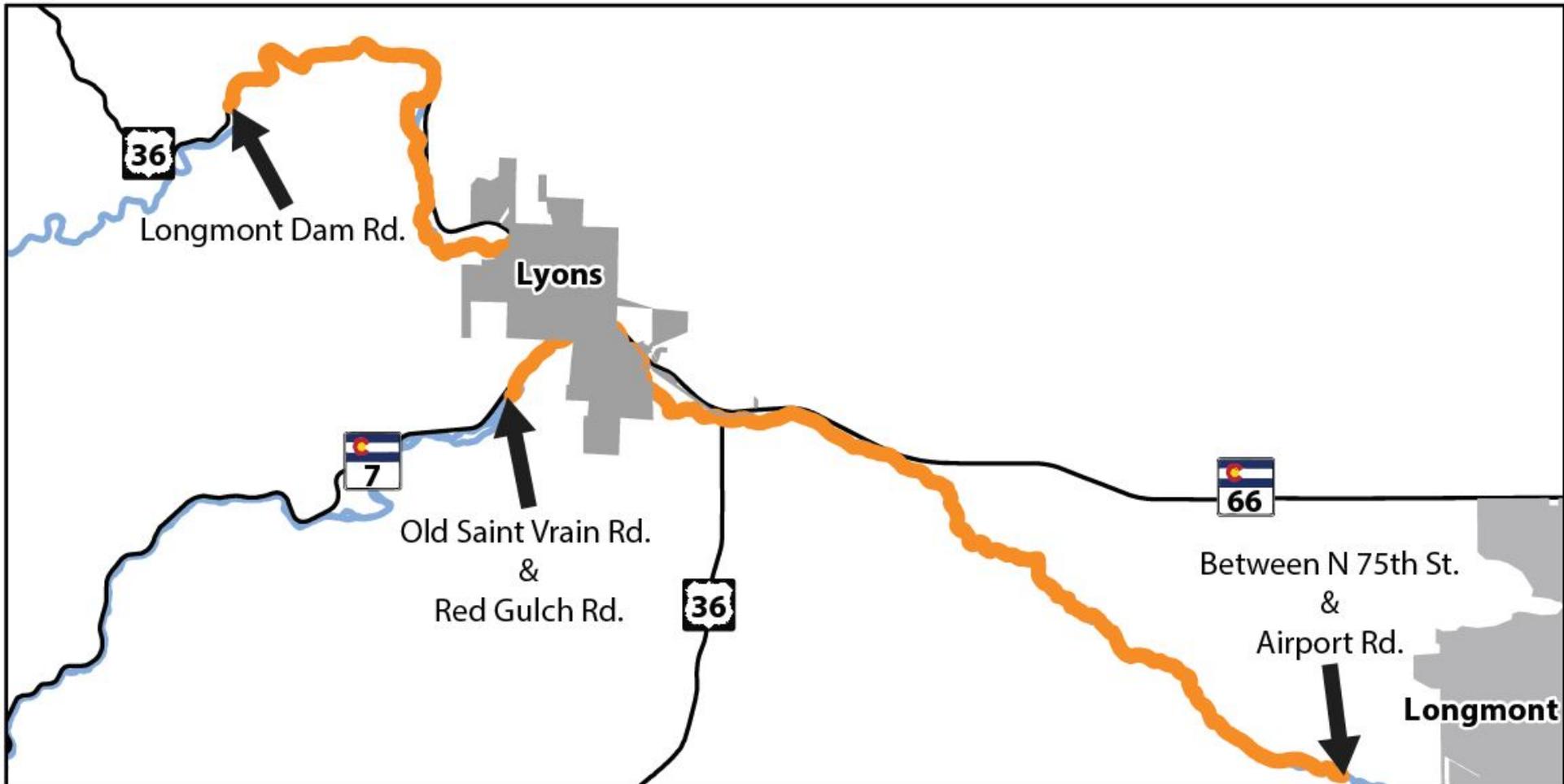


FLOODPLAIN REMAPPING - COMMUNITY REVIEW OF DRAFT DATA

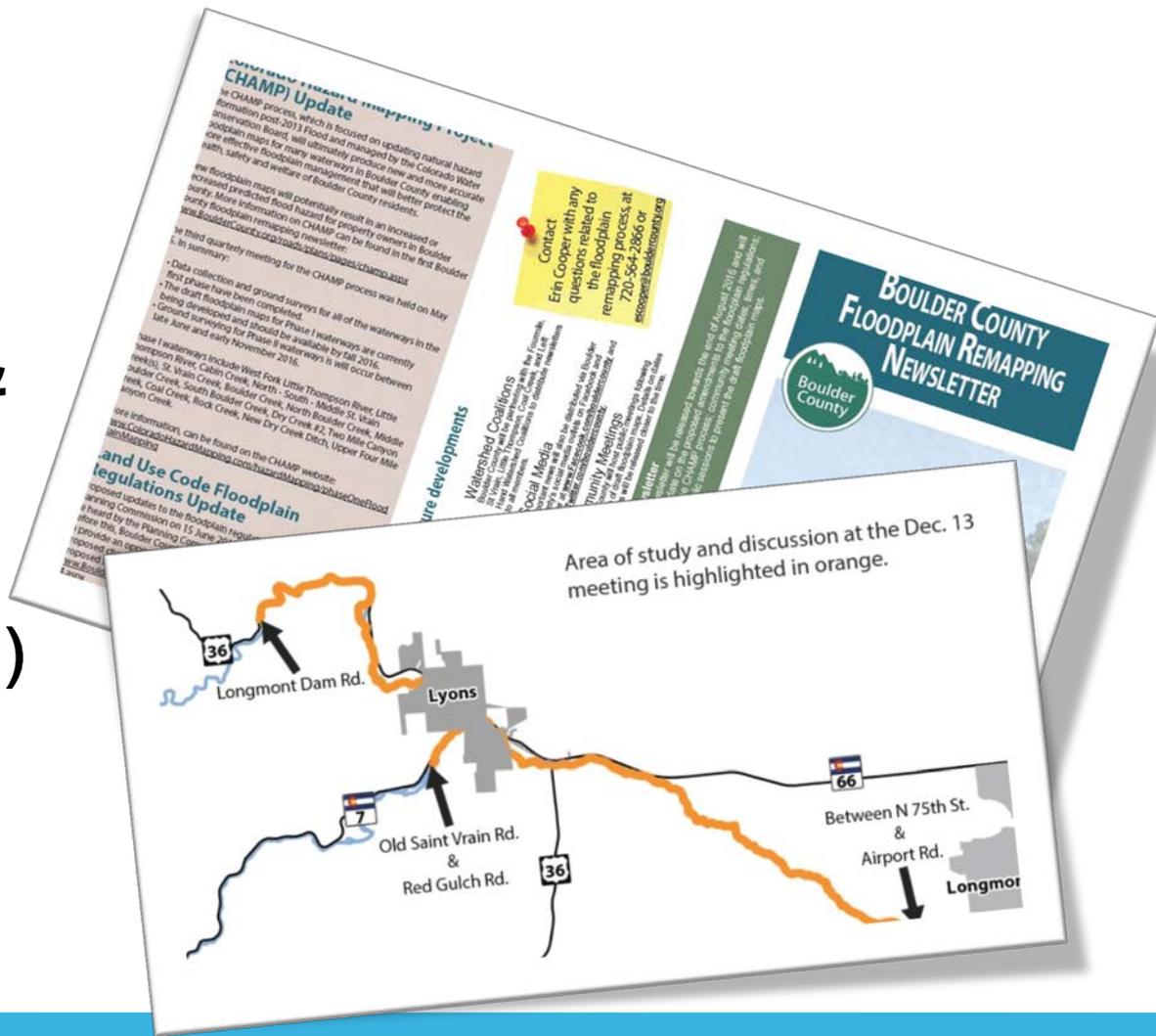
DECEMBER 13, 2016

LYONS, CO



HOUSEKEEPING

- Sign-in sheet
- Newsletters & Flyers
- Locator Map (add your dot!)



