF has been created.

### Edit

- 1. From the *Admin* menu, within the *Analysis Layer Rules* section, select **Analysis Layer Triggers**.
- 2. Within the Analysis Layer Triggers page, click the **Title** of the layer to edit.
- 3. Within the Analysis Layer Triggers Details page, click the **Edit** menu.
- 4. Make the desired edits and click **Save**
- at the bottom of the page to save the changes.

Edit

Delete

5. At the top of the page, a message is displayed indicating that the Layer has been successfully updated.

Save

Analysis Layer Trigger ERLayer WOLF has been updated.

	-			
2/		to	top	•
av		LU LU	LU1	

### Delete

- 1. From the *Admin* menu, within the *Analysis Layer Rules* section, select **Analysis Layer Triggers**.
- 2. Within the *Analysis Layer Triggers* page, click the **Title** of the layer to edit.
- 3. Within the *Analysis Layer Triggers Details* page, click the **Edit** menu.
- 4. Within the *Edit Analysis Layer Trigger* page, click the **Delete** page to delete the Layer.

button at the bottom of the

5. A prompt appears confirming that the trigger should be deleted. Click **Delete** to confirm or **Cancel** to cancel the deletion.

Are	you	sure you want to delete ERLayer	WOLF?
View	Edit		
This action	on canno	ot be undone.	
Delet	ie C	ancel	

6. At the top of the page, a message is displayed indicating that the Trigger has been successfully deleted.

Analysis Layer Trigger ERLayer WOLF has been deleted.

back to top

### **Related Topics:**

- Analysis Layer
- Analysis Layer Attribute
- Layer Group
- Layers

### Layer Group

This functionality allows users assigned the Administrator Role the ability to find, sort, view, and create **Layer Groups** within the system.

As displayed in the screenshot below, **Layer Groups** are used within the *Layers* tab of the **Map** to segregate different layer types.

		<b>rizon</b> NAGING TO	a Gal	VILDLIFE T	<b>Fish</b> OMORROW
Home	Мар	My Projects	All Projects	Admin 🖕	Terms & Conditions
🗊 Switch Ba	semap (	Add Resources	🕑 Create Project		
Layers N	1ake a	Map Featu	re Search	< Mark	
▼ Projects					
Project Submissions			A A	EAT	
✓ Environmental Review			Carso City	NEVADA	
		al Review Layer :ure Concern			
▼ Special Areas			Acres 195		
Critical Habitat				MtWhitney	

- View
- Create
- Edit
- Delete

### Steps:

- 1. From the *Admin* menu, within the *Visualization Layers* section, select **Layer Group**.
- 2. Within the *Layer Group* page, all Layer Groups are listed.
  - Filter the Layer Groups by Layer Group Title by selecting a comparison type from the dropdown

menu and typing in search text within the corresponding box. Click **Apply** 

. **NOTE**: To

Apply

		<b>izona</b> Aging tod		
Home	Мар	My Projects	All Projects	Admin 🖕
Layer		oup Adr	ninistr	ation
Layer Grou Contains	ıp Title	Ŧ	Apply	
HabiMap Layer Gre	oup Title	Display O	rder	
Environme HabiMan	ental Revi	iew 2		

remove the filter, delete the filter criteria from the text box and click **Apply**.

- Sort Layer Groups in ascending order by clicking on the desired heading (i.e. **Display Order**).
- Click on the same heading (i.e. **Display Order**), a second time, to sort in descending order.

#### View

To view the Layer Group Details, click the Layer Group Title .

### Create

- 1. Within the *Layer Group* page, click **Create Layer Group** to create a new Layer Group for inclusion in the Map.
- 2. Within the *Create Layer Group* page, enter the **Layer Group Title**, as it should be displayed in the *Layers* tab.
- 3. Indicate where the Layer Group should be displayed within the *Layers* tab by indicating the **Display Order**.



at the bottom of the page to save the changes.

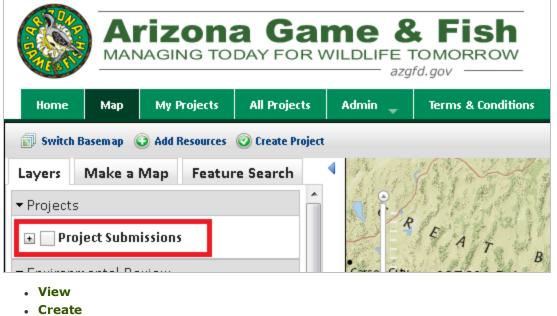
5. At the top of the page, a message is displayed indicating that the Layer Group has been created successfully.

	back to top
E	dit
1.	Within the Layer page, click the Layer Group Title of the layer to edit.
	Edit
2.	Within the Layer Details page, click the <b>Edit</b> menu.
	Save
3.	Make the desired edits and click <b>Save</b> at the bottom of the page to save the changes.
4.	At the top of the page, a message is displayed indicating that the Layer Group has been successfully updated.
	Layer Special Areas has been updated.
	back to top
C	Delete
1.	Within the <i>Layer</i> page, click the <b>Layer Title</b> for the appropriate layer.
2.	Within the <i>Layer Details</i> page, click the <b>Edit</b> menu.
	Delete
3.	Within the <i>Edit Layer Group</i> page, click the <b>Delete</b> button at the bottom of the page to delete the Layer.
4.	A prompt appears confirming that the layer group should be deleted. Click <b>Delete</b> to confirm or <b>Cancel</b> to cancel the deletion.
5.	At the top of the page, a message is displayed indicating that the Layer has been successfully deleted.
	Layer Another Test has been deleted.
	back to top

• Layer

### Layers

This functionality allows users assigned the Administrator Role the ability to find, sort, view, and create **Layers** for display within the *Layers* tab of the **Map**, as shown below. Unlike Analysis Layers, Layers are used only for display, not within the spatial analysis to detect conflicts with a project boundary.



- Edit
- Delete

### Steps:

- 1. From the Admin menu, within the Visualization Layers section, select Layers.
- 2. Within the *Layers* page, all Layers are listed.
  - Filter the Layers by Layer Title by selecting a comparison type from the dropdown menu and typing in



		izona	Gam AY FOR WILL	e & I	IORROW
Home	Мар	My Projects	All Projects	Admin 🖕	Terms & Co
Layer		ministra	ation		
Layer Title Contains	!	•	Apply		
Critical Ha	bitat			I	
Laver Titl	<u>م</u>		Laver Grou	15	Display

delete the filter criteria from the text box and click **Apply**.

- Sort Layers in ascending order by clicking on the desired heading (i.e. Layer Group).
- Click on the same heading (i.e. Layer Group), a second time, to sort in descending order.

back to top

### View

Within the Layers page, click the Layer Title to view the Layer Details.

#### back to top

### Create

- 1. Within the Layers page, click **Create Layer** to create a new Layer for inclusion in the Map.
- 2. Within the Create Layer page, enter:
  - Layer Title: as it should be displayed in the Layers tab;
  - **Layer Group**: from the dropdown menu, select the Layer Group in which the Layer should be included;
  - **Display Order**: indicate where the Layer should be displayed within the Layer Group;
  - **URL**: of the published map service
  - **Default Visible**: mark the checkbox if the Layer should be visible in the Map by default.
  - Use Filter: mark the checkbox if the Filter tool should be enabled for the Layer;
  - **Find JSON**: code which defines the configuration of the Layer for use by the Feature Search tool. By default all visible fields will be available via a text search. Customization requires this field to be con-

figured accordingly.

Cr	eate Layer
	r Title *
	r the name to display in the layer catalog.
Imp	ortant Bird Areas
	r Group *
	of the Layer Catalog group within which this layer should be placed.
She	ecial Areas
Displ	ay Order *
Usec	to sort the Layer for display (ascending numerical order)
2	
URL	*
Web	map service URL
http	s://azdev.natureserve.org/arcgis/rest/services/AZ_Public/ImportantBirdAreas/MapServer
E Us Find Wan	Whether the layer is turned on by default when the map is loaded se Filter Warning! Use caution when setting this field. JSON hing! This field provides for very powerful customization of the functionality present in the map layer cat log are very well understood.
[{	og are very well understood.
	ime: "Important Bird Areas",
Ş	Save
	Save
Save	at the bottom of the page to save the changes.
ie top o	of the page, a message is displayed indicating that the Layer has been created successfully.
yer m	nportant Bird Areas has been created.

back to top

at the bottom of the page to delete

### Edit

- 1. Within the *Layers* page, click the **Layer Title** of the layer to edit.
- 2. Within the *Layer Details* page, click the **Edit** menu.
  3. Make the desired edits and click **Save** at the bottom of the page to save the changes.
  4. At the top of the page, a message is displayed indicating that the Layer has been successfully updated.

### Delete

the Layer.

- 1. Within the *Layers* page, click the **Layer Title** for the appropriate layer.
- 2. Within the *Layer Details* page, click the **Edit** menu.
- 4. A prompt appears confirming that the layer should be deleted. Click **Delete** to confirm or **Cancel** to cancel the deletion.

Are you sure you want to delete Another Test?
View Edit
This action cannot be undone.
Delete Cancel

5. At the top of the page, a message is displayed indicating that the Layer has been successfully deleted.

Layer Another Test has been deleted.

3. Within the Edit Layer page, click the Delete button

### **Related Topics:**

• Layer Group

# **Email Templates**

This functionality allows users assigned the Administrator Role the ability to view and edit the Email Templates used by the system to **email** Users regarding a specific project and upon completion of the review process.

## Steps:

- 1. From the Admin menu, select Email Templates.
- 2. Within the *Email Templates* page, the two templates are listed.
  - **project-email-template**: email text sent to client upon submitting a project, including the project details;
  - review-complete-external: email text sent to client upon completion of project analysis;
- 5. Click the **Title** to view the template.

Email Templates		
Title	Body	
project-email-template	Dear [node:field_ertcore_contact_name], Project: [node:title] Project ID: [node:field_ertcore_project_id] Date Submitted: [node:created:short] On Behalf Of: [node:field_ertcore_on_behalf_of] Organization: [node:field_ertcore_organization] Project Description: [node:field_ertcore_project_desc] Project Status: [node:field_ertcore_project_status] (insert text	
review-complete-external	Dear [user:name], An initial review of your project, entitled [node:title], has been completed. The result If natural	

6. The template is displayed within the *Email Templates Details* page.

Edit

- 7. To edit the template, click the *Edit* 
  - a. Edit the Subject and/or Body of the email template as desired. NOTE: [node:...] denotes a Token Replacement which will be autopopulated with the appropriate value. A list of the Token Replacements available for use can be found by clicking the link above the Subject.

menu.

Title *	
project-email-template	
Token Replacements Please refer to site admininstration help for token usage.	

- View changes
- Click View Changes

to view the edits made to the project.

Original		CI	hanges
	n: [node:field_ertcore_project_desc] trong> [node:field_ertcore_project_status]	+++++++++++++++++++++++++++++++++++++++	<strong>Project <strong>Project <strong>Bo <ol> <li> One</li> <li> Two</li> </ol> <li> Ul&gt; Sullet</li> </strong></strong></strong>
Sincerely, [user:field_ertcore_first]	_name] [user:field_ertcore_last_name] 		Sincerely, <br [user:field_e
Preview	to preview the changes.		

- b. Click the **Save** button to save the edits.
- c. At the top of the *Email Template Details* page, a message is displayed indicating that the Layer has been created successfully.

Email Template project-email-template has been updated.

Save

# **Project Types**

This functionality allows users assigned the Administrator Role the ability to configure the list of Project Types available when submitting a Project. After creating a new Project Type, it needs to be associated with a **Project Type Recommendation**. Either edit an existing Project Type Recommendation or create a new one.

- Search
- Add
- Re-order
- Disable
- Go to term page

# Search

- 1. From the Admin menu, within the Report Texts section, select Project Types.
- 2. Within the *Project Types* page, click the **Search** ods include:
- 🔍 Search

button within the Toolbar. Search meth-

- Search all Project Types
- Search specific Project Types

### Search all Project Types

a. Enter a **Search String** to search throughout all Project Types. Results matching the Search String are automatically displayed.

	Toolbar
	▲ Up ↓ Down ↓ Add  Search
	Search
	You can search directly for exisiting terms. If your input doesn't match an existing term, it will be use non-hierarchical vocabularies).
	Search String
	forest
	Forest Stewardship Plan
	Forest, Woodland, Vegetation Management
	Pesticide applications for forest pests (gypsy moth, bark beetle, etc.)
	Search X Cancel
<ul> <li>▲ Up</li> <li>▲ Add</li> <li>Search</li> <li>Search directly for exisiting terms. If your input doesn't match an existing term, it will be us non-hierarchical vocabularies).</li> <li>Search String</li> <li>forest</li> <li>Forest Stewardship Plan</li> <li>Forest, Woodland, Vegetation Management</li> <li>Pesticide applications for forest pests (gypsy moth, bark beetle, etc.)</li> </ul>	

b. Select the desired Project Type from the dropdown list and click the **Search** button within the *Search* section.

### back to top

### Search Specific Project Types

a. To search within specific Project Types, enter a **Search String** and indicate the Project Types in which to search within the *Project Type* tree.

		Search	
b.	Mark the checkbox to <b>Search under selected terms and</b> click the <b>Search</b>		but-
	ton within the Search section.		

Search	
non-hierarchical vocabularies).	iting terms. If your input doesn't match an existing term, it will be use
Search String	
forest	
Search options	
Search under selected terms	
Search 🗱 Cancel	

c. The results will be displayed within a new page. Within the *Project Type* section, select the Project Type of interest.

**NOTE**: Click **Show unfiltered tree** within the header message to return to the full *Project Types* page.

4. The selected Project Type is displayed within the Project Type tree along with its details.

Forest Stewardshi
Name *
Forest Stewardship P
Buffer Value
5
0
Buffer Unit
Miles
Disabled
District
Save changes
Go to the term page

5. The details of the Project Type are editable, including **Name**, **Buffer Value**, and **Buffer Unit**. The Project Type can also be **Disabled** such that it will no longer be a Project Type option when a User submits a Project.

Save changes

- 6. If edits are made, Save Changes
- 7. A message will be displayed indicating that the term data has been updated.

Updated term data

#### back to top

## Add Project Type

1. From the *Admin* menu, within the *Report Texts* section, select **Project Types**.

2. Within the *Project Types* page, navigate to the section within the Project Type tree to add the new Project Type. Mark the level under which the Project Type should be added.

Toolbar
🛧 Up 🗣 Down 🛖 Add 🔍 Search
Project Type 🕼 🗰
Agricultural Operations
Aquaculture
Construction of new facilities or hatchery
Maintenance or expansion of existing facilities or hatcheries
Earming Operations (crons)

3. Click Add

within the *Toolbar* section.

4. Within the *Add new terms* section, enter the name of the new Project Type under **Terms**. Click **Add**.

 Add new terms
If you have selected one or more terms in the tree view, the new terms are automatically children of the
Terms
Wetland Filtration System
One term per line. Child terms can be prefixed with a dash '-' (one dash per hierarchy level). Terms that should to be wrapped in double quotes. Example: animals canine dog wolf -feline cat

5. A message will be displayed indicating that the term has been added.

Terms added: Wetland Filtration System

- 6. By default, the Buffer distance for the Project Type is set to **1** Mile. To edit this, select the Project Type within the tree to display its details.
- 7. The details of the Project Type are editable, including **Name**, **Buffer Value**, and **Buffer Unit**. The Project Type can also be **Disabled** such that it will no longer be a Project Type option when a User submits a Project.



- 8. If edits are made, Save Changes
- 9. A message will be displayed indicating that the term data has been updated.

Updated term data

#### back to top

# **Re-order Project Types**

- 1. From the *Admin* menu, within the *Report Texts* section, select **Project Types**.
- 2. Within the *Project Types* page, **search** for the desired Project type or navigate to the section within the Project Type tree.
- 3. There are two ways to re-order the entries within the Project Type tree:
  - $\,\circ\,\,$  Mark the checkbox of the term within the tree to re-order and click the Up  $^{igsim}$

and Down



buttons within the *Toolbar* section, as appropriate.

