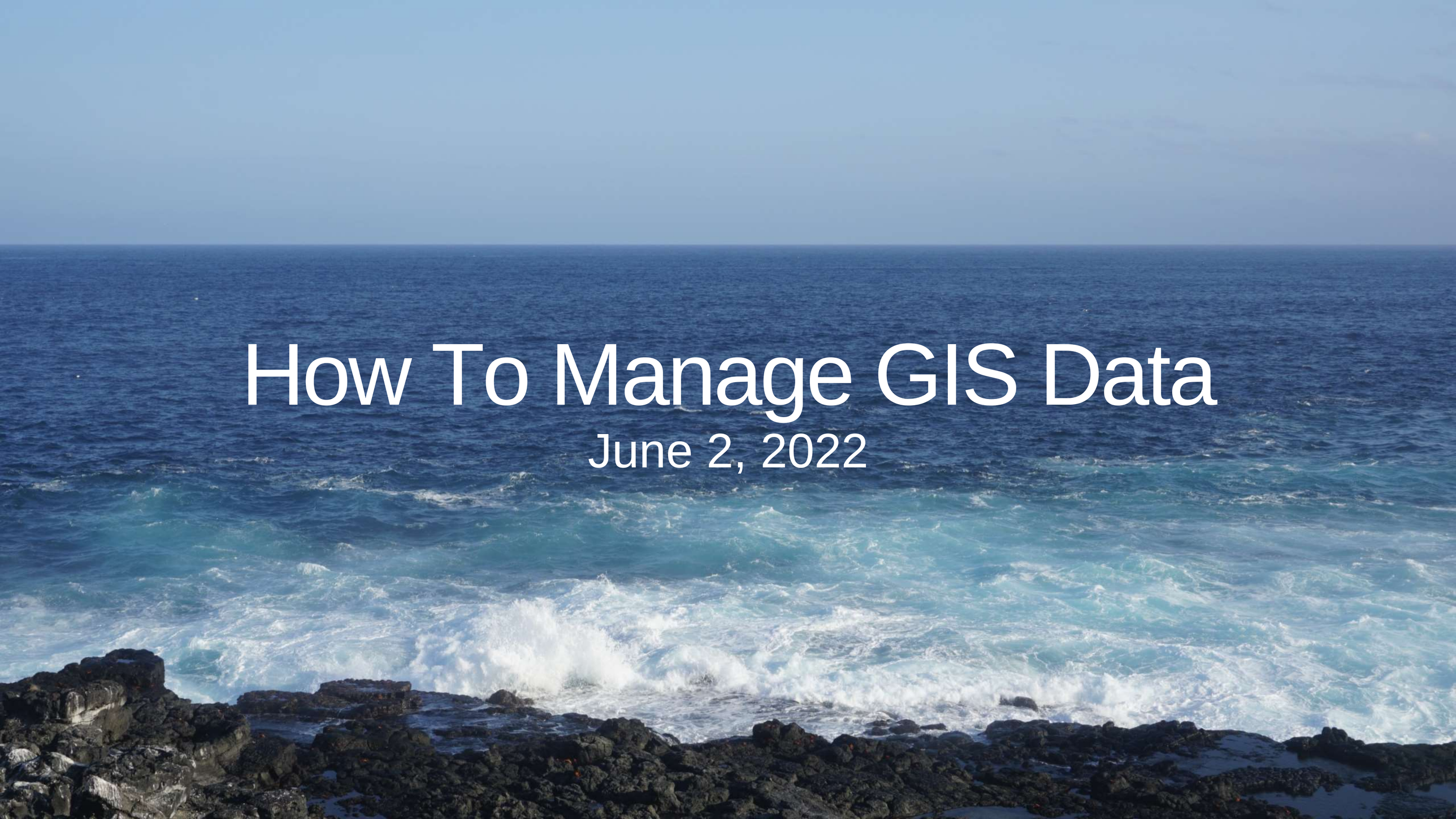


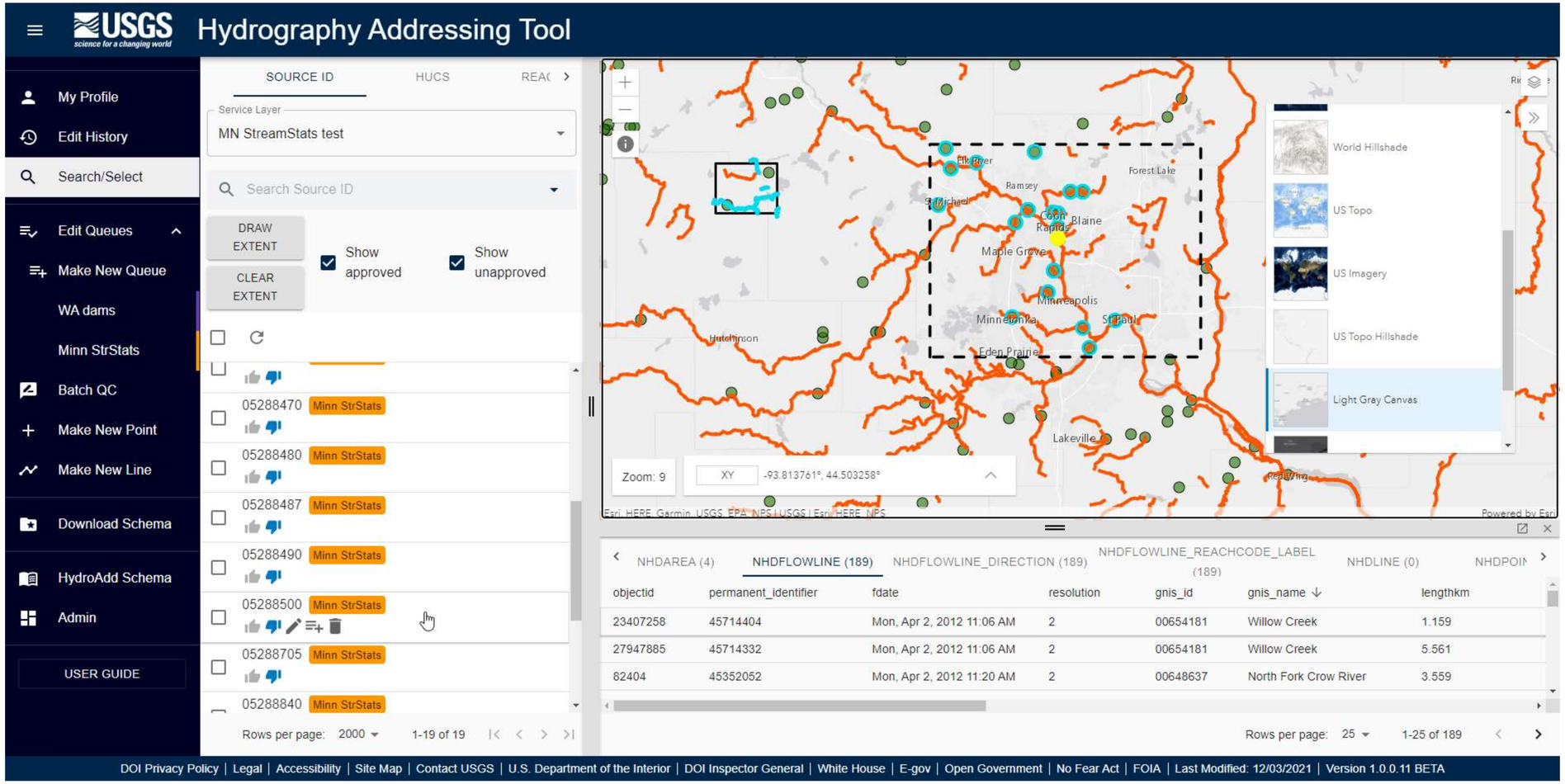
How To Manage GIS Data

June 2, 2022

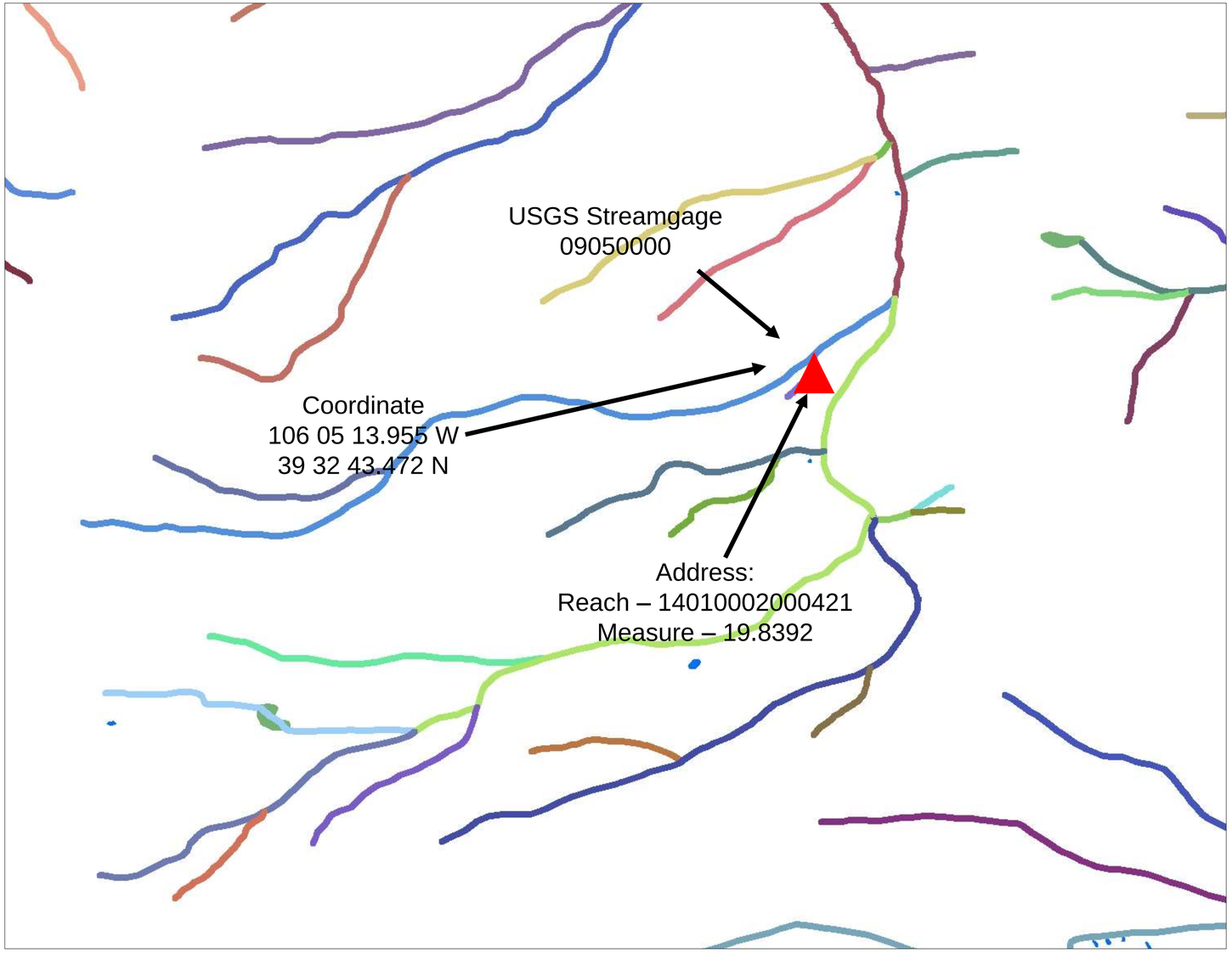
Overview

- Discussion of state management of GIS data
- Demo of creating GIS data from NHDPlus in ArcGIS Pro-Jesse
- Overview of HydroAdd Tool-Shelly

Introducing HydroAdd



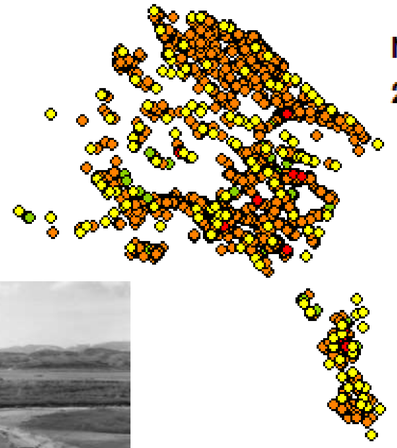
NHD is a Hydrographic Addressing System



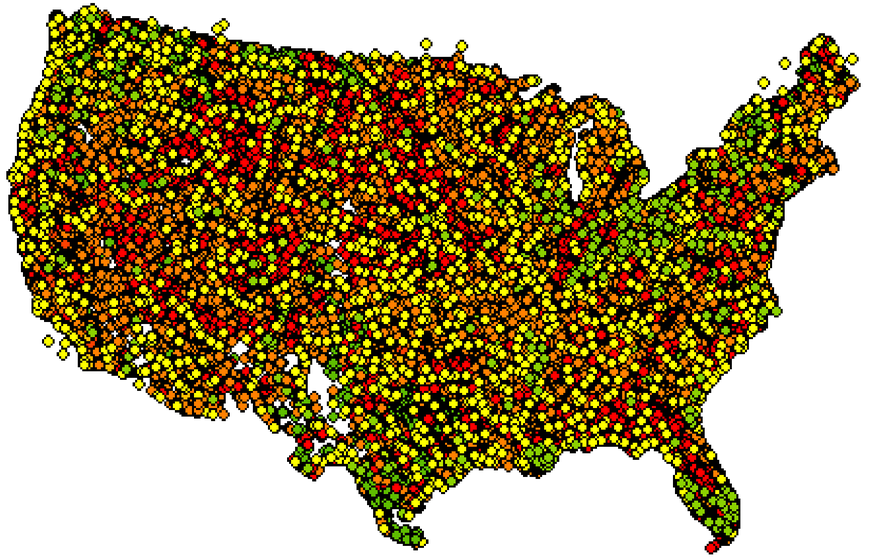
Other Terms for Addressing

- Addressing
- Linear referencing
- Indexing
- Linking
- “Events”

NHD Point Events



NHDPointEvent
286,005, EventType
- 60,439, Dam
- 40, Flow Alteration Unknown
- 66, Flow Alteration=Addition
- 1,283, Flow Alteration=Removal
- 2,207 Hydrologic Unit Outlet 8
- 9,036, Streamgage: Streamgage Status=Active; Record=Continuous
- 1,005, Streamgage: Streamgage Status=Active; Record=Partial
- 118,149, Streamgage: Streamgage Status=Inactive
- 93,780, Water Quality Station

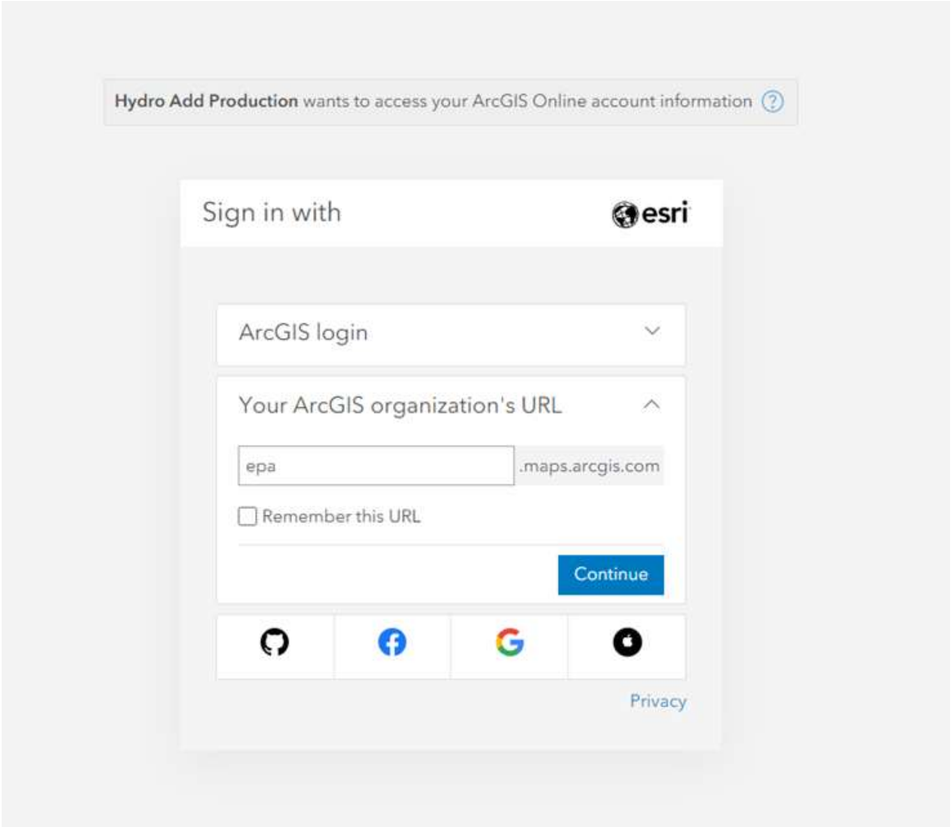


Addressed Data for Tracking Assets

Any Hydro Observation can be Addressed to the NHD

- Point source pollution
- Biological sampling sites
- Invasive species in riparian zones
- Recreational stretches of river
- Llama river crossings
- Hyacinth overgrowth
- Supply canals
- Fish ladders

Software Requirements

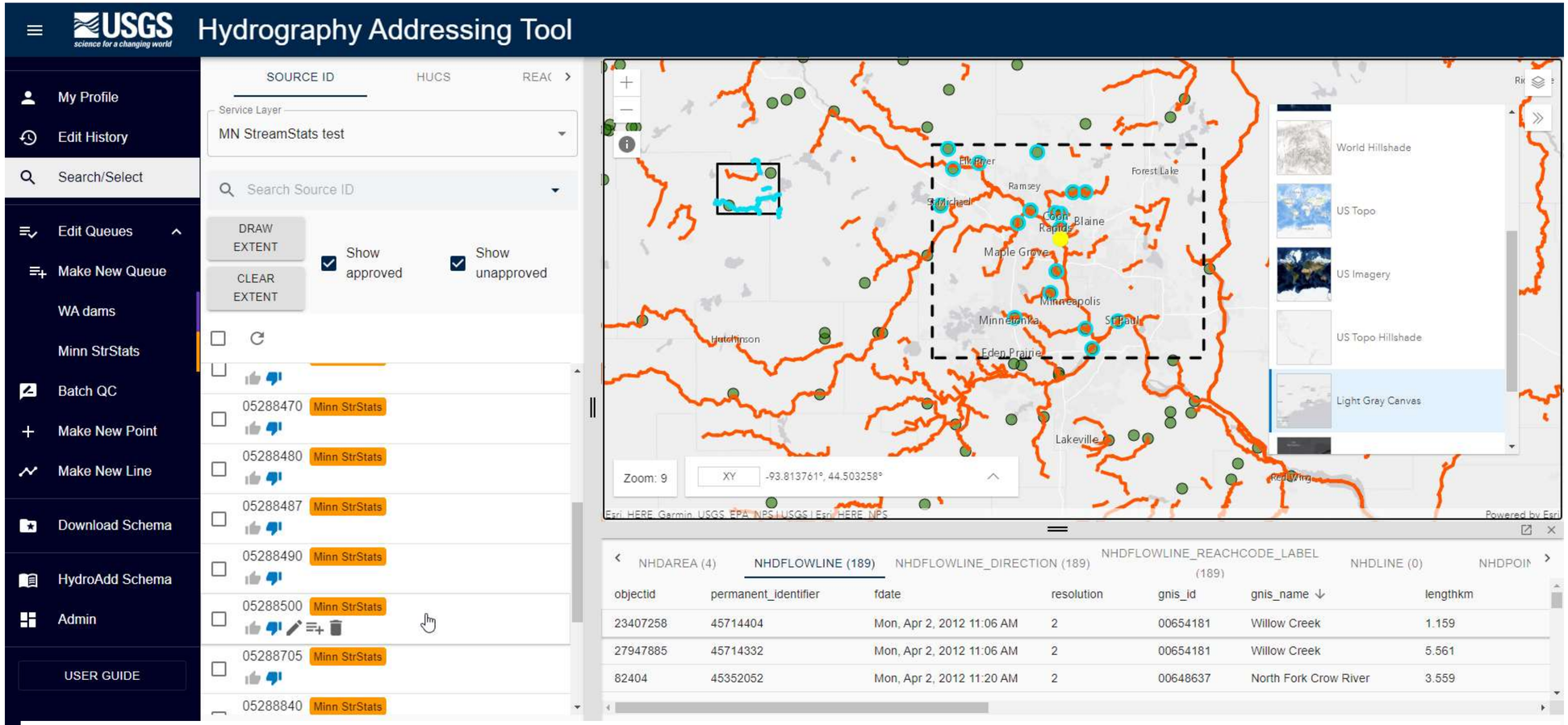


ArcGIS Online (AGOL) account

Free option available*

Introducing HydroAdd Tool

Create and maintain addressed data online



https://hydromaintenance.nationalmap.gov/hydro-add

HydroAdd Basic Workflow

Prepare your data for HydroAdd

1. Download the HydroAdd empty schema from the HydroAdd tool.
2. Add any fields you need to the HydroAdd schema with ArcGIS Pro.
3. Append your data to the empty schema with the Append tool.