TONIGHT'S AGENDA

- 1. Introductions**
 - 2. Meeting Goals**
 - 3. Program Overview**
 - 4. How Things Evolve**
 - 5. Data Overview**
 - 6. Map Review Website**
 - 7. To the Tables!**
- 

INTRODUCTIONS

- Varda Blum, Boulder County
 - Erin Cooper, Boulder County
 - Kevin Doyle, Michael Baker Intl.
 - Corey Elliott, CWCB
 - George Gerstle, Boulder County
 - Rigel Rucker, AECOM
 - Dave Watson, Boulder County
- 

MEETING GOALS:

- 1. Inform the community (you!) of the remapping process**
- 2. Provide opportunity for community input**



COLORADO HAZARD MAPPING PROGRAM

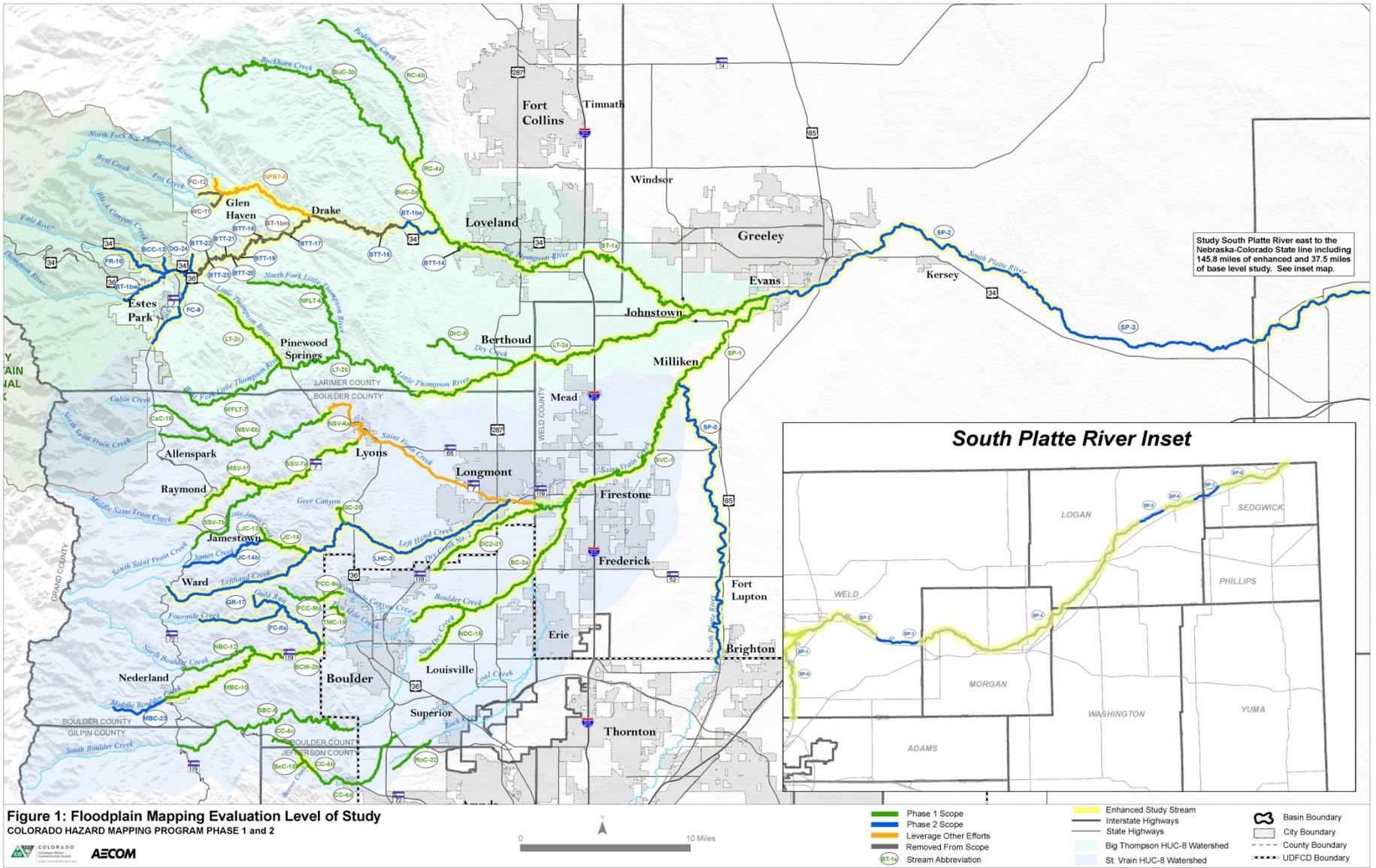
Why is this study being conducted?

- Hazards change
- Currently effective floodplain delineations are often outdated and incorrect
- Maps regularly updated across the country by FEMA, States, Communities
- Flood of 2013 – State initiated program
 - Changes to flooding characteristics
 - Changes to understanding of rainfall

Why does it impact you?

- Know if you are at risk
- Will revise Flood Insurance Rate Maps that impact insurance rates (based on risk)

Where will there be changes?



3. Program Overview

Floodplain Mapping CO Hazard Mapping Program [change ▾](#)

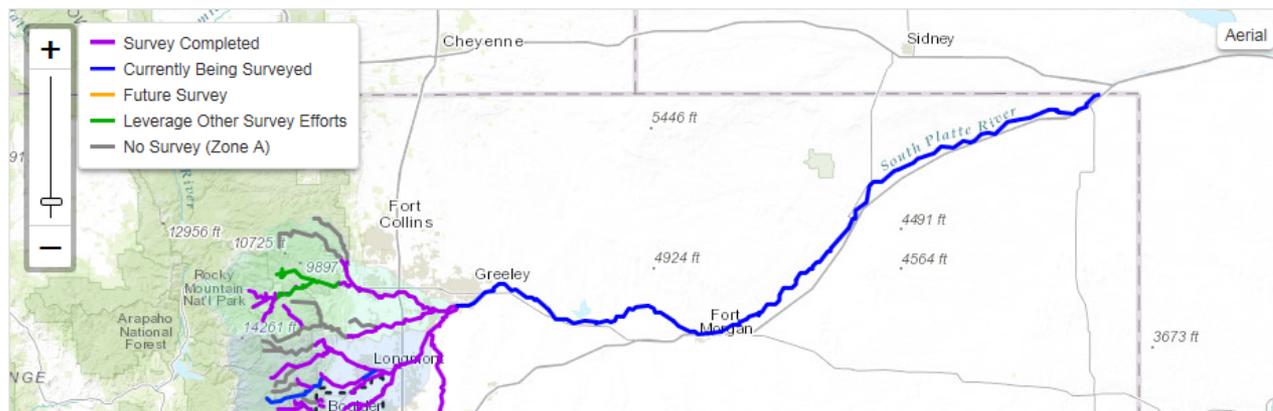
This page is dedicated to showing the latest news and information regarding the CO Hazard Mapping Program Floodplain Mapping.

About the Project

Following the September 2013 flood disaster, Colorado has taken steps toward long-term planning and resiliency efforts for flooding and other natural hazards. In early 2015, Colorado's Legislature passed a funding bill for the Colorado Hazard Mapping Program, which aims to provide a mitigation and land use framework in areas likely to be affected by future flooding, erosion, and debris flow events.

