

GIS Community of Practice Monthly Forum

Last Wednesday of the month

Wednesday, February 26th, 2025
1:30 – 2:30 PM




GIS Community of Practice (CoP)

- Welcome to the GIS CoP forum.
- For the best experience, please use your computer to join the meeting.
- Mute your audio.
- Turn off your video unless you're presenting or in active discussion.
- Use the raise hand button or the meeting chat for comments and questions.
- We will begin shortly.

GIS CoP Agenda

Welcome

 GIS CoP is 474 Members!


- Lothar Petrik, CDT GIO
- Data Retention Effort

Main Topics

- Anna Price (anna.price@cdtfa.ca.gov, CDTFA) & Nick Santos (nick.santos@state.ca.gov, CDT GIS)
"City and County Boundary Services – and related services"
- Lothar Petrik (lothar.petrik@state.ca.gov), CDT GIO, GIS
"Hexagon: Flight Lines and Updates"
- Carmen Gonsalves (carmen.gonsalves@state.ca.gov, CDT GIS) & Nick Santos
"Document Links: What are they? Why are they useful?"
- Updates: Parcel Data Updates, Open Source GIS, Legislative Layers in Geoportal

Announcements

Admin boundaries – How are they created?




CALIFORNIA
STATE GEOPORTAL

California State Geoportal

BOE_CityCounty

Part of
[City and County Boundary Line Changes](#)



Anna Price

California Department of Tax and Fee Administration

Summary


This map contains city and county boundary lines for the purpose of determining sales and use tax jurisdictions. The boundaries are updated after a change to a city or county boundary is filed with and acknowledged by the California State Board of Equalization per Government Code 54900. Updates to this map are posted within 10 business days of the California Department of Tax and Fee Administration receiving a copy of the acknowledgement letter from the California State

[Read More](#)


View Full Details

Download

Details




Dataset
Feature Layer




As Needed

Info Updated: February 24, 2025



As Needed

Data Updated: February 24, 2025



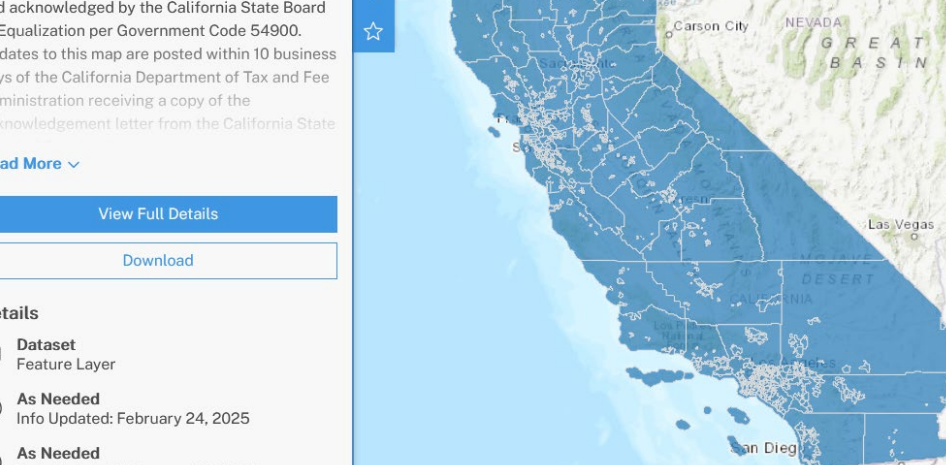
March 6, 2015 at 12:00 AM


Published Date

I want to use this

>

Records: 1,534






CALIFORNIA
STATE GEOPORTAL

Organizations

Featured Apps


Local C



city boundaries

All (3223)

Data (2733)



