

State of Montana – Training (Broadband Map – ARPA Locations Download)

PREPARED FOR THE STATE OF MONTANA
OCTOBER 10, 2025

VERSION 1.1

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CONFIDENTIAL

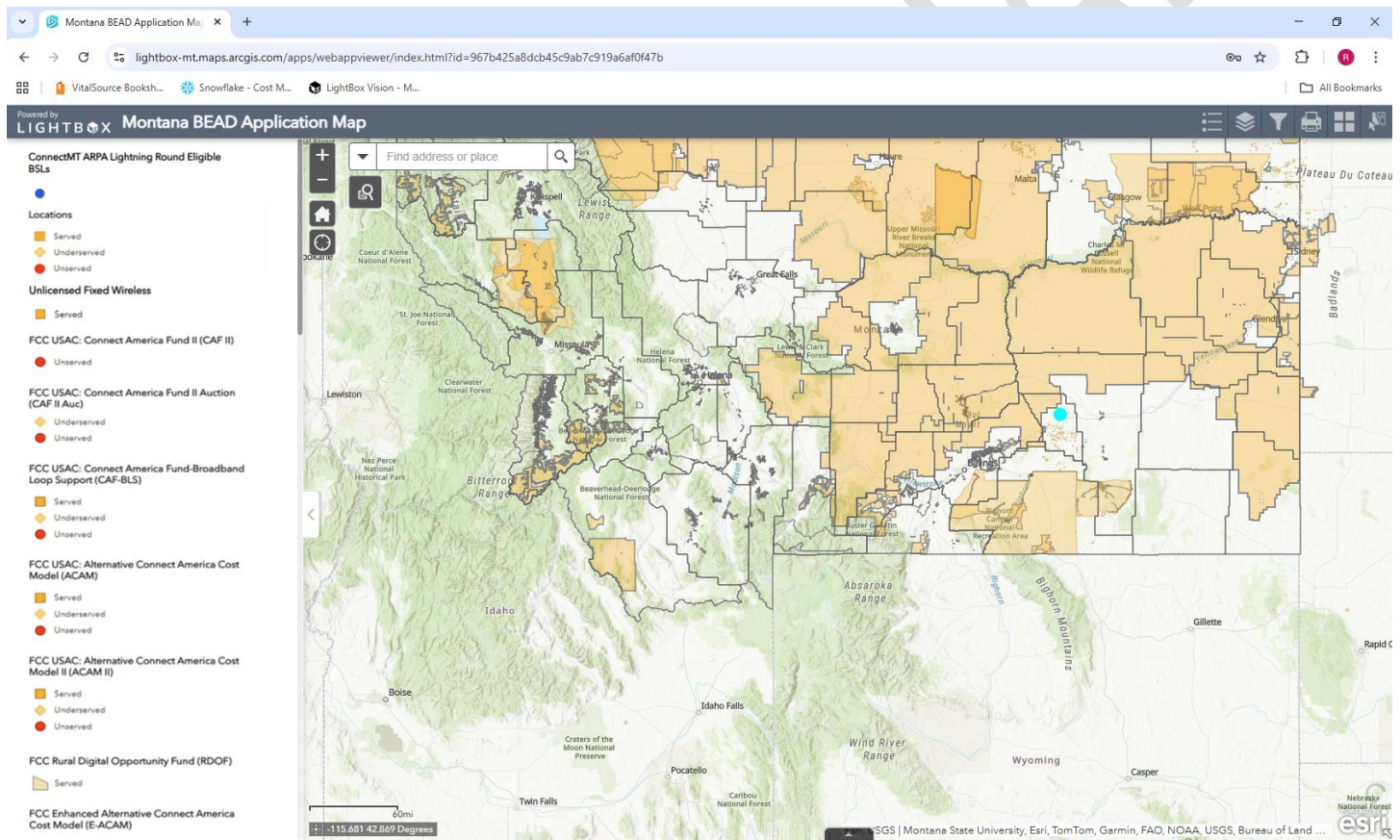
2 MAP 2 – MONTANA BEAD APPLICATION MAP

This document was created to support State of Montana Internet Service Providers (ISPs) to download ARPA Lightning Round Eligible BSLs where ARPA funding is available.

- 4,040 records/BSLs
- Includes NTIA fabric schema/attributes

Map 2 (“ISP Map”) – Montana BEAD Application Map:

<https://lightbox-mt.maps.arcgis.com/apps/webappviewer/index.html?id=967b425a8dcb45c9ab7c919a6af0f47b>



NOTE:

- This map is credentialed (i.e., you require a username and password to access)
- If you require credentials and have not received them yet, please contact the Montana ConnectMT team

2.1 INTRODUCTION

Orient the users on the map

Start with the top and left-hand side:

- Title
 - This map has been built for Montana ISPs to extract data from the map to submit for applications
- Static Legend (map description box)
 - This is an example of some of the data layers contained within this map
 - Location points are **ARPA** eligible records. They represent individual premises (houses, buildings) and each one has been color-coded based on its internet speed serviceability range.
 - Funding data (such as FCC USAC and USDA ReConnect) have been added to the map and have been color-coded based on its internet speed serviceability range.
- Map Description
 - This description conveys a number of pieces of information such as:
 - Purpose of the map
 - Information on how to use the features in the map and what they do
 - Business rules of how the serviceability categories were determined based on speed (e.g., served means that location has a speed equal to or greater than 100 Mbps down and 20 Mbps per up)
 - *NOTE: Excluding some wireless and satellite coverage*

Move over the far right-hand side (6 icons)



Use the Legend to view the legend for all visible layers

- Whatever layers are visible on the screen will appear within this legend



Use the Layer List to turn data layers on/off

- This allows a user to have control and turn layers on off
- If a layer is greyed out – it means that a user has to zoom in closer in order to see the data (e.g., Locations)



Use the Filter By County button to zoom in to a specific county of interest



Use the Print button to create an export of the map (e.g., pdf, jpeg)



Use the base map Gallery to turn on satellite imagery or change the underlying base map