The Colorado Hazard Mapping Program is to prepare updated hazard information for the streams most affected by the September 2013 flooding, beginning in the Big Thompson & St. Vrain watersheds as well as the South Platte River. The work includes field reconnaissance and survey, creating terrain models from updated topographic datasets, evaluating hydrology (flows), and modeling to produce flood hazard area limits reflecting the changed conditions. Community leaders will use the updated hazard information to assess risk and identify mitigation opportunities in their community. The updated information is also intended to eventually be used to update Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM), which are used to determine flood insurance requirements.

The Colorado Water Conservation Board (CWCB) is the lead agency coordinating the Colorado Hazard Mapping Program. CWCB is working with AECOM, a nationally-recognized engineering firm, to conduct the technical work.



Project News and Events

Boulder County Floodplain Mapping Public Meeting Community Meeting Scheduled

12/13/2016 – Boulder County Transportation and the State of Colorado will host a public meeting to present recently updated draft floodplain maps from the Federal Emergency Management Agency (FEMA) and the Colorado Hazard Mapping Program (CHAMP). This initial meeting will review map information for North and South St. Vrain creeks and St. Vrain Creek from Longmont Dam Road and Red Gulch Road to Lyons and from Lyons east toward Airport Road in unincorporated Boulder County. Residents along these creek stretches and other interested parties are invited to attend a public presentation that will be followed by an interactive map review session with state and county staff. [View the meeting](#)

December 2016 CHAMP Newsletter

New Document Available
12/08/2016 – December 2016 Newsletter for the CHAMP Project. [Download the document](#)

December 2016 Newsletter Posted

12/08/2016 – The [December 2016 CHAMP Newsletter](#) has been posted. [Read more](#)

Flood Risk Review - Gilpin & Jefferson Counties Community Meeting Scheduled

12/01/2016 – These FRR meetings will give community officials the chance to review and provide early feedback on draft versions of the floodplains prior to

Map Floodplain Mapping change ▾

Layers

Documents

Stream Segments

- All Streams — Stre Seg
- Survey Status < >
- Level of Study
- Coordination

UDFCD Boundary

- UDFCD Boundary

2015 Surveyed Locations

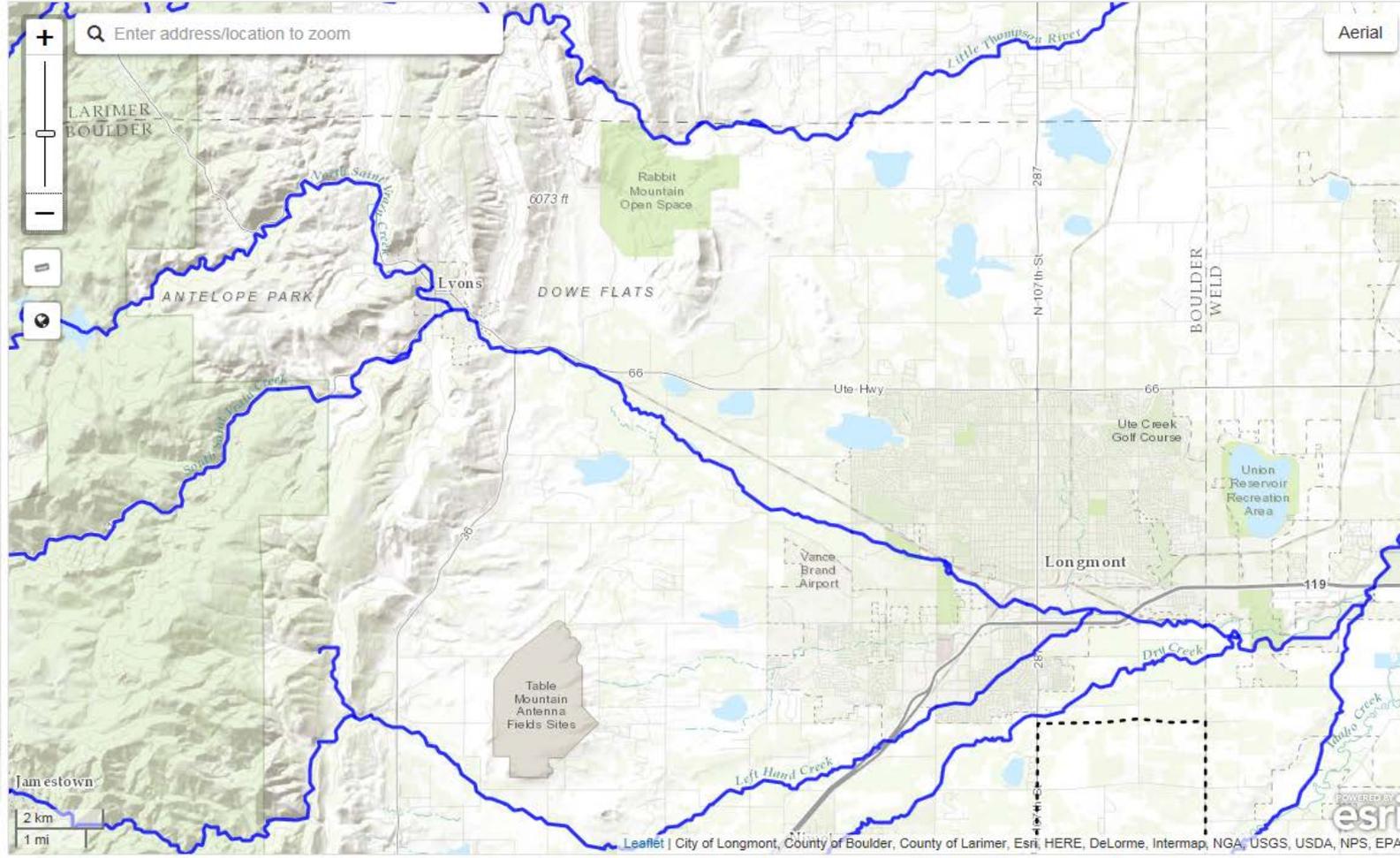
Hydrology Flow Changes

Lidar Extents

NFHL Flood Hazard Zones

FEMA National Flood Hazard Layer zoom in to view

features can have associated documents



COLORADO HAZARD MAPPING PROGRAM

What happens next?

- There are still multiple reviews that will occur, so data is subject to change
- Boulder County being proactive to bring this information to you in draft form
- This is a first look for you to get your input well in advance of data finalization

When will changes go into effect ?

- CHAMP team will review comments
- FEMA will review data next Spring
- Data will be put onto preliminary Flood insurance Rate Maps late next year
- A formal 90 day appeal period will commence where anyone can appeal maps with technical data
- Once resolved, maps will be released as final (effective), likely late 2018/early 2019

BOULDER COUNTY'S ROLE

- Varied conditions
- Changing risks
- Early adoption for health & safety



2013 FLOOD ST. VRAIN WATERSHED

Estimated Peak Discharges Experienced in 2013 Flood

- St. Vrain Creek @ Hwy 36 Bridge – 23,000 cfs
- North St. Vrain Creek above Lyons – 12,300 cfs
- South St. Vrain Creek above Lyons – 9,000 cfs

Newly Modeled Discharges of the 100-yr Flood Event

- St. Vrain Creek @ Hwy 36 Bridge – 12,089 cfs
- North St. Vrain Creek above Lyons – 6,386 cfs
- South St. Vrain Creek above Lyons – 7,234 cfs



ROLES AND RESPONSIBILITIES

Federal Role (FEMA)

- Administrator of the National Flood Insurance Program (NFIP)
- Provide risk information to communities across the nation
- Make Flood Insurance available to communities who enroll in the NFIP

State Role (CWCB)

- Provide assistance to communities in the adoption and enforcement of floodplain regulations
- Provide technical assistance to communities
- Performing updated flood risk studies (in some cases)