• Hover over the desired Project Type within the tree to access the controls to re-order the term within

the tree (move up 🕋 or move down 巷).
Project Type 🕼 🗰
부 <sup>ロ</sup> Agricultural Operations
P <sup>⊡</sup> Aquaculture
Construction of new facilities or hatchery
Maintenance or expansion of existing facilities or hatcheries
Wetland Filtration System

# Disable Project Type

- 1. From the *Admin* menu, within the *Report Texts* section, select **Project Types**.
- 2. Within the *Project Types* page, **search** for the desired Project type or navigate to the section within the Project Type tree.
- 3. Click the desired Project Type to display its details.
- 4. Within the details section, indicate that it should be **Disabled**.

Wetland Filtration System (280)	*
Name *	
Wetland Filtration System	
Buffer Value	
1	
Buffer Unit	
Miles	~
Disabled	
Save changes	
Co to the term page	

Save changes

- 5. Save Changes
- 6. A message will be displayed indicating that the term data has been updated.



# Go to Term Page

- 1. From the *Admin* menu, within the *Report Texts* section, select **Project Types**.
- 2. Within the *Project Types* page, **search** for the desired Project type or navigate to the section within the Project Type tree.
  - Hover over the desired Project Type within the tree to access the controls and click the Go to term page

icon.
Project Type 🕼 🗱
Agricultural Operations
<sup>⊕</sup> ⊡ Aquaculture
Construction of new facilities or hatchery
Maintenance or expansion of existing facilities or hatcheries
Wetland Filtration System
Farming Operations (crops)
University Constant Management

- Alternatively, click the desired Project Type to display its details.
  - Within the details, click **Go to the term page**.

*

**Related Topics:** 

Project Type Recommendations

# **Terms & Conditions**

This functionality allows users assigned the Administrator Role the ability to:

- Edit the Terms & Conditions
- View the Version History
- View Accept Dates which indicates when Users have accepted the various versions of the Terms & Conditions

## Edit

- 1. From the *Admin* menu, select **Terms & Conditions**.
- 2. Within the *Terms & Conditions* page, edit as desired.

### Preview

3. Click **Preview** to preview the changes.

Save

- 4. Click the **Save** button to save the edits.
- 5. At the top of the *Terms & Conditions* page, a message is displayed indicating that the changes have been saved successfully.

#### back to top

## Version History

- 1. From the *Admin* menu, select **Terms & Conditions**.
- 2. Within the Terms & Conditions page, click the Version History

Version History button.

3. The text of each version of the Terms & Conditions is displayed along with the **Version** number and **Date Added**.

## Accept Dates

- 1. From the Admin menu, select Terms & Conditions.
- 2. Within the Terms & Conditions page, click the Accept Dates

3. The **User ID**, **Version** accepted by the user, and **Date Accepted** is displayed.

#### back to top

# **View Site Reports**

Delete this text and replace it with your own content.

# **Create New Account**

## Steps:

1. Within the *Home* page, click **Create New Account**. Alternatively, click **Register** in the top right corner of any page.

Accept Dates	
	button.

2. Within the *User account* page, supply the required information (denoted by red asterisks \*).

https://azdev.natureserve	.org/user/register		р - 🔒 🕈 💽 Не
<u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	<u>H</u> elp		
Arizona En	vironmental Rev	/iew Tool (De	ev)
lome Map			
Home > User account			
Create new account	Log in Request new	password	
E-mail *			
whitney_weber@natureserve.	org		
A valid e-mail address. All e-mails fro Salutation Good day, matey!	n the system will be sent to this addre	ss. The e-mail address is not m	ade public and will only be used i
First name *			
Whitney			
Last name *			

a. Once the form is filled out, read and Accept Terms & Conditions of Use

	Accept Terms & Condit	tions of Use *	
		Create new account	
b.	Click Create new account		at the bottom of the page.
b.	• • • •		er instructions have been sent to the t the email address is valid and min-

A welcome message with further instructions has been sent to your e-mail address.

- 3. Open the email and click on the link provided to activate the new account.
- 4. Within the *Reset password* page, click the **Log in**

Log in button.

a. Create a new password and confirm it.

	nmental Review To	ool (Dev)
me Map		
Home > whitney1weber		
whitney1weber		
You have just used your one-t	time login link. It is no longer necessary	/ to use this link to log in. Please cha
View Edit		
E-mail address *		
whitney_weber@natureserve.org		
A valid e-mail address. All e-mails from the syst	tem will be sent to this address. The e-mail ad	ddress is not made public and will only be u
Password	Decouvered attace with:	Cond
•••••	Password strength:	Good
Confirm password		
	Passwords match: yes	
•••••		
To make your password stronger:		
To make your password stronger:		

- a. If desired, upload a picture and set the locale **Time zone**.
- b. Click Save

Save

at the bottom of the form.

c. A message will appear at the top of the page indicating the changes have been saved; the new account is now enabled.



The changes have been saved.

5. Proceed to the desired menu to begin working.

### back to top

### **Related Topics**

- Log In
- Log Out
- My account
- Request new password

# Log In

## Steps:

1. Within the *Home* page, enter your **E-mail** and **Password**.

Home	Мар		
User	login		
E-mail *			
:ber@n	atureserv	e.org	
Passwor	rd *	<u></u>	
• Cr	Create new account		
• Re	quest ne	w password	
Log in			

- 2. Click the **Log in**
- 3. Once logged in, proceed to the desired menu to begin working.

button.

### **Related Topics**

- Create new account
- Log Out
- My account
- Request new password

# Log Out

### Steps:

- 1. From any page, click **Log out** in the upper right corner.
- 2. You will be returned to the *Home* page.

### **Related Topics**

- Create new account
- Log In
- My account
- Request new password

# **My Account**

Allows user to update account settings, including **Password**.

## Steps:

- 1. From any page, click **My account** in the upper right corner.
- 2. Within your account page, click the **Edit** button to modify your user settings.

Edit

• To change the **E-mail address** or **Password** associated with the account, enter the **Current Password**.

**NOTE**: If you have forgotten your password, click **Request new password** under the **Current password** text box.

3. Click Save

at the bottom of the form.

4. A message will appear at the top of the page indicating the changes have been saved; the new account is now enabled.

```
Ø
```

The changes have been saved.

5. Proceed to the desired menu to begin working.

#### back to top

### **Related Topics**

- Create new account
- Log in
- Log out
- Request new password

# **Request new password**

### Steps:

- 1. Within the *Home* page, click **Request new password**.
- 2. In the User account page, enter the E-mail associated with your account and click E-mail new pass-

vord		
User Detail	s: Us	er account
Create new account	Log in	Request new password
E-mail *		
E-mail * whitney_weber@natures	serve.org	

3. A message will be displayed indicating that further instructions have been sent to the e-mail address entered.



- 4. Open the email and click on the link provided to activate the new account.
- 5. Within the *Reset password* page, click the **Log in** button.

a. Create a new password and confirm it.

ne Map		
Home > whitney1weber		
whitney1weber		
uniticy in cool		
You have just used your one-t	time login link. It is no longer necessar	y to use this link to log in. Please
View Edit		
E-mail address *		
whitney_weber@natureserve.org		
whitney_weber@natureserve.org A valid e-mail address. All e-mails from the sys	tem will be sent to this address. The e-mail a	ddress is not made public and will only
	tem will be sent to this address. The e-mail a	ddress is not made public and will only
A valid e-mail address. All e-mails from the sys Password		
A valid e-mail address. All e-mails from the sys Password	tem will be sent to this address. The e-mail a Password strength:	ddress is not made public and will onl
A valid e-mail address. All e-mails from the sys Password	Password strength:	
A valid e-mail address. All e-mails from the sys Password		
A valid e-mail address. All e-mails from the sys Password Confirm password	Password strength:	
A valid e-mail address. All e-mails from the sys Password Confirm password	Password strength:	
A valid e-mail address. All e-mails from the sys Password Confirm password	Password strength:	

- b. If desired, upload a picture and set the locale **Time zone**.
- c. Click Save

at the bottom of the form.

d. A message will appear at the top of the page indicating the changes have been saved; the new account is now enabled.



The changes have been saved.

Save

6. Proceed to the desired menu to begin working.

### back to top

# **Related Topics**

- Create new account
- Log In
- Log out
- My account

# Мар

The tabs within the Map can be minimized by clicking the Close Pane 🚺 icon to the right of the tabs. To display

the tabs, click the Open Pane icon. The active tab, or the tab currently in use at any given time, is shown in white.

The Map includes options to:

- Switch Basemap
- Add Resources
- Create a Project
- Alter Layers
- Make a Map
- Perform a Feature Search

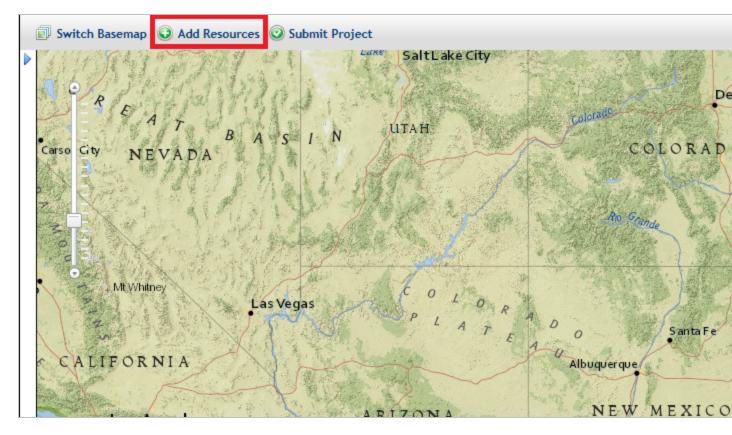
# **Add Resources**

Content can be added to the map viewer from:

- a map service (via its **URL**)
- File (current file type only includes shapefile)

# Steps:

1. Within the map, click the **Add Resources**<sup>1</sup> button, located in the upper left corner of the map title bar.



2. The resulting *Add Resource* dialog provides options to add resources to the map, either a map service via its **URL** or a shape**File**.

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## URL:

Both Map Services and Image Services published on ArcGIS Online, on GIS servers that are available on a local machine or network, or from servers publicly available on the Internet are available for use. Cached services must be in the WGS 84 Web Mercator (Auxiliary Sphere) projection, because ArcGIS Server cannot reproject cached services, and use the standard scale levels supported by Google, Bing, and ESRI's arcgis.com. To test the map service prior to adding it to the map viewer, see the **Test Map Service** help topic.

**NOTE**: Cached map services published through ArcGIS Online do not support all of the capabilities of cached map services published through ArcGIS Server. Since the underlying data is not retained, the Identify tool is not supported.

- a. On the Add Resource dialog, select the **URL** radio button, if not already selected.
- Enter the URL of Mapservice to Add (i.e., http://services.nationalmap.gov/ArcGIS/rest/services/USGSTopoLarge/MapServer).
- c. Enter a Unique Title for Resource.



d. Click Add Mapservice

button to add the service to the map.

**NOTE**: If the map service is not protected, the following prompt will be displayed. Click **Yes** to continue.

**NOTE**: If the map service does not successfully add to the map (i.e. the spinner spins endlessly and the map service is not added to the map viewer or a **Register Layer Failed: RequestTimeout** error is

received, consult the **Test Map Service** help topic.

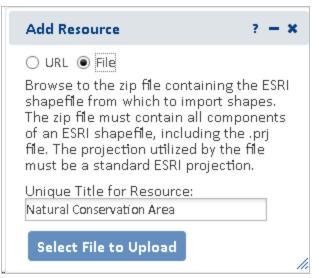


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### File:

Current functionality only allows for shapefiles to be added. The shapefile, including all component files, must be zipped into a zip file with no additional directories or files. A valid .prj file must be included in the zip file. Maximum file size not to exceed 2 GB.

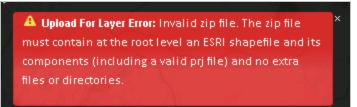
- a. On the Add Resource dialog select the File radio button, if not already selected.
- b. Enter a Unique Title for Resource.



Select File to Upload

and navigate to the file containing

- c. Click **Select File to Upload** button the layer to add to the map viewer.
- d. If the uploaded zip file does not contain all components of the shapefile, including a valid .prj file, the following error will be displayed:



### back to top

3. To remove a map service from the map, click on the dropdown icon to the right of the resource in the *Map Resources* dialog and choose **Remove**.

▼ Added Resources	
▶ Projects	Transparency ► Zoom To
✓ Environmental Review	
Couises mental Deview Lave	View Details

### back to top

### Related Topics:

- Feature Search
- Map Resources
- Map Services
- Test Map Service
- Using Insecure Map Services

# Map Services

The following overview of map services includes some things to keep in mind when investigating map services published by you or others, that you may wish to add.

- Projection
- Cached Map Services
- Dynamic Map Services
- Comparison: Cached vs. Dynamic Map Services

### Projection

The Map displays data using the WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere (EPSG code/spatial reference ID 3857) projection, which is the map projection used by most online basemap services, including ArcGIS, Bing,

and Google. Any map services that will be displayed as reference layers must be capable of being displayed in this projection. Dynamic ArcGIS map services can be reprojected on-the-fly; however, this does negatively impact performance. Performance will be best if you use map services published in the Web Mercator projection. Cached map services are typically only available in the projection in which they were cached.

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### Cached Map Services

The best way to create fast map services is to cache them. With a cached map service, the server draws the map at a set of predefined scale levels and saves the images. When the server receives a request for a map, it's much quicker to return one of these cached images than to draw the map again. Caching is appropriate for basemaps and maps that don't change often.

- Benefit:
  - improved performance
- Limitation:
  - does not allow filtering
  - does not allow layer visibility to be altered (ie. can't be turned on or off)
  - Cached map services published from ArcGIS Online will not be available with the Filter, Identify, or Feature Search tools.
- Projection: Must use same projection as basemaps ArcGIS Server cannot reproject cached services.
  - WGS 84 Web Mercator (Auxiliary Sphere) projection enables the map services to be used in conjunction with any of the major online base maps (Esri, Bing, Google).
  - Cached services in the WGS 84 Web Mercator (Auxiliary Sphere) projection will provide the best performance
  - Cached maps must use the standard scale levels supported by Google, Bing, and ESRI's arcgis.com.
  - If cached services are in a different projection, they can be created as dynamic services, which will allow them to be reprojected; however, we don't know enough about the underlying data sets to know what performance will be like. It's possible that this won't be sufficient, and you'll still need to provide cached services in the target projection.
- It is not necessary to reproject all of the individual layers but just alter the projection of the map documents. Then republish the map documents as a second service (second to what you're using for your purposes), and build the cache.

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### Dynamic map services

Layers published as dynamic map services can be rescaled and re-projected on the fly.

- Benefit:
  - Allows filtering
  - Allows layer visibility to be altered (ie. can be turned on or off)
- Limitation:
  - $\circ~$  Decreased performance because needs to draw map on the fly
- Projection: any projection for which there is a built-in Esri transformation from the source projection to the target projection. This can be verified through ArcMap if ArcMap can handle it, it should be fine. Performance will be better, though, if the source projection already matches the target projection.
- Operations Allowed: when publishing the map service, indicate **Map**, **Query**, and **Data** as *Operations Allowed* or not all the tools indicated below will be available for use with the map service.

#### Comparison: Cached vs. Dynamic map services

	Cached	Dynamic
Application	Base maps	Reference Layers
Performance	Improved performance	Decreased performance because needs to draw map on the fly
Projection	<ul> <li>Typically cannot be reprojected</li> </ul>	<ul> <li>Can be <u>reprojected</u> on the fly</li> <li><u>Reprojection</u> negatively affects performance</li> </ul>
Limitations	<ul> <li>Alter visibility of layers</li> <li>Filter</li> <li>Copy</li> </ul>	<ul> <li>Alter visibility of layers</li> <li>Filter</li> <li>Copy</li> </ul>

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#### **Related Topics:**

- Add Resources
- Test Map Service
- Using Insecure Map Services

## **Test Map Service**

Prior to adding a map service, test the map service to verify it functions. If the map service is not functioning, it will not work in Arizona Environmental Review Tool.