Use the Select Eligible ARPA Locations button to extract data from the map

Navigate to left-hand side of the map



Zoom allows a user to go in and out of the map OR use mouse to do this



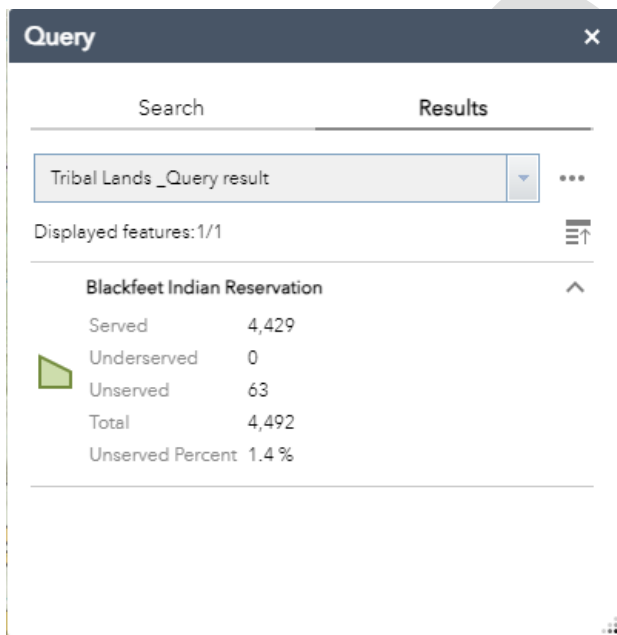
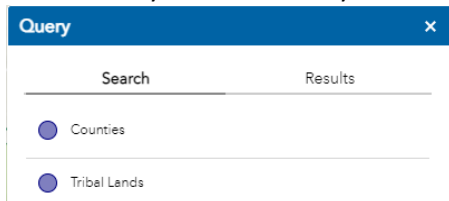
Default extent (or the home button) – if you want to return to see entire State – you select this icon



My location icon – if you select this – map will ask to use browser location and find you on the map (shortcut to having to type in your address)



Query button allows you to learn high level information at the county or tribal lands

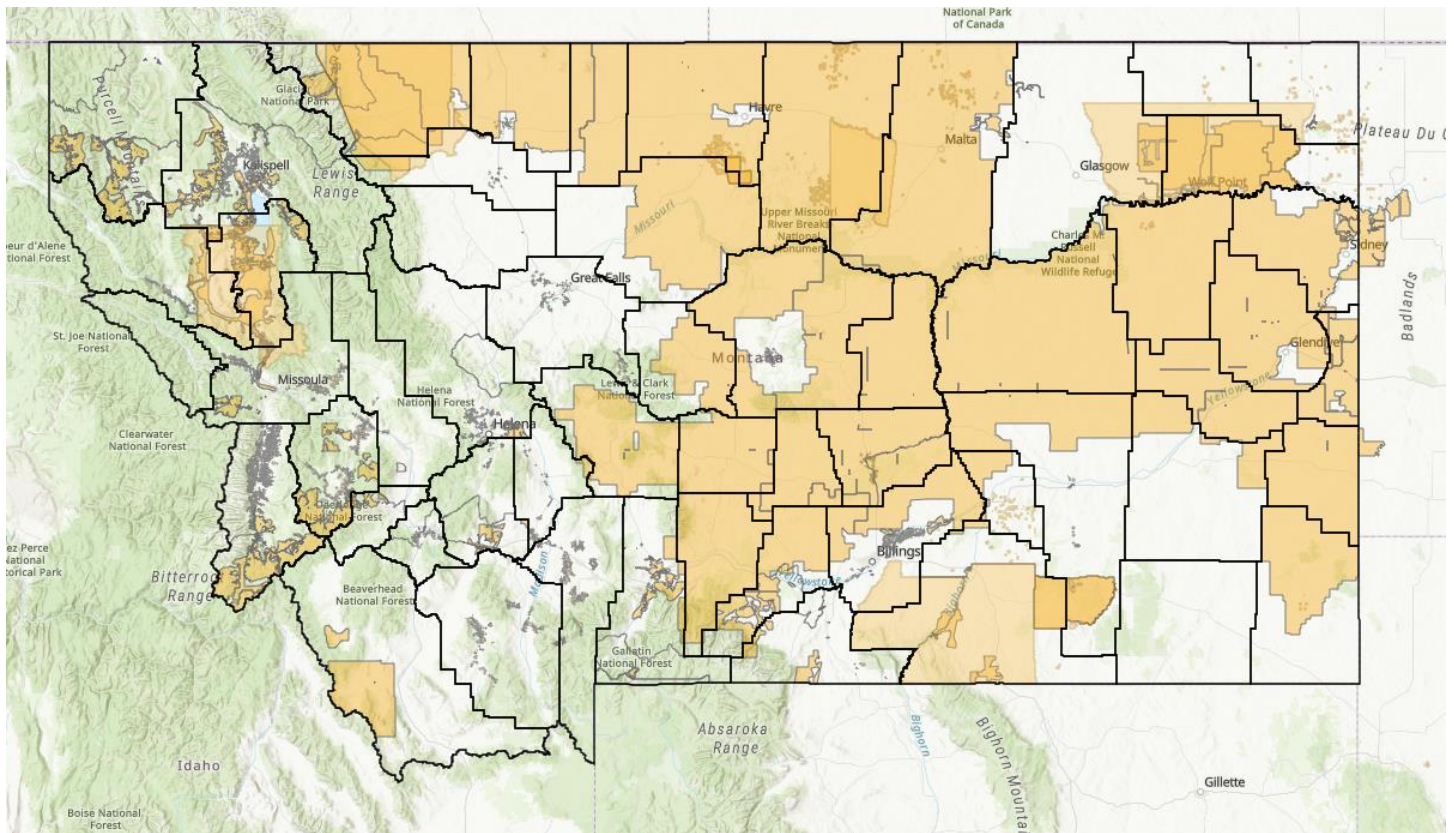


- Search bar
 - “All” will search for all 4 types of geography (address or place, counties, census block groups, tribal lands)