Local Role (Boulder County)

- Adoption of the Flood Risk data provided by FEMA
- Enact and Enforce regulations to comply with the NFIP (minimum requirements are set by FEMA and CWCB)

Ultimate Goal of all Entities – Protect Life, Health, & Safety

TIMELINE REVISITED

- Now – Boulder County is reviewing the hydraulics and floodplain mapping
- Spring 2017
 - FEMA will review the hydraulics and floodplain mapping
 - Boulder County to adopt floodplain as “best available data”
- Late 2017 – Preliminary Flood Insurance Rate Maps issued
- Early 2019 – Flood Insurance Rate Maps Effective

* All dates are subject to change

USING THE MAP REVIEW WEBSITE

Viewable at <http://arcg.is/2fF4CZY>



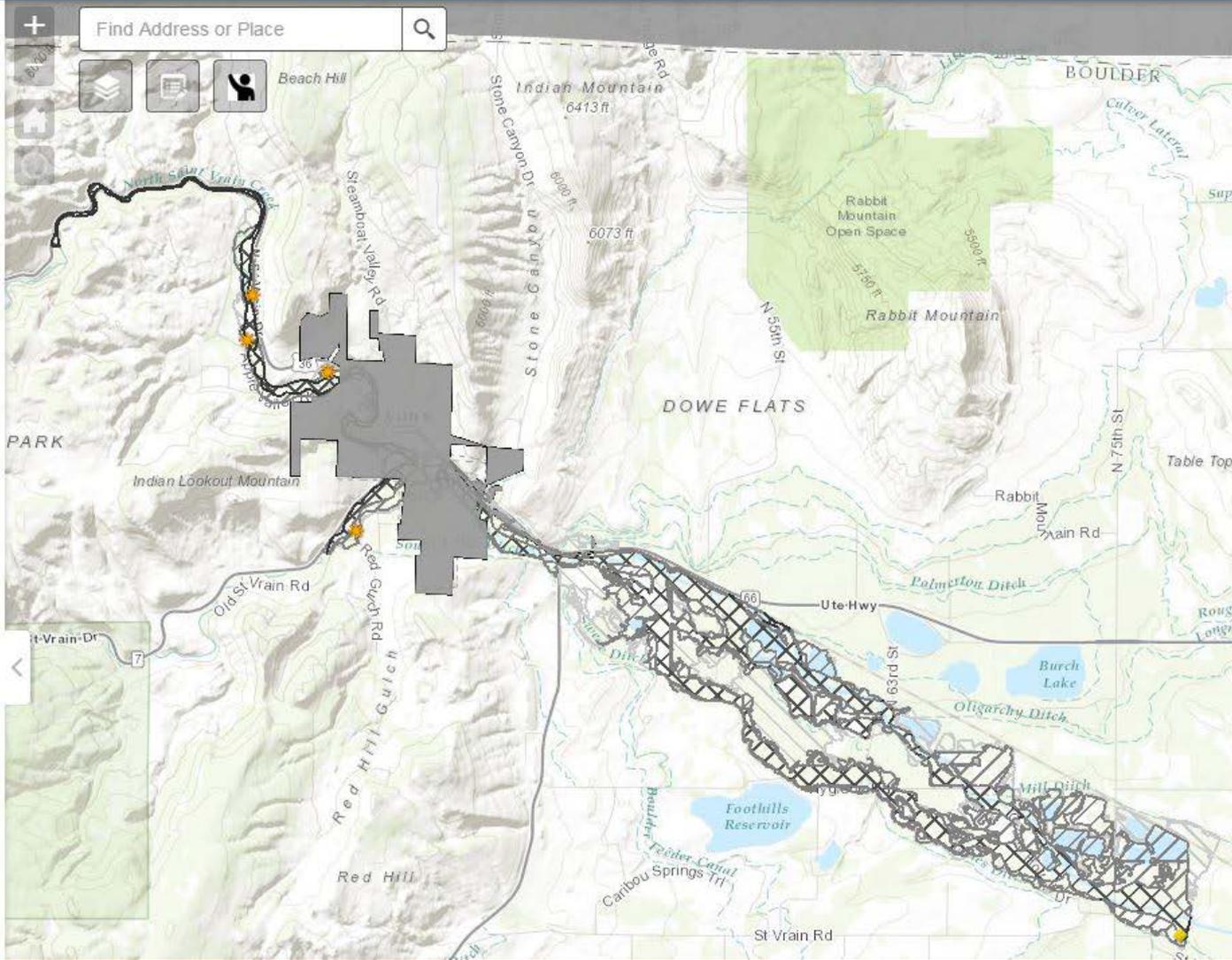
Comment Points

Areas of Potential Change

County and Incorporated Areas Mask

DRAFT Flood Risk Zones

- 100-Year Floodplain - Zones AE, A, AO, and AH (DRAFT)
- Floodway (DRAFT)
- 500-Year Floodplain (DRAFT)