Indications that the map service may not be functioning include:

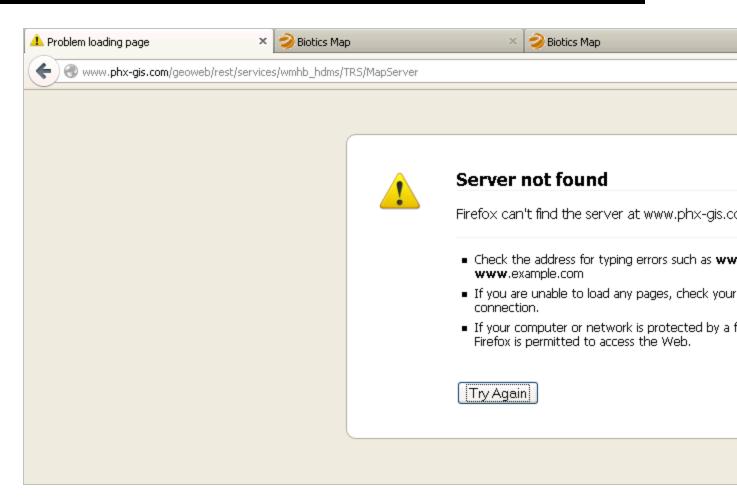
- the spinner spinning non-stop and the map service never adding to the map viewer
- the following type of error is received: Register Layer Failed: RequestTimeoutError... This error indic-

ates that the map service is not available.



### Steps:

1. Copy the URL of the map service into a web browser. If an error, such as that shown below, is received the map service is not functioning correctly - contact the host of the map service to resolve it. In this state, the map service will not work within Arizona Environmental Review Tool.

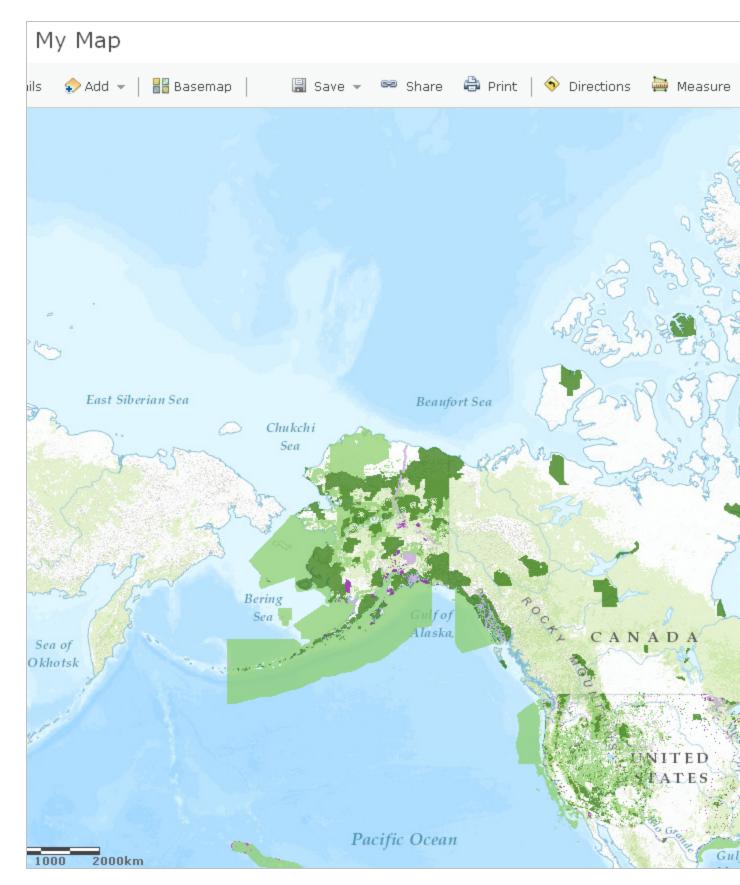


2. If you connect to the map service details successfully (as shown below), then the map service exists.



3. Within the map service details window (shown above) of the *ArcGIS Rest Services Directory*, click the **ArcGIS.com Map** link to verify that the map service is functional in the ArcGIS.com Map. If it does not work in the ArcGIS.com Map, it will not work in Arizona Environmental Review Tool.

**NOTE**: You may need to log in to ArcGIS.com to view the map service.



4. Once successfully tested in the ArcGIS.com Map, as shown above, add the map service to the Biotics 5 map viewer via the **Add Resource** tool.

#### **Related Topics:**

- Add Resources
- Map Services
- Using Insecure Map Services

# Using Insecure Map Services

The URL you have provided is to a map service not protected by SSL and you should first try adding this URL with the 'https:' prefix instead of 'http:'. If you continue to add an insecure service, it may be blocked by the browser. If not blocked, the browser will treat this page as insecure, and give a warning.

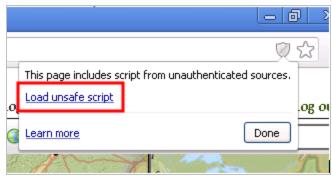
- Google Chrome
- Firefox
- Internet Explorer

### Google Chrome

Chrome opens a very subtle shield icon, shown in the screenshot below, when attempting to add a map service to the map. At first glance the user may mistake this for the map viewer not working properly when it's the actually due to the way the browser treats insecure map services.

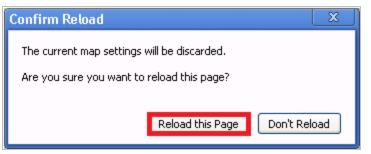
	- 0 ×
	<ul><li>☑ ☆</li><li></li></ul>
This page includes script from unaut	henticated sources.
Logged in as nature • Personal Settings	<ul> <li>Log out</li> </ul>
🕕 🏥 🖹 📐   💭 🕥 🚱 🐑   🥜 Tools 👻 🔍	
s m	232

- 1. To load the map service, click the shield icon, which displays a second message.
- 2. Within the message indicating that the page includes scrip from unauthenticated sources. click the link to **Load unsafe script**.



3. In the subsequent *Confirm Reload* dialog, click **Reload this Page**. This will reload the map viewer page in a mode that allows mixed content to be used. This has the unfortunate side effect of clearing out what has

been previously done in the map viewer, so the map service will need to be added again.



This time the map service is added, but the URL bar shows a warning that the page contains insecure content. This warning continues to be present if the user navigates away from the map viewer to other pages or open up the full record pages in new windows.

The browser only performs these behaviors for the first map service that's added insecurely, and the warning message will indicate what needs to be done. No further warnings or prompts will be given upon adding subsequent insecure map services.

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### Firefox

1. Click the small gray and white shield icon at the far left of the URL box near the top of the browser window.



2. Within the dialog which opens upon clicking the shield, select **Disable Protection on This Page**.

🗲 💽 🔒 htt	ps://bioticsme.natureserve.org/biotic	s/services/page/map.htr	nl
20	Firefox has blocked content that is	sn't secure.	× ata Exchange
	Most websites will still work proper content is blocked.	ly even when this	
	Learn more		V
		Keep <u>B</u> locking 💌	11 12
	and Kanada and	Disable Protection	on This Page
Ē	The second second	× Not Now	

3. Then, click **Leave Page** to allow the page to load again with the map resources enabled.

**NOTE**: You will have to do this every time you open the Map Viewer, even in the same Biotics session.

### **Internet Explorer**

- 1. From the *Tools* menu, select **Internet Options**.
- 2. Within the *Internet Options* dialog, on the *Security* tab, select the **Trusted sites** zone and click the **Sites** button.
- 3. Add all web domains generating this error message to the **Trusted Sites** list, including **\*.natureserve.org**. *WARNING*: don't do this with domains you don't trust or are not sure about.
- 4. Close the *Trusted sites* dialog.
- 5. Back in the *Internet Options* dialog, still in the *Security* tab, with the **Trusted sites** zone selected, click the **Custom Level** button.
- 6. Within the *Security Settings Trusted Sites Zone* dialog, scroll down to the *Miscellaneous* options (almost half way down), and set the *Display mixed content* to **Enable**.
- 7. Click **OK** to save changes within the Security Settings Trusted Sites Zone dialog.
- 8. Click **OK** to save changes within the *Internet Options* dialog.
- 9. Exit and re-start Internet Explorer.

**NOTE**: this setting allows IE to display content using both https and http protocols in a mixed environment, and should only be used with trusted web domains. Malicious content from unsecured (http) domains could potentially compromise data from secure (https) domains with which it is mixed

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#### Related Topics:

Add Resources

# **Create Project**

Create Project can be initiated on its own or after adding features to the map within the Make a Map section.

- use the Draw/Edit toolbar
- use features drawn via Make a Map

# Draw/Edit toolbar

- 1. Within the Map, click Create Project
- 2. The *Draw/Edit* toolbar opens.
- 3. Use the various tools available within the **Draw/Edit** toolbar to define the spatial parameters of the project area.

🕜 Create Project

4. Continue to the *Create Project* dialog.

# Make a Map

- 🕜 Create Project
- 1. Within the Map, click Create Project
- 2. A prompt will ask if you would like to copy some or all of the shapes to create the project boundary. Click **Yes** to use the shapes previously drawn or **No** to utilize the **Draw/Edit toolbar**.

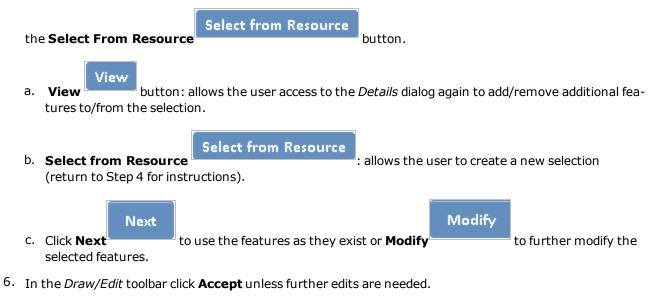
Copy Make a Map Shapes?	- ×
Make a Map shapes were for you like to copy some or all o your project?	
Ye	s No

3. The Details dialog of the Make a Map feature(s) are displayed. To remove a feature from the selection, from the Tasks menu, select Remove from Include List. Once removed, the option to Add to Include List becomes available in the Tasks menu.

Details (1 of 5): Annotation	? <b>– x</b>
Layer: Annotations No Details to Display	
Zoom Flash < > 1 - /5 Tasks -	
Remove from Inc	lude List

4. After completing the selection of which features to include, close the *Details* dialog using the in the upper right corner.

5. Within the Additional Mapping Options dialog, the number of features selected is displayed to the right of



7. Continue to the *Create Project* dialog.

# **Create Project**

1. After clicking **Accept** in the *Draw/Edit* toolbar, the *Create Project* dialog opens.

Create Project		
Project Title *		
User Project Number An (optional) organization-specific project number for user tracking purposes.		
Project Type * Select only one Project Type per project —		
Agricultural Operations		
Communication		
🔝 Development Outside Municipalities (Rural Development)		
🗈 Development Within Municipalities (Urban Growth)		
Energy Storage/Production/Transfer		
🗈 Forest, Woodland, Vegetation Management		
Habitat Conservation and Restoration		
🖾 Hazardous Waste Cleanup, site remediation, and reclamation		
Law Enforcement Activities Associated with the Border		
🖸 Military Activities		
🗈 Mining		
🗈 Pest Control		
Recreation Areas		

- 2. Within the *Create Project* dialog, enter the following information to describe the project. **NOTE**: required fields are labeled with a red asterisk \*.
  - **Project Title\*** title which will help to distinguish it from other project submissions
  - Project Type\*
  - Project Description\* succinctly describe the proposed work within the project area (i.e. residential subdivision)
  - On Behalf Of

- Contact information this data will be auto-populated according to the information associated with the logged in user. Change as appropriate. The e-mail will be used to notify the logged in user once the review has been completed.
- File attachments such as photographs, survey documents, site plans, etc. can be uploaded and

attached to the project form. Browse to the desired file(s) and then click Upload

. **NOTE**: Files must be less than 2 MB in size. Only files with the following extensions may be uplloaded: jpg, jpeg, gif, png, txt, docx, xlsx.

Submit

5. Click Submit

to submit the project for review.

6. A message will be displayed indicating that the project has been successfully submitted and that the results will be e-mailed to the address provided.

Thank you for submitting your project for review. A notification email will be sent once the automated review is complete. Depending on system this may take up to 10 minutes.

- 7. Navigate to the *My Projects* menu to view the **Submission Status** of each of your projects.
- 8. After the initial review of the project has been completed, an e-mail containing a link to the project report is sent. Click on the link within the e-mail to view the project report. Alternatively, access the project report via **My Projects**.

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### **Related Topics:**

- Draw/Edit toolbar
- Edit Project
- Make a Map
- My Projects
- View Project

## Draw/Edit

The *Draw/Edit* toolbar opens automatically upon choosing to **Create a Project** or add a spatial feature via **Make a Map**.



If accessed via **Create a Project** and the map is not zoomed in closer than 1:72,224, only the **Upload Shapes** tool will be available. To access the other draw tools, zoom in to 1:72,224 or closer using the **Scale Bar** or **Zoom to Coordinates or Scale** tool.

Draw/Edit – 🗙
🚺 /2 🖻 🕄 🗖 /3 🕼 🗇 🖻 💼 🔍 🔅 🗸
Cancel Accept
Zoom in closer than 1:72,224 to draw your project. Or, upload a zipped ESRI
shapefile at any scale.

A number of different tools are provided on the *Draw/Edit* toolbar, enabling various actions ranging from digitizing a shape, to moving boundaries, to removing an area from within feature, to buffering a polygon. Some of these tasks require different modes, which are displayed on the lower left of the toolbar.

- Draw Shape
- Edit Shape:
  - Edit Geometries
  - Erase Inside Drawn Area
  - Crop Outside Drawn Area
- Upload Shapes
- Buffer Shape
- Additional Mapping Options:
  - Map Layers
  - Make a Map
  - Coordinates
  - **Drawing** a point or line feature(s)
- Other Draw/Edit Tools:
  - Undo
  - Redo
  - Clear Shape
  - Draw Settings
    - Use Freehand
    - Disable Navigation while Drawing

## Draw Shape

The default tool within the *Draw/Edit* toolbar, **Draw Shape**, is limited to drawing polygonal features. To digitize a point or line feature(s), utilize the **Drawing** option within the **Additional Mapping Options** tool.

1. Features can be digitized using either the default drawing tool, which utilizes vertices, or a freehand tool.

#### Use default Draw Shape tool:

- a. If not already in Draw mode, click the **Draw Shape** icon.
- b. Single click to draw a point.
- c. For lines and polygons, click every location a vertex is to be placed and double-click to complete feature.

#### Use Freehand drawing tool:

- a. From the Draw Settings dropdown, select Use Freehand.
- b. Holding down the mouse button, draw the feature.
- c. Release the mouse button to finish digitizing the feature.
- 2. Click **Accept** to complete the feature.

Alternatively, use the edit tools described in the following sections to make changes to the feature before clicking **Accept** to save.

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### Edit Shape

.

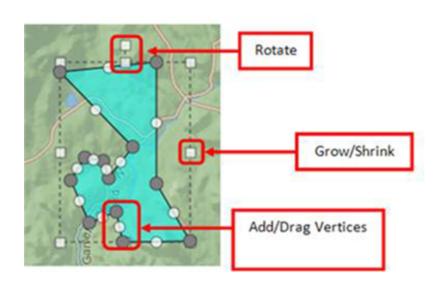
### Edit Entire Shape and/or Vertices

1. Enter Edit mode by clicking the **Edit Shape** icon.

The vertices and extent of the feature will be displayed.

- 2. Edit feature by:
  - Dragging, rotating, expanding, or shrinking the entire feature; and/or by

• Adding, deleting, or dragging vertices.







### Erase Inside Drawn Area

- 1. Enter Erase mode by clicking the **Erase Inside Drawn Area** icon.
- 2. Digitize a polygon circumscribing the area to be cut from the feature by single-clicking to add each vertex, and double-clicking to complete the polygon.

The area circumscribed by the polygon will be clipped from the original feature.

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### Crop Outside Drawn Area

- 1. Enter Crop mode by clicking the **Crop Outside Drawn Area** icon.
- 2. Digitize a polygon that contains the portion of the feature to be retained, by single-clicking to add each vertex, and double-clicking to complete the polygon.

The area within the polygon drawn in Crop mode will be retained, while that portion of the feature outside the polygon will be deleted.

Polygon drawn overlapping feature... area of feature within polygon remains after cropping.



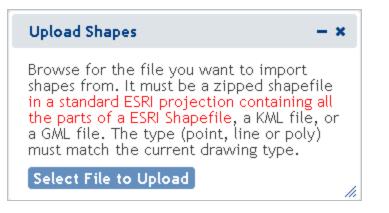
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## Upload Shapes

Current functionality allows for ESRI shapefiles to be added. To upload a shapefile, all component files must be zipped into a zip file with no additional directories or files. A valid .prj file must be included in the zip file. Maximum file size not to exceed 2 GB.