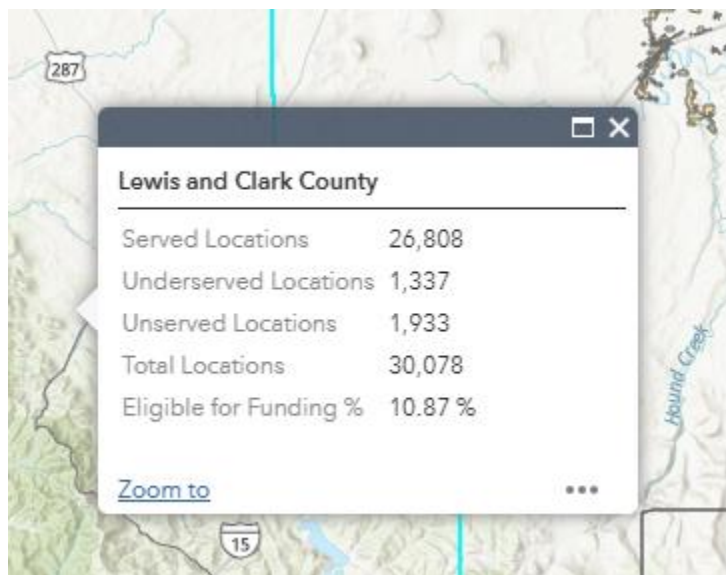


- Example inputs with ALL
 - **Address** = “709 Parkhill Drive, Billings, MT, 59102, USA”
 - Type in “709 Parkhill”, and show the type-ahead capability to the tool
 - Type rest of address and show that it finds one record
 - *NOTE: Short forms for directions and street types are recommended*
 - **County** = “Yellowstone”
 - Type “Yellowstone”
 - If you scroll down - county is listed at the bottom
 - **Census Block Group** = “300290008012”
 - Type “300290008012”
 - If you scroll down – census block group is listed at the bottom
 - **Tribal Lands** = “Blackfeet Indian Reservation”
 - Type “Blackfeet Indian Reservation”
 - If you scroll down – Tribal Land is listed at the bottom

2.2 MAP ORIENTATION

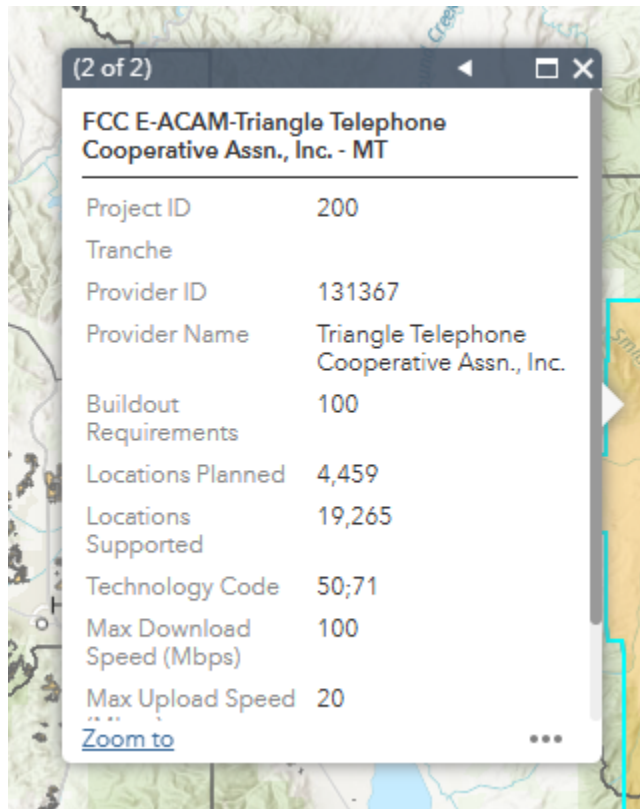


- Select a **County boundary**



- Each boundary has a popup window that displays information
- For a county – you see the following:
 - # of locations by the serviceability levels (served, underserved, unserved)
 - Total # of locations in that county

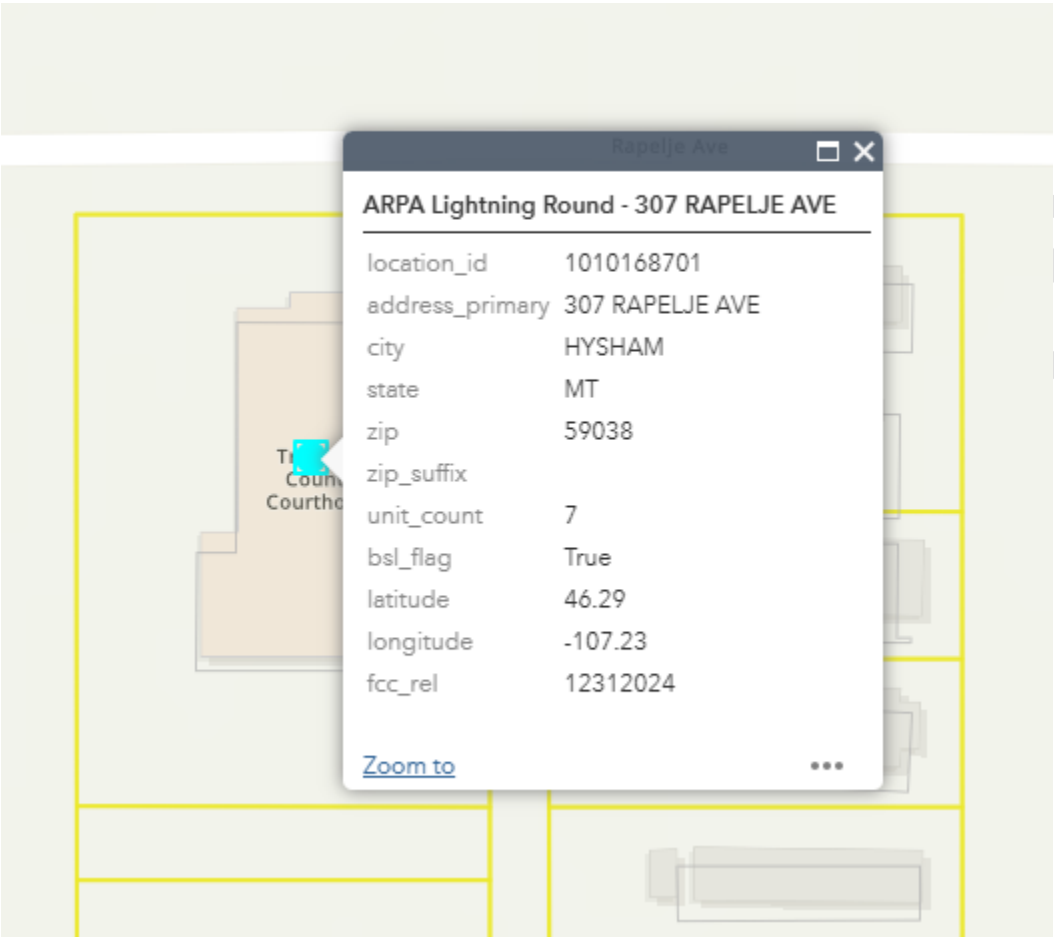
- % of locations which are unserved/underserved
- Select a **Federal Fund boundary**
 - Federal funding boundaries have been added to the map as per legend