Filters

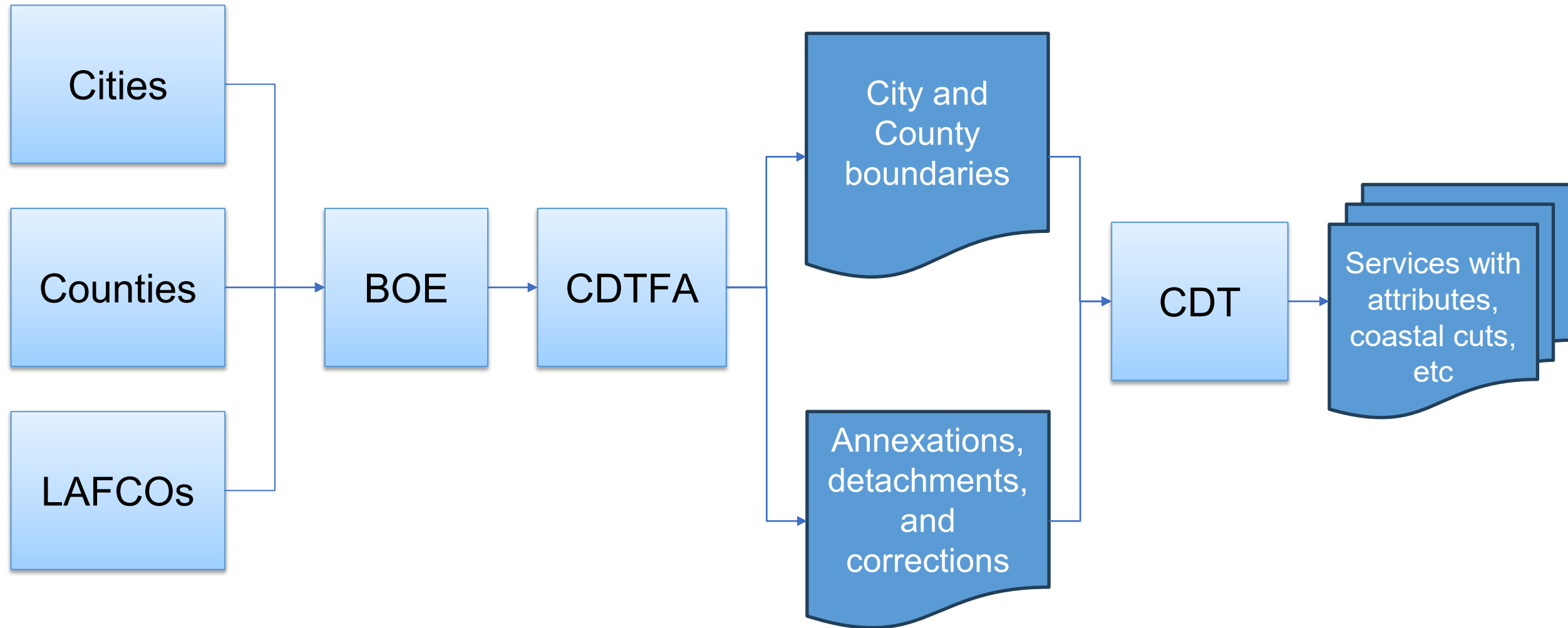
Reset

1-12 of 38

The screenshot displays the California State Geportal interface. On the left sidebar, there's a navigation menu with icons for Home, Search, Layers, Settings, and Favorites. The main panel shows a map of Southern California with city boundaries highlighted in blue. A legend on the right indicates that the blue areas represent 'City Boundaries'. Below the map, there's a table listing various cities and their corresponding identifiers.