Share your data as a web map at ArcGIS Online

1. Create a group at AGOL.
2. Enter group membership.
3. Prepare a map with ArcGIS Pro.
4. Publish a web map from ArcGIS Pro to the AGOL group.
5. Enable editing of the web layer in AGOL.

Add the web map to HydroAdd

1. Copy the web layer URL from AGOL.
2. Add a new Esri service in HydroAdd
3. Paste the URL

Use HydroAdd to address your data to the NHD

1. Make new points, lines.
2. Search and select.
3. Create an editing queue.
4. Identify items.
5. Run Batch QC.
6. Publish to AGOL.

Prepare your data for HydroAdd

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2.Search and select.
3.Create an editing queue.
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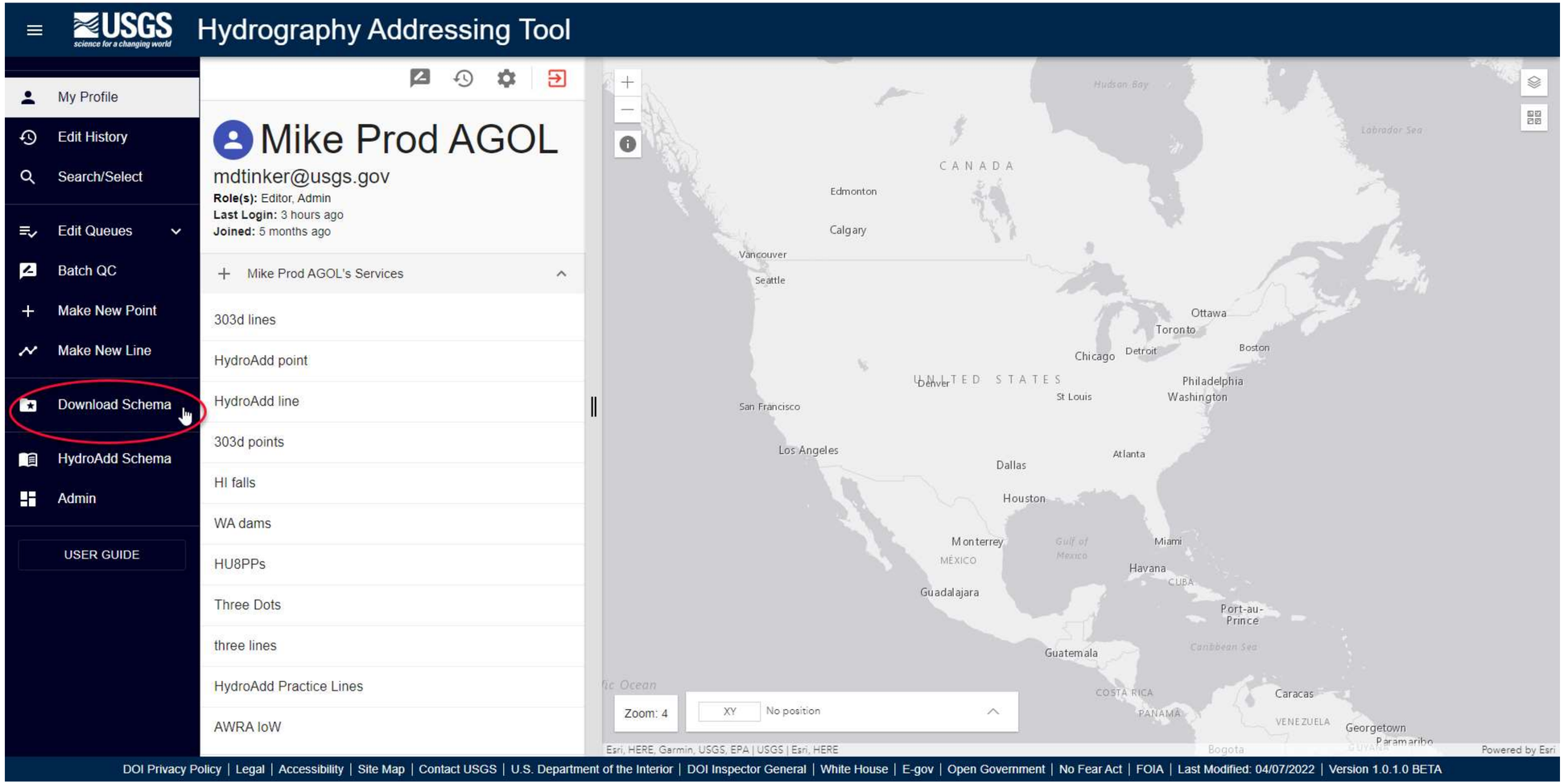
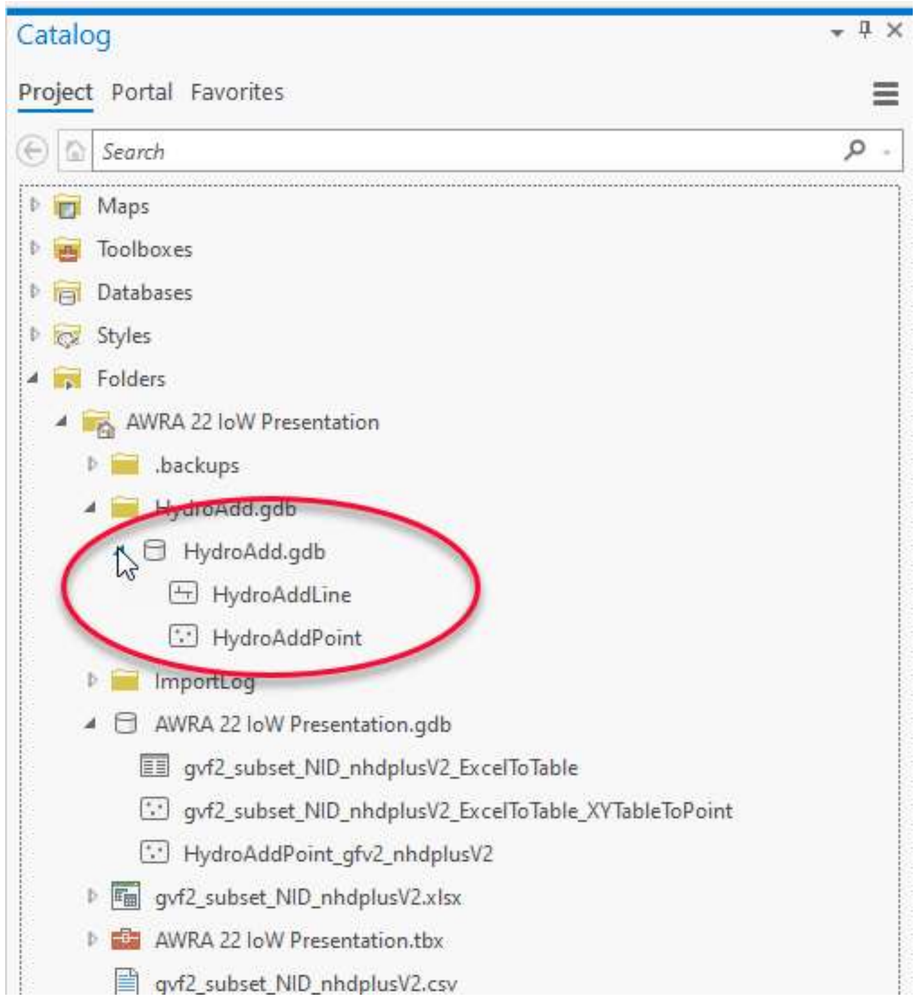
Download the empty HydroAdd Schema from HydroAdd tool



Place the HydroAdd schema into the ArcGIS Pro project



HydroAdd point data schema

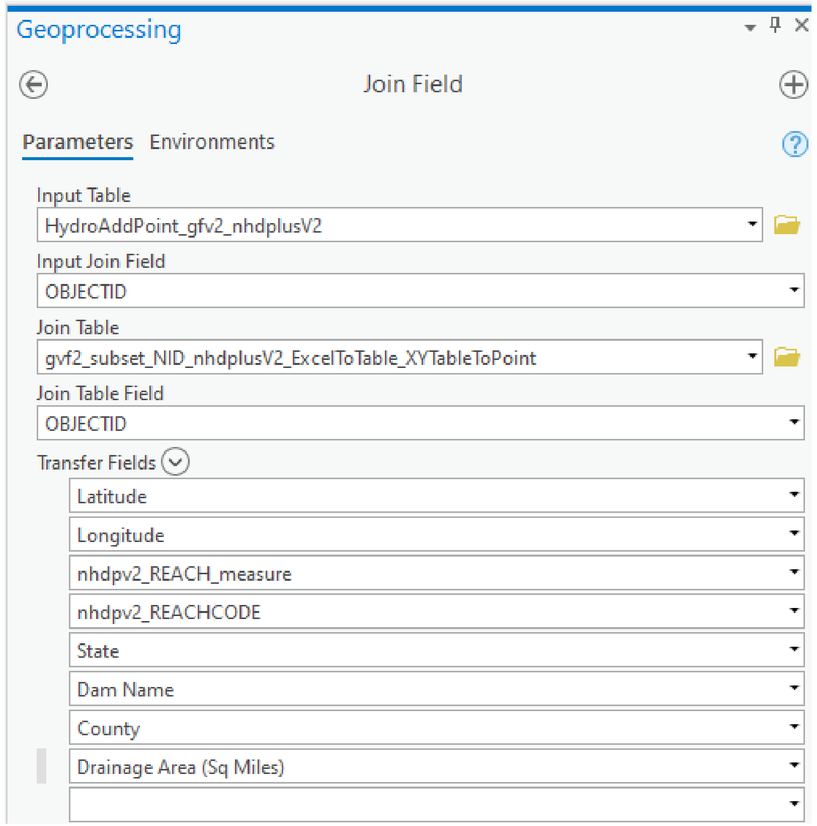
Field Name	Alias	Data Type	Allow NULL	Highlight	Number Format	Domain	Default	Length
SourceDataset	SourceDataset	Text	☑	☐				130
SourceFeatureURL	SourceFeatureURL	Text	☑	☐				255
FeatureType	FeatureType	Text	☑	☐				60
ReachCode	ReachCode	Text	☑	☐				14
Measure	Measure	Double	☑	☐	Numeric			
ReachSMDate	ReachSMDate	Date	☑	☐				
AddressDate	AddressDate	Date	☑	☐				
Catchment	Catchment	Double	☑	☐	Numeric			
HU	HU	Text	☑	☐				16
OnNetwork	OnNetwork	Short	☐	☐	Numeric	NoYesDomain	No	
HydroAddressID	HydroAddressID	Text	☑	☐				40
GNIS_NAME	GNIS_NAME	Text	☑	☐				65
GNIS_ID	GNIS_ID	Text	☑	☐				10
SnapTolerance	SnapTolerance	Double	☐	☐	Numeric		0	
SnapDistance	SnapDistance	Double	☐	☐	Numeric		0	
InSnapTolerance	InSnapTolerance	Short	☐	☐	Numeric	NoYesDomain	No	
QCTolerance	QCTolerance	Double	☐	☐	Numeric		0	
InQCTolerance	InQCTolerance	Short	☐	☐	Numeric	NoYesDomain	No	
QCApproved	QCApproved	Short	☐	☐	Numeric	NoYesDomain	No	

HydroAdd Line schema

Field Name	Alias	Data Type	Allow NULL	Highlight	Number Format	Domain	Default	Length
SourceID	SourceID	Text	☐	☐				130
SourceAgency	SourceAgency	Text	☑	☐				130
SourceDataset	SourceDataset	Text	☑	☐				130
SourceFeatureURL	SourceFeatureURL	Text	☑	☐				255
FeatureType	FeatureType	Text	☑	☐				60
ReachCode	ReachCode	Text	☑	☐				14
FromMeasure	FromMeasure	Double	☑	☐	Numeric			
ToMeasure	ToMeasure	Double	☑	☐	Numeric			
ReachSMDate	ReachSMDate	Date	☑	☐				
AddressDate	AddressDate	Date	☑	☐				
FromCatchment	FromCatchment	Double	☑	☐	Numeric			
ToCatchment	ToCatchment	Double	☑	☐	Numeric			
FromHU	FromHU	Text	☑	☐				16
ToHU	ToHU	Text	☑	☐				16
OnNetwork	OnNetwork	Short	☐	☐	Numeric	NoYesDomain	No	
HydroAddressID	HydroAddressID	Text	☑	☐				40
GNIS_NAME	GNIS_NAME	Text	☑	☐				65
GNIS_ID	GNIS_ID	Text	☑	☐				10
SnapTolerance	SnapTolerance	Double	☐	☐	Numeric		0	
FromSnapDistance	FromSnapDistance	Double	☐	☐	Numeric		0	
ToSnapDistance	ToSnapDistance	Double	☐	☐	Numeric		0	
MaxSnap	MaxSnap	Double	☐	☐	Numeric		0	
InSnapTolerance	InSnapTolerance	Short	☐	☐	Numeric	NoYesDomain	No	
QCTolerance	QCTolerance	Double	☐	☐	Numeric		0	
InQCTolerance	InQCTolerance	Short	☐	☐	Numeric	NoYesDomain	No	
LengthChangeTolerance	LengthChangeTolerance	Double	☐	☐	Numeric		0	
LengthChange	LengthChange	Double	☐	☐	Numeric		0	
InLengthChangeTolerance	InLengthChangeTolerance	Short	☐	☐	Numeric	NoYesDomain	No	
QCApproved	QCApproved	Short	☐	☐	Numeric	NoYesDomain	No	
Shape_Length	Shape_Length	Double	☑	☐	Numeric			