Comment Points



Areas of Potential Change

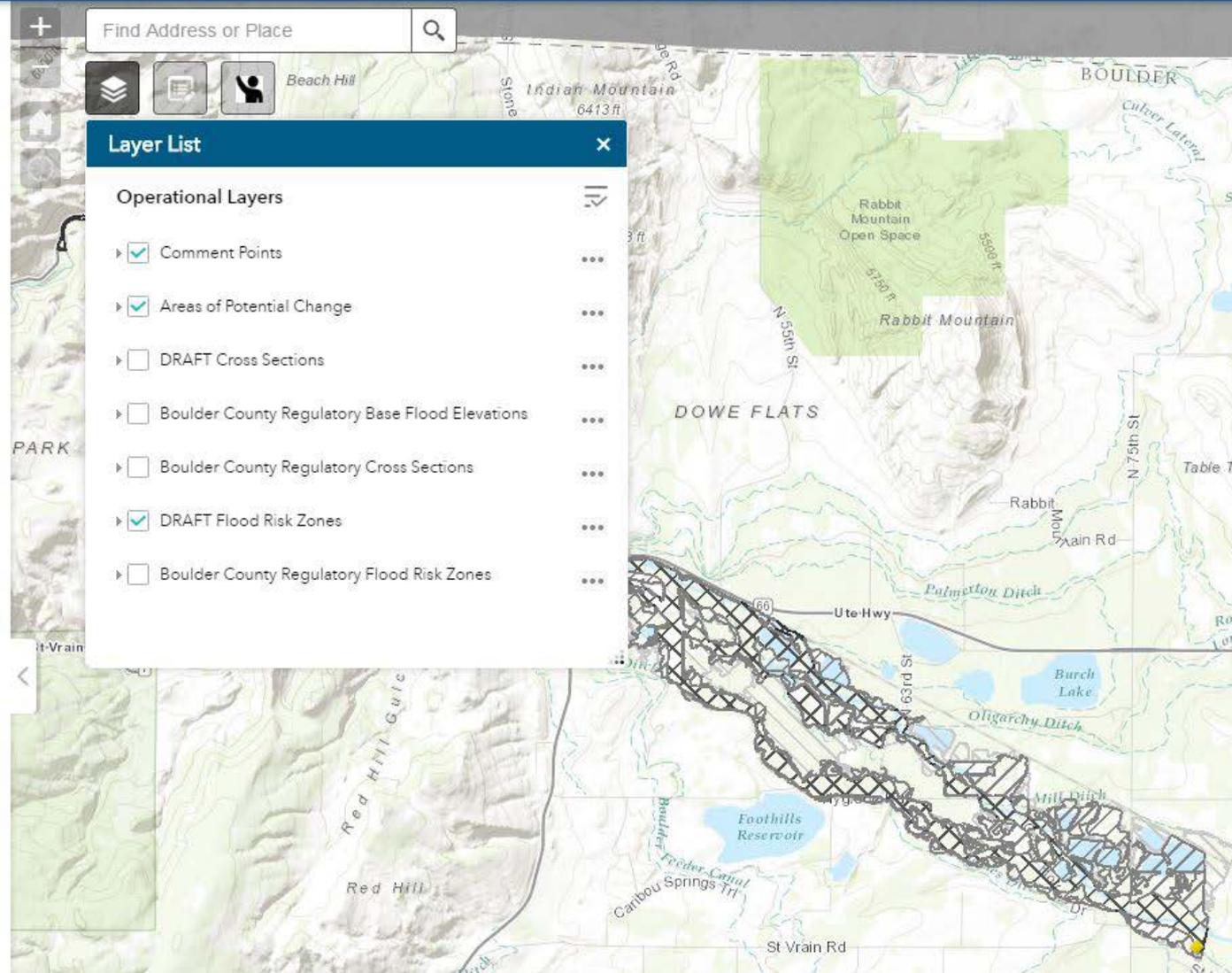


County and Incorporated Areas Mask



DRAFT Flood Risk Zones

- 100-Year Floodplain - Zones AE, A, AO, and AH (DRAFT)
- Floodway (DRAFT)
- 500-Year Floodplain (DRAFT)



Comment Points

-

Areas of Potential Change

-

County and Incorporated Areas Mask

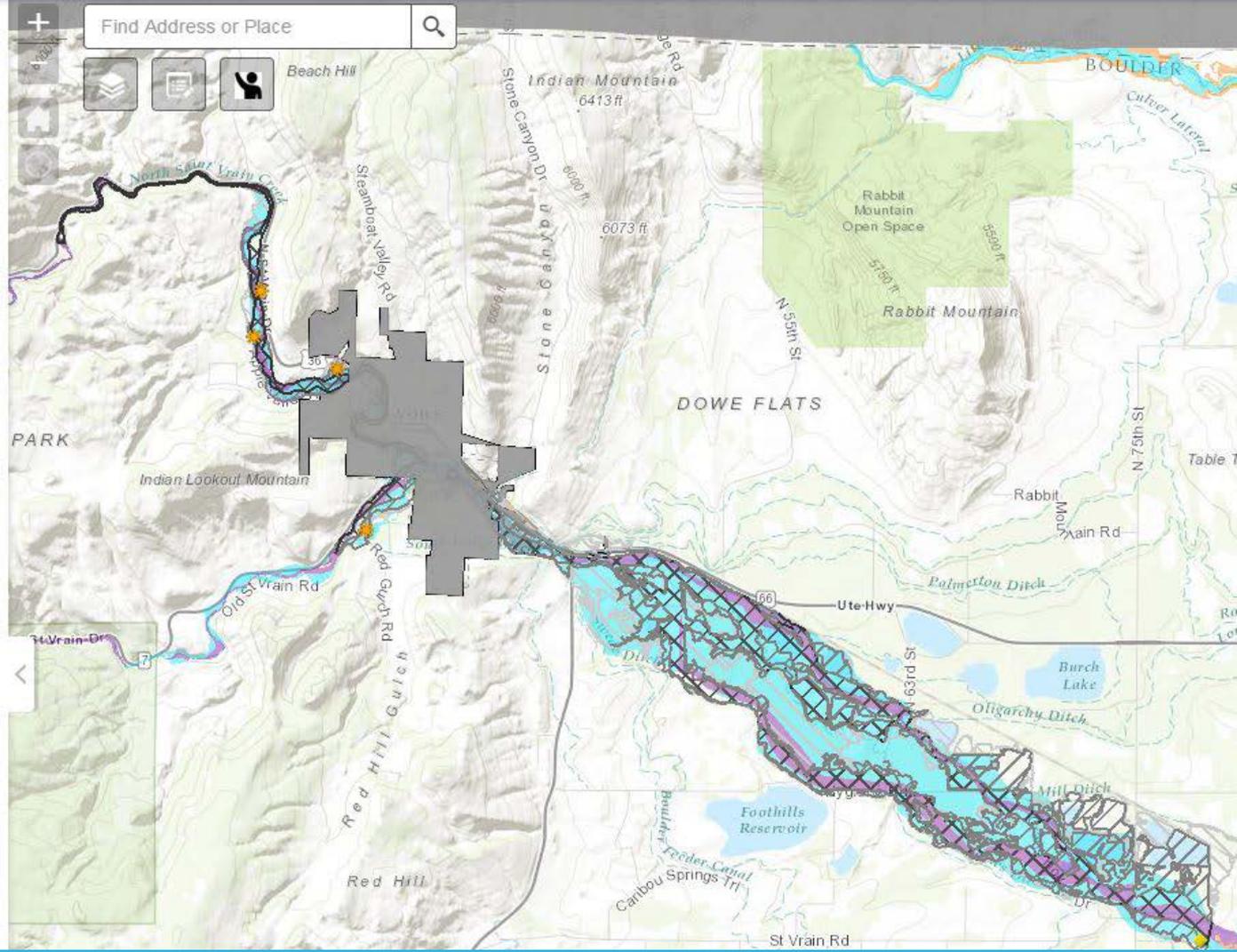
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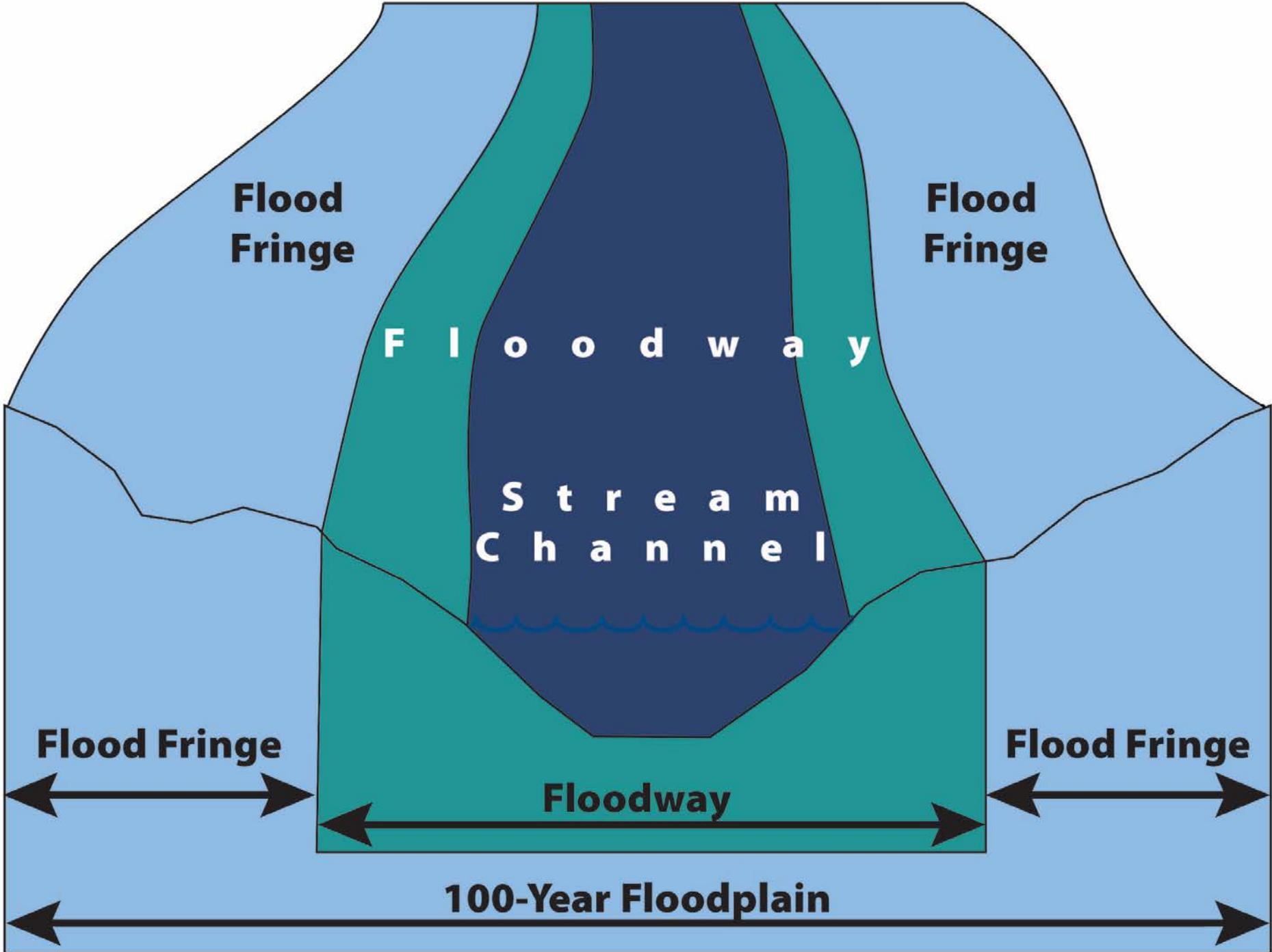
DRAFT Flood Risk Zones