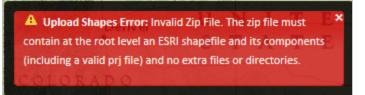
Select File to Upload

- 1. Enter *Upload Shapes* mode by clicking the Upload Shapes icon.
- 2. Within the Upload Shapes dialog, click Select File to Upload

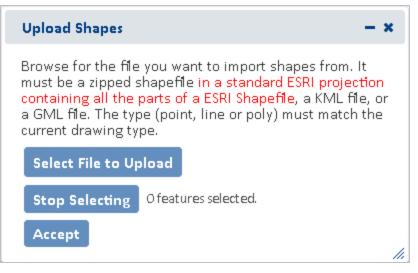


3. Navigate to and select the shapefile to add.

**NOTE**: The following message will appear if a projection file (.prj) is not included in the zip file.



- 4. The map will zoom to the extent of the spatial feature(s) within the uploaded file.
  - a. If a file with multiple shapes has been selected, draw a box on the map to select the desired feature(s) within the uploaded layer.

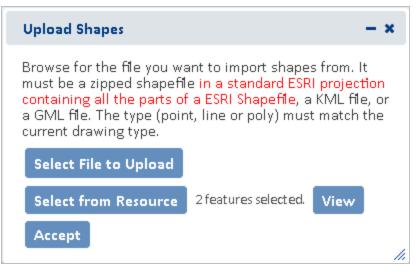


b. The *Details* dialog of the selected feature(s) will be displayed. To remove a feature from the selection, from the *Tasks* menu, select **Remove from Include List**. Once removed, the option to **Add to** 

Include List becomes available in the Tasks menu.

Details: Annotation (2 of 2)	-	×
<b>Layer:</b> Upload No Details to Display		
Zoom Flash < > 2 - /2 Tasks -		
Remove from Inclu	de Lis	t

C. The number of features selected will be displayed in the section to the right of the Select From Resource button along with a View button, which allows the user access to the Details dialog again if they need to remove additional features from the selection. Alternatively, create a new selection by clicking the Select from Resource button again (return to Step 4a for instructions).



- d. Click **Accept** within the *Upload Shapes* dialog.
- 5. In the *Draw/Edit* toolbar click **Accept**.

### **Buffer Shape**

The Buffer Shape tool can be used in conjunction with the **Draw Shape** tool or **Additional Mapping Options**.

- 1. Either draw a shape using the **Draw Shape** tool or create a shape using the **Additional Mapping Options** tool.
- 2. Enter Buffer mode by clicking the **Buffer Shape** icon.
- 3. In the *Buffer* dialog, enter a buffer *Distance* and select the desired distance unit from the dropdown. Click **Buffer**.

#### Use of Buffers

A positive distance will buffer outside the feature whereas a negative distance will buffer within the feature. Negative distances cannot exceed the size of the shape, nor can they be used with Point or Line features. The following error will be displayed when the negative distance exceeds the size of the shape.

Invalid Buffer Value: The buffer distance exceeded the solution of the feature, resulting in an empty geometry. Please use a smaller buffer distance.
 Find address or place

- Buffers are additive. Thus, if one distance is used to buffer a polygon and then another distance is entered, the second buffer will be added to the first buffer rather than to the original feature. For example, if a feature is first buffered by 5000 m, and then a second buffer distance of 2500 m is specified, the original feature ends up being buffered by 7500 m; the second distance does not replace the first.
- To apply different buffers to a polygon without combining them, <sup>1</sup> **Undo Last Drawing Change** must be used before specifying the second buffer distance. This will cause the original buffer to be removed prior to applying the second.
- 4. The buffer will be applied and the user is returned to the *Draw/Edit* toolbar to further modify the feature, if desired. Click **Next** to continue the process.

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## Additional Mapping Options

The Additional Mapping Options dialog allows the user to:

- copy a shape from Map Layers
- copy shapes created via Make a Map
- enter Coordinates
- create a Drawing

This tool can be used reiteratively for multiple edits and use of various tools within a given editing session. As such, the *Additional Mapping Options To:* is used to indicate how to use the new shape:

Add to original drawing

- Replace original drawing
- Erase areas of overlap
- Crop to copied feature

Following are the instances when this dialog will be displayed:

- If there is a drawing in the primary draw toolbar whose feature type (point, line, polygon) is the same as the current shape, then the **Add to original drawing** and **Replace original drawing** options will be available.
- If there is a drawing in the primary draw toolbar and the feature type of the current shape is a polygon, then the **Erase areas of overlap** and **Crop to copied feature** options will be available.
- If the feature type of the drawing in the primary draw toolbar is polygon, as is that of the current shape, then all 4 options will be available.

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### Map Layers

1. Click the Additional Mapping Options



- 2. In the Additional Mapping Options dialog, from the Source dropdown menu, select **Map Layers**.
- 3. From the *Resource* dropdown menu, select the map resource from which to copy the shape(s). The options depend on the layers available within the **Layers** section of the map.

**NOTE**: If the chosen Resource is comprised of multiple layers, an additional *Layer* dropdown list will be displayed from which to select the given layer to copy the shape(s).

Additiona	l Mapping Opt	tions		? <b>– x</b>	
Source:	Map Layers				
Resource:	Project Subm	Project Submissions			
Select fr	om Resource	Ofeatures	selected.		
		Cancel	Modify	Next	

- 4. Click the **Select from Resource** button and holding the mouse button down, draw a box on the map to select the desired feature(s) within the Resource/Layer.
- 5. The Details dialog of the selected feature(s) will be displayed. To remove a feature from the selection, from the Tasks menu, select Remove from Include List. Once removed, the option to Add to Include List

becomes available in the *Tasks* menu.

Details: References - 12: Small Watershed (HUC 12) - 150200120306 (1 of 2)	- *
Layer: References Sub-Layer: 12: Small Watershed (HUC 12) HUC 12: 150200120306 HUC_8: 15020012 HUC_4: 1502	
Zoom Flash < > 1 - /2 Tasks - Remove from Inclue	de List

- 6. The number of features selected will be displayed to the right of the Select From Resource button along
  - View

with a **View** button, which allows the user access to the *Details* dialog again if they need to remove additional features from the selection. Alternatively, create a new selection by clicking the **Select from Resource** button again (return to Step 4 for instructions).

Additiona	l Mapping Options	? <b>– x</b>
Source:	Map Layers 👻	
Resource:	Project Submissions 👻	
Select fr	om Resource 3 features selected. Vi	ew
	Cancel Modify	Next

- 7. To further modify the selected features, click **Modify** or **Next** to use the features as they exist.
- 8. In the *Draw/Edit* toolbar click **Accept** unless further edits are needed.

#### back to top

### Make a Map

- 1. Click the Additional Mapping Options
- 2. In the Additional Mapping Options dialog, from the Source dropdown menu, select Make a Map.

icon.

3. Click the **Select from Resource** button and click on the desired feature(s).

Addition	al Mapping Op	tions		? <b>– x</b>
Source:	Make a Map			
Select f	from Resource	0 features	selected.	
		Cancel	Modify	Next

4. The number of features selected will be displayed in the Spatial Search section to the right of the *Select From Resource* button along with a **View** button, which allows the user access to the *Details* dialog again if they need to remove additional features from the selection. Alternatively, create a new selection by clicking the **Select from Resource** button again (return to Step 2 for instructions).

Details: Annotation (2 of 2)	- ×
Layer: Upload No Details to Display	
Zoom Flash < > 2 v/2 Tasks v	14
Remove from	m Include List

5. To further modify the selected features, click **Modify** or **Next** to use the features as they exist.

Addition	al Mapping Opt	tions		? <b>– x</b>
Source:	Make a Map			
Select	from Resource	3 features :	selected. Viev	N
		Cancel	Modify	Next
				<i>[i</i> ,

6. In the *Draw/Edit* toolbar click **Accept** unless further edits are needed.

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### Coordinates

- 1. Click the Additional Mapping Options icon.
- 2. In the Additional Mapping Options dialog, from the Source dropdown menu, select **Coordinates**.
- 3. Select the desired **Projection** and enter in the formats shown:
  - Latitude/Longitude (DMS)
    - Latitude (Northing): 42d 42' 44"
    - Longitude (Easting): -75d 38' 38"
  - Latitude/Longitude (Decimal)
    - Latitude (Northing): 42.712326430204115
    - Longitude (Easting): -75.64402639639827
  - **Subnational Projection** the projection used by your HP/CDC within the Biotics application. Contact your Biotics Administrator for further information.
  - Define Projection

NOTE: WKID and WKT values can be found at http://www.spatialreference.org

- By Well Known ID (WKID): 3857
  - Latitude (Northing): 5268287
  - Longitude (Easting): -8420654.5
- By Well Known Text (WKT):

The WKT can be copied directly from a projection file (.prj). Below is an example.

PROJCS["WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere",GEOGCS["GCS\_WGS\_1984",DATUM ["D\_WGS\_1984",SPHEROID["WGS\_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Mercator\_Auxiliary\_ Sphere"],PARAMETER["False\_Easting",0.0],PARAMETER["False\_Northing",0.0],PARAMETER ["Central\_Meridian",0.0],PARAMETER["Standard\_Parallel\_1",0.0],PARAMETER["Auxiliary\_ Sphere\_Type",0.0],UNIT["Meter",1.0],AUTHORITY["ESRI","102100"]]

• Latitude (Northing): 5268287

• Longitude (Easting): -8420654.5

Additional	Mapping Options ? - ×
Source:	Coordinates 👻
Projection:	Define Projection 👻
Define By:	By Well Known Text (WKT) 🛛 👻
OGCS["GC D["WGS_1 nwich",0.0 TION["Mer sting",0.0], "Central_N ,0.0],PARA	n String: VGS_1984_Web_Mercator_Auxiliary_Sphere",GE S_WGS_1984",DATUM["D_WGS_1984",SPHEROI 984",6378137.0,298.257223563]],PRIMEM["Gree ],UNIT["Degree",0.0174532925199433]],PROJEC rcator_Auxiliary_Sphere"],PARAMETER["False_Ea ,PARAMETER["False_Northing",0.0],PARAMETER[ Meridian",0.0],PARAMETER["Standard_Parallel_1" METER["Auxiliary_Sphere_Type",0.0],UNIT["Met JTHORITY["ESRI","102100"]]
Latitude (N	
Longitude (	Easting): -12581114.003746616
✓ Click the	Map for Coordinates
Zoom an	d Preview
	Cancel Modify Next

#### 4. Click Zoom and Preview.

- 5. To further modify the selected features click, **Modify** or **Next** to use the features as they exist.
- 6. In the *Draw/Edit* toolbar click **Next** unless further edits are needed.

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### Drawing

This option enables drawing of any feature type (Point, Line, Polygon) whereas the default **Draw Shape** tool within the Draw/Edit toolbar is limited to polygonal features.

- 1. Click the Additional Mapping Options icon.
- 2. In the Additional Mapping Options dialog, from the Source dropdown menu, select **Drawing**.

3. From the *Type* dropdown menu, select the type of spatial feature (**Point**, **Line**, or **Polygon**) to draw and click **Next**.

Addition	al Mapping Options		? <b>- x</b>
Source:	Drawing		
Type:	Polygon		
Click Next	to access draw tool		
	Cancel	Modify	Next

- 4. The Draw shape to use as other Source dialog will be displayed. Draw the desired shape and click **Next**.
  - Single click to draw a point.
  - For lines and polygons, click every location a vertex is to be placed (unless the **Use Freehand** option is selected) and double-click to complete feature.
- 5. In the case of a line or polygon feature, the *Draw/Edit* toolbar will be displayed, allowing the user to edit the feature further. Click **Next** to continue.

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## Other Draw/Edit Tools

- Undo
- Redo
- Clear Shape
- Draw Settings

The Draw Settings dropdown menu includes two options:

- **Use Freehand** provides the ability to digitize a feature freehand rather than by clicking to add individual vertices.
- Disable Navigation while Drawing a setting that is on by default improves drawing performance by switching map navigation (i.e., pan and zoom functionality) off once the first vertex of a shape has been placed, and re-enabling navigation when the shape is closed. Leaving this draw setting enabled prevents the application from interpreting a longer touch on the cursor while digitizing as an attempt to pan, which would cause the map to be refreshed and any vertices digitized to be lost.

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### Related Topics:

- Create a Project
- Make a Map
- Scale Bar
- Zoom to Coordinates or Scale

# **Feature Search**

The Feature Search tool provides the ability to identify features in a layer, including those added to the Map via the Add Resources tool, according to criteria specified by a query.

Once a search has been completed, the search criteria is saved for your convenience. Therefore, the next time the Feature Search tab is opened, the previously used search criteria still applies. If you want to define a new



Reset

NOTE: The Feature Search option is not available for cached map services published from ArcGIS Online because such services do not support all of the capabilities of those published through ArcGIS Server.

Search for a feature based on:

- Attribute Search
- Spatial Search
- or a combination thereof

## Steps:

- 1. Within the Map, navigate to the Feature Search tab.
- 2. In the *Feature Search* tab, select the **Resource**, the layer on which the search is to be performed, from the dropdown menu.
- 3. The layer will automatically be displayed and the **Resource Visibility** checkbox indicated. **NOTE**: If the default **Resource** is the desired layer, manually indicate the **Resource Visibility** checkbox to display the layer.



3. Define search criteria according to an Attribute Search and/or designating a location in which to perform a Spatial Search.

Reset

button. 4. To clear the defined expression, click the **Reset** 

**NOTE:** A green check mark icon on a section indicates that criteria have been defined within that section of the Feature Search tab.

## Attribute Search:

The fields in the Attributes section differ according to the layer specified in **Resource** dropdown.

- a. If not already expanded, click the Attributes label to expand the section.
- b. Define the search criteria by selecting a value(s) from the various field dropdown menus.
  - Select multiple values by holding down the SHIFT key and selecting the values

• Select specific values by depressing the **CTRL** key and selecting the values.

Layers	Make a Map	Feature Search	4
Resource:	Wildlife Corrid	ors 두	
Resource V	isibility: 🗸		
✓ Attribut	e Search		1
Name:			
Select A	11	~	
Coyote -	Ironwood - Tucs	on Linkage D <mark></mark>	
Galiuro	- Pinaleno - Dos	Cabezas Link	
Gila Ber	nd - Sierra Estrell	a Linkage De 💌	

## Spatial Search:

The **Spatial Search** enables selection of *Resource* features based on their location in relation to the selected features defined within *Search By*; in an ad-hoc manner.

- a. Click **Spatial Search** to expand the accordion section.
- b. From the **Search By** dropdown, select how the search area will be defined.
  - **Box**, **Polygon**, **Point**, or **Line** digitize the search area according to the tooltip instructions.
    - ii. To re-define the search area, click the **Select by Drawing** button to digitize the search area.
    - Features from map resource:
      - i. From the *Resource* dropdown menu, select the layer from which to copy the shape(s).

**NOTE**: If the chosen Resource is comprised of multiple layers, an additional *Layer* dropdown list will be displayed from which to select the given layer to copy the shape(s).

View

i. Click the <b>Sele</b>	ect From Resourc		rom Reso	urce butto
✓ Spatial Se	earch		<ul> <li>✓</li> </ul>	
Search By:	Features from r	map reso 👻		
Resource:	Critical Habitat			
Select f	rom Resource	2 features sele	ected	
View				
📃 Use Buf	fer: 1 Mile	25	8	
Search Type:	Intersects	•		
		Search	Reset	

- iii. Holding the mouse button down, draw a box on the map to select the features within the layer.
- iv. The *Details* dialog of the selected features will be displayed. To remove a feature from the selection, within the *Details* dialog, from the *Tasks* menu select **Remove from Include List**.
- v. The number of features selected will display in the Spatial Search section to the right of **Select From Resource**.
- vi. To display the *Details* dialog of the selected features again, click the **View** button.
- c. Indicate **Use Buffer** to buffer the selected spatial feature(s). Enter the desired buffer distance and select the distance unit from the dropdown. A graphic will display the buffered area.