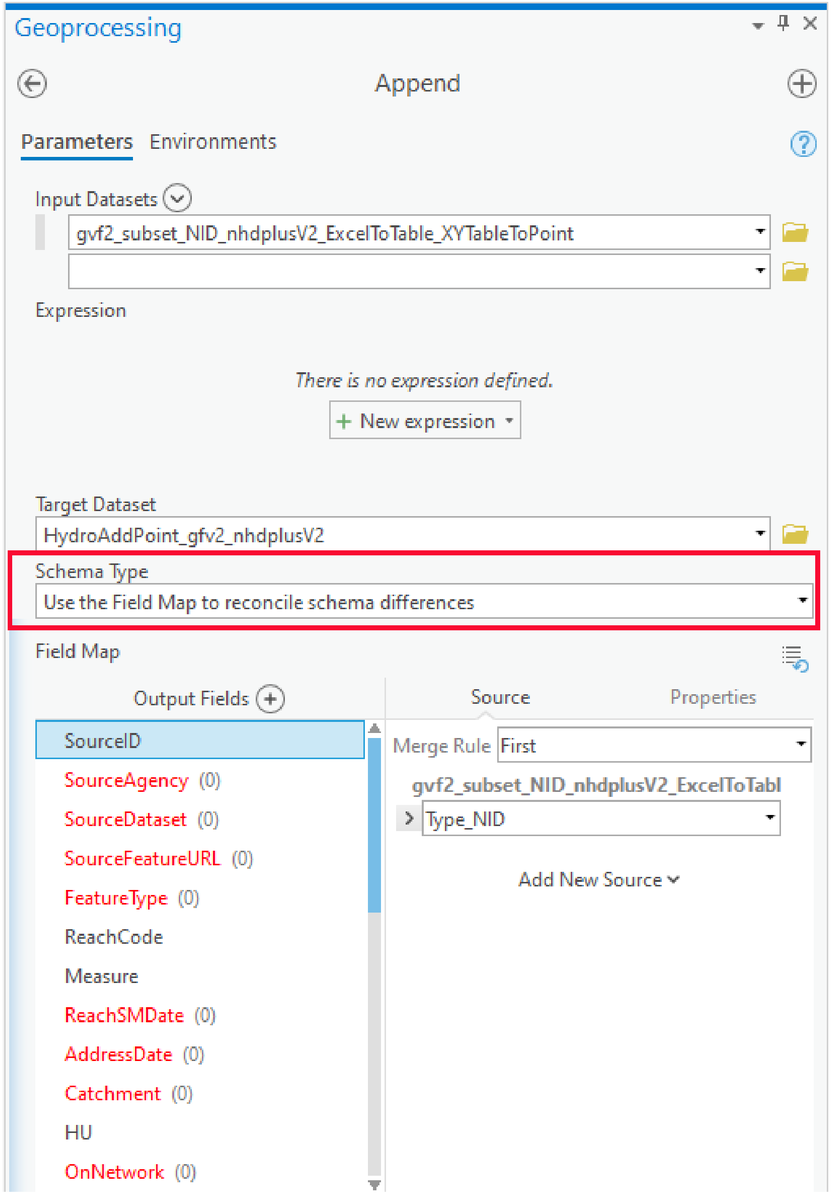
Add fields to the HydroAdd schema

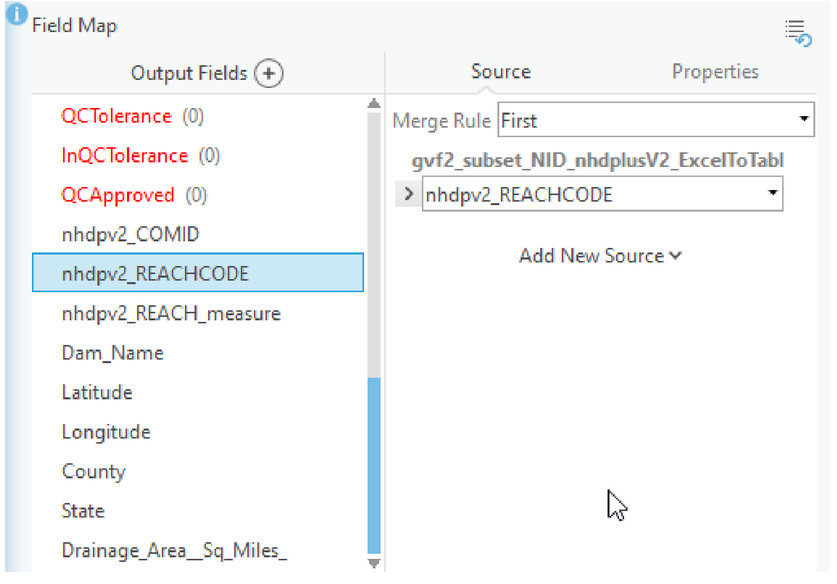
ArcGIS Pro: Join Field tool



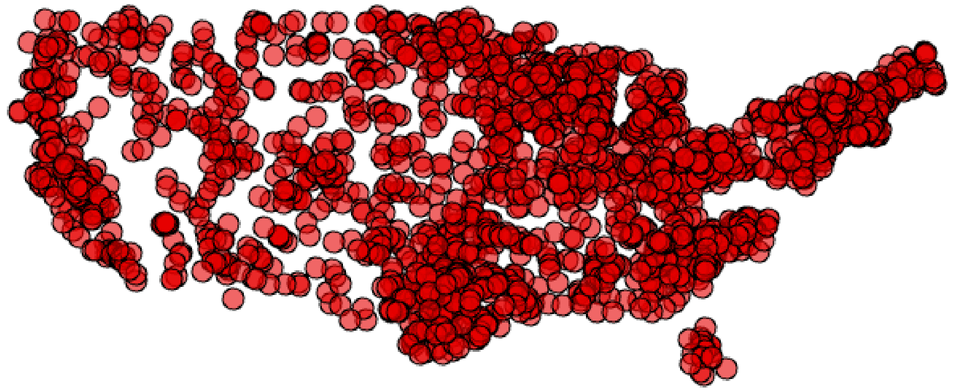
Field Name	Alias	Data Type	Allow NULL	Highlight	Number Format	Domain	Default	Length
SourceID	SourceID	Text	☐	☐				130
SourceAgency	SourceAgency	Text	☑	☐				130
SourceDataset	SourceDataset	Text	☑	☐				130
SourceFeatureURL	SourceFeatureURL	Text	☑	☐				255
FeatureType	FeatureType	Text	☑	☐				60
ReachCode	ReachCode	Text	☑	☐				14
Measure	Measure	Double	☑	☐	Numeric			
ReachSMDate	ReachSMDate	Date	☑	☐				
AddressDate	AddressDate	Date	☑	☐				
Catchment	Catchment	Double	☑	☐	Numeric			
HU	HU	Text	☑	☐				16
OnNetwork	OnNetwork	Short	☐	☐	Numeric	NoYesDomain	No	
HydroAddressID	HydroAddressID	Text	☑	☐				40
GNIS_NAME	GNIS_NAME	Text	☑	☐				65
GNIS_ID	GNIS_ID	Text	☑	☐				10
SnapTolerance	SnapTolerance	Double	☐	☐	Numeric		0	
SnapDistance	SnapDistance	Double	☐	☐	Numeric		0	
InSnapTolerance	InSnapTolerance	Short	☐	☐	Numeric	NoYesDomain	No	
QCTolerance	QCTolerance	Double	☐	☐	Numeric		0	
InQCTolerance	InQCTolerance	Short	☐	☐	Numeric	NoYesDomain	No	
QCApproved	QCApproved	Short	☐	☐	Numeric	NoYesDomain	No	
nhdpv2_COMID	nhdpv2_COMID	Long	☑	☐	Numeric			
nhdpv2_REACHCODE	nhdpv2_REACHCODE	Text	☑	☐				255
nhdpv2_REACH_measure	nhdpv2_REACH_measure	Double	☑	☐	Numeric			
Dam_Name	Dam Name	Text	☑	☐				255
Latitude	Latitude	Double	☑	☐	Numeric			
Longitude	Longitude	Double	☑	☐	Numeric			
County	County	Text	☑	☐				255
State	State	Text	☑	☐				255
Drainage_Area__Sq_Miles_	Drainage Area (Sq Miles)	Long	☑	☐	Numeric			

Append your data to the empty HydroAdd schema





AWRA'22 IoW Presentation



1:42,404,419 | 97.9646800°W 25.2974637°N | Selected Features: 0

HydroAddPoint_gfv2_nhdplusV2

Field: Add Calculate | Selection: Select By Attributes Zoom To Switch Clear Delete Copy

OBJECTID *	Shape *	SourceID	SourceAgency	SourceDataset	SourceFeatureURL	FeatureType	ReachCode	Measure	ReachSMDate	AddressDate
28	Point Z	ME00122	Maine	<Null>	https://damsafety.org...	Gravity;Concrete;Other	01030003000489	0	<Null>	<Null>
29	Point Z	ME00468	Maine	<Null>	https://damsafety.org...	Rockfill;Gravity;Timber...	01030003000537	0	<Null>	<Null>
30	Point Z	ME00302	Maine	<Null>	https://damsafety.org...	Earth;Gravity	01030003000789	0	<Null>	<Null>
31	Point Z	ME00101	Maine	<Null>	https://damsafety.org...	Rockfill;Masonry;Earth...	01030003000789	0	<Null>	<Null>
32	Point Z	ME00088	Federal Energy Regulat...	<Null>	https://damsafety.org...	Earth;Gravity;Concrete	01030003001833	18.0713	<Null>	<Null>
33	Point Z	ME00115	Maine	<Null>	https://damsafety.org...	Concrete	01030003002738	0	<Null>	<Null>
34	Point Z	ME00106	Federal Energy Regulat...	<Null>	https://damsafety.org...	Gravity;Concrete	01030003002797	0	<Null>	<Null>
35	Point Z	ME00096	Maine	<Null>	https://damsafety.org...	Rockfill;Concrete	01030003002853	0	<Null>	<Null>
36	Point Z	ME00089	Federal Energy Regulat...	<Null>	https://damsafety.org...	Earth;Gravity;Concrete	01030003002999	0	<Null>	<Null>
37	Point Z	NH00191	Federal Energy Regulat...	<Null>	https://damsafety.org...	Rockfill;Earth;Timber C...	01040001000006	10.75794	<Null>	<Null>
127	Point Z	NH00161	Federal Energy Regulat...	<Null>	https://damsafety.org...	Rockfill;Concrete;Other	01040001000024	0	<Null>	<Null>
38	Point Z	ME00025	Federal Energy Regulat...	<Null>	https://damsafety.org...	Rockfill;Buttress;Earth	01040001003431	0	<Null>	<Null>
39	Point Z	ME00026	Federal Energy Regulat...	<Null>	https://damsafety.org...	Rockfill;Buttress;Earth	01040001003439	0	<Null>	<Null>
40	Point Z	ME00004	Federal Energy Regulat...	<Null>	https://damsafety.org...	Gravity;Concrete	01040002000007	10.44906	<Null>	<Null>
41	Point Z	ME00011	Federal Energy Regulat...	<Null>	https://damsafety.org...	Rockfill;Timber Crib	01040002000031	0	<Null>	<Null>
43	Point Z	ME83013	Federal Energy Regulat...	<Null>	https://damsafety.org...	Masonry;Gravity	01040002000158	4.63325	<Null>	<Null>
44	Point Z	ME00379	Federal Energy Regulat...	<Null>	https://damsafety.org...	Masonry;Gravity;Conc...	01040002000163	0	<Null>	<Null>
45	Point Z	ME00207	Maine	<Null>	https://damsafety.org...	Earth;Gravity;Concrete	01040002000183	43.82375	<Null>	<Null>
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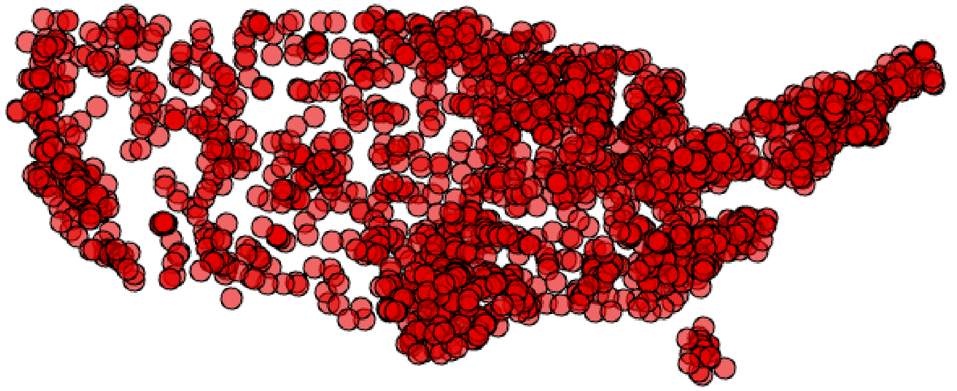
AWRA'22 IoW Presentation



1:42,404,419 | 127.9991189°W 26.3053307°N | Selected Features: 0

HydroAddPoint_gfv2_nhdplusV2

Field: Add Calculate | Selection: Select By Attributes Zoom To Switch Clear Delete Copy

:e	QCApproved	nhdpv2_COMID	nhdpv2_REACHCODE	nhdpv2_REACH_measure	Dam Name	Latitude	Longitude	County	State	Drainage Area (Sq Miles)
	No	720078	01010002001002	0	Churchill	46.493333	-69.288333	Piscataquis	Maine	0
	No	805079	01010004000009	0	Caribou	46.8489	-68.0015	Aroostook	Maine	1943
	No	803111	01010004000533	1.88643	Libby Brook	46.753333	-67.846667	Aroostook	Maine	0
	No	811531	01010004000561	0.92457	North Vassalboro	44.484392	-69.622996	Kennebec	Maine	43
	No	811531	01010004000561	0.92457	State Street	46.681657	-68.017351	Aroostook	Maine	0
	No	1699108	01020001002199	0	Dole Pond	46.0112	-70.1935	Somerset	Maine	43
	No	1702358	01020001002378	0	Harrington Lake	45.9478	-69.1922	Piscataquis	Maine	40
	No	1711668	01020002001096	0	Grand Lake (Matagam...	46.1411	-68.790438	Penobscot	Maine	485
	No	1712388	01020002001118	0	Telos	46.148056	-69.126667	Piscataquis	Maine	0
	No	5635	01020003000014	0	Village	45.359135	-68.284474	Penobscot	Maine	8
	No	1726313	01020004000001	3.75439	Howland	45.2394	-68.6575	Penobscot	Maine	1500
	No	1720933	01020004000206	0	Wilson Stream	45.452075	-69.532694	Piscataquis	Maine	0
	No	1722257	01020004000243	0	Upper Dam	45.1837	-69.23	Piscataquis	Maine	295
	No	1722335	01020004000250	0	Guilford	45.168386	-69.385165	Piscataquis	Maine	295
	No	1737066	01020005000004	63.20769	Alamoosook Lake	44.592142	-68.721345	Hancock	Maine	0
	No	1743128	01020005000115	0	Lowell Tannery	45.1838	-68.465	Penobscot	Maine	301
	No	1737122	01020005000434	0	Frankfort	44.609096	-68.873128	Waldo	Maine	166
	No	1737262	01020005001742	2.97386	Orono	44.883277	-68.664883	Penobscot	Maine	7710
	No	1022672	01030001000048	27.31791	Moosehead - East Outl...	45.5859	-69.7147	Somerset	Maine	1268
	No	1022290	01030001000213	0	Lazy Tom	45.691504	-69.434125	Piscataquis	Maine	0

Share your data from ArcGIS Online

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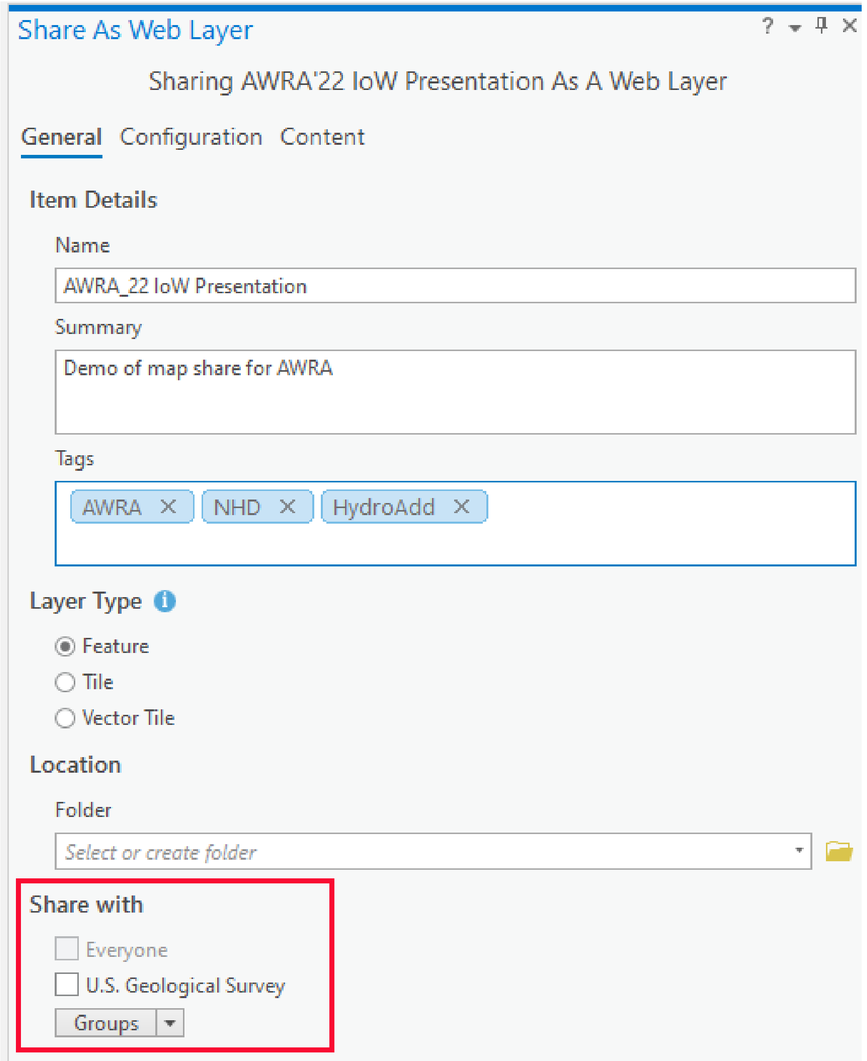
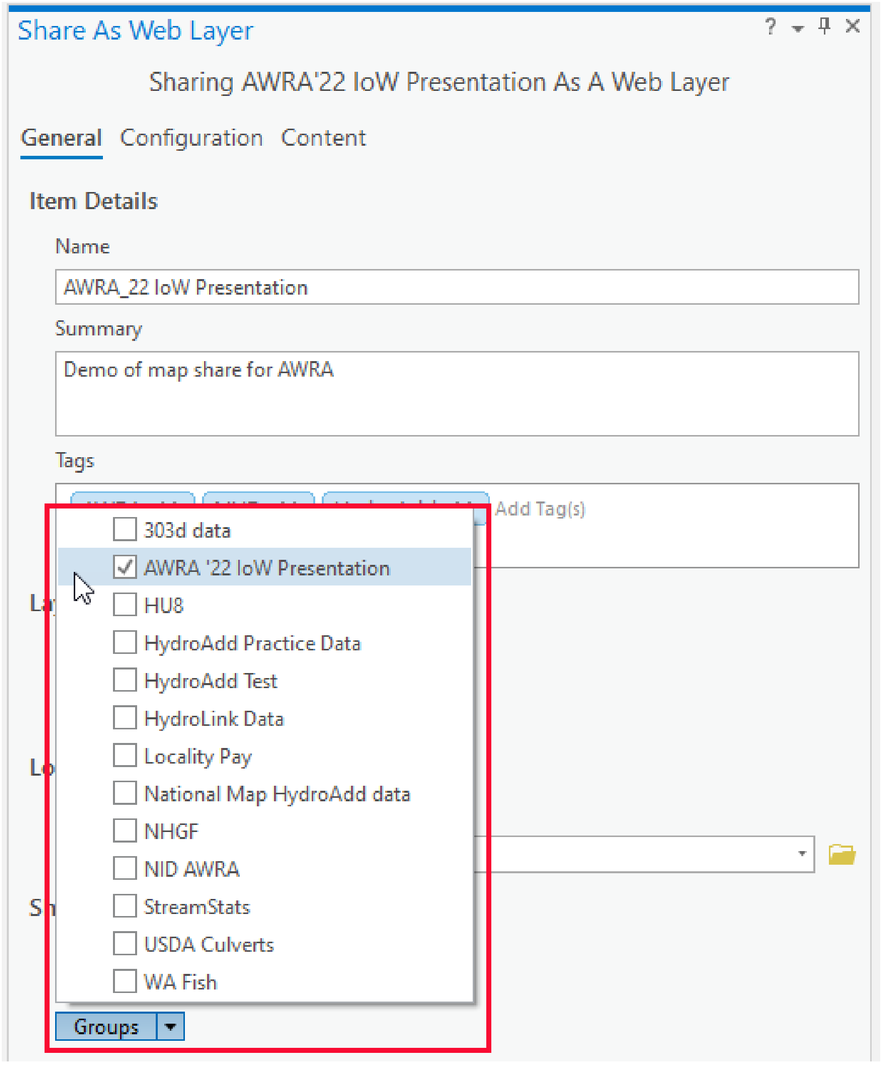
4.Identify items.
5.Run Batch QC.
6.Publish to AGOL.