- 100-Year Floodplain - Zones AE, A, AO, and AH (DRAFT)
- Floodway (DRAFT)
- 500-Year Floodplain (DRAFT)

Boulder County Regulatory Flood Risk Zones

- 100-Year Floodplain - Zones AE, A, AO and AH (FEMA)
- Floodway (FEMA)
- 500-Year Floodplain - Zone X500 (FEMA)
- Floodway (Boulder County)
- 500-Year Floodplain - Zone X500 (Boulder County)
- 100-Year Floodplain - Zones AE, A, AO, and AH (Boulder County)





500-year
floodplain



100-year
floodplain



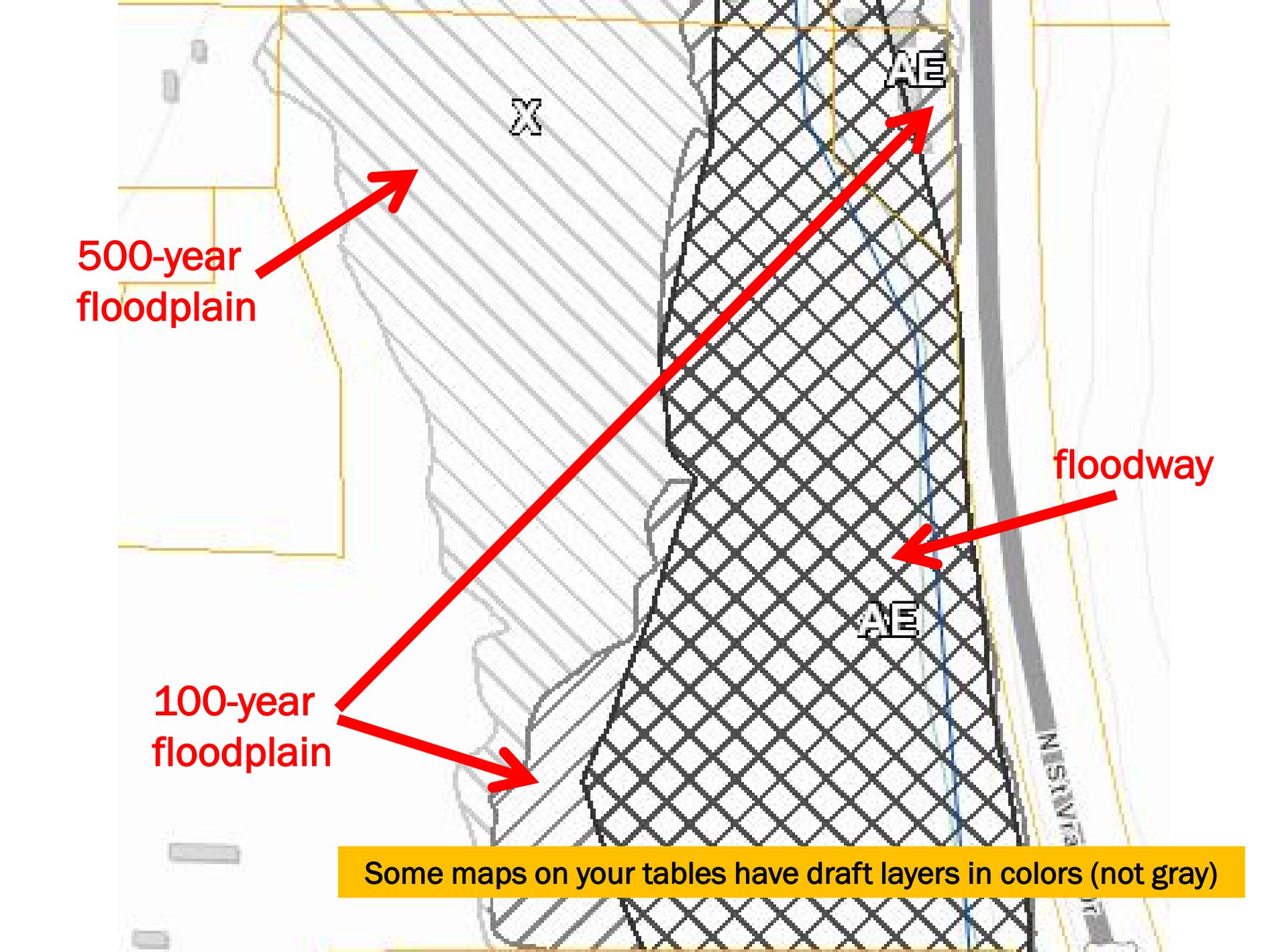
AE

AE

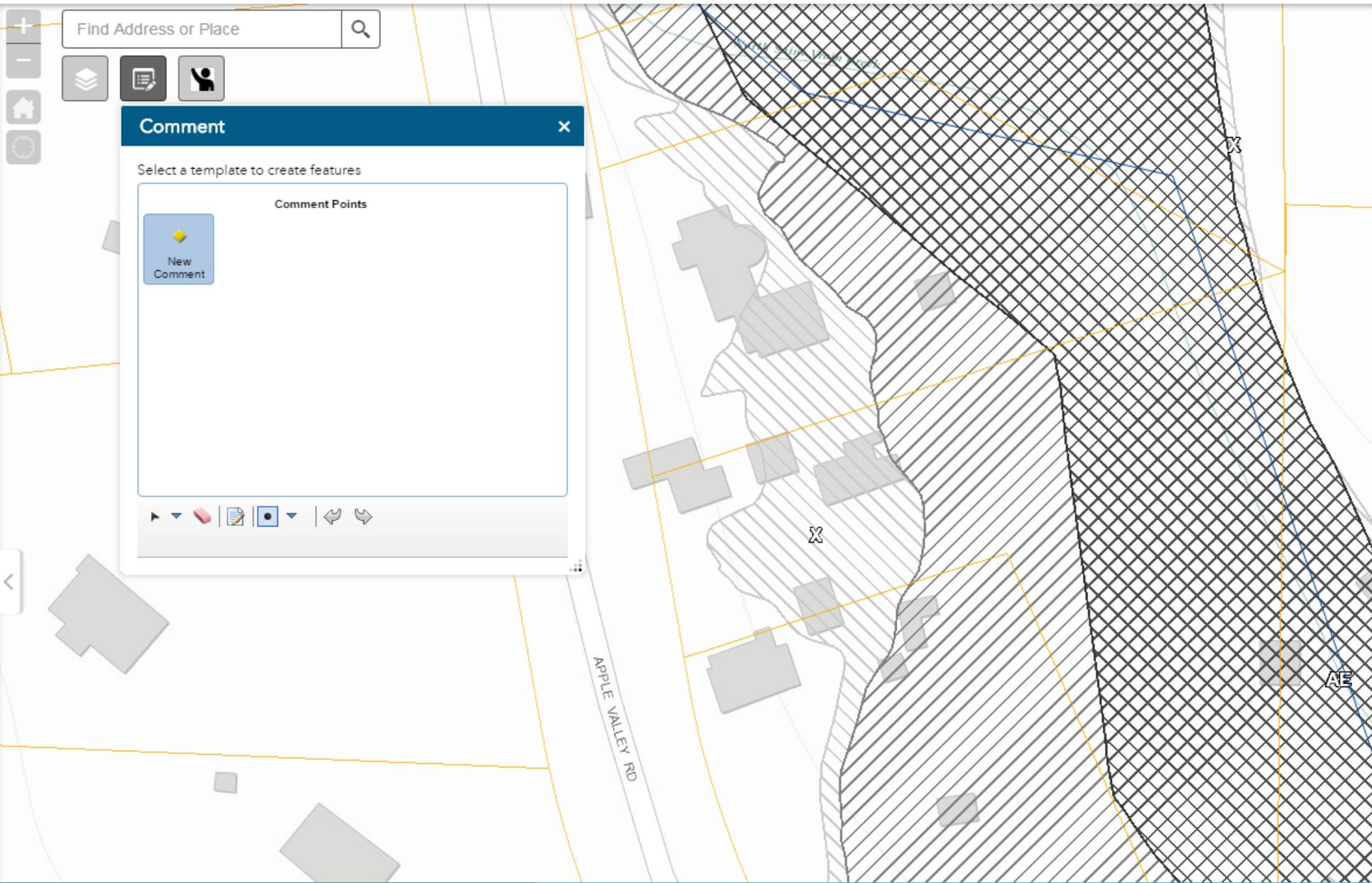
floodway



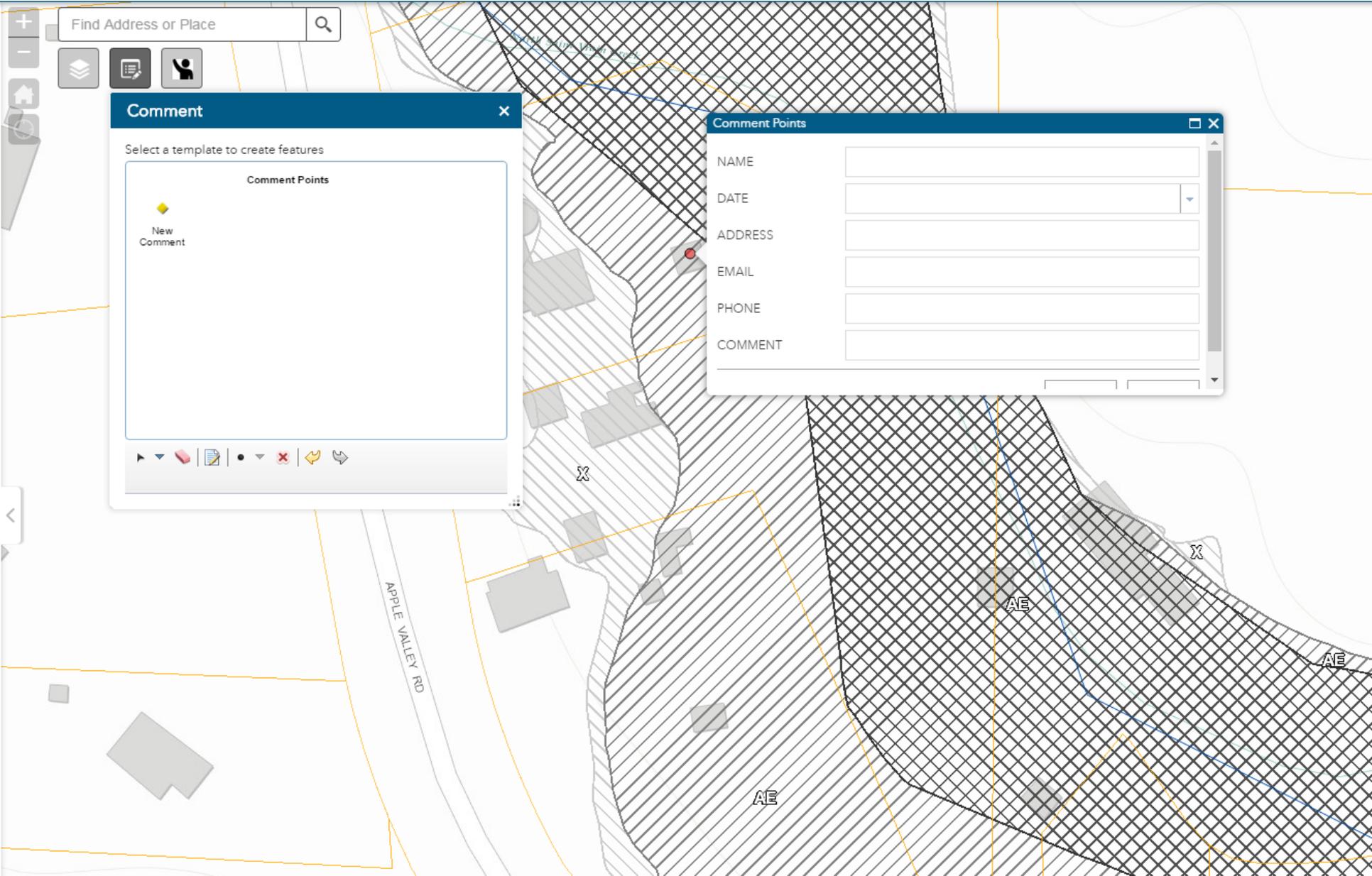
Some maps on your tables have draft layers in colors (not gray)