**NOTE**: A positive distance will buffer outside the feature whereas a negative distance will buffer within the feature. Negative distances cannot exceed the size of the shape, nor can they be used with Point or Line features. The following error will be displayed when the negative distance exceeds the size of the shape.



- d. From the **Search Type** dropdown, define how features within the **Resource** will be selected by the shape(s) specified within the Spatial Search:
  - **Intersects** selects features from the **Resource** which are crossed by or are contained within the search selection
  - **Contains** selects features from the **Resource** which are completely contained by the search selection (nothing outside the search selection).
  - Within selects features from the **Resource** which the search selection falls entirely within (nothing outside the Resource shape).

- **Touches** selects features from the **Resource** which the search selection touches, even by sharing a border or vertex.
- e. To clear the spatial graphic representing the search area, uncheck the **Show Spatial Graphic**

🗸 Show Spatial Graphic

checkbox.

### Results

7. Click Search

Search

to run the search based on the defined criteria.

8. The search results will be displayed within the **Results** accordion section at the bottom of the *Feature Search* tab.

The **Results** section provides the following functionality, which will be applied to selected records. Select/deselect records by checking/unchecking individual records. Alternatively, select/deselect all records within a level of the tree by checking/unchecking the higher level entry.

<ul> <li>✓ Results</li> <li>➡ Critical Habitat</li> <li>➡ O: Critical Habitat (10 found)</li> <li>➡ CH for Empidonax traillii extimu</li> <li>➡ CH for Lilaeopsis schaffneriana v</li> <li>➡ CH for Lithobates chiricahuensis</li> <li>➡ CH for Lithobates chiricahuensis</li> <li>➡ CH for Strix occidentalis lucida</li> <li>➡ CH for Strix occidentalis lucida</li> <li>➡ PCH for Panthera onca</li> <li>➡ PCH for Thamnophis eques meg</li> </ul>					
<	Ш	>			
Table	Details	Zoom			
Flash					

Reset

a. **Table** - displays the results within a table format. In addition to the same **Zoom** and **Flash** functionality below, the table format also enables the user to **Print to PDF**.

Name	Common Name
CH for Empidonax traillii extimus	Designated Critical Habitat for Southwestern willow flyca
CH for Lilaeopsis schaffneriana var. recurva	Designated Critical Habitat for Huachuca water umbel
CH for Lithobates chiricahuensis	Designated Critical Habitat for Chiricahua leopard frog
CH for Lithobates chiricahuensis	Designated Critical Habitat for Chiricahua leopard frog
CH for Strix occidentalis lucida	Designated Critical Habitat for Mexican spotted owl
CH for Strix occidentalis lucida	Designated Critical Habitat for Mexican spotted owl
PCH for Panthera onca	Proposed Critical Habitat for Jaguar
PCH for Thamnophis eques megalops	Proposed Critical Habitat for Northern Mexican gartersna

a. **Details** – to view the *Details* dialog of the indicated feature(s).

Zoom

- b. **Zoom** to indicated feature(s)
- c. **Flash** indicated feature(s)

**NOTE**: The search criteria is saved, for your convenience. Therefore, the next time the *Feature Search* tab is

opened, the previously used search criteria still applies. If you want to define a new search, click Reset

### back to top

### **Related Topics:**

- Add Resources
- Details

# Identify

The Identify tool is used to display the details of the geographic feature(s) or place(s) selected in the Map.

**NOTE**: The Identify tool cannot be used with cached map services published from ArcGIS Online because such services do not support all of the capabilities of those published through ArcGIS Server.

## Steps:

- 1. Within the Map, click the icon located in the upper right corner of the map title bar.
- 2. Select the desired layer from the dropdown list on the *Identify* dialog. The layer will be displayed on the map.

Identify		-	×
Select a resource and click on m	ap to identify		
Critical Habitat	-		//

**NOTE**: Cached map services published from ArcGIS Online will not be available within the dropdown list because such services do not support all of the capabilities of those published through ArcGIS Server.

- 3. Click on the feature to be identified.
- 4. The *Details* dialog displays attributes of the target feature, and uses a red callout to point to the feature, which is highlighted.

2	- ma	

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### **Related Topics:**

Details

# Layers

Within the Layers tab of the map, layers are segregated into accordion sections. These accordion sections can be

contracted by clicking the button or expanded by clicking the button. Individual layers can be made visible/invisible, their symbology displayed, transparency altered, zoomed to, and details viewed.

## Steps:

1. Within the Map, navigate to the Layers tab, if not already there.



2. Make a layer visible/invisible by clicking the checkbox left of its name.

**NOTE**: Certain layers are only visible at certain map scales. If a map is not available at a given map scale, the layer will be grayed out. To determine the minimum and maximum scale at which a scale will be displayed, **View Details**.

2. Click the icon to expand a layer to view its symbology.

Layers Map Making Find/Results
Element Occurrences
▼ Special Areas
<ul> <li>Critical Habitat</li> <li>Critical Habitat</li> <li>Special Areas</li> <li>Tribal Lands</li> <li>Wildlife Corridors</li> </ul>
▼ Basemap
✓ Basemap: National Geographic

- 3. Collapse the layer by clicking the icon.
- 4. Hover over a layer name and click the dropdown icon to the right to view the tasks available for the layer.
  - **Transparency** allows the transparency of the layer to be adjusted by sliding the indicator along the bar.
  - **Zoom To** zooms to the full extent of the layer.
  - **Remove** removes the layer from the map. **NOTE**: this option is only available for layers added by the user.
  - View Details opens the details for the layer within the ArcGIS Services Directory. If a secured service, a user name and password will be required to view the information. See the Min Scale and Max Scale values to determine a layers scale dependency.

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### **Related Topics:**

- Add Resources
- Switch Basemaps

## Details

The *Details* dialog displays the results of the **Identify** and **Feature Search** tools, and indicates the feature associated with each dialog by highlighting and pointing with a red call-out.



- **Zoom** to feature \_
- Flash feature -
- Navigate between features using Details dialogs, if more than one, by:
  - Stepping backward or forward ... through the set of dialogs
  - Selecting the desired feature dialog from the dropdown list
- Tasks menu option displays from the Feature Search
- **Remove from Include List** removes the selected feature from the list.

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### **Related Topics:**

- Feature Search
- Identify

## Filter

The Filter tool is available for specific layers. A filter can be applied to individual layers (with the exception of cached map services published from ArcGIS Online) in order to limit the features displayed on the map to those that meet the filter definition/criteria. More specific details on how to develop queries that define filter criteria (e.g., querying numbers, combining expressions, using nulls), are provided in the **Build a Query** topic.

- Create Filter
- Modify or Remove Filter

**NOTE**: The Filter option is not available for cached map services published from ArcGIS Online because such services do not support all of the capabilities of those published through ArcGIS Server.

## Create a Filter

1. Within the *Layers* tab of the **Map**, click the dropdown icon to the right of the service to be filtered and choose **Filter** from the available options.

NOTE: The Filter option is not available with cached map services, only dynamic s	services.
---	-----------

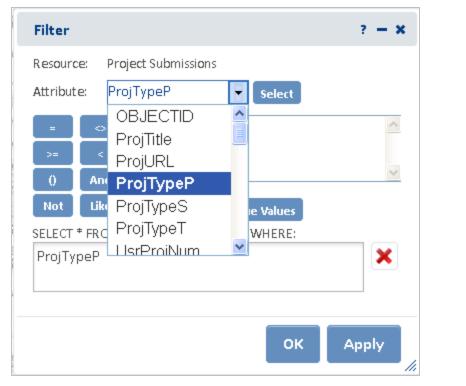
= <>   >= <    <   O And   Or     Not   Like Is   Get Unique Values   SELECT * FROM Project Submissions/O WHERE:	Resource Attribute		ect Subn JECTID	nission	s	Select	
act onique values	>=	< And	<=				~
							 ×

3. If the Resource contains multiple layers, a dropdown identifying the layers will be displayed. Select the layer to be filtered from the *Layer* dropdown list.

**NOTE**: If the Resource contains only a single layer, the *Layer* dropdown will not be displayed.



1. Select the attribute to use in the query from the *Attribute* dropdown, and then click **Select**.



- b. Click an operator (=, <>,..)
- c. To see a list of values for the attribute, click **Get Unique Values** one of the values or alternatively, type an expression directly into the query field.

Filter	? - *				
Resource: Project Attribute: ProjTy	Submissions				
= ↔ > >= < ↔	Communication Development Outside Municip				
Not     Like     Is     Get Unique Values       SELECT * FROM Project Submissions/O WHERE:       ProjTypeP = 'Agricultural Operations'					
	ОК Арріу				

Get Unique Values . Double-click

**NOTE**: If Get Unique Values returns no records for lack of data in the attribute, a message will be displayed to indicate that **No unique values were found for this attribute**.

A	Get Unique		No unique	values were found for this	οŭ
P	00	<u>а н</u>	ools 👻	Find address or place	0

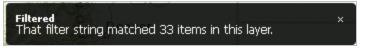
**NOTE**: If **Get Unique Values** is used on a layer with many records, the following message is likely to be displayed. Respond **Yes** to continue or **No** to cancel the search for unique values.

Get Unique Values		
There are 12518 records either take significant t fail. Would you like to c	ime or possibly c	

5. Click **Apply** to apply the filter and keep the *Filter* dialog open or click **OK** to apply the filter and close the *Filter* dialog.

**NOTE**: If there is a typographical error, or the filter has been improperly defined (i.e., 'Vascular plant' instead of 'Vascular Plant'), no records will be displayed.

The number of records resulting from the Filter will be reported.



Within the *Map Resources* dialog, **(Filtered)** will be displayed next to the service name to indicate that the service has been filtered.

Layers	Make a Map	Feature Search		
▼ Project	s			

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### Modify or Remove Filter

To change or remove a filter, in the *Layers* tab, click the dropdown icon to the right of the layer that is filtered, and choose **Filter** from the available options.



icon in the *Filter* dialog.

- To modify any part of the filter expression:
  - Place the cursor within the sequence and use either the **<Delete**> or **<Backspace**> keys to remove the desired part(s).

• Click **Apply** to apply the revised filter and keep the *Filter* dialog open, or click **OK** to apply the filter and close the *Filter* dialog.

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### Related Topics:

• Build a Query

## Build a Query

A query enables the identification of records that meet criteria specified for selected attribute(s) of a resource (layer).

- Strings
- Wildcard Characters
- Null values
- Querying numbers
- Calculations
- Operator precedence
- Combining expressions
- Querying dates

### Strings

Strings must always be enclosed within single quotes. For example:

PC\_NAME\_EN = 'Ivvavik National Park of Canada'

Strings in expressions are case sensitive. To make a case insensitive SQL search, an UPPER or LOWER function can be used to convert all values to the same case. For example, the following expression will select managed area names stored as either BIRD ISLANDS SANCTUARY or Bird Islands Sanctuary.

UPPER(MANAGED\_AR) = 'Bird Islands Sanctuary'

The LIKE operator (instead of the = operator) is used to build a partial string search. For example, the following expression would select both New Brunswick, and Newfoundland and Labrador among CA province names:

NAME Like 'Ne%'

Greater than (>), less than (<), greater than or equal (>=), less than or equal (<=), and BETWEEN operators can be used to select string values based on sorting order. For example, the expression below will select all provinces in a resource that have names starting with the letters R to Z:

NAME > = 'R'

The not equal (<>) operator can also be used in query strings.

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### Wildcard Characters

A wildcard character is a symbol that stands for one or more unknown characters.

When searching file-based data, a '%' wildcard is used to indicate that anything is acceptable in its place: one character, multiple characters, or no character. Alternatively, a '\_' wildcard is used to represent a single character in a search. For example, the expression below would select any National Park name starting with the letters Au, such as Aulavik and Auyuittuq:

PC\_NAME\_EN Like 'Au%'

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### **Null Values**

If a column (attribute) of a type that supports null values is selected, and if that column contains any null values in the records displayed in the **Values** list of the *Feature Search* dialog, the second entry from the top of the list will be ' '. Double-clicking this value will add it to the expression and, by using the = operator, the query on the column will select all records with a null value for the attribute. For example, Element Occurrence records with a null value for ELCODE would be returned with the following expression.

ELCODE = ' '

To select all records for which an attribute is not null, the <> (not equal) operator is used. The query shown below would return all occurrences that have ELCODE values, that is, where the ELCODE attribute is not null.

ELCODE <> ' '

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### Querying numbers

Numbers can be included in a query using the equal (=), not equal (<>), greater than (>), less than (<), greater than or equal to (>=), and less than or equal to (<=) operators. The example below would return the provinces having 2001 populations that were greater than 100,000.

POP\_2001 > 100000

A point is always used as the decimal delimiter regardless of regional settings. However, the comma cannot be used as a decimal or thousands delimiter in a query.

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### Calculations

Calculations can be included in queries using the arithmetic operators for addition (+), subtraction (-), multiplication (\*), and division (/).

Calculations can be performed between fields and numbers. In the example below, any feature having an area greater than or equal to its length multiplied by 100 would be returned by the query.

SHAPE\_AREA >= SHAPE\_LEN \* 100

Calculations can also be performed between fields. For example, to find the provinces with a population density of less than or equal to 25 people per square kilometer, the following expression could be used:

POP\_2001 / AREA\_KM <= 25

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### **Operator precedence**

Expressions are evaluated according to standard operator precedence rules. For example, the part of an expression enclosed in parentheses is evaluated before the part that is not enclosed.

This example:

```
HOUSEHOLDS > MALES * POP90_SQMI + AREA
```

is evaluated differently, and thus produces different results, than:

```
HOUSEHOLDS > MALES * (POP90_SQMI + AREA)
```

To use parentheses in a query expression, either click to add the parentheses and then enter the expression to be enclosed, or highlight the existing expression to be enclosed and then press the Parentheses button to enclose it.

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### Combining expressions

Expressions can be combined together with the AND and OR operators. When the AND operator is used, both of the expressions separated by the AND operator must be true for a record to be selected.

AREA\_KM > 100000 AND DWELL\_2001 < 50000

When the OR operator is used, at least one of the two expressions separated by the OR operator must be true for a record to be selected.

```
AREA KM > 100000 OR POP 2001 > 750000
```

Use the NOT operator at the beginning of an expression to find features or records that do not match the specified expression. NOT expressions can be combined with AND and OR.

AREA\_KM > 100000 AND NOT POP\_2001 < 750000

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### Querying dates

The syntax required for querying dates depends on the data type. True DATE fields will be stored in the format: 'yyyy-mm-dd hh:mm:ss'. Specify the format within your query as shown below.

Given the format, even a single date requires querying for a range, due to the inclusion of time. Utilize the following query to return data mapped on July 1, 2013:

DIGITAL\_MAPPING\_DATE >= DATE '2013-07-01 00:00:00' AND DIGITAL\_MAPPING\_DATE <= DATE '2013-07-01 23:59:59'

Similarly, to find data mapped anytime in July 2013:

DIGITAL\_MAPPING\_DATE >= DATE '2013-07-01 00:00:00' AND DIGITAL\_MAPPING\_DATE <= DATE '2013-07-31 23:59:59'

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**Related Topics:** 

- Feature Search
- Filter

# Make A Map

The *Make a Map* tab within the map enables the addition of annotation (graphics and text) to the map. These annotations can be used to **Create Project**. The contents of the tab are segregated into accordion sections

which can be contracted by clicking the button or expanded by clicking the button.

- Polygons
- Lines
- Points

- Text
- Annotation Layer Settings

## Polygons

- 1. Zoom to the area of interest.
- 2. From the **Drawing Type** dropdown, select **Polygons**.

- 3. Click **Add** to start drawing. The *Draw/Edit* toolbar and *Annotation Settings* section will appear.
- 4. Within the *Annotation Settings* section, select the desired **Fill Style**, **Fill Color**, **Transparency**, **Outline Style**, **Outline Color** and **Outline Thickness**.

Layers Make a	Map Feature	Search
Drawing Type:	Polygons	
[ Annotation Settin	gs	]
Fill Style:	Solid	
Fill Color:		
Transparency:	0% 100%	50 %
Outline Style:	Solid	-
Outline Color:		
Outline Thickness:		1 px
		Add Polygons

5. Draw a polygon(s) or use the **Additional Mapping Options** tool to copy a polygon(s) from an existing **Map resource**.