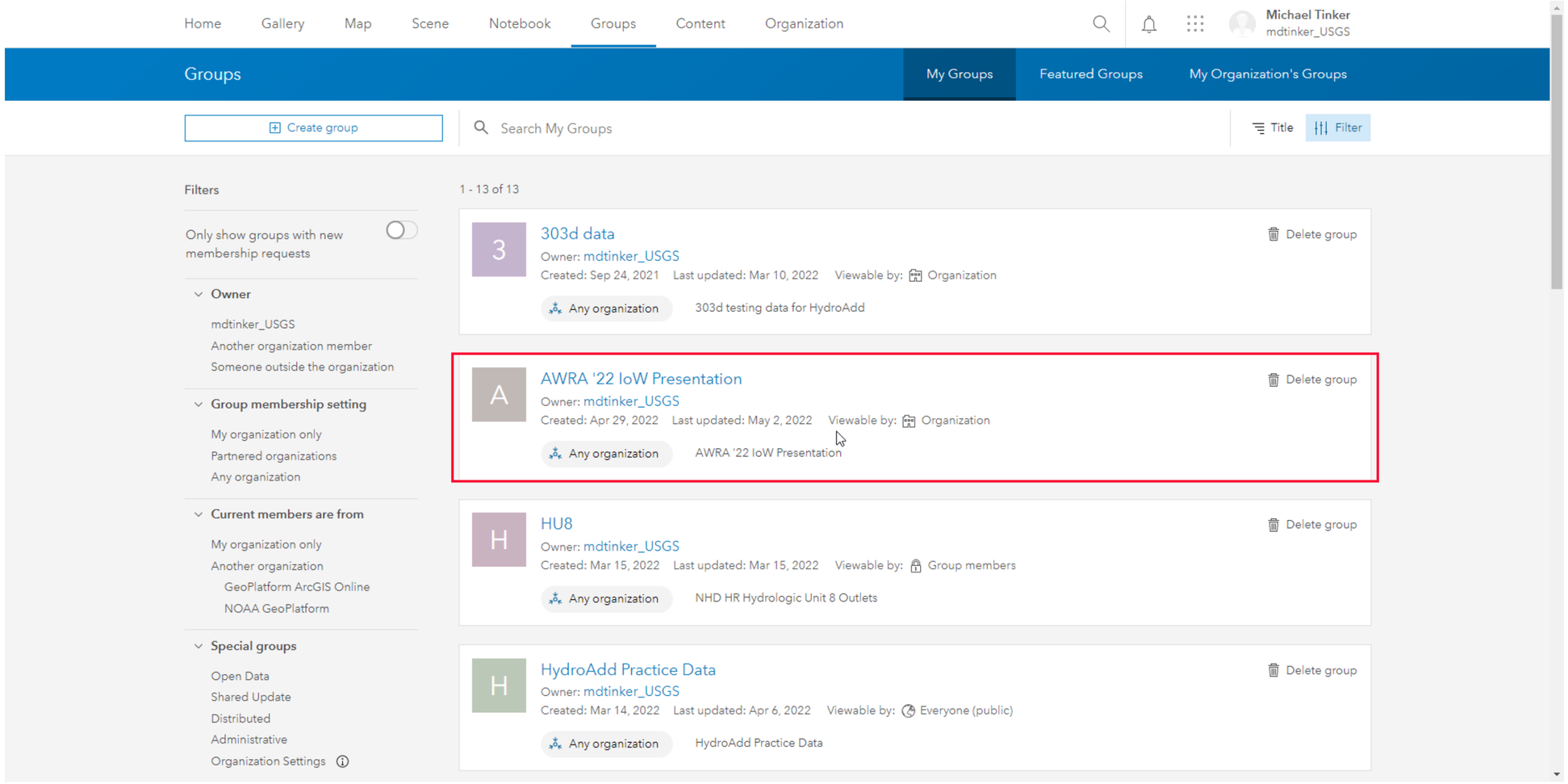
Share your data to AGOL from ArcGIS Pro



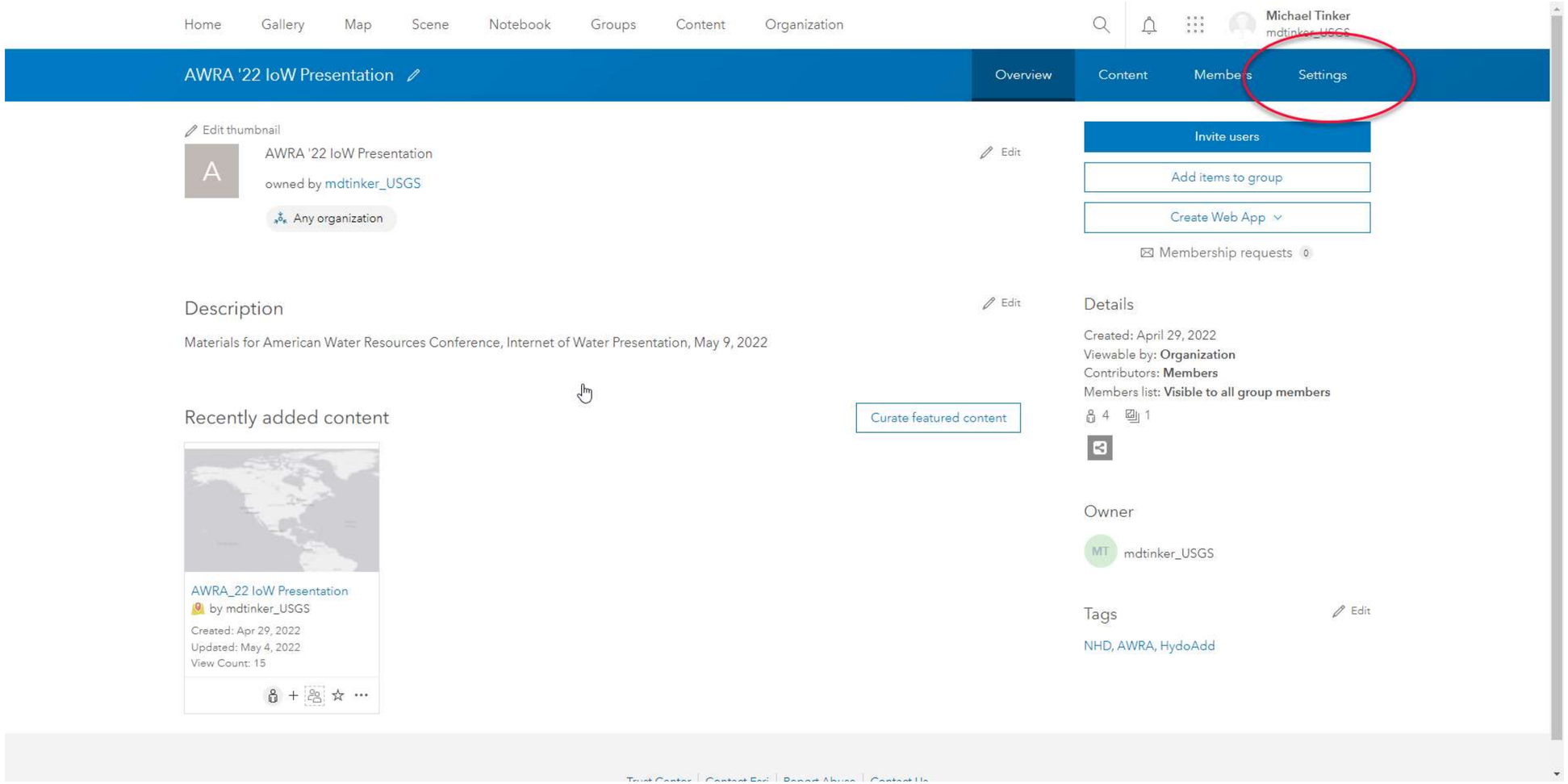
Share your data to AGOL from ArcGIS Pro



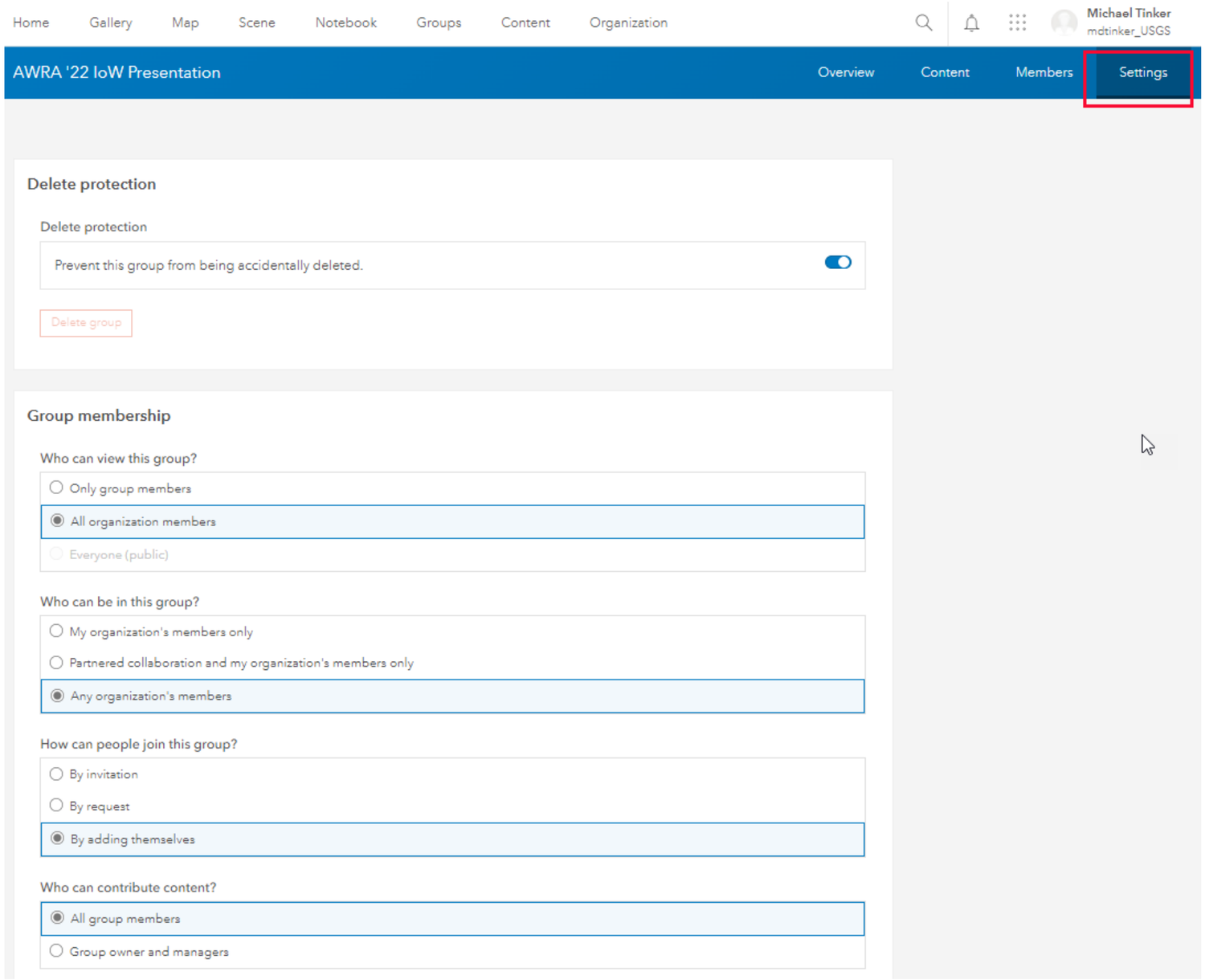
Groups at ArcGIS Online (AGOL)



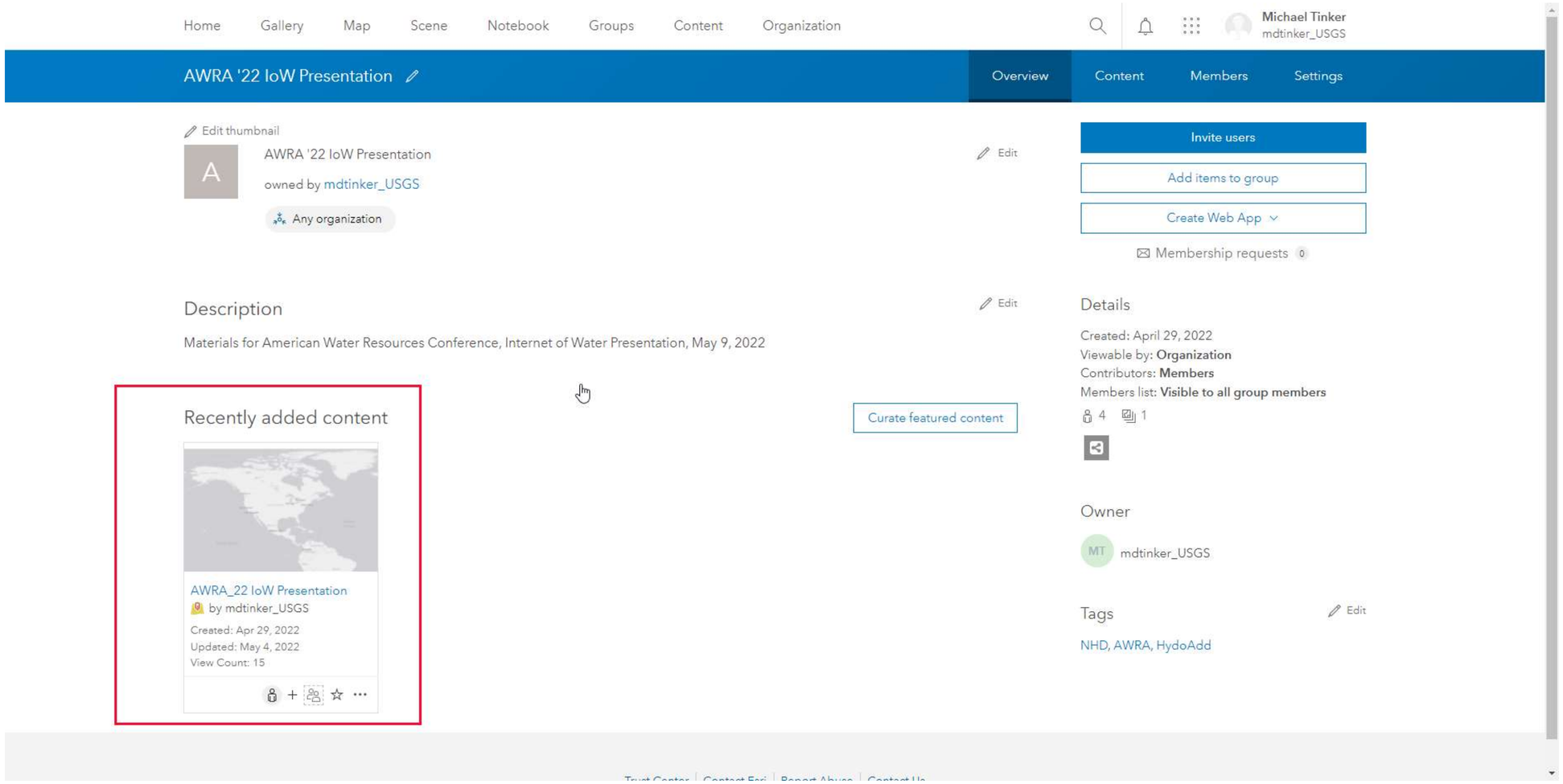
AGOL Group Overview



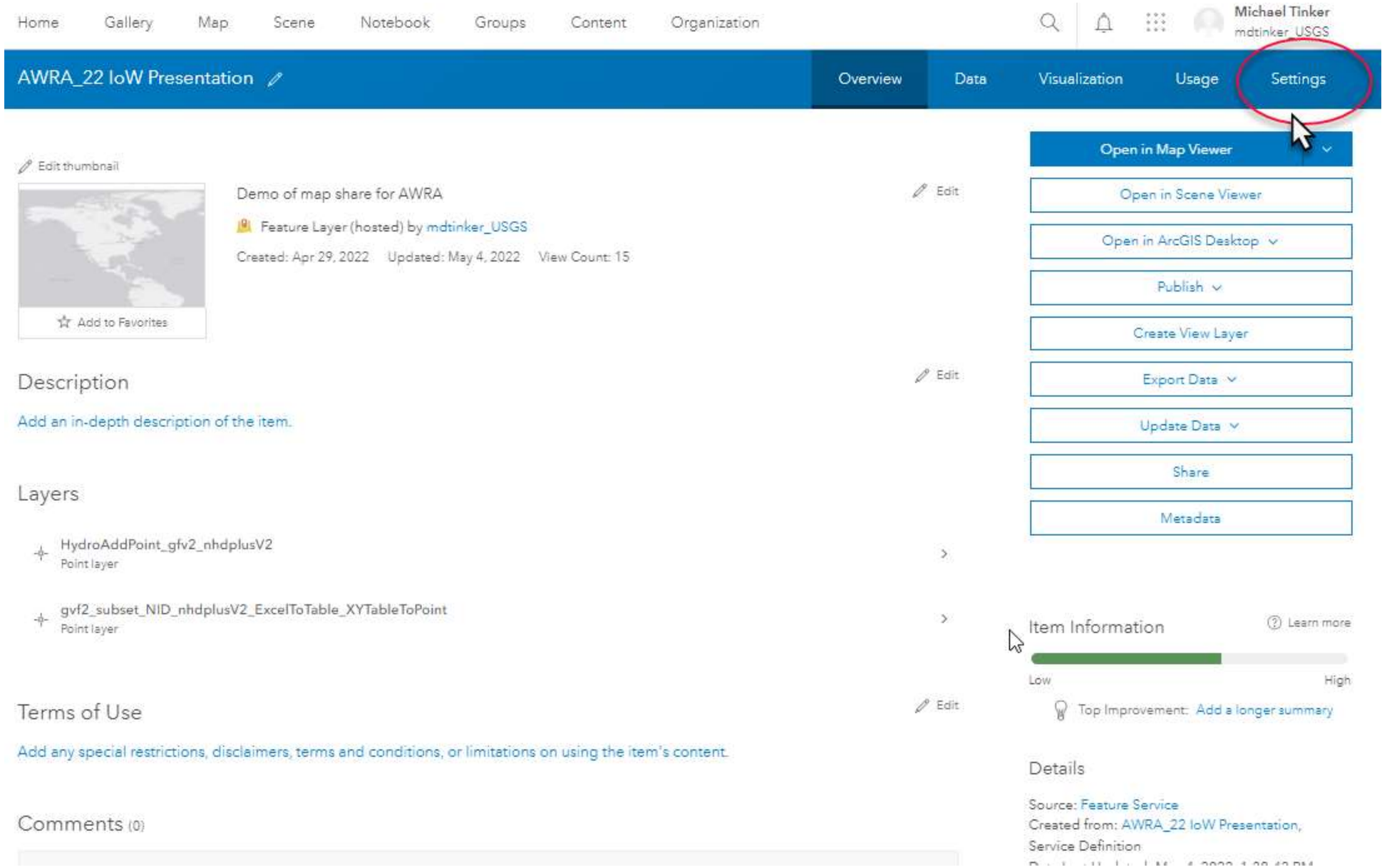
AGOL Group Settings



AGOL Group Overview



AGOL Content Overview



Enable editing

Feature Layer (hosted)

Editing

- [x] Enable editing
- [ ] Keep track of changes to the data (add, update, delete features).
- [ ] Keep track of who edited the data (editor name, date and time).
- [ ] Enable Sync (required for offline use and collaboration).

- Who can edit features?

  Share the layer to specific groups of people, the organization or publicly via the Share button on the Overview tab. This layer is currently shared with: AWRA '22 IoW Presentation

- What kind of editing is allowed?
  - [x] Add
  - [x] Delete
  - [x] Update
    - ( ) Attributes only
    - (•) Attributes and geometry

    Manage geometry updates

- What features can editors see?
  - (•) Editors can see all features
  - ( ) Editors can only see their own features (requires editor tracking)
  - ( ) Editors can't see any features, even those they add

- What features can editors edit?
  - (•) Editors can edit all features
  - ( ) Editors can only edit their own features (requires editor tracking)

- What access do anonymous editors (not signed in) have?
  - (•) The same as signed in editors
  - ( ) Only add new features, if allowed above (requires editor tracking)

- Who can manage edits?
  - You
  - Administrators
  - Data curators with the appropriate privileges

Add your data to HydroAdd

Prepare your data for HydroAdd

1. Download the HydroAdd empty schema from the HydroAdd tool.
2. Add any fields you need to the HydroAdd schema with ArcGIS Pro.
3. Append your data to the empty schema with the Append tool.

Share your data as a web map at ArcGIS Online

1. Create a group at AGOL.
2. Enter group membership.
3. Prepare a map with ArcGIS Pro.
4. Publish a web map from ArcGIS Pro to the AGOL group.
5. Enable editing of the web layer in AGOL.

Add the web map to HydroAdd

1. Copy the web layer URL from AGOL.
2. Add a new Esri service in HydroAdd
3. Paste the URL

Use HydroAdd to address your data to the NHD

1. Make new points, lines.
2. Search and select.
3. Create an editing queue.
4. Identify items.
5. Run Batch QC.
6. Publish to AGOL.

AGOL Content Overview

Home Gallery Map Scene Notebook Groups Content Organization

Michael Tinker
mdtinker_USGS

AWRA_22 IoW Presentation

Overview Data Visualization Usage Settings

Edit thumbnail

Add to Favorites

Demo of map share for AWRA

Feature Layer (hosted) by mdtinker_USGS

Created: Apr 29, 2022 Updated: May 4, 2022 View Count: 15

Edit

Open in Map Viewer

Open in Scene Viewer

Open in ArcGIS Desktop

Publish

Create View Layer

Export Data

Update Data

Share

Metadata

Description

Edit

Add an in-depth description of the item.