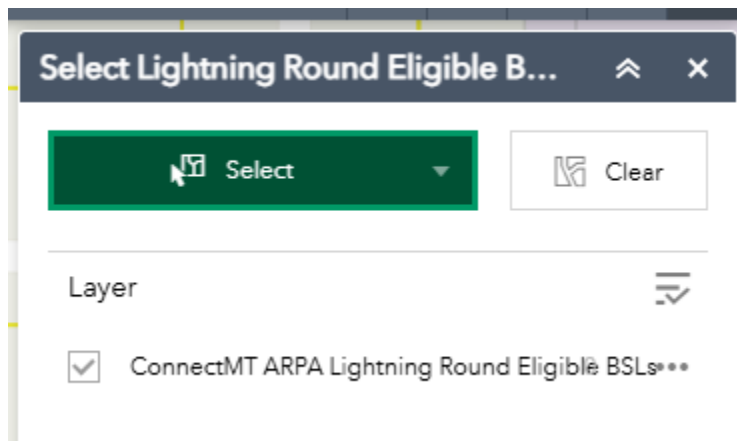
2.3 DOWNLOAD ARPA ELIGIBLE LOCATIONS (USING SELECTION TOOL)

Map 2 allows credentialed users to download ARTPA eligible locations from the map as CSV files.

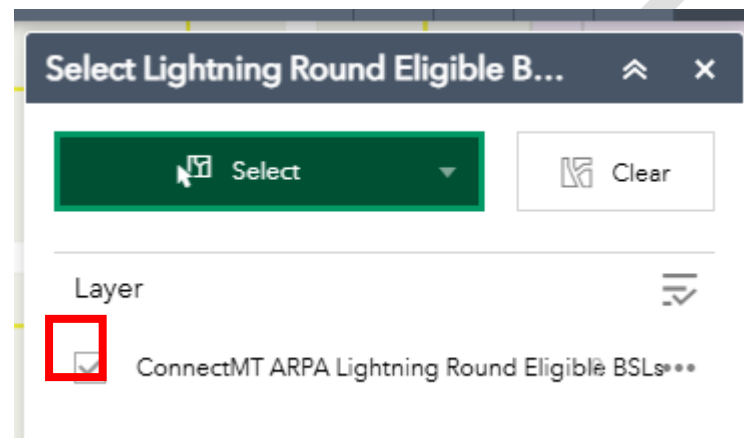
Example area (307 RAPELJE AVE, HYSHAM, MT, 59038, USA)