Add

6. Within the *Draw/Edit* toolbar, click **Accept**.



7. To change the annotation, click the **Edit Annotations** *Layer Settings* section and click the annotation to edit.

Edit Annotations

button within the Annotation

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## Lines

- 1. Zoom to the area of interest.
- 2. From the **Drawing Type** dropdown, select **Lines**.

to start drawing. The *Draw/Edit* toolbar and *Annotation Settings* section will appear.

4. Within the *Annotation Settings* section, select the desired **Line Style**, **Line Color**, **Transparency**, and **Line Thickness**.

Layers Make	a Map 🛛 Featu	•	
Drawing Type:	Lines	Add	
- Annotation Sett	ings		
Line Style:	Dash Dot Dot	8	
Line Color:			
Transparency:	0% 100%	0 %	
Line Thickness:		1 рх	

5. Draw a line(s) or use the **Additional Mapping Options** tool to copy a line(s) from an existing **Map** resource.

<sup>3.</sup> Click Add

6. Within the *Draw/Edit* toolbar, click **Accept**.



To change the annotation, click the Edit Annotations
 Edit Annotations
 button within the Annotation
 Layer Settings section and click the annotation to edit.

### back to top

## Points

- 1. Zoom to the area of interest.
- 2. From the **Drawing Type** dropdown, select **Points**.

to start drawing. The *Draw/Edit* toolbar and *Annotation Settings* section will appear.

4. Within the *Annotation Settings* section, select the desired **Fill Style**, **Symbol Size**, **Fill Color**, **Transparency**, **Outline Color** and **Outline Thickness**.

Layers Make	a Map Feature Search				
Drawing Type:	Points Add				
Fill Style:	Diamond 👻				
Symbol Size:	24 px				
Fill Color:					
Transparency:	0% 100% 50 %				
Outline Color:					
Outline Thickness:	3 px				

- 5. Click the map to place the point(s) on the map or use the **Additional Mapping Options** tool to copy a point(s) from an existing **Map resource**.
- 6. Within the *Draw/Edit* toolbar, click **Accept**.

<sup>3.</sup> Click Add



7. To change the annotation, click the **Edit Annotations** *Layer Settings* section and click the annotation to edit.

Edit Annotations

button within the Annotation

### back to top

## Text

- 1. Zoom to the area of interest.
- 2. From the **Drawing Type** dropdown, select **Text**.

3. Within the *Annotation Settings* section, enter the **Text to Add** within the text box and then select the desired **Text Color**, **Text Size**, **Text Align**, **Text Angle**, **Text Style**, and **Text Weight**.

Layers Make	a Map	Featu	re S	earch	4
Drawing Type:	Text		•	Add	
<ul> <li>Annotation Set</li> </ul>	tings				
Text to Add:					
WaterSpigot					
Text Color:					
Text Size:	20	Pixels			
Text Align:	Center				
Text Angle:	, ,	3608	0	۰	
Text Style:	Norma				
Text Weight:	Bold				



4. Click **Add** and then click on the map where you would like the text placed.



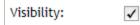
- 5. Repeat steps 3 & 4 to add the same text in multiple locations or enter different text.
- 6. To change the annotation, click the **Edit Annotations** button within the *Annotation Layer Settings* section and click the annotation to edit.

# Annotation Layer Settings

The configurations within the Annotation Layer Settings section apply to all annotations added to the map.

Annotation Lay	er Settings	
Visibility:	$\checkmark$	
Transparency:	on a	100% 0 %
Clear All A	nnotations	Stop Editing
	Click on an a	annotation to edit

• Visibility - set to display annotation by default. Uncheck the Visibility checkbox to turn off all annotation.



• **Transparency** – allows the transparency of the layer to be adjusted by sliding the indicator along the bar.

Transparency:	ox ox	100% 0 %	6

Clear All Annotations

removes all annotations from the map.

Edit Annotations -

Clear All Annotations

i. Click the Edit Annotations button

Edit Annotations

- ii. Select the desired annotation to edit the accordion section for the annotation type will be expanded to provide access to the appropriate settings.
  - **Point** change the settings of the Point or change its location by clicking on it and dragging the point to the desired location.

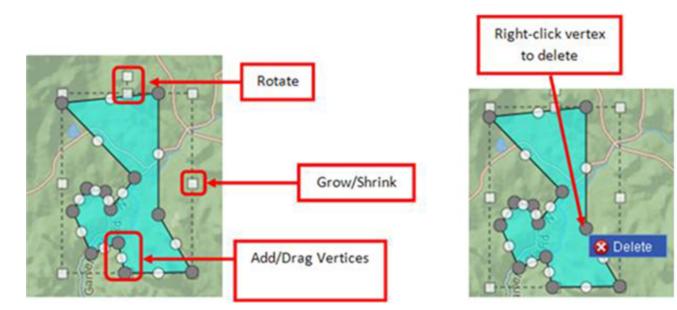
allows for editing of individual annotations:

- Line change the settings of the Line or change its location by clicking on it and editing the spatial feature.
- **Polygon** change the settings of the Line or change its location by clicking on it and editing the spatial feature.

#### Edit spatial feature by:

Dragging, rotating, expanding, or shrinking the entire feature; and/or by

Adding, deleting, or dragging vertices.



• **Text** - change the Alignment or Color of the Text or change its location/angle by clicking and dragging the text to the desired location.

```
iii. Click Stop Editing after making the desired changes or the Delete Annotation
Delete Annotation
button to delete the feature.
```

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# Related Topics:

- Draw/Edit Toolbar
- Additional Mapping Options
- Print

# Draw/Edit

The *Draw/Edit* toolbar opens automatically upon choosing to **Create a Project** or add a spatial feature via **Make a Map**.

]	Eile	Edit	⊻iew	History	<u>B</u> ookmarks	<u>T</u> ools	Help		
	R	Map	Arizor	na Environr	mental 🗙	1	iotics Map	×	÷
	+	) 🔒 ht	tps://az	dev. <b>natur</b>	eserve.org/no	de/1#			
		_							

If accessed via **Create a Project** and the map is not zoomed in closer than 1:72,224, only the **Upload Shapes** tool will be available. To access the other draw tools, zoom in to 1:72,224 or closer using the **Scale Bar** or

#### Zoom to Coordinates or Scale tool.

Draw/Edit	<b>- x</b>
N = 9 1 5 5 1 i 4 🎄 -	
Cancel Ac	cept
Zoom in closer than 1:72,224 to draw your project. Or, upload a zipped	I ESRI
shapefile at any scale.	1.

A number of different tools are provided on the *Draw/Edit* toolbar, enabling various actions ranging from digitizing a shape, to moving boundaries, to removing an area from within feature, to buffering a polygon. Some of these tasks require different modes, which are displayed on the lower left of the toolbar.

- Draw Shape
- Edit Shape:
  - Edit Geometries
  - Erase Inside Drawn Area
  - Crop Outside Drawn Area
- Upload Shapes
- Buffer Shape
- Additional Mapping Options:
  - Map Layers
  - Make a Map
  - Coordinates
  - **Drawing** a point or line feature(s)
- Other Draw/Edit Tools:
  - Undo
  - Redo
  - Clear Shape
  - Draw Settings
    - Use Freehand
    - Disable Navigation while Drawing

## Draw Shape

The default tool within the *Draw/Edit* toolbar, **Draw Shape**, is limited to drawing polygonal features. To digitize a point or line feature(s), utilize the **Drawing** option within the **Additional Mapping Options** tool.

1. Features can be digitized using either the default drawing tool, which utilizes vertices, or a freehand tool.

#### Use default Draw Shape tool:

- a. If not already in Draw mode, click the **Draw Shape** icon.
- b. Single click to draw a point.
- c. For lines and polygons, click every location a vertex is to be placed and double-click to complete feature.

#### Use Freehand drawing tool:

- a. From the Draw Settings dropdown, select Use Freehand.
- b. Holding down the mouse button, draw the feature.
- c. Release the mouse button to finish digitizing the feature.
- 2. Click **Accept** to complete the feature.

Alternatively, use the edit tools described in the following sections to make changes to the feature before clicking **Accept** to save.

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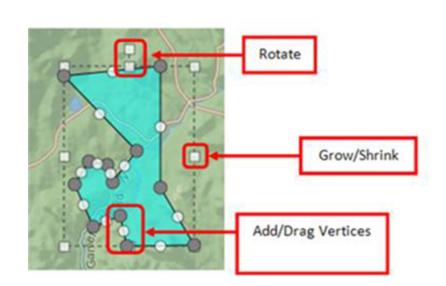
# Edit Shape

### Edit Entire Shape and/or Vertices

1. Enter Edit mode by clicking the **Edit Shape** icon.

The vertices and extent of the feature will be displayed.

- 2. Edit feature by:
  - Dragging, rotating, expanding, or shrinking the entire feature; and/or by
  - Adding, deleting, or dragging vertices.





## Erase Inside Drawn Area

- 1. Enter Erase mode by clicking the **Erase Inside Drawn Area** icon.
- 2. Digitize a polygon circumscribing the area to be cut from the feature by single-clicking to add each vertex, and double-clicking to complete the polygon.

The area circumscribed by the polygon will be clipped from the original feature.

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### Crop Outside Drawn Area

- 1. Enter Crop mode by clicking the Crop Outside Drawn Area icon.
- 2. Digitize a polygon that contains the portion of the feature to be retained, by single-clicking to add each vertex, and double-clicking to complete the polygon.

The area within the polygon drawn in Crop mode will be retained, while that portion of the feature outside the polygon will be deleted.

Polygon drawn overlapping feature... area of feature within polygon remains after cropping.



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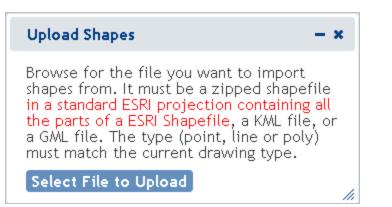
# Upload Shapes

Current functionality allows for ESRI shapefiles to be added. To upload a shapefile, all component files must be zipped into a zip file with no additional directories or files. A valid .prj file must be included in the zip file. Maximum file size not to exceed 2 GB. 1. Enter Upload Shapes mode by clicking the Upload Shapes



Select File to Upload

2. Within the Upload Shapes dialog, click Select File to Upload

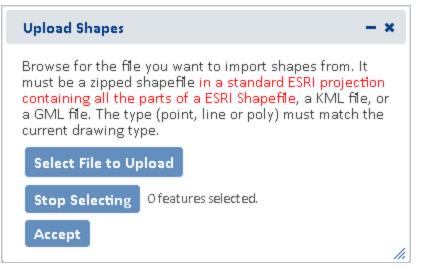


3. Navigate to and select the shapefile to add.

**NOTE**: The following message will appear if a projection file (.prj) is not included in the zip file.



- 4. The map will zoom to the extent of the spatial feature(s) within the uploaded file.
  - a. If a file with multiple shapes has been selected, draw a box on the map to select the desired feature(s) within the uploaded layer.

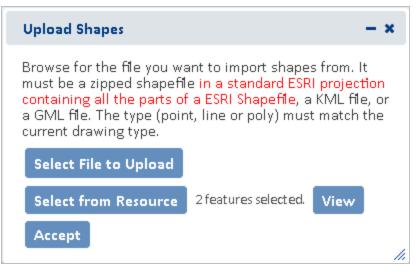


b. The *Details* dialog of the selected feature(s) will be displayed. To remove a feature from the selection, from the *Tasks* menu, select **Remove from Include List**. Once removed, the option to **Add to** 

Include List becomes available in the Tasks menu.

Details: Annotation (2 of 2)	-	×
<b>Layer:</b> Upload No Details to Display		
Zoom Flash < > 2 - /2 Tasks -		
Remove from Inclu	de Lis	st

C. The number of features selected will be displayed in the section to the right of the Select From Resource button along with a View button, which allows the user access to the Details dialog again if they need to remove additional features from the selection. Alternatively, create a new selection by clicking the Select from Resource button again (return to Step 4a for instructions).



- d. Click **Accept** within the *Upload Shapes* dialog.
- 5. In the *Draw/Edit* toolbar click **Accept**.

## **Buffer Shape**

The Buffer Shape tool can be used in conjunction with the **Draw Shape** tool or **Additional Mapping Options**.

- 1. Either draw a shape using the **Draw Shape** tool or create a shape using the **Additional Mapping Options** tool.
- 2. Enter Buffer mode by clicking the **Buffer Shape** icon.
- 3. In the *Buffer* dialog, enter a buffer *Distance* and select the desired distance unit from the dropdown. Click **Buffer**.

#### Use of Buffers

A positive distance will buffer outside the feature whereas a negative distance will buffer within the feature. Negative distances cannot exceed the size of the shape, nor can they be used with Point or Line features. The following error will be displayed when the negative distance exceeds the size of the shape.



- Buffers are additive. Thus, if one distance is used to buffer a polygon and then another distance is entered, the second buffer will be added to the first buffer rather than to the original feature. For example, if a feature is first buffered by 5000 m, and then a second buffer distance of 2500 m is specified, the original feature ends up being buffered by 7500 m; the second distance does not replace the first.
- To apply different buffers to a polygon without combining them, <sup>1</sup> **Undo Last Drawing Change** must be used before specifying the second buffer distance. This will cause the original buffer to be removed prior to applying the second.
- 4. The buffer will be applied and the user is returned to the *Draw/Edit* toolbar to further modify the feature, if desired. Click **Next** to continue the process.

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# Additional Mapping Options

The Additional Mapping Options dialog allows the user to:

- copy a shape from Map Layers
- copy shapes created via Make a Map
- enter Coordinates
- create a Drawing

This tool can be used reiteratively for multiple edits and use of various tools within a given editing session. As such, the *Additional Mapping Options To:* is used to indicate how to use the new shape:

Add to original drawing

- Replace original drawing
- Erase areas of overlap
- Crop to copied feature

Following are the instances when this dialog will be displayed:

- If there is a drawing in the primary draw toolbar whose feature type (point, line, polygon) is the same as the current shape, then the **Add to original drawing** and **Replace original drawing** options will be available.
- If there is a drawing in the primary draw toolbar and the feature type of the current shape is a polygon, then the **Erase areas of overlap** and **Crop to copied feature** options will be available.
- If the feature type of the drawing in the primary draw toolbar is polygon, as is that of the current shape, then all 4 options will be available.

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## Map Layers

1. Click the Additional Mapping Options



- 2. In the Additional Mapping Options dialog, from the Source dropdown menu, select **Map Layers**.
- 3. From the *Resource* dropdown menu, select the map resource from which to copy the shape(s). The options depend on the layers available within the **Layers** section of the map.

**NOTE**: If the chosen Resource is comprised of multiple layers, an additional *Layer* dropdown list will be displayed from which to select the given layer to copy the shape(s).

Additional Mapping Options				? <b>– x</b>
Source:	Map Layers			
Resource:	Project Subm	issions		
Select fr	om Resource	Ofeatures	selected.	
		Cancel	Modify	Next

- 4. Click the **Select from Resource** button and holding the mouse button down, draw a box on the map to select the desired feature(s) within the Resource/Layer.
- 5. The Details dialog of the selected feature(s) will be displayed. To remove a feature from the selection, from the Tasks menu, select Remove from Include List. Once removed, the option to Add to Include List

becomes available in the *Tasks* menu.

Details: References - 12: Small Watershed (HUC 12) - 150200120306 (1 of 2)	- *
Layer: References Sub-Layer: 12: Small Watershed (HUC 12) HUC 12: 150200120306 HUC_8: 15020012 HUC_4: 1502	
Zoom Flash < > 1 - /2 Tasks - Remove from Inclue	de List

- 6. The number of features selected will be displayed to the right of the Select From Resource button along
  - View

with a **View** button, which allows the user access to the *Details* dialog again if they need to remove additional features from the selection. Alternatively, create a new selection by clicking the **Select from Resource** button again (return to Step 4 for instructions).

Additional Mapping Options ?		
Source:	Map Layers 🗸 👻	
Resource:	Project Submissions 👻	
Select fr	om Resource 3 features selected.	View
	Cancel Modify	/ Next

- 7. To further modify the selected features, click **Modify** or **Next** to use the features as they exist.
- 8. In the *Draw/Edit* toolbar click **Accept** unless further edits are needed.

## Make a Map

- 1. Click the Additional Mapping Options
- 2. In the Additional Mapping Options dialog, from the Source dropdown menu, select Make a Map.

icon.