Layers

HydroAddPoint_gfv2_nhdplusV2
Point layer

gvf2_subset_NID_nhdplusV2_ExcelToTable_XYTableToPoint
Point layer

Terms of Use

Edit

Add any special restrictions, disclaimers, terms and conditions, or limitations on using the item's content.

Comments (0)

Item Information

Learn more

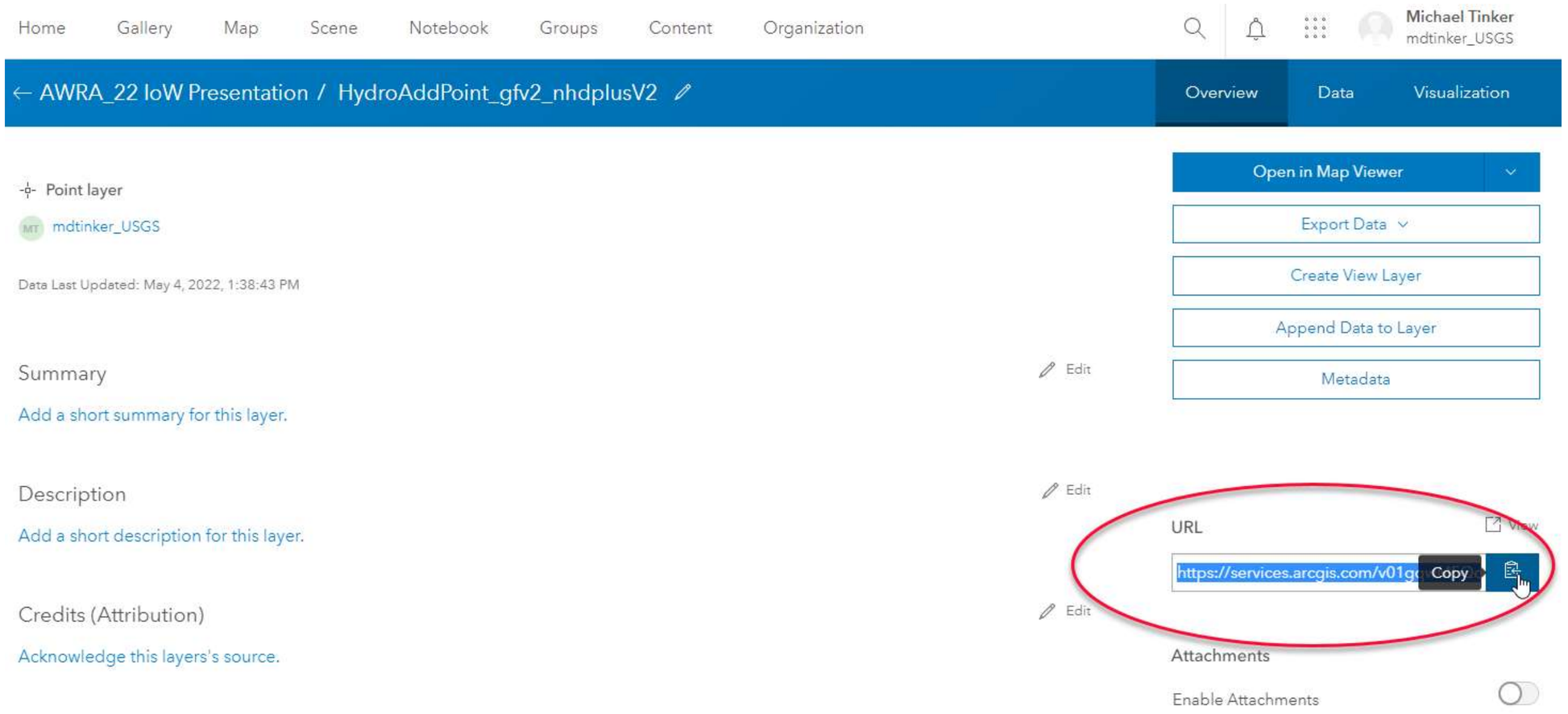
Low High

Top Improvement: Add a longer summary

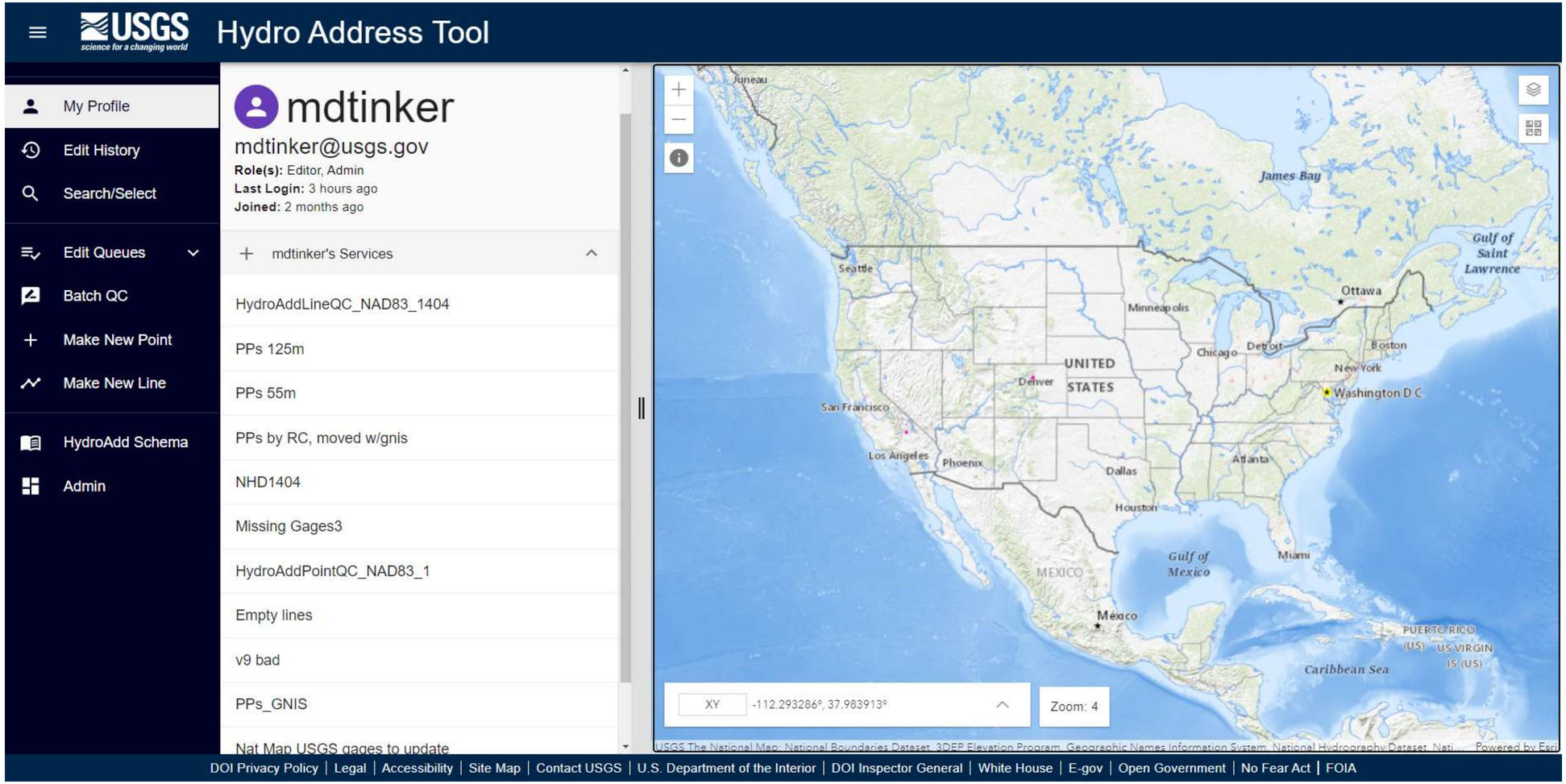
Details

Source: Feature Service
Created from: AWRA_22 IoW Presentation,

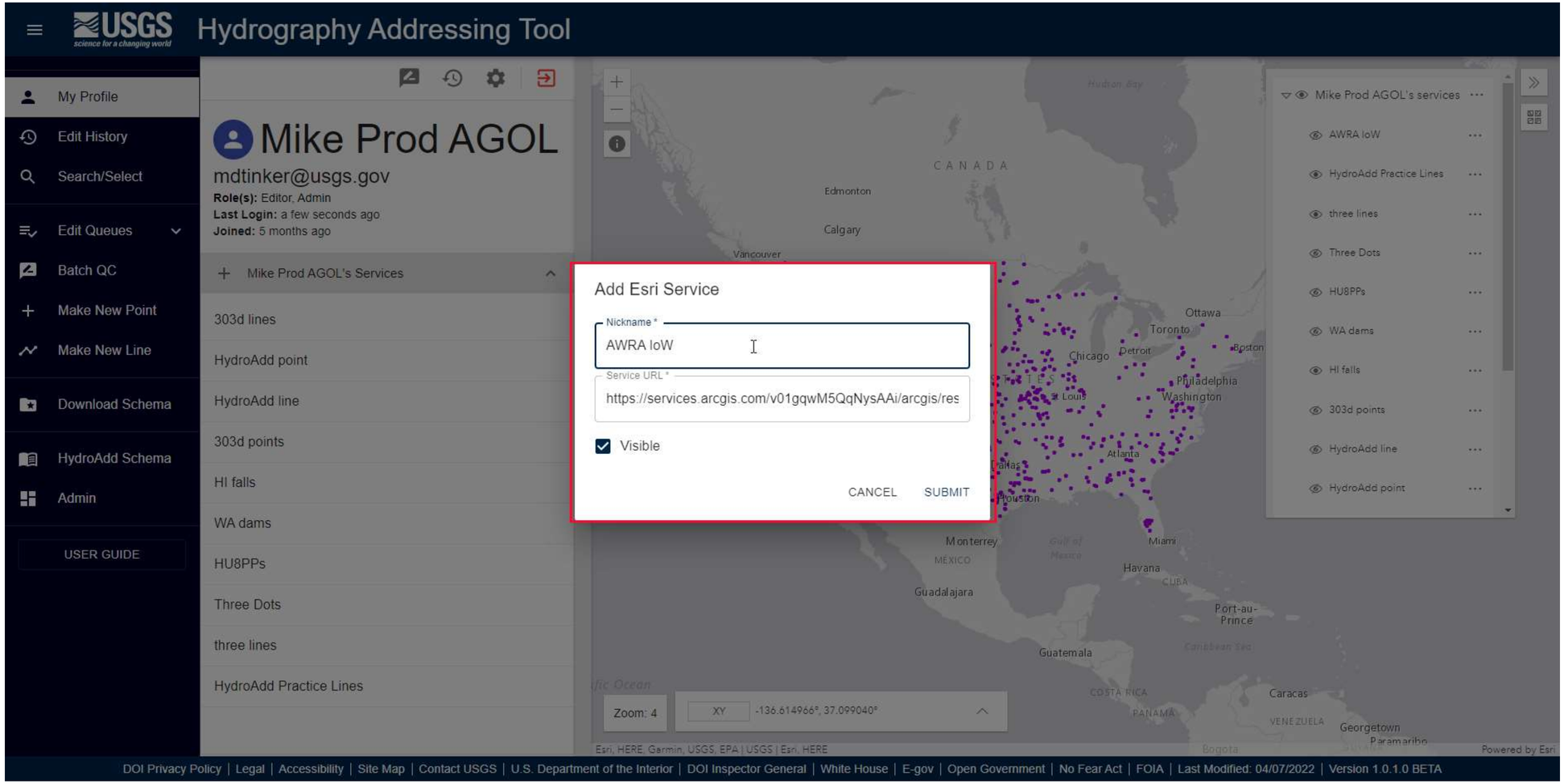
Copy the service layer URL from AGOL



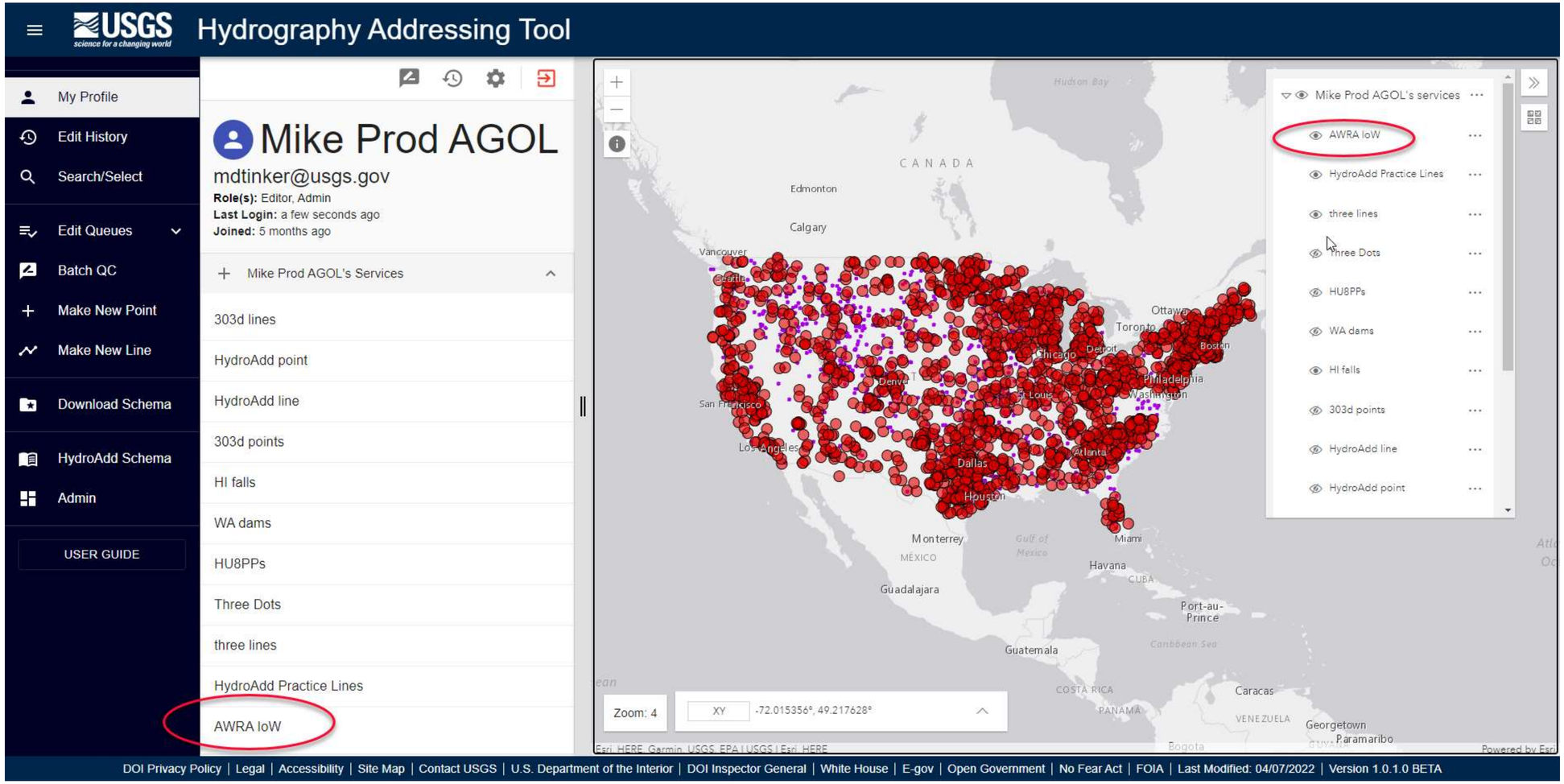
HydroAdd lists your web feature services



Paste the service layer URL from AGOL…



…and you data appears in HydroAdd



Address your data with HydroAdd

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5. Enable editing of the web layer in AGOL.