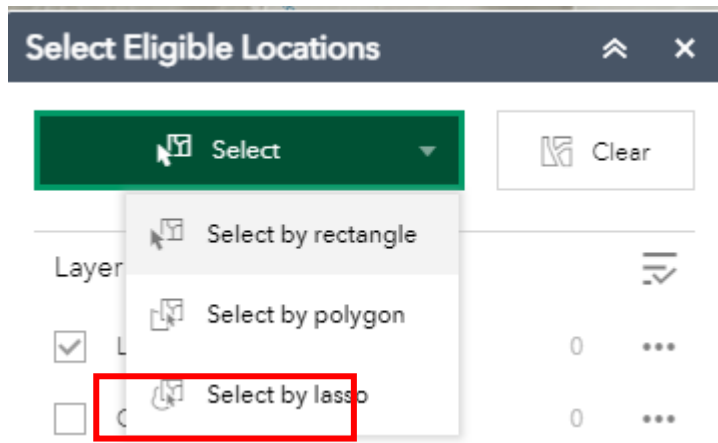
- Use Select Eligible Locations tool



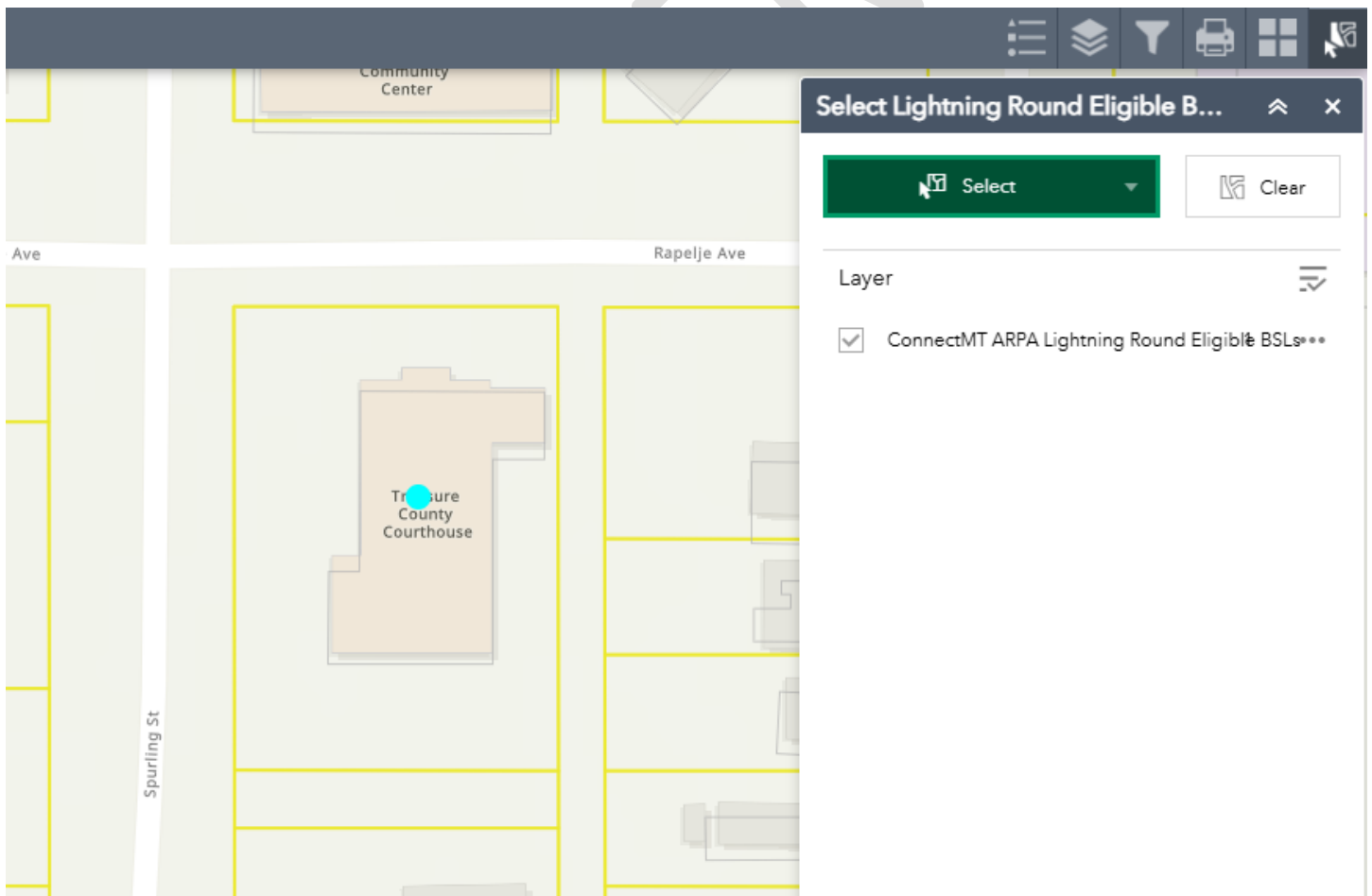
- Turn on layer



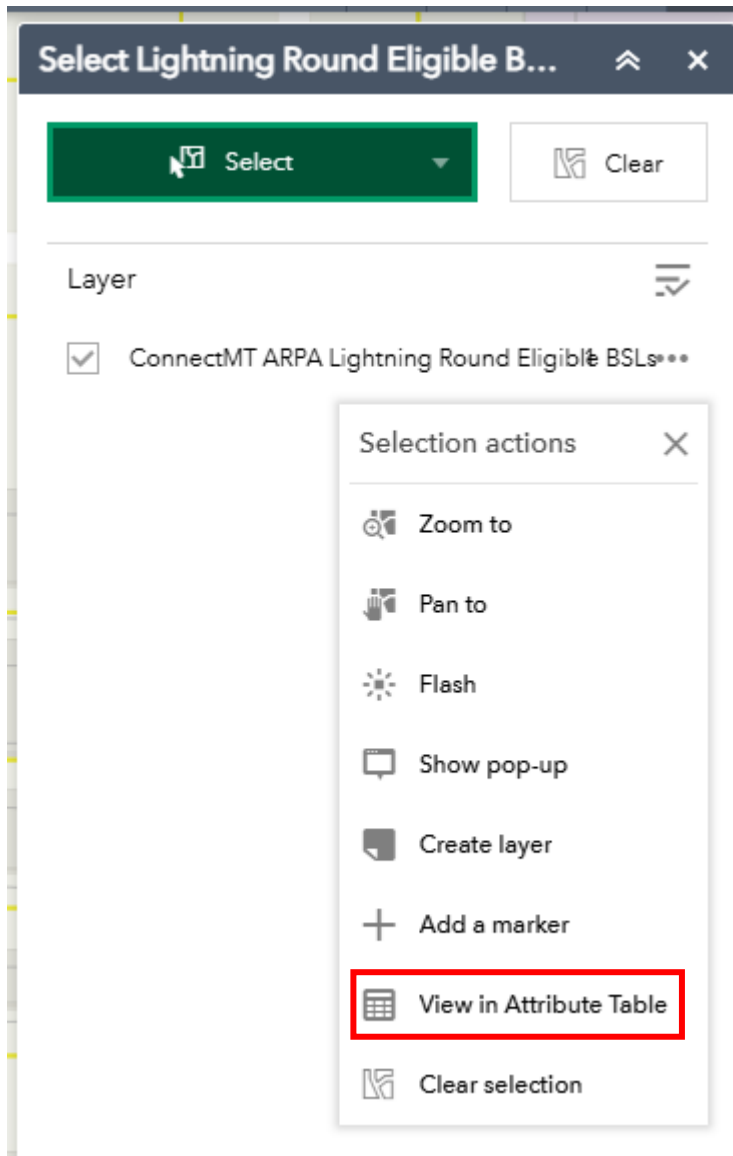
- Select the option that you wish to use by going to the drop-down arrow on the Select button
 - Select by rectangle
 - Select by polygon
 - Select by lasso



- Example: Select by lasso (select the points on the screen)
 - NOTE: The # of locations is reported beside Locations layer (e.g., 1)



- Select ellipsis (...) to see menu



- Select “View in Attribute Table”
- Selected data will appear in the table at the bottom of the screen (NOTE: notice how count 1 is the same as 1 feature reported by table)
 - NOTE: If the number of records in the Select Eligible Locations does not match the number of selected records in the attribute table (bottom) – zoom backwards one zoom level to get the numbers to match so that these are extracted to the CSV file

location_id	address_primary	city	state	zip	zip_suffix	unit_count	bsl_flag	latitude	longitude	fcc_rel
1010168701	307 RAPELJE AVE	HYSHAM	MT	59038		7	True	46.29	-107.23	12312024

- Select Export selected to CSV

location_id	address_primary	city	state	zip	zip_suffix	unit_count	bsl_flag	latitude	longitude	fcc_rel
1010168701	307 RAPELJE AVE	HYSHAM	MT	59038		7	True	46.29	-107.23	12312024

- The following message should appear:

Export to CSV

Export data to CSV file?