3. Click the **Select from Resource** button and click on the desired feature(s).

Addition	al Mapping Op	tions		? - ×
Source:	Make a Map			
Select	from Resource	0 features	selected.	
		Cancel	Modify	Next

4. The number of features selected will be displayed in the Spatial Search section to the right of the *Select From Resource* button along with a **View** button, which allows the user access to the *Details* dialog again if they need to remove additional features from the selection. Alternatively, create a new selection by clicking the **Select from Resource** button again (return to Step 2 for instructions).

Details: Annotation (2 of 2)	- ×
Layer: Upload No Details to Display	
Zoom Flash < > 2 - /2 Tasks -	
Remove from	m Include List

5. To further modify the selected features, click **Modify** or **Next** to use the features as they exist.

Addition	al Mapping Opt	tions		? <b>– x</b>
Source:	Make a Map			
Select	from Resource	3 features :	selected. Viev	N
		Cancel	Modify	Next
				<i>[i</i> ,

6. In the *Draw/Edit* toolbar click **Accept** unless further edits are needed.

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## Coordinates

- 1. Click the Additional Mapping Options ic
- 2. In the Additional Mapping Options dialog, from the Source dropdown menu, select **Coordinates**.
- 3. Select the desired **Projection** and enter in the formats shown:
  - Latitude/Longitude (DMS)
    - Latitude (Northing): 42d 42' 44"
    - Longitude (Easting): -75d 38' 38"
  - Latitude/Longitude (Decimal)
    - Latitude (Northing): 42.712326430204115
    - Longitude (Easting): -75.64402639639827
  - **Subnational Projection** the projection used by your HP/CDC within the Biotics application. Contact your Biotics Administrator for further information.
  - Define Projection

NOTE: WKID and WKT values can be found at http://www.spatialreference.org

- By Well Known ID (WKID): 3857
  - Latitude (Northing): 5268287
  - Longitude (Easting): -8420654.5
- By Well Known Text (WKT):

The WKT can be copied directly from a projection file (.prj). Below is an example.

PROJCS["WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere",GEOGCS["GCS\_WGS\_1984",DATUM ["D\_WGS\_1984",SPHEROID["WGS\_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Mercator\_Auxiliary\_ Sphere"],PARAMETER["False\_Easting",0.0],PARAMETER["False\_Northing",0.0],PARAMETER ["Central\_Meridian",0.0],PARAMETER["Standard\_Parallel\_1",0.0],PARAMETER["Auxiliary\_ Sphere\_Type",0.0],UNIT["Meter",1.0],AUTHORITY["ESRI","102100"]]

• Latitude (Northing): 5268287

• Longitude (Easting): -8420654.5

Additional	Additional Mapping Options ? - ×			
Source:	Coordinates 👻			
Projection:	Define Projection 👻			
Define By:	By Well Known Text (WKT) 🛛 👻			
PROJCS["V OGCS["GC D["WGS_1 nwich",0.0 TION["Mer sting",0.0] "Central_N ,0.0],PARA	Well-Known String: PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GE OGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROI D["WGS_1984",6378137.0,298.257223563]],PRIMEM["Gree nwich",0.0],UNIT["Degree",0.0174532925199433]],PROJEC TION["Mercator_Auxiliary_Sphere"],PARAMETER["False_Ea sting",0.0],PARAMETER["False_Northing",0.0],PARAMETER[ "Central_Meridian",0.0],PARAMETER["Standard_Parallel_1" ,0.0],PARAMETER["Auxiliary_Sphere_Type",0.0],UNIT["Met er",1.0],AUTHORITY["ESRI","102100"]]			
Latitude (Northing): 4094979.374992865				
Longitude (	Longitude (Easting): -12581114.003746616			
✓ Click the Map for Coordinates				
Zoom an	d Preview			
	Cancel Modify Next			

#### 4. Click Zoom and Preview.

- 5. To further modify the selected features click, **Modify** or **Next** to use the features as they exist.
- 6. In the *Draw/Edit* toolbar click **Next** unless further edits are needed.

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### Drawing

This option enables drawing of any feature type (Point, Line, Polygon) whereas the default **Draw Shape** tool within the Draw/Edit toolbar is limited to polygonal features.

- 1. Click the Additional Mapping Options icon.
- 2. In the Additional Mapping Options dialog, from the Source dropdown menu, select **Drawing**.

3. From the *Type* dropdown menu, select the type of spatial feature (**Point**, **Line**, or **Polygon**) to draw and click **Next**.

Addition	al Mapping Options		? <b>– x</b>
Source:	Drawing		
Type:	Polygon		
Click Next	to access draw tool		
	Cancel	Modify	Next

- 4. The Draw shape to use as other Source dialog will be displayed. Draw the desired shape and click **Next**.
  - Single click to draw a point.
  - For lines and polygons, click every location a vertex is to be placed (unless the **Use Freehand** option is selected) and double-click to complete feature.
- 5. In the case of a line or polygon feature, the *Draw/Edit* toolbar will be displayed, allowing the user to edit the feature further. Click **Next** to continue.

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# Other Draw/Edit Tools

- Undo
- Redo
- Clear Shape
- Draw Settings

The Draw Settings dropdown menu includes two options:

- **Use Freehand** provides the ability to digitize a feature freehand rather than by clicking to add individual vertices.
- Disable Navigation while Drawing a setting that is on by default improves drawing performance by switching map navigation (i.e., pan and zoom functionality) off once the first vertex of a shape has been placed, and re-enabling navigation when the shape is closed. Leaving this draw setting enabled prevents the application from interpreting a longer touch on the cursor while digitizing as an attempt to pan, which would cause the map to be refreshed and any vertices digitized to be lost.

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### Related Topics:

- Create a Project
- Make a Map
- Scale Bar
- Zoom to Coordinates or Scale

# **Map Navigation**

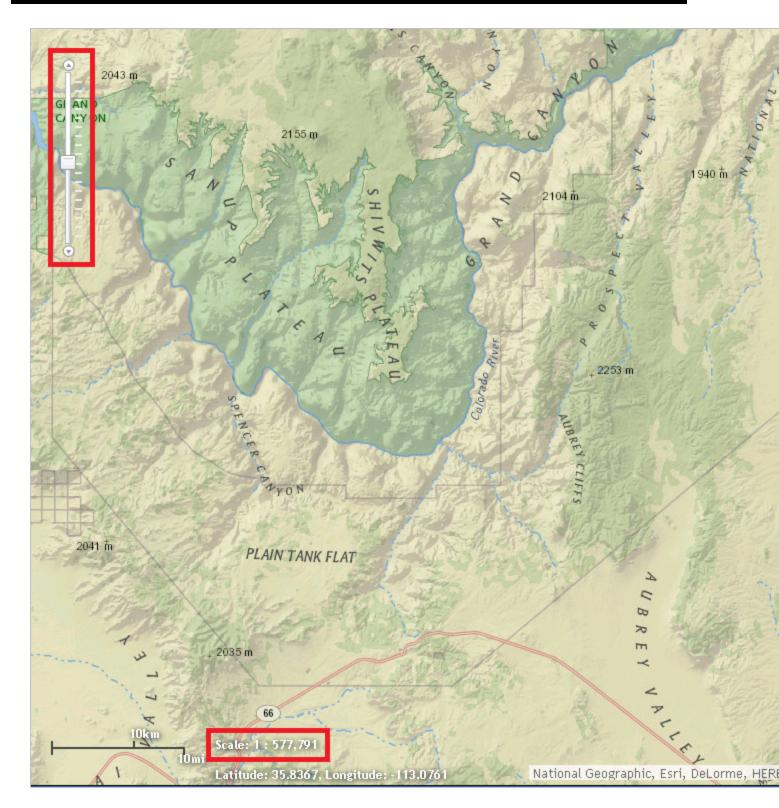
Several categories of tools are available for efficiently moving to specific locations and changing the display in the map viewer.

- Navigation Tools:
  - Find Address or Place
  - Scale bar
  - Zoom to Coordinates or Scale
  - Overview map
  - Spatial Bookmarks
- Extent tools:
  - Default Extent
  - Previous Extent
  - Next Extent tools
- Shortcuts:
  - Zoom In
  - Zoom Out

# Scale Bar

Slide the scale bar up and down to zoom in and out respectively, changing the map extent.

**NOTE**: the map scale and coordinates are visible in the bottom left hand corner of the map viewer (example below) and change accordingly when the scale bar or any other navigation tools are used.



# Extent tools



# Default Extent

To zoom to the initial extent of the map, click the **Default Extent** icon located in the upper right corner of the map title bar.

# **Previous Extent**

To zoom to the previous extent of the map, click the **Previous Extent** icon located in the upper right corner of the map title bar.

# Next Extent

To zoom to the next extent of the map, click the **Next Extent** icon located in the upper right corner of the map title bar.

# **Shortcut Tricks**

**Zoom in** - Hold the SHIFT key while dragging a box on the map.

**Zoom out** - Hold SHIFT and CTRL keys while dragging a box on the map.

#### back to top

## Related Topics:

- Find Address or Place
- Overview Map
- Zoom to Coordinates or Scale

# Find Address or Place

This tool navigates to locations on the map using the ArcGIS Geocoder as the source of the data.

## Steps:

1. Found in the upper right corner of the Map, the **Find address or place** tool uses the ArcGIS Geocoder as the source of the search, by default.

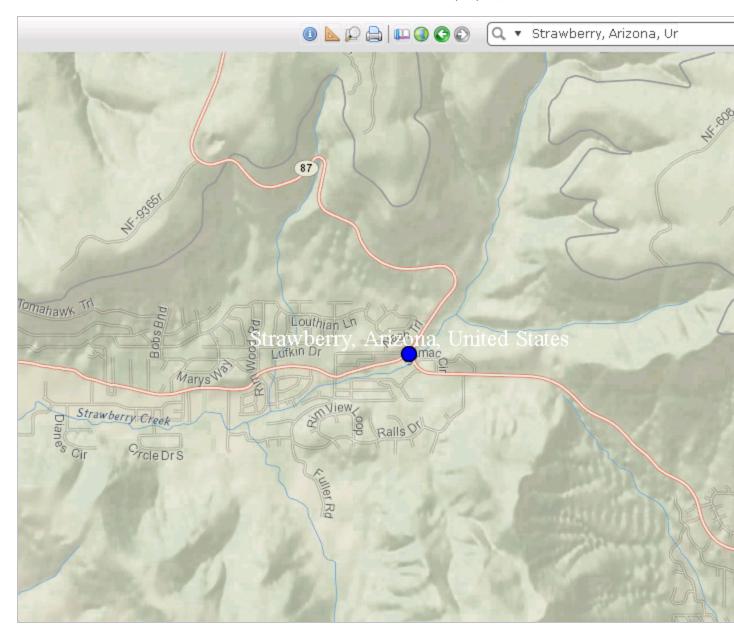
🗊 Switch Basemap 🛛 🕃 Add Resources 🕜 Create Project

2. Enter the desired location (i.e., Strawberry, AZ) in the Find address or place text box

Q Find address or place

3. Click < Enter> or click the Find icon to zoom to the specified location on the map.

NOTE: An alternate mode of zooming to a specific location, in cases when the desired location is not found,



is to use the **Feature Search** tool to find the location within one of the map layers, and then zoom to it.

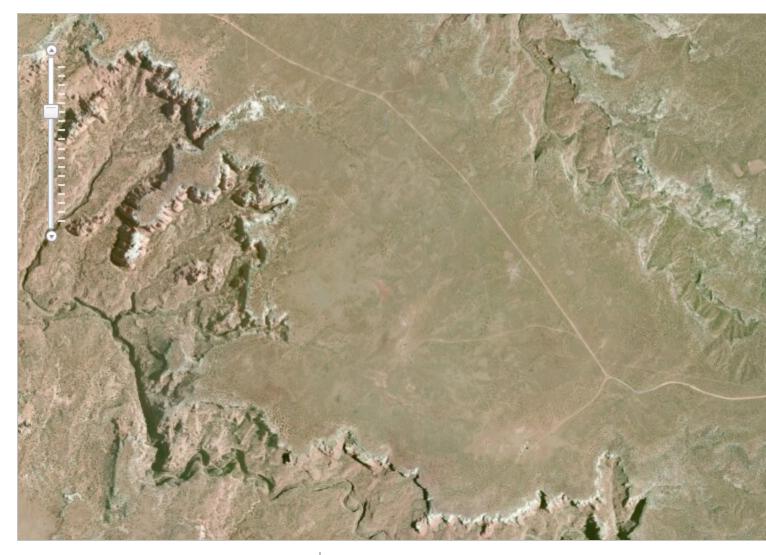
back to top

## **Related Topics:**

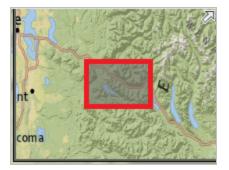
- Feature Search
- Map Navigation

# Overview Map

The Overview Map, located in the upper right corner of the map, is useful for keeping track of your location within the state when zoomed into an area on the main map.



- Show the Overview Map by clicking the arrow  $\big|$  icon.
- Hide the Overview Map by clicking the arrow icon in the upper right corner.
- Change the map extent by dragging the gray box within the Overview Map. The main map adjusts when the mouse button is released.



# Related Topics:

• Map Navigation

# Spatial Bookmarks

Bookmark the map at a particular extent and location to return to for later use during the same logged in session.

## Steps:

- 1. Within the *Map* menu, navigate to the desired location.
- 2. Click the **Spatial Bookmarks** icon located in the upper right corner of the map title bar.
- 3. Within the *Spatial Bookmark* dialog:

Spatial Bookmarks	- ×
Add Bookmark	
	1.

- **Add** a bookmark by clicking **Add Bookmark** to enter a name for the bookmark. Hit the *TAB* or *ENTER* key on the keyboard to save the bookmark.
- **Edit** a bookmark name by clicking the Edit icon and editing the name of the bookmark. Hit the *TAB* or *ENTER* key on the keyboard to save the bookmark.
- **Remove** a bookmark by clicking the Remove icon  $^{\perp}$



• **Zoom to** an existing spatial bookmark by clicking its name.

back to top

### **Related Topics:**

Map Navigation

# Zoom to Coordinates or Scale

This navigation tool is used to quickly adjust the map display according to either the coordinates or map scale specified by the user.

# Steps:

1. Within the *Map*, click the **Zoom To Coordinates or Scale** icon located in the upper right corner of the map title bar.

The *Zoom To Coordinates or Scale* dialog opens, displaying the current map scale and coordinates, as indicated on the map by a red diamond.

Zoom To Coordinates or Scale 🛛 🗕 🗙				
Scale:	1: 36,112 🔹			
Projection:	Latitude/Longitude (DMS)			
Latítude (N	orthing): 34d 24' 7"			
Longitude (I	Easting): -111d 30' 9"			
🖌 Click the	Map for Coordinates			
	Zoom			

- 2. Select the desired **Scale**.
- 3. To zoom to a different location, select the **Projection** and enter the desired **Latitude (Northing)** and **Longitude (Easting)**. Alternatively, with the **Click for the Map for Coordinates**

Click the Map for Coordinates

checkbox indicated, click anywhere on the map to view the coordinates of that location, in the selected **Projection**. Coordinates can be entered in the following projections in the formats shown:

- Latitude/Longitude (DMS)
  - Latitude (Northing): 42d 42' 44"
  - Longitude (Easting): -75d 38' 38"
- Latitude/Longitude (Decimal)
  - Latitude (Northing): 42.712326430204115
  - Longitude (Easting): -75.64402639639827
- UTM Zone 17 or UTM Zone 18
  - Latitude (Northing): 4254911.012366921
  - Longitude (Easting): -2346228.775082956
- Define Projection

NOTE: WKID and WKT values can be found at http://www.spatialreference.org

- By Well Known ID (WKID):3857
  - Latitude (Northing): 5268287
  - Longitude (Easting): -8420654.5
- By Well Known Text (WKT):

The WKT can be copied directly from a projection file (.prj). Below is an example.