City	Identifier
Los Angeles	06030010000
Burbank	06030020000
Pasadena	06030030000
Duarte	06030040000
Azusa	06030050000
San Marino	06030060000
Alhambra	06030070000
Baldwin Park	06030080000
Monterey Park	06030090000
La Puente	06030100000
Walnut	06030110000
Diamond	06030120000
Vernon	06030130000
Pico Rivera	06030140000
Downey	06030150000
La Habra Heights	06030160000
La Brea	06030170000
Fullerton	06030180000
Yorba Linda	06030190000
Cypress	06030200000
Anaheim	06030210000
Villa Park	06030220000
Garden Grove	06030230000
Santa Ana	06030240000
Costa Mesa	06030250000
Newport Beach	06030260000
Rancho Palos Verdes	06030270000
Long Beach	06030280000
Lomita	06030290000
Hawthorne	06030300000
Inglewood	06030310000
Culver City	06030320000
Beverly Hills	06030330000
Bel Air	06030340000
Malibu	06030350000
Santa Monica	06030360000
Manhattan Beach	06030370000
Hermosa Beach	06030380000
Carson	06030390000
Lakewood	06030400000
Torrance	06030410000
Compton	06030420000
Wilmington	06030430000
San Pedro	06030440000
San Gabriel	06030450000
San Jose	06030460000
Fresno	06030470000
Manteca	06030480000
Merced	06030490000
Stockton	06030500000
Modesto	06030510000
Tracy	06030520000
Manteca	06030530000
Merced	06030540000
Stockton	06030550000
Modesto	06030560000
Tracy	06030570000
Manteca	06030580000
Merced	06030590000
Stockton	06030600000
Modesto	06030610000
Tracy	06030620000
Manteca	06030630000
Merced	06030640000
Stockton	06030650000
Modesto	06030660000
Tracy	06030670000
Manteca	06030680000
Merced	06030690000
Stockton	06030700000
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Merced	06030740000
Stockton	06030750000
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Merced	06030790000
Stockton	06030800000
Modesto	06030810000
Tracy	06030820000
Manteca	06030830000
Merced	06030840000
Stockton	06030850000
Modesto	06030860000
Tracy	06030870000
Manteca	06030880000
Merced	06030890000
Stockton	06030900000
Modesto	06030910000
Tracy	06030920000
Manteca	06030930000
Merced	06030940000
Stockton	06030950000
Modesto	06030960000
Tracy	06030970000
Manteca	06030980000
Merced	06030990000
Stockton	06031000000

General data flow for administrative boundaries





Presented by Anna Marie C. Price
California Department of Tax and Fee Administration

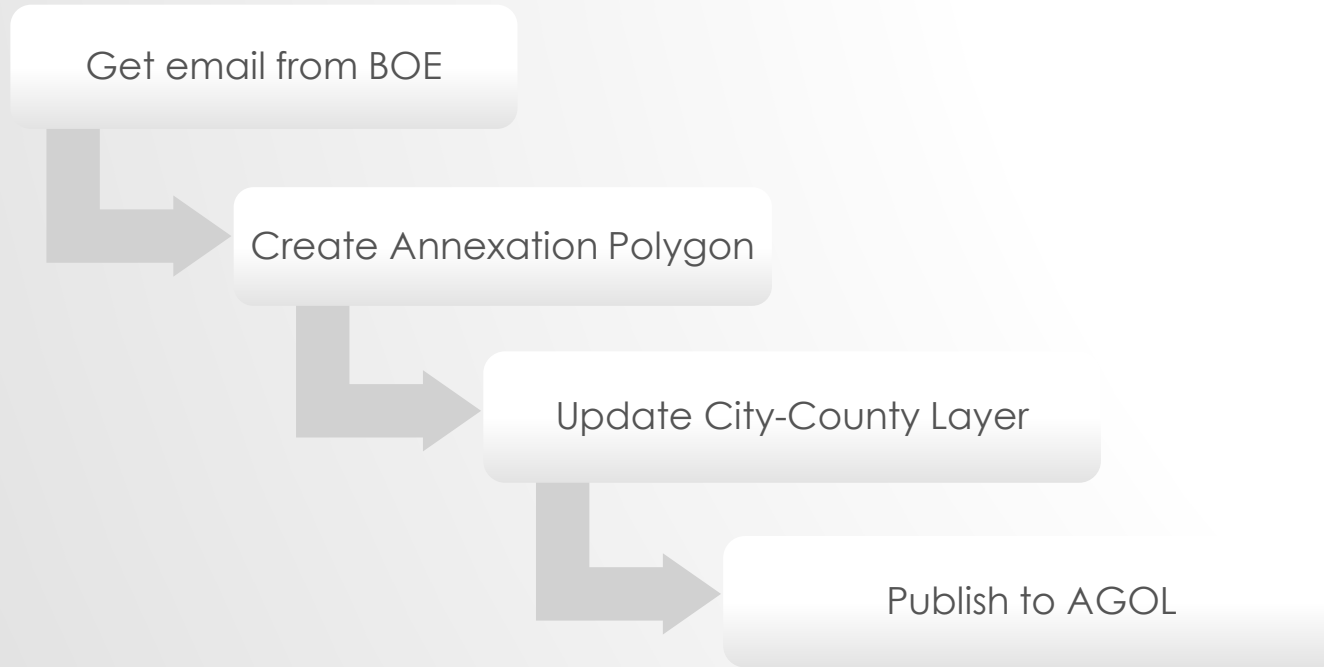
BOE_CITYCOUNTY

City and County Boundary Lines maintained by CDTFA

OVERVIEW

- Typical workflow
- Original data (published October 2021)
- Current Modifications

TYPICAL WORKFLOW



Within 10
business
days.