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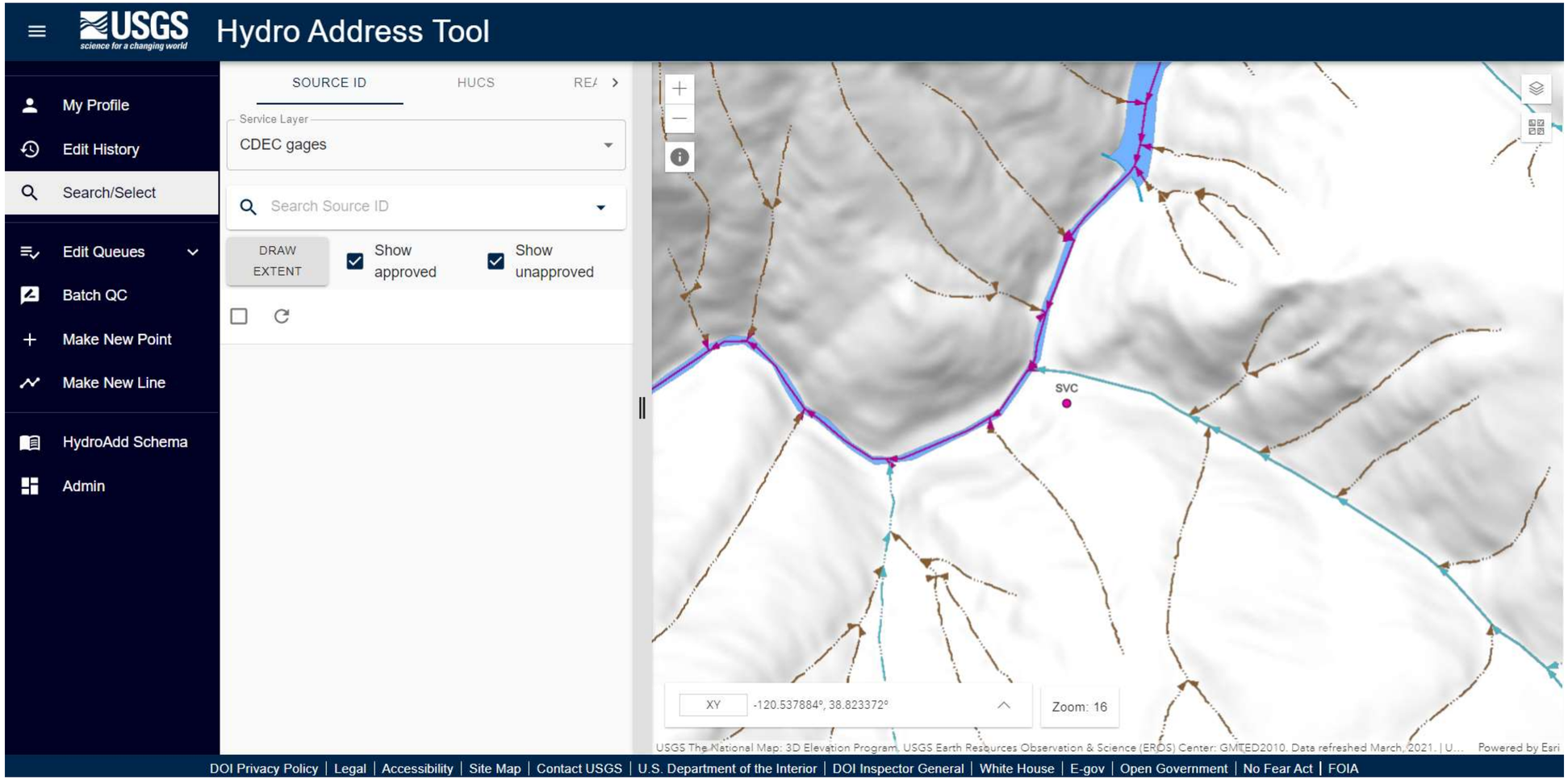
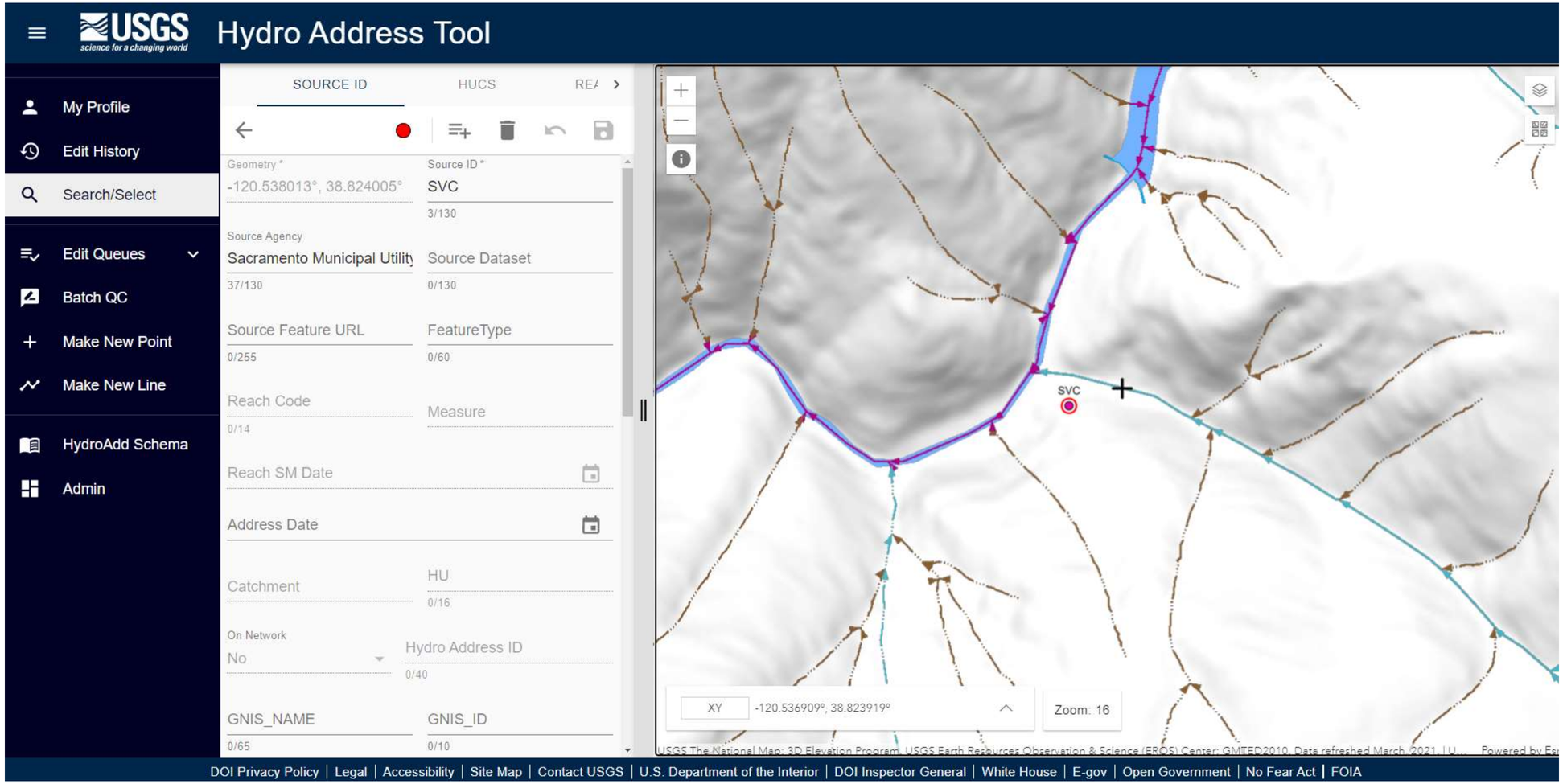
Use HydroAdd to address your data to the NHD

1.Make new points, lines.
2.Search and select.
3.Create an editing queue.
4.Identify items.
5.Run Batch QC.
6.Publish to AGOL.