 PROJCS["WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere",GEOGCS["GCS\_WGS\_1984",DATUM ["D\_WGS\_1984",SPHEROID["WGS\_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Mercator\_Auxiliary\_ Sphere"],PARAMETER["False\_Easting",0.0],PARAMETER["False\_Northing",0.0],PARAMETER ["Central\_Meridian",0.0],PARAMETER["Standard\_Parallel\_1",0.0],PARAMETER["Auxiliary\_ Sphere\_Type",0.0],UNIT["Meter",1.0],AUTHORITY["ESRI","102100"]]

- Latitude (Northing): 5268287
- Longitude (Easting): -8420654.5

Zoom To Coordinates or Scale – 3				
Scale:	1: 9,24	44,649	•	
Projection:	Define	Projection	•	
Define By:	By Wel	ll Known Text (WKT)	•	
Well-Known S	tring:			
_WGS_1984" 0,298.25722 UNIT["Degree TION["Merca R["False_Eas thing",0.0],P 0],PARAMETI AMETER["Au:	,SPHERC 3563]],P e",0.017 tor_Auxi ting",0.0 'ARAMET ER["Stan xiliary_S	CS_WGS_1984",DATUM["E DID["WGS_1984",6378137 RIMEM["Greenwich",0.0], 4532925199433]],PROJEC iliary_Sphere"],PARAMETE D],PARAMETER["False_No "ER["Central_Meridian",0. idard_Parallel_1",0.0],PAE phere_Type",0.0],UNIT[" ITY["FSRI" "102100"]]	r	
Latitude (Nor	thing):	4086000		
Longitude (Ea	sting):	-12194000.000000002		
Click the I	Map for (	Coordinates		
		Zoo	m	

- 4. Click **Zoom**. A red diamond indicates the location on the map. This is removed when the dialog is closed.
  - If only a new map scale is selected, the map viewer will automatically zoom in or out to the selected scale, while remaining in the same location.
  - If only coordinates are edited (regardless of a change in projection), the map viewer will zoom to the location defined by the coordinates but remain at the same scale.
  - If both map scale and coordinates were changed, the map viewer adjusts location and scale accordingly.

#### back to top

## Related Topics:

Map Navigation

# Measure

The measure tool is used to determine the size of a designated area, the distance of a digitized line, and the coordinates of a specific location.

# Steps:

- 1. Within the map, click the **Measure**<sup>1</sup> icon, located in the upper right corner of the map title bar.
- 2. Select the desired measurement tool and the appropriate unit of measure from the dropdown list.

∘ Area

- Distance
- Location
- 3. Digitize the feature to be measured:
  - Point click the desired location
  - Line digitize a line, double-clicking to complete the feature
  - Polygon digitize a polygon, double-clicking to complete the feature
- 4. The Measurement Result is reported in the specified units once the line/polygon has been completed.

**NOTE**: The measurement unit can be changed after the feature has been digitized and the measurement result will be displayed in the newly selected unit.

back to top

**Related Topics:** 

- Find address or place
- Identify
- Map Navigation
- Zoom to Coordinates or Scale

# Print

Allows the user to create a printable version of the map view.

# Steps:

- 1. Within the *Map* menu, click the icon located in the upper right corner of the map title bar.
- 2. Within the *Print Map* dialog, enter pertinent information within the **Title**, **Author**, and **Copyright** text boxes only if intending to print to **Landscape Layout**. This information is not utilized by the **Map Only** print options and hence need not be included if printing the Map Only.

Print Map		-	×
Title:	Title		
Author:	Author		
Copyright:	Copyright		
Print			
Assure brows	ser pop-up blocker is turned off, or		
printable PD	F may not open		//.

Print

3. From the **Print** dropdown menu

, select the desired print option:

- **Landscape Layout (PDF)** provides a PDF of the map including the Title, Author, and Copyright information provided.
- **Map Only (PDF)** provides a PDF just of the map itself. Neither Title, Author, nor Copyright information is utilized.
- **Map Only (PNG)** provides a PNG just of the map itself. Neither Title, Author, nor Copyright information is utilized.
- **Map Only (JPG)** provides a JPG just of the map itself. Neither Title, Author, nor Copyright information is utilized.
- 4. The Print dropdown reflects Printing

while the map is being generated.

5. The map opens in a separate tab within the web browser. **NOTE**: The printed map cannot be opened in a new tab unless the pop-up blocker is turned off. If prompted, choose to **Always allow** pop-ups from this site.

Title



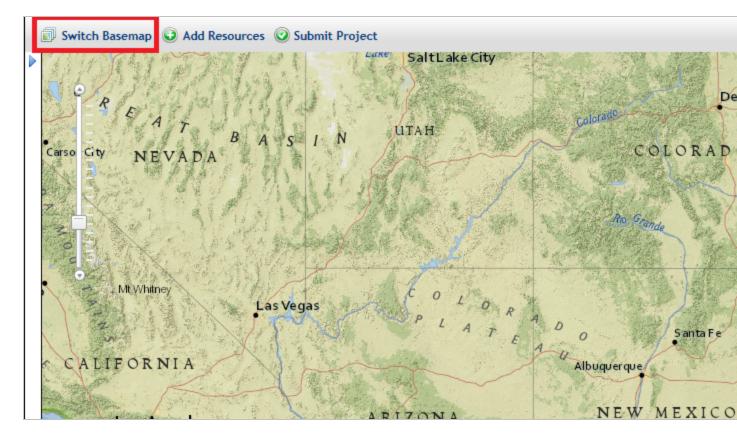
6. From the *File* menu of the web browser, select **Save As** and indicate where (and with what name the map document should be saved.

# **Switch Basemap**

A basemap provides a background geographical context for the content displayed on a map. Within the map viewer, the basemap can be changed at any time by choosing a layer from the basemap gallery (e.g., topography, imagery, streets) or made invisible.

# Steps:

1. Within the Map, click the **Switch Basemap**<sup>|</sup> button, located in the upper left corner of the map title bar.

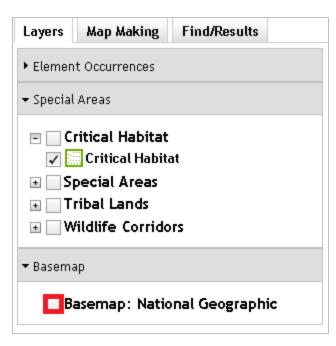


- 2. Within the Switch Basemap dialog, click the thumbnail of the basemap to be used in the map.
- 3. The basemap in the main map will change accordingly.

**NOTE**: The overview map retains the National Geographic basemap in order to ensure that there is always a geographic context, which may not be so evident using the other basemaps.

4. To turn off or make the base map invisible, uncheck the toggle box associated with the **Basemap** layer

within the *Basemap* accordion section of the *Layers* tab.



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# Related Topics:

- Add Resources
- Test Map Service
- Map Services

# **My Projects**

The *My Projects* page reflects each of the projects a user has submitted along with basic information pertaining to the project, including **Title**, **Date Submitted**, **Project Description**, **Edit Status**, and **Project Status**.

# My Projects

Title	Date Submitted	Project Description
Маке а Мар	9/24/2014 10:00 AM	Selected features from Make a Map using Creating Project
IBA intersection	8/6/2014 02:46 PM	testing IBA dynamic analysis text and PT-
PT-10101 & IBA	8/6/2014 01:09 PM	testing IBA, PT-10101 & annotations in pr with IBA_Out
Big Box - HGIS-212	8/5/2014 02:27 PM	Testing HGIS-212 - repeat table header
Long title name to test 40 character limit and that	7/28/2014	Long title name to test 40 character limit a

### **Related Topics:**

- Create Project
- Edit Project
- Email
- View Project

# **Create Project**

Create Project can be initiated on its own or after adding features to the map within the Make a Map section.

- use the Draw/Edit toolbar
- use features drawn via Make a Map

# Draw/Edit toolbar

1. Within the Map, click Create Project

🕑 Create Project

- 2. The *Draw/Edit* toolbar opens.
- 3. Use the various tools available within the **Draw/Edit** toolbar to define the spatial parameters of the project area.
- 4. Continue to the *Create Project* dialog.

# Make a Map

- 🕑 Create Project
- 1. Within the Map, click Create Project
- 2. A prompt will ask if you would like to copy some or all of the shapes to create the project boundary. Click **Yes** to use the shapes previously drawn or **No** to utilize the **Draw/Edit toolbar**.

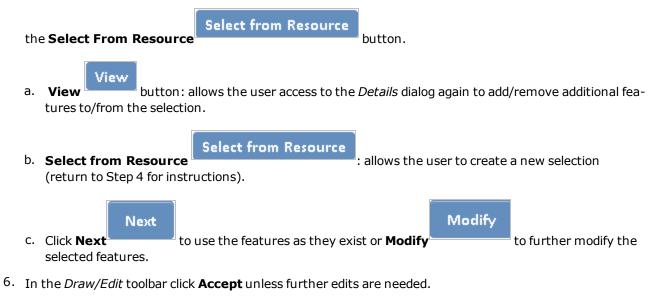
Copy Make a Map Shapes?	- ×		
Make a Map shapes were found. Would you like to copy some or all of them to your project?			
Yes	No		

3. The Details dialog of the Make a Map feature(s) are displayed. To remove a feature from the selection, from the Tasks menu, select Remove from Include List. Once removed, the option to Add to Include List becomes available in the Tasks menu.

Details (1 of 5): Annotation	? <b>– x</b>
Layer: Annotations No Details to Display	
Zoom Flash < > 1 - /5 Tasks -	
Remove from Inc	lude List

4. After completing the selection of which features to include, close the *Details* dialog using the in the upper right corner.

5. Within the Additional Mapping Options dialog, the number of features selected is displayed to the right of



7. Continue to the *Create Project* dialog.

# **Create Project**

1. After clicking **Accept** in the *Draw/Edit* toolbar, the *Create Project* dialog opens.

Create Project
Project Title *
User Project Number An (optional) organization-specific project number for user tracking purposes.
Project Type *
Select only one Project Type per project
Development Outside Municipalities (Rural Development)
🗈 Development Within Municipalities (Urban Growth)
Energy Storage/Production/Transfer
🗈 Forest, Woodland, Vegetation Management
Habitat Conservation and Restoration
🗈 Hazardous Waste Cleanup, site remediation, and reclamation
Law Enforcement Activities Associated with the Border
Military Activities
🖾 Mining
🗈 Pest Control
Recreation Areas

- 2. Within the *Create Project* dialog, enter the following information to describe the project. **NOTE**: required fields are labeled with a red asterisk \*.
  - **Project Title\*** title which will help to distinguish it from other project submissions
  - Project Type\*
  - Project Description\* succinctly describe the proposed work within the project area (i.e. residential subdivision)
  - On Behalf Of

- Contact information this data will be auto-populated according to the information associated with the logged in user. Change as appropriate. The e-mail will be used to notify the logged in user once the review has been completed.
- File attachments such as photographs, survey documents, site plans, etc. can be uploaded and

attached to the project form. **Browse** to the desired file(s) and then click **Upload**Upload
. NOTE: Files must be less than 2 MB in size. Only files with the following extensions

Submit

may be uplloaded: jpg, jpeg, gif, png, txt, docx, xlsx.

5. Click Submit

to submit the project for review.

6. A message will be displayed indicating that the project has been successfully submitted and that the results will be e-mailed to the address provided.

Thank you for submitting your project for review. A notification email will be sent once the automated review is complete. Depending on system this may take up to 10 minutes.

```
0
```

- 7. Navigate to the *My Projects* menu to view the **Submission Status** of each of your projects.
- 8. After the initial review of the project has been completed, an e-mail containing a link to the project report is sent. Click on the link within the e-mail to view the project report. Alternatively, access the project report via **My Projects**.

#### back to top

## **Related Topics:**

- Draw/Edit toolbar
- Edit Project
- Make a Map
- My Projects
- View Project

# **Edit Project**

Project edits are limited to projects with *Project Edit Status* of **Saved** (not **Final**). **NOTE**: Evaluators and Administrators of the system have additional privileges which allow them to edit Final projects.

There are two means for editing the Project - by editing the **details** associated with the project and by editing the project's **spatial boundary**. Project edits trigger a new project review to be initiated. Each edition will be reflected within the *Project Details* page, available via **View Project**.

# Steps:

- 1. Navigate to the My Projects tab.
- 2. Within *My Projects*, click on the **Title** of the project to be edited.
- 3. Edit the details or spatial boundary of the project.

## Details

- a. Within the *Project Details* page, click the **Edit** button
- b. Edit the desired content. **NOTE**: *Project Type* is only editable by users with **Evaluator** or **Administrator** privileges.

View changes

Click View Changes

to view the edits made to the project.

at the top of the page.

 Original
 Changes

 Changes to On Behalf Of
 +
 AZGFD

 +
 AZGFD

 Changes to Edit Status

 Saved
 +
 Final

Edit

d. Click the **Save** button to save the edits.

## back to top

# Spatial Boundary

- a. Within the *Project Details* page, click the Map button at the top of the page.
  b. Within the *Map*, click the Edit Project button and return to the main Map, click the Cancel Edit Project button button in the toolbar.
- c. Use the various tools available within the **Draw/Edit toolbar** to edit the spatial boundary of the Project and click **Accept**.

d. A message will be displayed indicating that the updates have been made.

Your project has been updated. A notification email will be sent once the automated review is complete. Depending on system load, this may 10 minutes.

### back to top

**Related Topics:** 

- Create Project
- My Projects
- View Project

# Email

Evaluators and Administrators of the system have additional privileges which enable them to Email the project Contact with relevant questions.

# Steps:

- 1. Using List All Projects, navigate to the desired project.
- 2. Click the **Email** tab to send an email to the **Contact** person for the project.
- 3. The email form will be autopopulated with the email address of the contact (*To*) as well as the title of the project in the *Subject* line. Within the body of the email, replace (insert message here) with the per-

tinent message. Submitting this form will send an email to the contact person for this project. To: whitney1weber@gmail.com Subject: \* AZGFD HGIS 2.0 : Upload shapes from shapefile Message: \* 📝 🖻 🛍 🖓 🚱 🛠 🛠 - 🖌 👭 🏩 🔟 🖉 🚺 🗏 😑 📀 Ω 🌘 🖏 🖹 Source -Normal 🖻 🙈 😫 Dear ERT Support, (insert message here) If you have questions or need further assistance, please contact me at your earliest convenience. Sincerely, ERT Support NatureServe 703-908-1800 Arizona Game and Fish Department https://otdov.poturocomo.org/ body p Switch to plain text editor Text format Filtered HTML Web page addresses and e-mail addresses turn into links automatically. Allowed HTML tags: <a> <em> <strong> <cite> <blockquote> <code> <u> <dl> <dt> <dd>
 </d>
 Lines and paragraphs break automatically. Cancel Send



Related Topics:

List All Projects

# **View Project**

From within the *Project Details* page, users can view the details of their project as well as open associated project report(s) and project boundary shapefile(s), upon completion of the project analysis.

- Edit Project: From the *Project Details* page the user can choose to edit (Edit) the project and/or project boundary (Map) of projects with *Project Edit Status* of **Saved** (not Final).
- **Email**: Evaluators and Administrators of the system have additional privileges which enable them to Email the project Contact with relevant questions.

# Steps:

- 1. Navigate to the My Projects tab.
- 2. Within the *My Projects* window, click the project **Title** to view the project details.

					<b>&amp; Fish</b> IFE TOMORROW azgfd.gov
Home	Мар	My Projects	Help	Admin	Terms & Conditions
HOME / MY	Y PROJECT	s			
My P	roj	<u>ects</u>			
Title			Date Sul	omitted	Project Description

- 3. Within the *Project Details* page:
  - The *Project Review Results* section reflects the *Review Status* of the project. Once the *Review Status* indicates **Report Generated**, links to the **Report File** and **Boundary Shapefile** are provided. Click

the links to open/save the files.

Project I	Details: Co	opied multiple Annotations			
View Edit Map Notes Email					
-	eview Resul				
Revision date	eview Resul	Report File	Вс		
-			B<		

- Projects which have been edited will include a separate entry within the *Project Review Results* table, reflecting the results of each project submission.
- click the **Project Type** link(s) for a full description of the Project Type(s).

## back to top

Related Topics:

- Create Project
- Edit Project
- Email
- My Projects

# About AZGFD

The **Arizona Game and Fish Department**'s (AZGFD) mission is to conserve, enhance, and restore Arizona's diverse wildlife resources and habitats through aggressive protection and management programs, and to provide wildlife resources and safe watercraft and off-highway vehicle recreation for the enjoyment, appreciation, and use by present and future generations.

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