OK

Cancel

- CSV file will download

A	B	C	D	E	F	G	H	I	J	K	L	M
location_id	address_primary	city	state	zip	zip_suffix	unit_count	bsl_flag	latitude	longitude	fcc_rel	x	y
1010168701	307 RAPELJE AVE	HYSHAM	MT	59038		7	TRUE	46.29174733	-107.2333902	12312024	-11937166.39	5827225.833257916

2.4 DOWNLOAD ARPA ELIGIBLE LOCATIONS (USING FILTER TOOL)

Map 2 allows credentialed users to download ARTPA eligible locations from the map as CSV files.

Filtering (export **ALL** records)

- If you are interested in just looking at specific types of properties (e.g., ALL properties)
- Open table view (i.e., use the arrow at the bottom of the screen)

The screenshot shows the Map 2 interface. At the top, there is a search bar with the text "Find address or place". Below the search bar, there are map controls including a zoom in (+) and zoom out (-) button, a home button, and a layer selector. The map displays a view of Montana with various geographical features and cities labeled. A table at the bottom shows a list of ARPA eligible locations. The table has columns for location_id, address_primary, city, state, zip, zip_suffix, unit_count, bsl_flag, latitude, longitude, and fcc_rel. The table is currently showing 6 records, with a total of 206 features selected.

location_id	address_primary	city	state	zip	zip_suffix	unit_count	bsl_flag	latitude	longitude	fcc_rel
1047100595	2526 HIGHWAY 78	ABSAROKEE	MT	59001	6304	1	True	45.42	-109.47	12312024
1047100597	2587 HIGHWAY 78	ABSAROKEE	MT	59001	6304	1	True	45.43	-109.47	12312024
1047101067	2803 HIGHWAY 78	ABSAROKEE	MT	59001	6301	1	True	45.45	-109.45	12312024
1047101124	2617 HIGHWAY 78	ABSAROKEE	MT	59001	6303	1	True	45.44	-109.47	12312024
1047101126	32 SADDLE BACK TRL	ABSAROKEE	MT	59001		1	True	45.45	-109.46	12312024
1043410964	674 BUTCHER	ABSAROKEE	MT	59001		1	True	45.41	-109.43	12312024

206 features 0 selected

- Select Options

Educational InstitutionsPublic Safety OrganizationsHealth ProvidersLibrariesPublic Housing OrganizationsCommunity Support OrganizationsLocationsFCC USAC: Connect America Fund II (CAF II)FCC USAC:

OptionsFilter by map extentZoom toClear selectionRefresh

Show selected recordsShow related recordsFilterShow/Hide columnsExport all to CSV

DILLON MT 59725

Ability	Version ID	Location LID	Address LID	Address	Unit	City	State	ZipCode	Building Name USPS	County	Country Code
	2023Q2	0700E3ZTQISXPV	0606EYC230VWL	12420 HIGHWAY HIGHWAY 324		DILLON	MT	59725		Beaverhead	US
Served	2023Q2	0701085CG9G7V	0604CX3IN26S0L	12931 MT HIGHWAY 324		DILLON	MT	59725		Beaverhead	US

11 features 0 selected

- Select Export to CSV

OptionsFilter by map

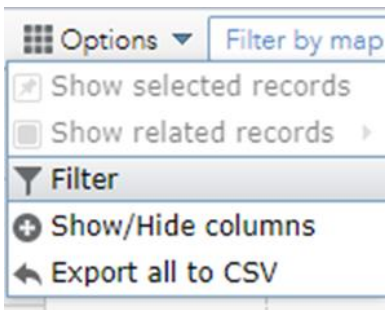
Show selected recordsShow related recordsFilterShow/Hide columnsExport all to CSV

- If you are interested in just looking at specific types of properties (e.g., SOME properties)
- Open table view (i.e., use the arrow at the bottom of the screen)

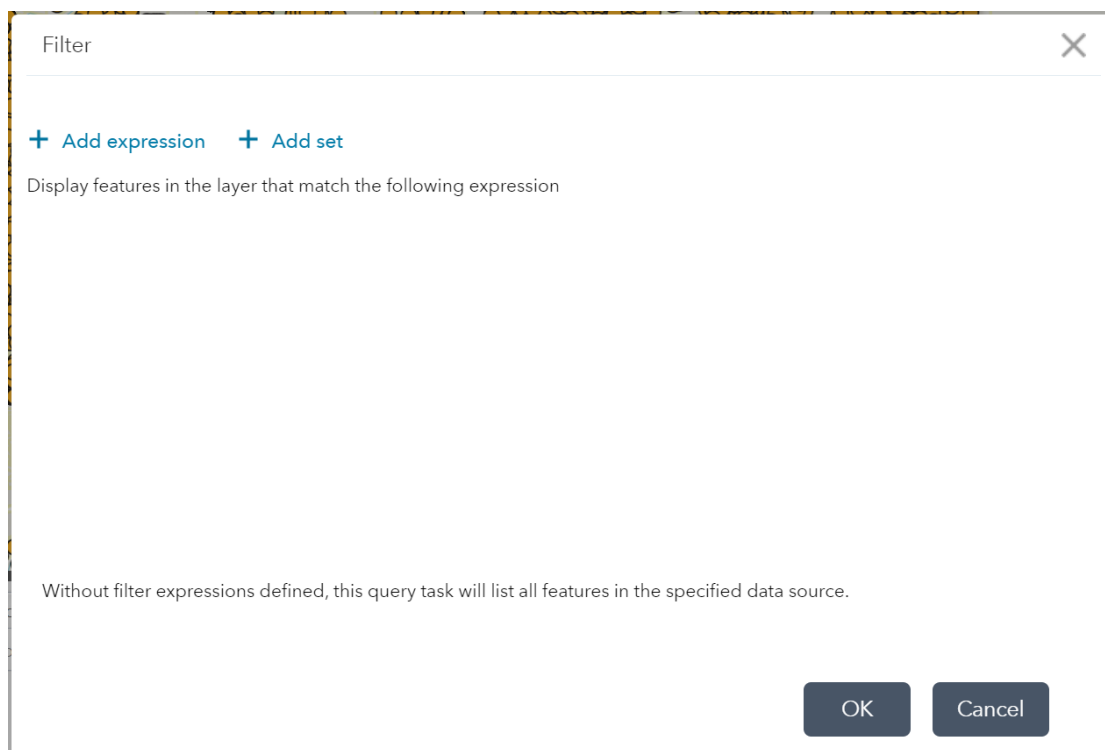
- Select Options

16 | Page © LightBox, 2023. All Rights Reserved.