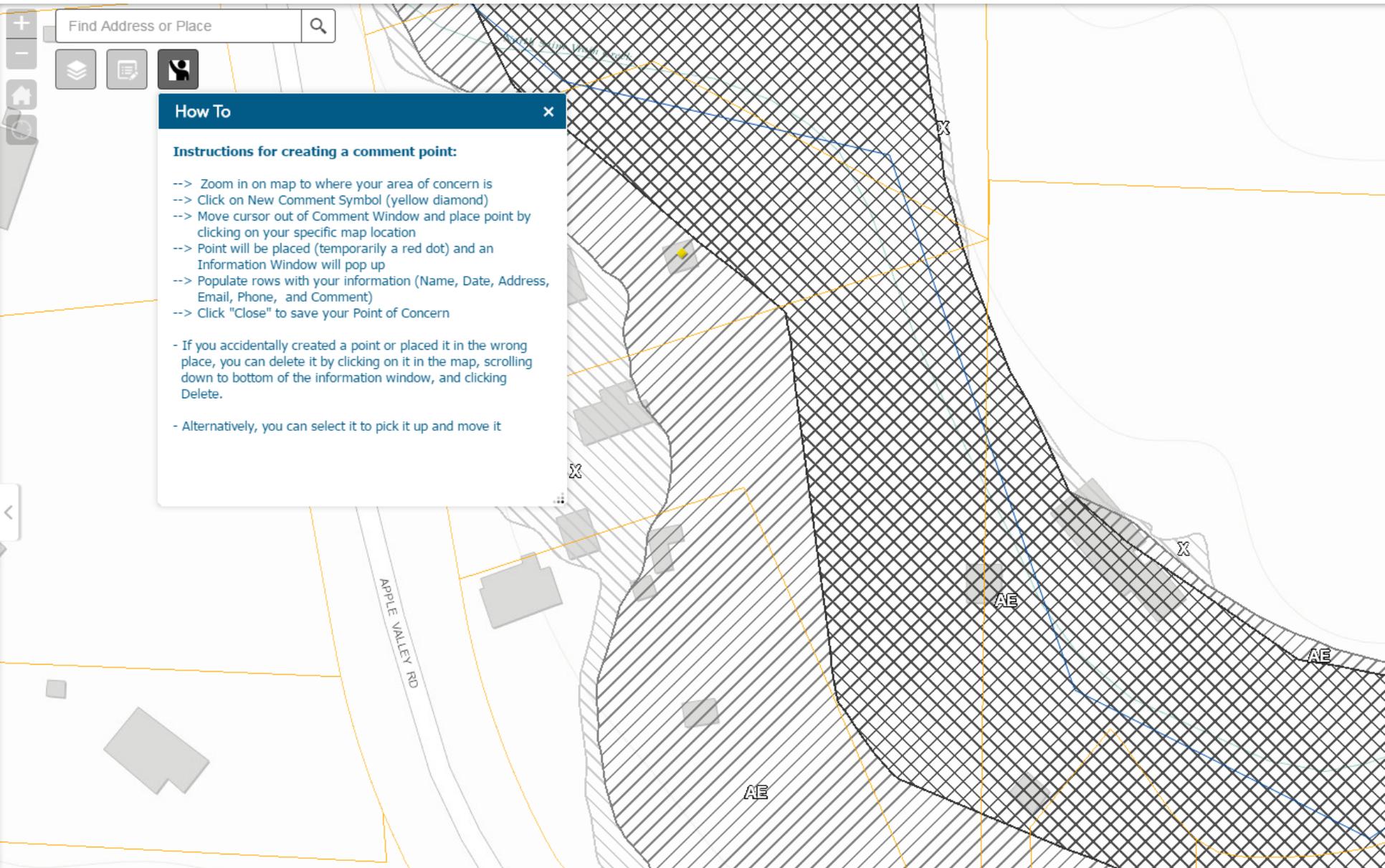
HOW TO COMMENT



HOW TO COMMENT



INSTRUCTIONS BUTTON



How To

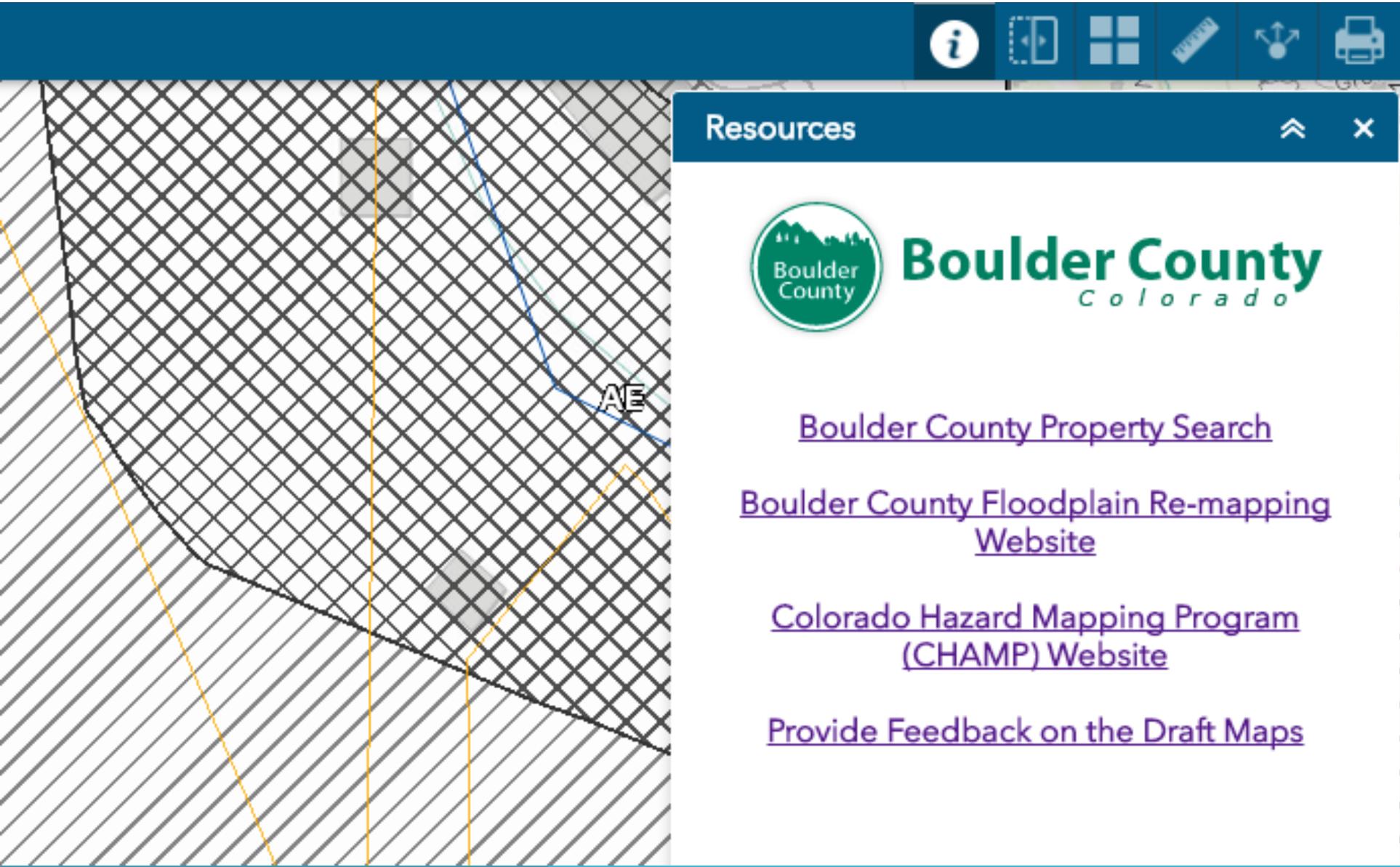
Instructions for creating a comment point:

- > Zoom in on map to where your area of concern is
- > Click on New Comment Symbol (yellow diamond)
- > Move cursor out of Comment Window and place point by clicking on your specific map location
- > Point will be placed (temporarily a red dot) and an Information Window will pop up
- > Populate rows with your information (Name, Date, Address, Email, Phone, and Comment)
- > Click "Close" to save your Point of Concern

- If you accidentally created a point or placed it in the wrong place, you can delete it by clicking on it in the map, scrolling down to bottom of the information window, and clicking Delete.

- Alternatively, you can select it to pick it up and move it

RESOURCES BUTTON



The image shows a screenshot of a GIS application interface. On the left, a map displays a grid pattern, a blue line labeled 'AE', and orange boundary lines. On the right, a 'Resources' panel is open, featuring the Boulder County logo and the following links:

- [Boulder County Property Search](#)
- [Boulder County Floodplain Re-mapping Website](#)
- [Colorado Hazard Mapping Program \(CHAMP\) Website](#)
- [Provide Feedback on the Draft Maps](#)

DRAFT MAPS AT THE TABLES

- **What we'd like to learn from your review:**
 - Structure locations – accurate?
 - Planned work?
 - Topographic details
 - Impacts to water flow
- **DEADLINE for comments for this area: JANUARY 9TH**

REMAPPING POINT OF CONTACT: ERIN COOPER,
FLOODPLAINMAPSCOMMENT@BOULDERCOUNTY.ORG