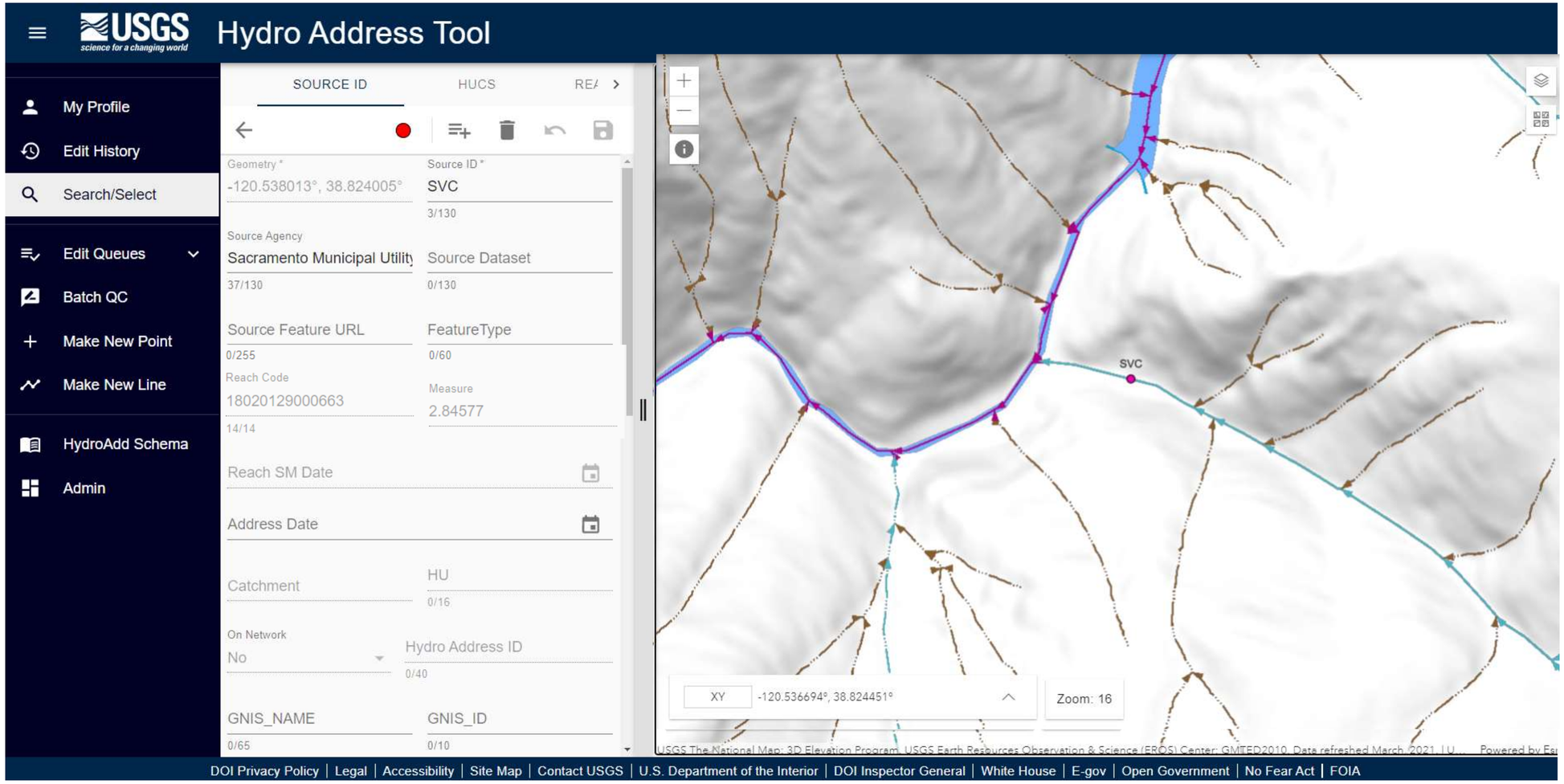
Editing points



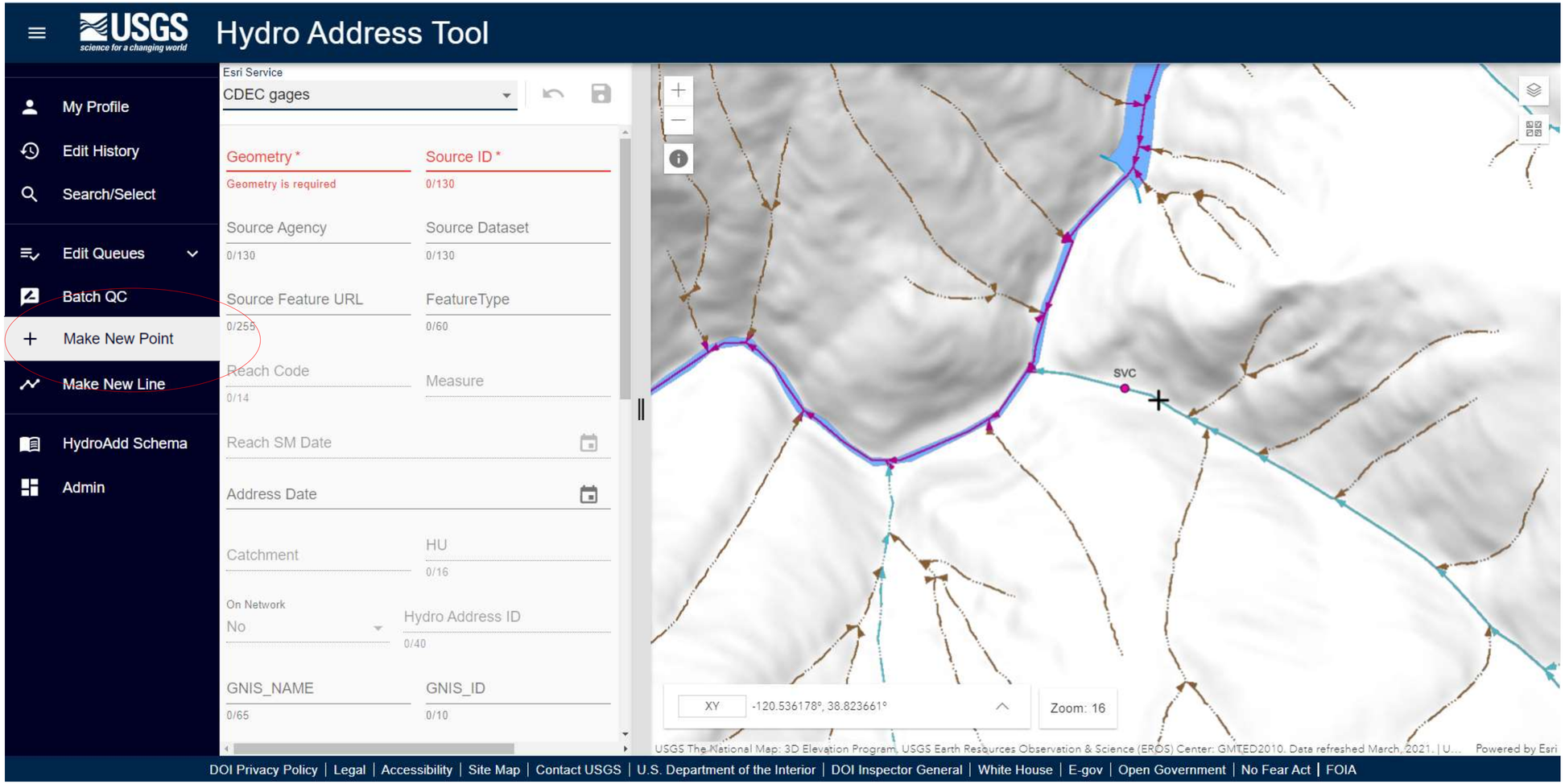
Editing points



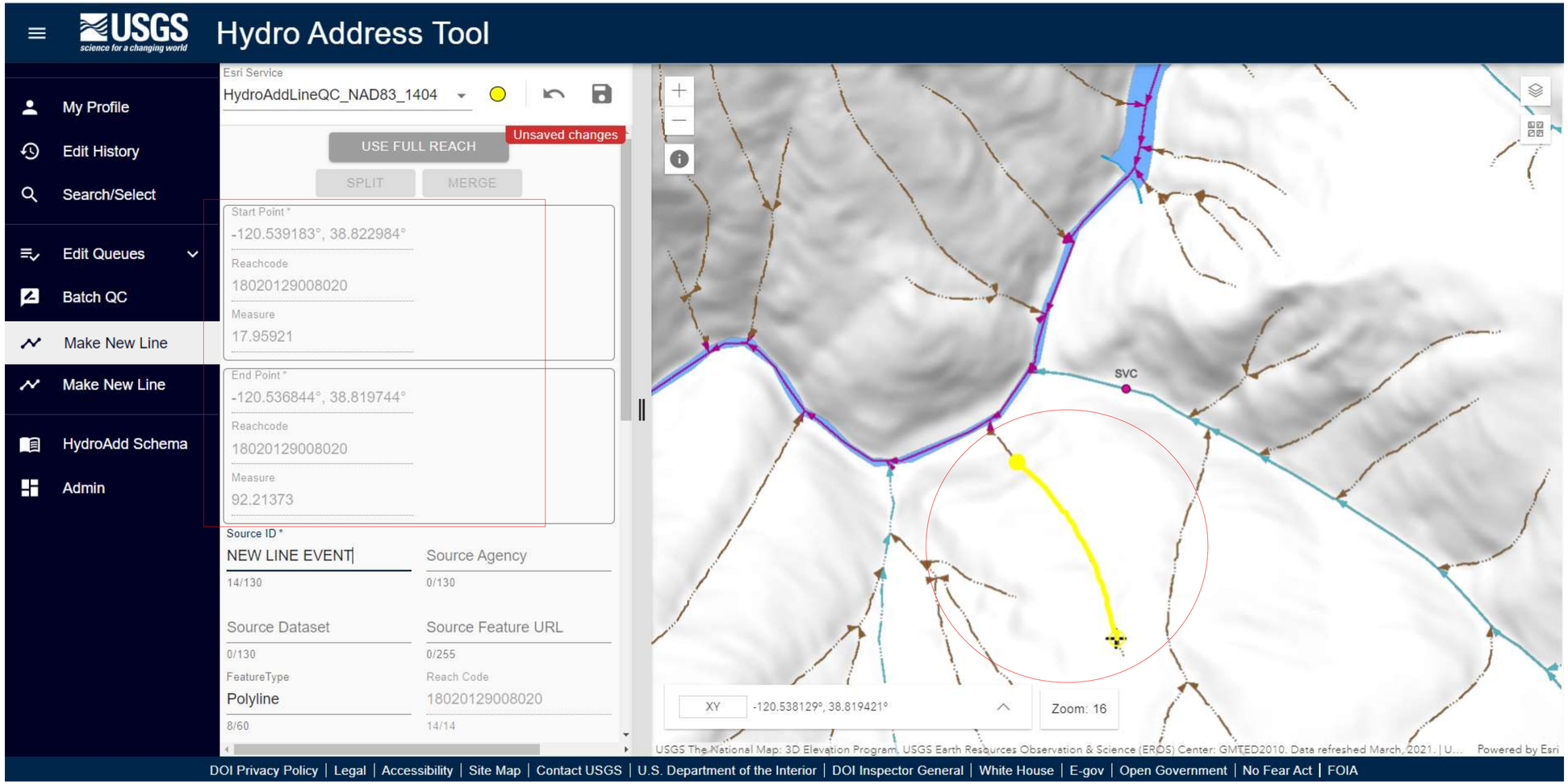
Editing points



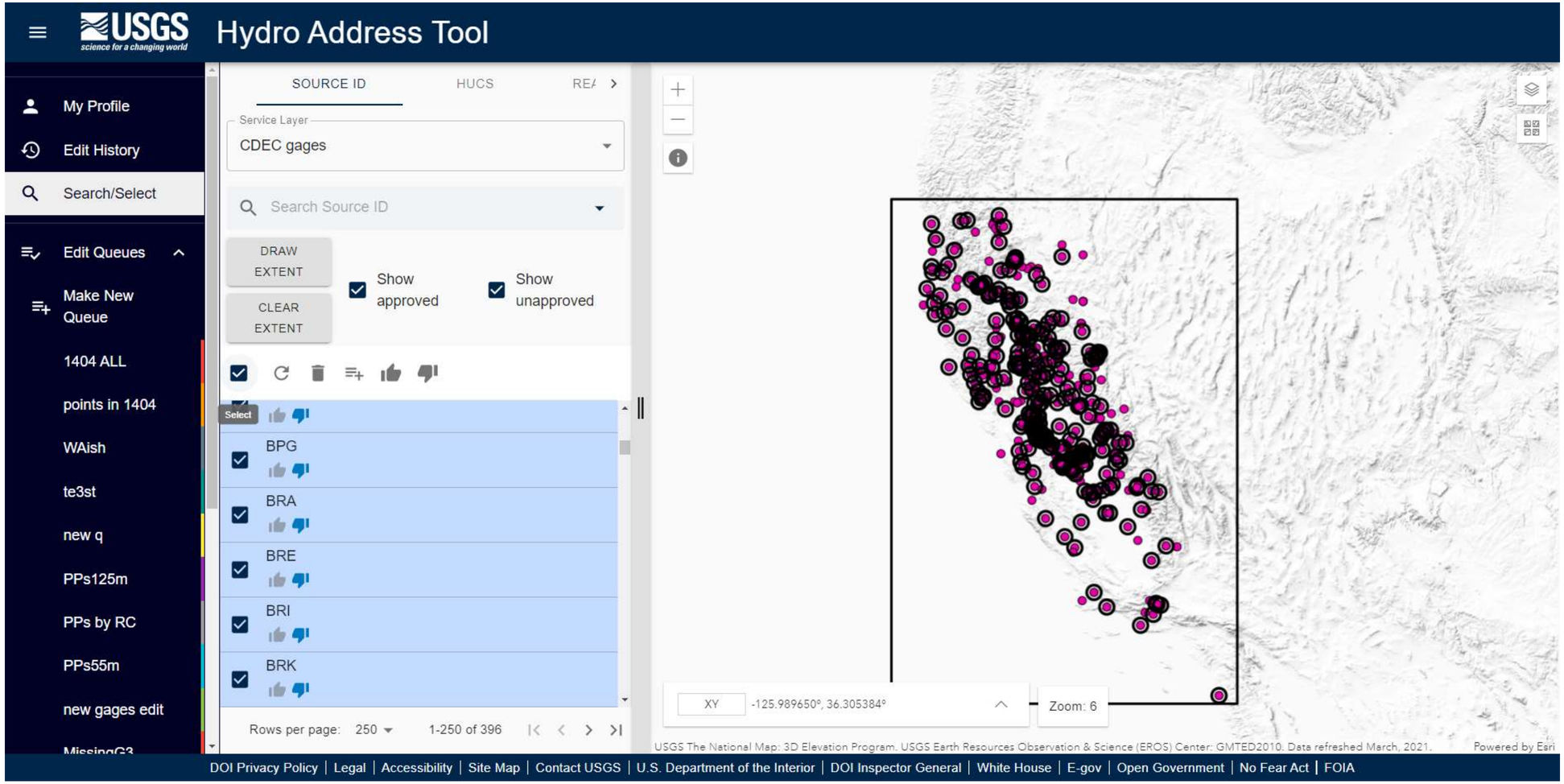
Address new points



Address new lines



Make a queue


Hydro Address Tool
USGS
science for a changing world
My Profile
Edit History
Search/Select
Edit Queues
Make New Queue
1404 ALL
points in 1404
WAish
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PPs by RC
PPs55m
new gages edit
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CDEC gages
Search Source ID
DRAW EXTENT
CLEAR EXTENT
Show approved
Show unapproved
Select
BPG
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BRK
Rows per page: 250
1-250 of 396
XY
-125.989650°, 36.305384°
Zoom: 6
USGS The National Map: 3D Elevation Program. USGS Earth Resources Observation & Science (EROS) Center: GMTED2010. Data refreshed March, 2021.
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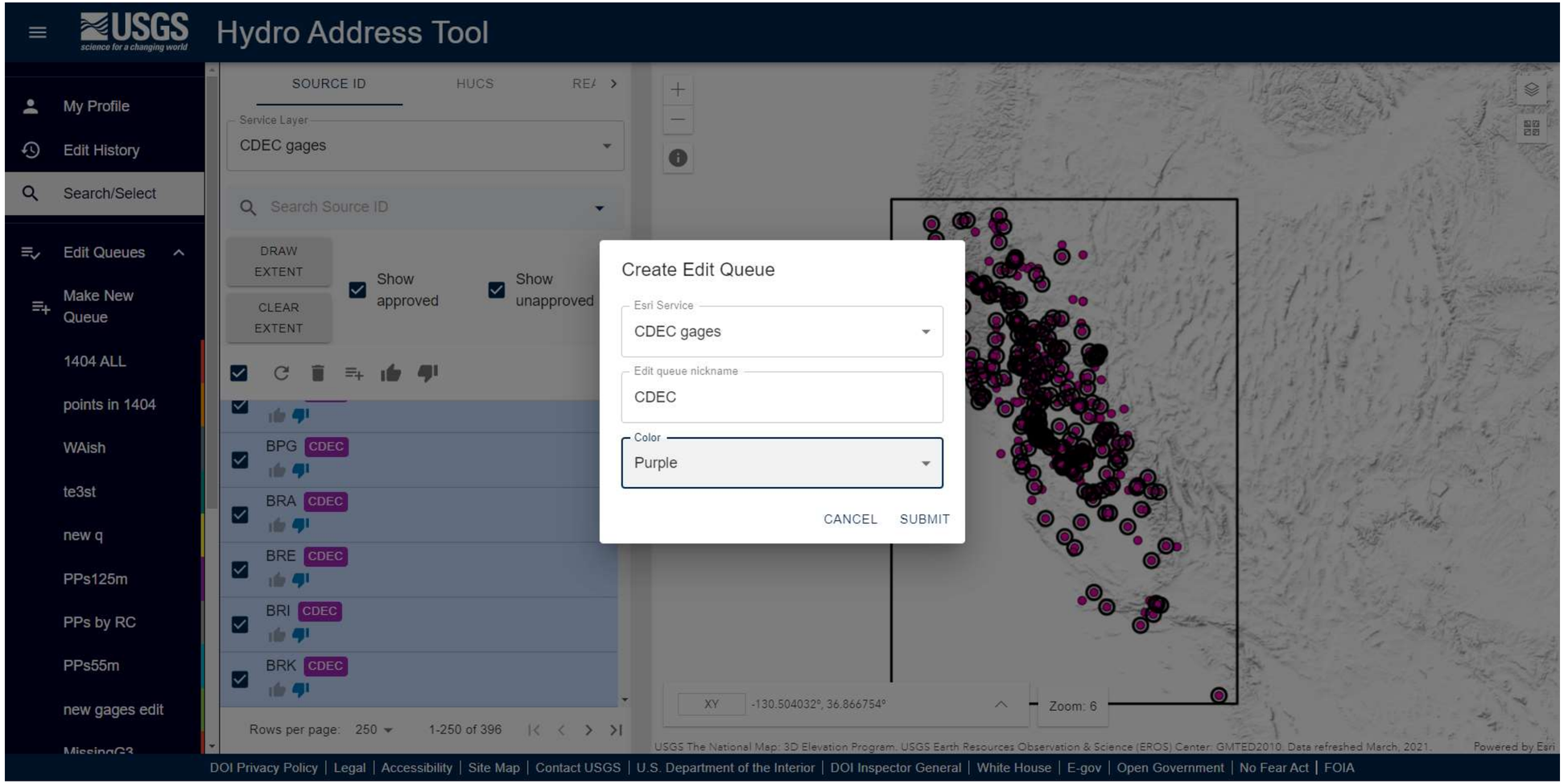
Make a queue


USGS
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Hydro Address Tool
My Profile
Edit History
Search/Select
Edit Queues
Make New Queue
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DRAW EXTENT
CLEAR EXTENT
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Rows per page: 250
1-250 of 396
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XY -130.504032°, 36.866754°
Zoom: 6
USGS The National Map: 3D Elevation Program. USGS Earth Resources Observation & Science (EROS) Center: GMTED2010. Data refreshed March, 2021.
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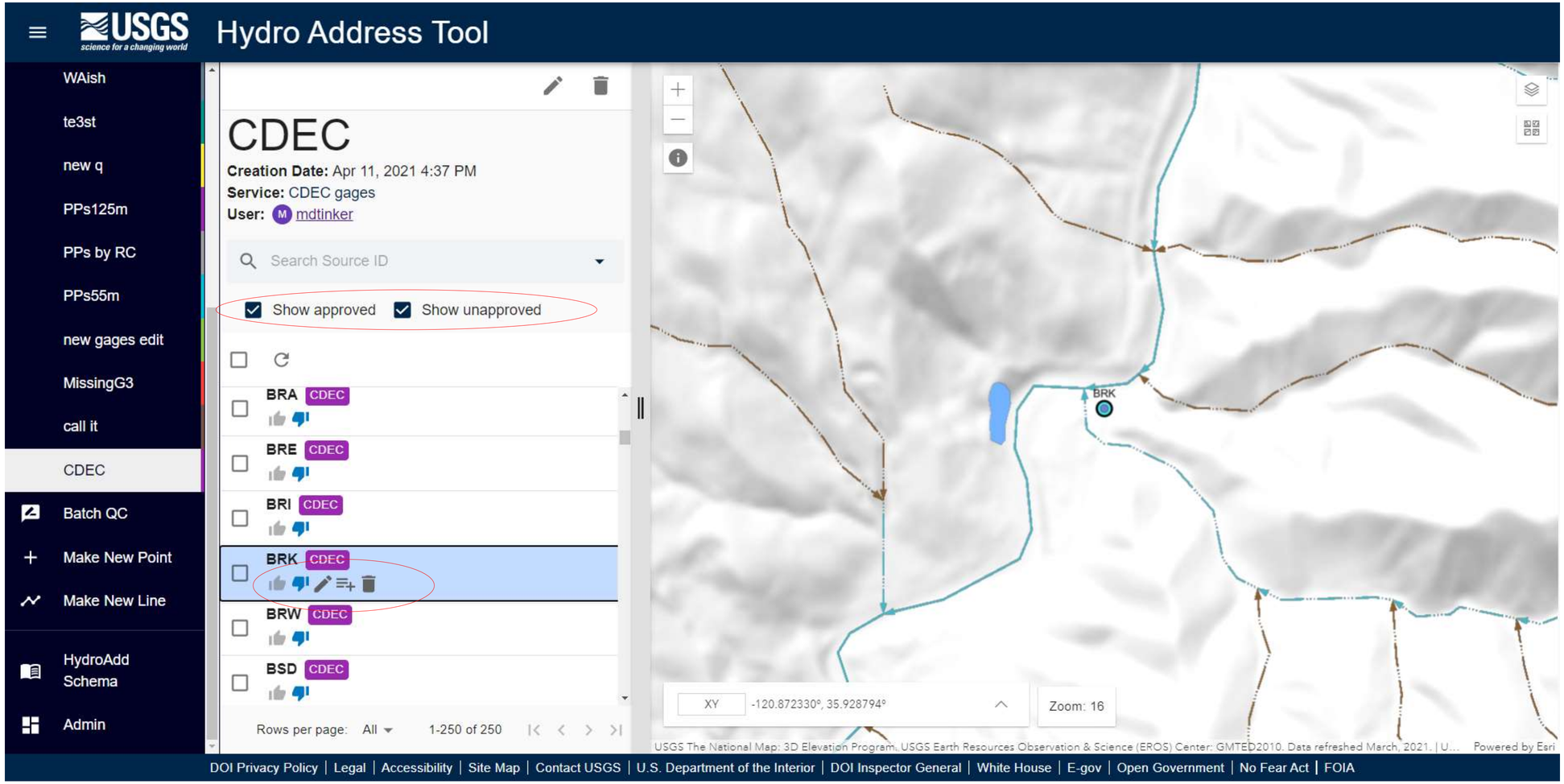
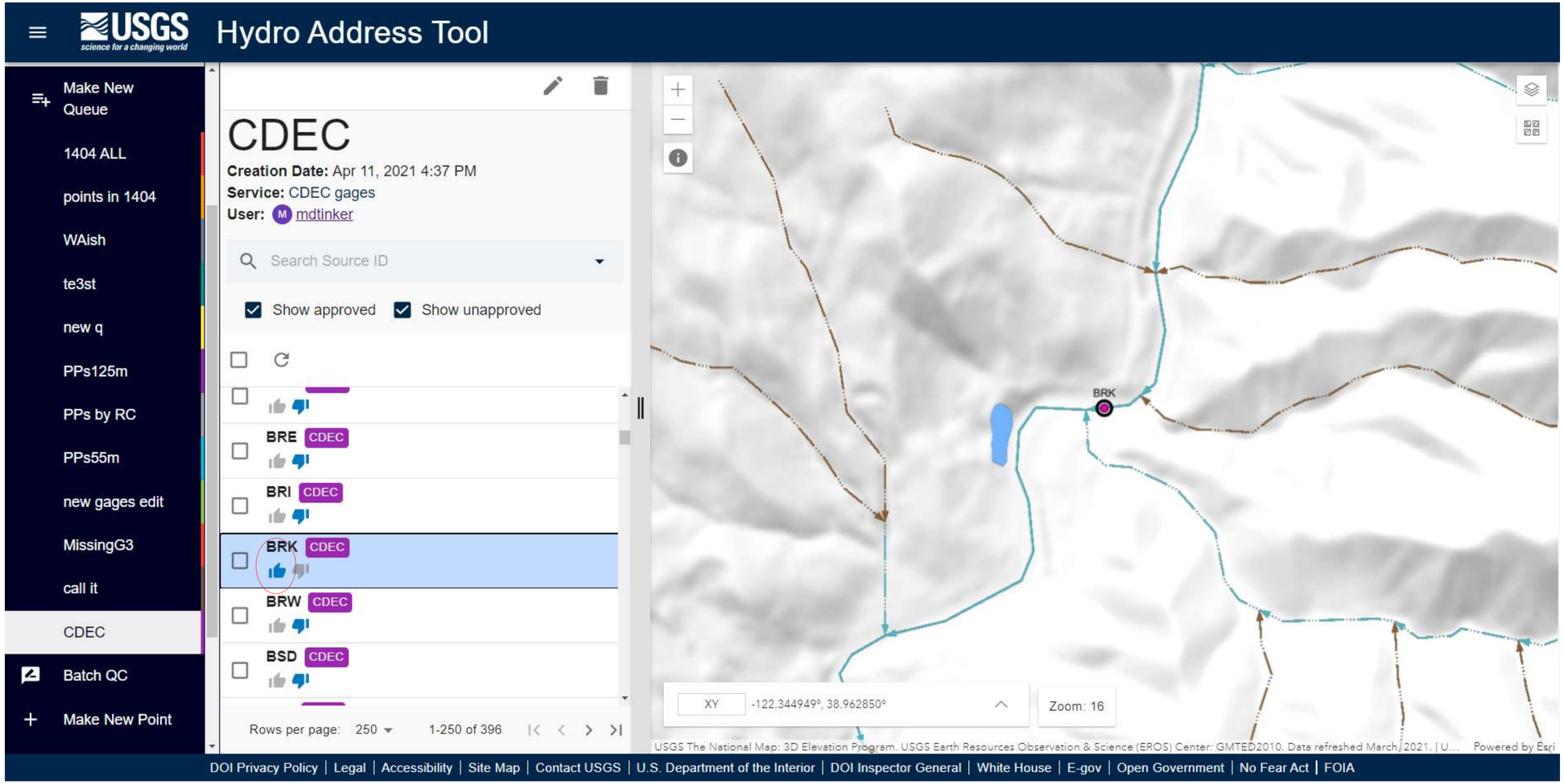
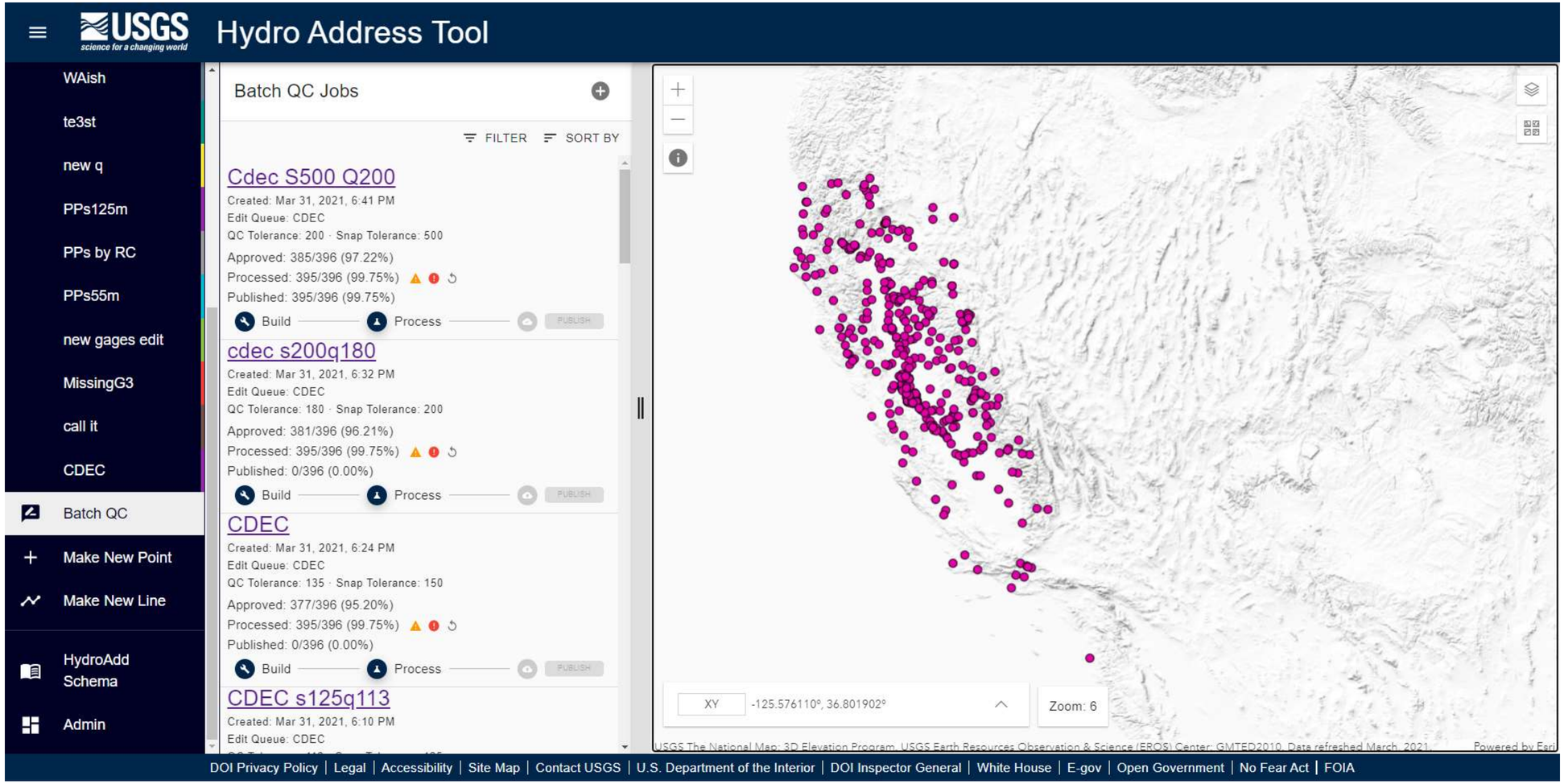
Editing in a queue



Editing in a queue



Batch QC


USGS science for a changing world
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PPs55m
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Batch QC
Make New Point
Make New Line
HydroAdd Schema
Admin
Batch QC Jobs
FILTER
SORT BY
Cdec S500 Q200
Created: Mar 31, 2021, 6:41 PM
Edit Queue: CDEC
QC Tolerance: 200 · Snap Tolerance: 500
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Processed: 395/396 (99.75%)
Published: 395/396 (99.75%)
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Edit Queue: CDEC
QC Tolerance: 180 · Snap Tolerance: 200
Approved: 381/396 (96.21%)
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Published: 0/396 (0.00%)
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CDEC
Created: Mar 31, 2021, 6:24 PM
Edit Queue: CDEC
QC Tolerance: 135 · Snap Tolerance: 150
Approved: 377/396 (95.20%)
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Published: 0/396 (0.00%)
Build
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Created: Mar 31, 2021, 6:10 PM
Edit Queue: CDEC
XY
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Zoom: 6
USGS The National Map: 3D Elevation Program, USGS Earth Resources Observation & Science (EROS) Center; GMTED2010. Data refreshed March, 2021.
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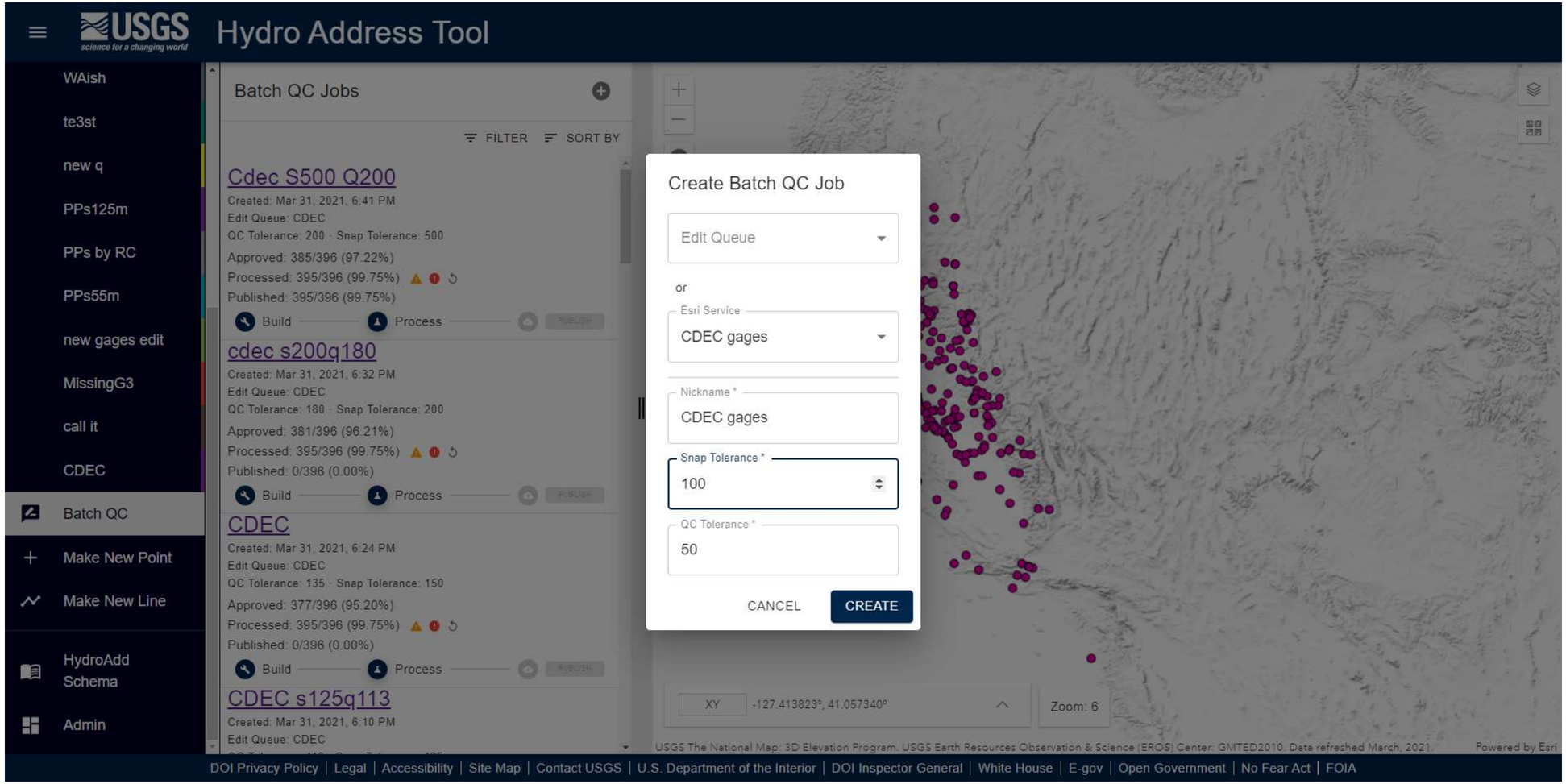
Batch QC