- Select Filter



- The following window pops up:



- Select Add expression
- Fill out the following to select the Cities of interest:

Filter ✕

+ Add expression
+ Add set

Display features in the layer that match the following expression

city (String) ▼

is any of ▼

1 selected ▼ ⚙️ ✕

☐ Case sensitive

Search

☒ ABSAROCKEE
 ☐ ACTON
 ☐ ALBERTON
 ☐ ALZADA
 ☐ ANACONDA
 ☐ ARLEE
 ☐ ASHLAND
 ☐ AUGUSTA
 ☐ AVON
 ☐ BAINVILLE

≡
≡
🗑️

2526 HIGHWAY 78	ABSAROCKEE	MT
2587 HIGHWAY 78	ABSAROCKEE	MT
2803 HIGHWAY 78	ABSAROCKEE	MT

- Select OK button
- Select Options
- Select Export all to CSV

nect Loan and Grant Program Round 5

US Treasury American Rescue Plan Care Act Capital Projects Fund (ARPA CPF)

NTIA Tribal Broadband Connectivity Program (TBCP)

ConnectMT ARPA Lightning Round Eligible BSLs

Options

Filter by map extent

Zoom to

Clear selection

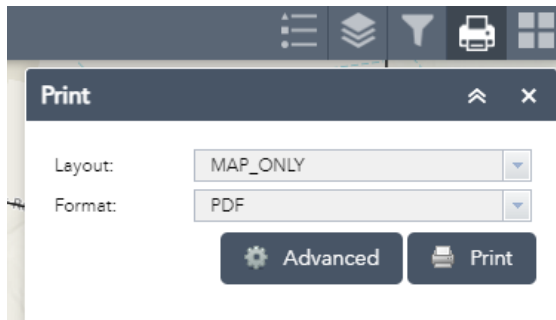
Refresh

	ss_primary	city	state	zip	zip_suffix	unit_count	bsl_flag	latitude	longitude	fcc_rel	
☒ Show selected records	HIGHWAY 78	ABSAROCKEE	MT	59001	6304	1	True	45.42	-109.47	12312024	
☐ Show related records	HIGHWAY 78	ABSAROCKEE	MT	59001	6304	1	True	45.43	-109.47	12312024	
Filter	HIGHWAY 78	ABSAROCKEE	MT	59001	6301	1	True	45.45	-109.45	12312024	
Show/Hide columns	1047101124	2617 HIGHWAY 78	ABSAROCKEE	MT	59001	6303	1	True	45.44	-109.47	12312024
Export all to CSV	1047101126	32 SADDLE BACK TRL	ABSAROCKEE	MT	59001		1	True	45.45	-109.46	12312024
	1043410964	674 BUTCHER	ABSAROCKEE	MT	59001		1	True	45.41	-109.43	12312024

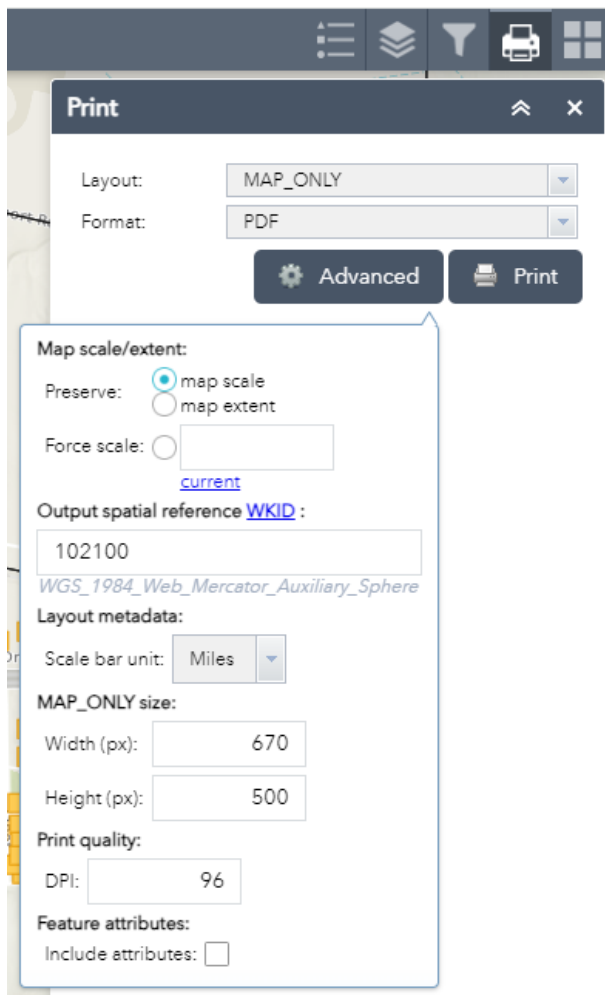
15 features 0 selected

2.5 CREATE MAP PRINT

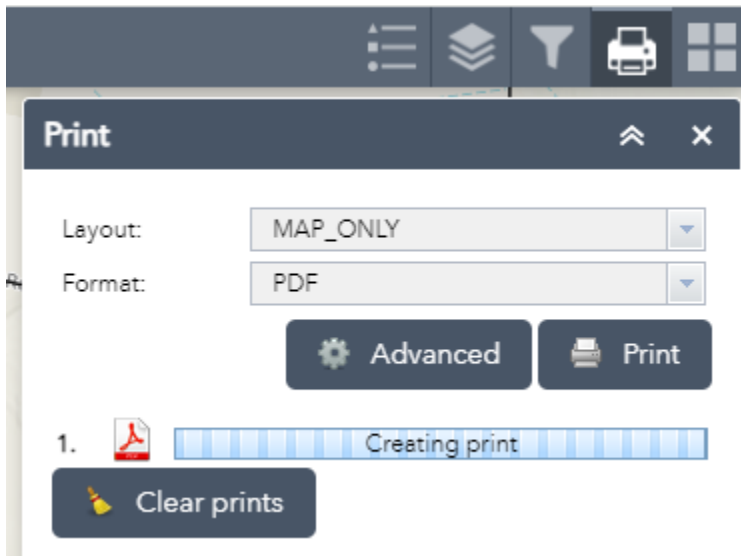
- Select  button
- Following dialog should appear:



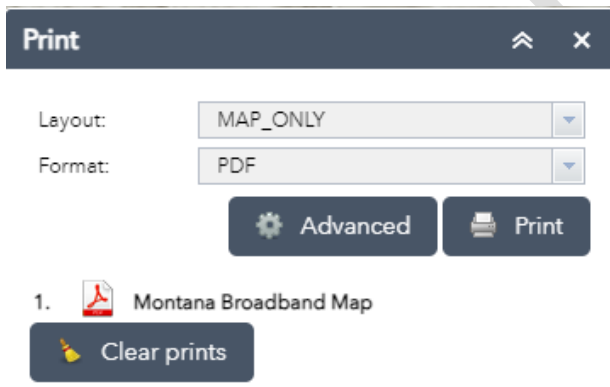
- Select Advanced



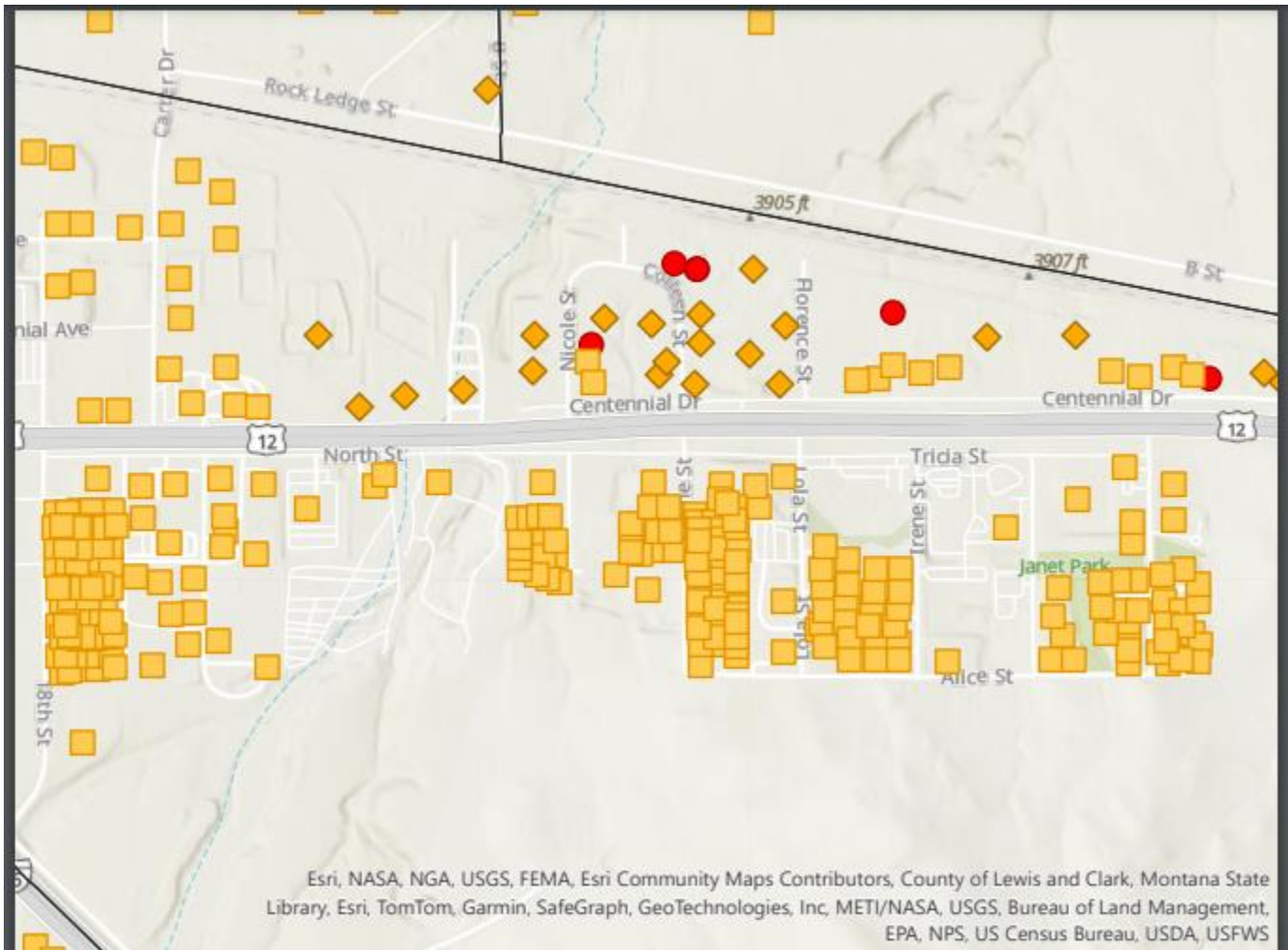
- Select Print button



- Status bar will say "Creating print"
- Once completed:



- Select "1. Montana Broadband Map"
- New window will be opened and pdf will be displayed



- Use Clear Prints button if you wish to delete all files created (to date)
- NOTE: Other options can be utilized within the Print Map dialog such as:
 - Select different Layout options
 - Select different Formats (png, jpeg, etc)

3 SUPPORT

If you have any questions about how to use these maps, please contact LightBox Customer Success at:

- MontanaSPCoordinator@lightboxre.com

4 VERSION MANAGEMENT

Version	Edited By	Date	Notes
1.0	LightBox	10/9/2025	Initial Document
1.1	LightBox	10/9/2025	Update