USGS science for a changing world
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Make New Line
HydroAdd Schema
Admin
Batch QC Jobs
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SORT BY
Cdec S500 Q200
Created: Mar 31, 2021, 6:41 PM
Edit Queue: CDEC
QC Tolerance: 200 · Snap Tolerance: 500
Approved: 385/396 (97.22%)
Processed: 395/396 (99.75%)
Published: 395/396 (99.75%)
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Approved: 377/396 (95.20%)
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Published: 0/396 (0.00%)
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CDEC s125q113
Created: Mar 31, 2021, 6:10 PM
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QC Tolerance *
50
CANCEL
CREATE
XY
-127.413823°, 41.057340°
Zoom: 6
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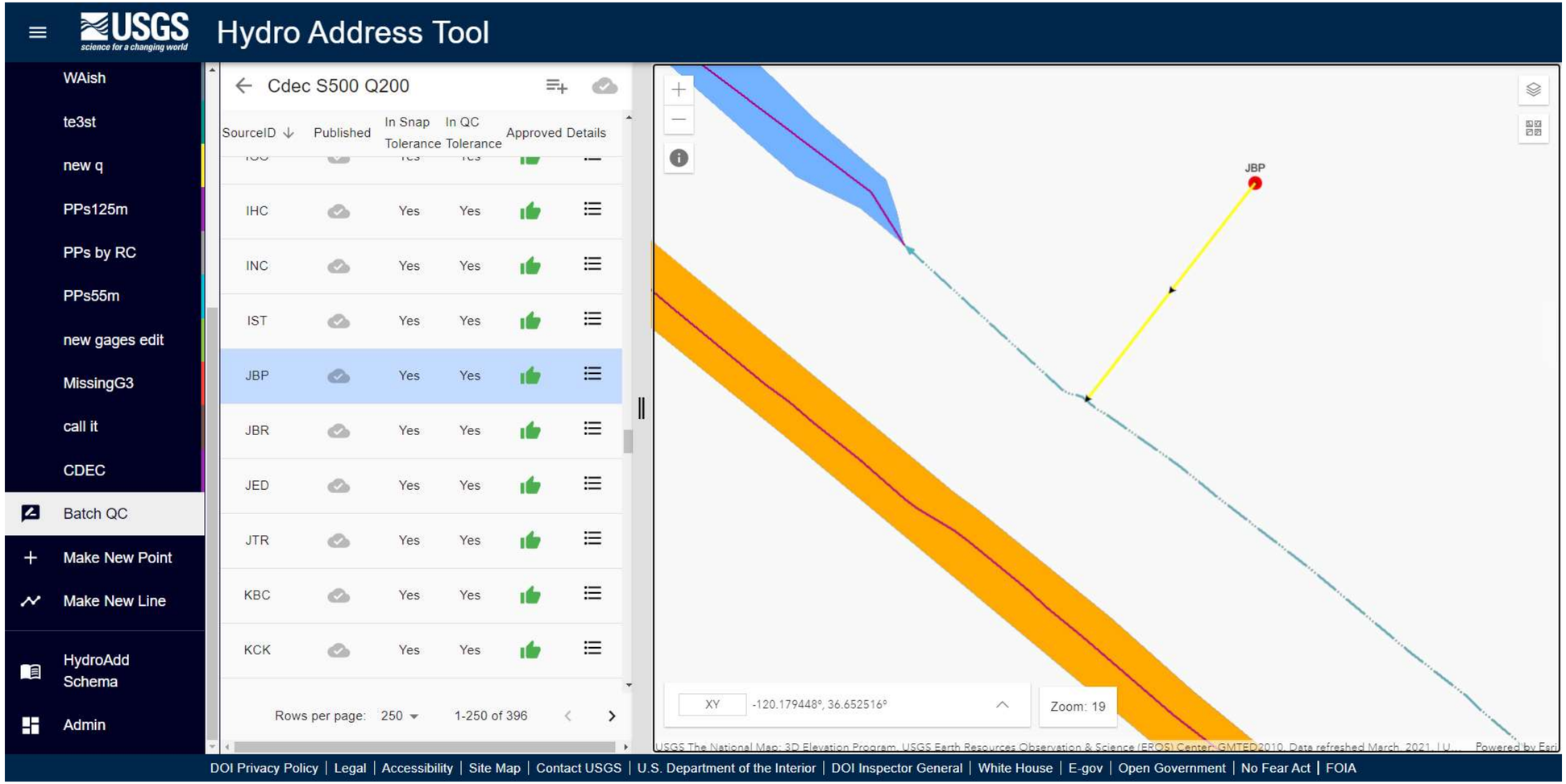
Batch QC


USGS science for a changing world
Hydro Address Tool
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INC Yes Yes
IST Yes Yes
JBP Yes Yes
JBR Yes Yes
JED Yes Yes
JTR Yes Yes
KBC Yes Yes
KCK Yes Yes
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1-250 of 396
JBP
XY
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Zoom: 19
USGS The National Map: 3D Elevation Program, USGS Earth Resources Observation & Science (EROS) Center, GMTED2010. Data refreshed March, 2021. | U...
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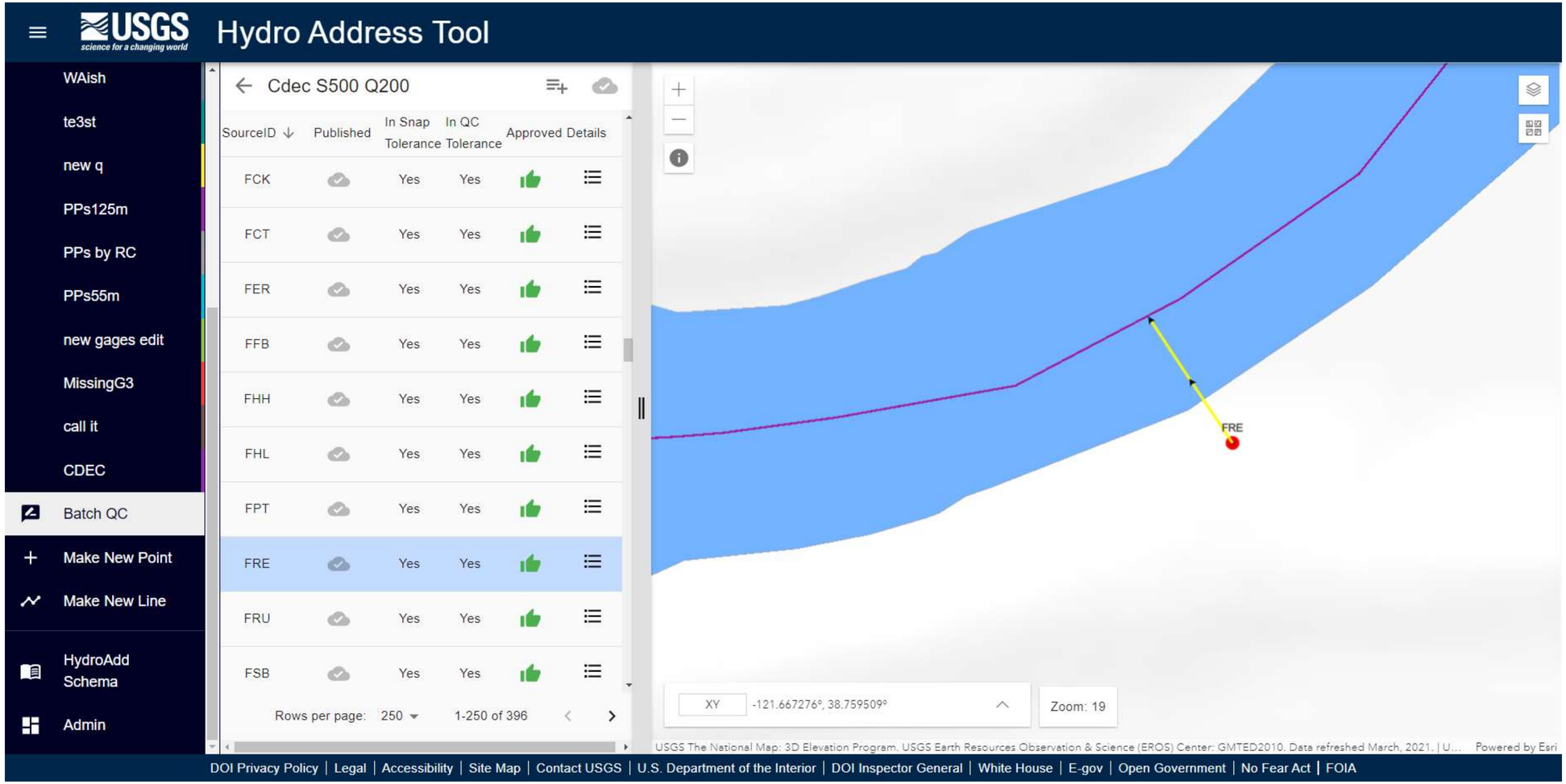
Batch QC


Hydro Address Tool
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Make New Line
HydroAdd Schema
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Cdec S500 Q200
SourceID
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Rows per page: 250
1-250 of 396
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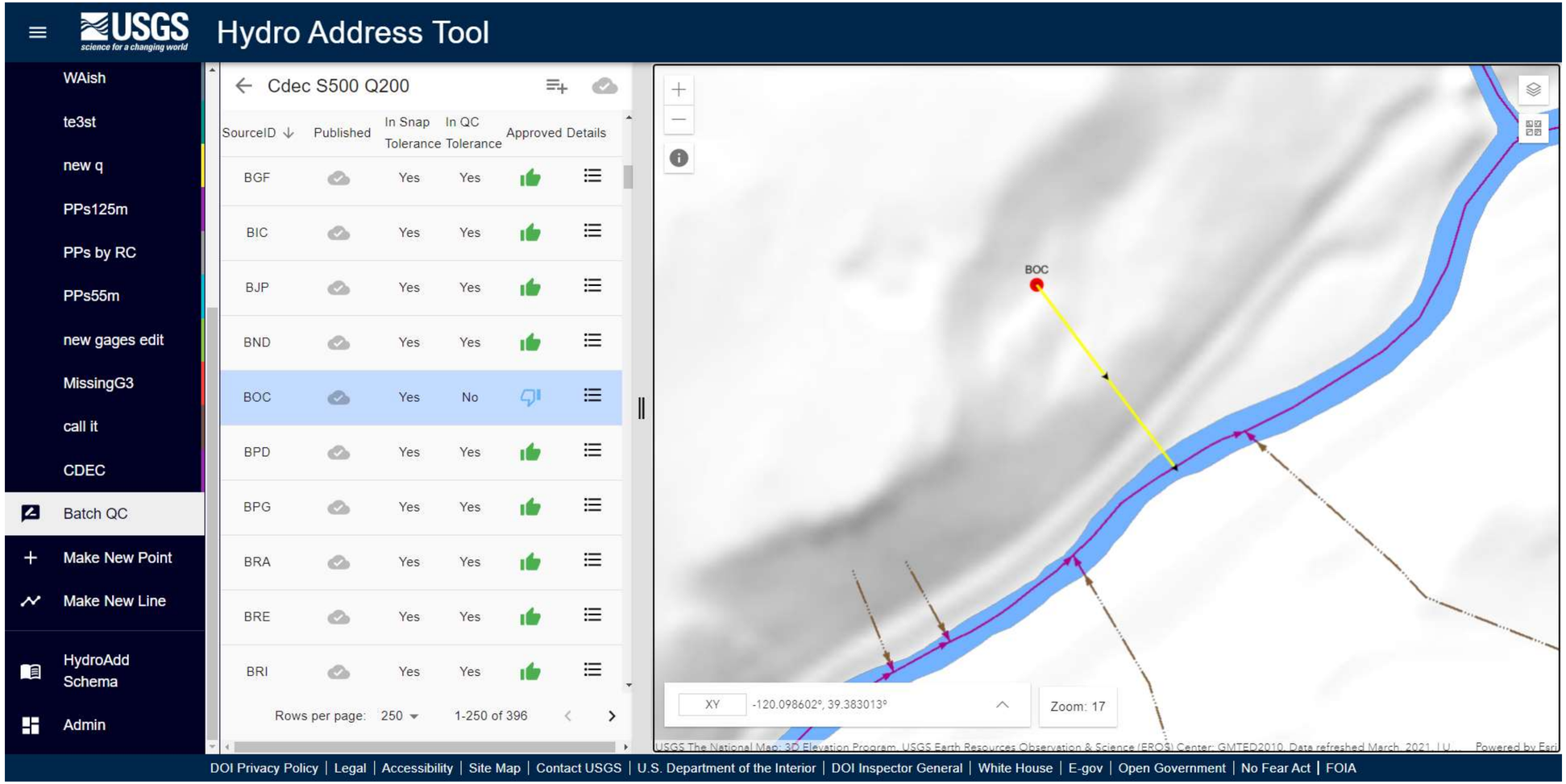
Batch QC


Hydro Address Tool
USGS
science for a changing world
WAish
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Batch QC
Make New Point
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HydroAdd Schema
Admin
Cdec S500 Q200
SourceID
Published
In Snap Tolerance
In QC Tolerance
Approved
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BIC Yes Yes
BJP Yes Yes
BND Yes Yes
BOC Yes No
BPD Yes Yes
BPG Yes Yes
BRA Yes Yes
BRE Yes Yes
BRI Yes Yes
Rows per page: 250
1-250 of 396
BOC
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Zoom: 17
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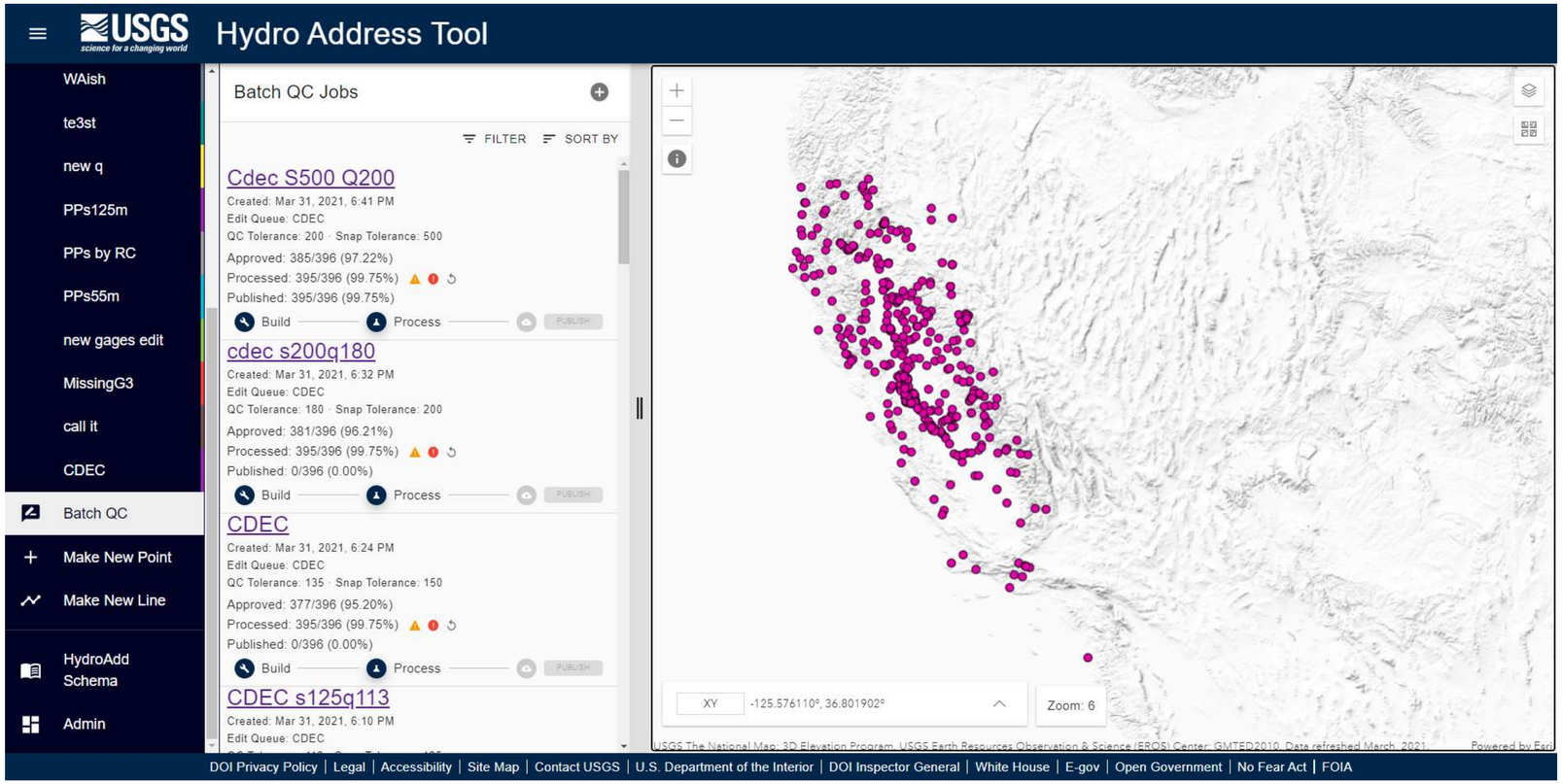
Use batch QC to synchronize your addressed data

Batch QC honors preexisting ReachCode and GNIS



USGS Contact Information

hydroadd@usgs.gov
nhd@usgs.gov
mdtinker@usgs.gov - Mike Tinker