EMAIL FROM BOE

CITY ANNEXATIONS



Schwarting, Ricard

To 📧 Schwarting, Ricard

Cc ✅ Price, Anna Marie; 📧 Carter, Jennifer



↩ Reply

↩ Reply All

➡ Forward



Fri 2/14/2025 10:14 AM



10-2026-001-CITY.pdf
1 MB



04-2026-001 CITY.pdf
2 MB



Please find attached City Boundary Changes filed with Tax Area Services Section:



California State
Board of Equalization

Ric Schwarting, Research Data Supervisor

State Assessed Properties Division / Tax Area Services Section

1-916-274-3261 Office

1-916-639-0040 Cell

Ricard.Schwarting@boe.ca.gov


TASS@BOE.CA.GOV

- City changes only.
- No county boundary change notifications
- No boundary correction notifications.

BOE Acknowledgement Letter

STATE OF CALIFORNIA

STATE BOARD OF EQUALIZATION
PROPERTY TAX DEPARTMENT
TAX AREA SERVICES SECTION, MIC. 59
450 N STREET, SACRAMENTO, CALIFORNIA
PO BOX 942879, SACRAMENTO CALIFORNIA, 94279-0059
1-916-274-3250, FAX 1-916-285-0130
www.boe.ca.gov
TASS@boe.ca.gov



TED GAINES
First District, Sacramento
SALLY J. LIEBER
Second District, San Francisco
ANTONIO VAZQUEZ
Third District, Santa Monica
MIKE SCHAEFER
Fourth District, San Diego
MALIAM. COHEN
State Controller
YVETTE M. STOWERS
Executive Director

Mr. Brian Spaunhurst, Executive Officer
Fresno LAFCo
1401 Fulton St. Ste. 900
Fresno, CA 93721

This is to acknowledge receipt of the statement(s) required by Section 54900, et seq., of the Government Code for the action described below. Copies of your documents will be forwarded by us to other agencies. You are required by Section 54902 of the Government Code to file a complete set of documents, except for the processing fee, with the County Assessor and Auditor affected by this action.

Tax rate area boundaries and property tax allocations will become effective for the assesment roll indicated below.

Assessment Roll: 2026/27
County: 10 Fresno
District: 01 [0009] CITY - KINGSBURG
Conducting Authority: WAIVED
Short Title: CITY OF KINGSBURG: MATOIAN REORGANIZATION
Type of Action: 02 City - Annexation
Resolution/Ord. No.:
LAFCo Res. No.: RO-24-02
Effective Date: 04/10/2024
Fee: \$800.00
Acreage: 13.24
City Boundary Change
Estimated Population: 0
Total assessed value of all property in subject territory: 635000


BOE File No.: 2026-001
Received at BOE: 02/07/2025
Date of Acknowledgment: 02/13/2025
Distribution: 1

Ric Schwarting
Research Manager (GIS)
State-Assessed Properties Division
Tax Area Services Section

cc: County Assessor, County Auditor
acknowledge1.fr3

Statement of Boundary Change

BOE-400-TA (P1) REV. 02 (10-09)
STATEMENT OF BOUNDARY CHANGE
Please mail to: State Board of Equalization, Tax Area Services Section,
450 N Street, MIC.59, P.O. Box 942879, Sacramento, CA 94279-0059.



STATE OF CALIFORNIA
BOARD OF EQUALIZATION
www.boe.ca.gov

County Number
File Number
Effective Date

COUNTY NUMBER 10
CREAGE 3.24
FEE \$800
BOE File No. 26-001
Res.Ord. NUMBER N/A
LAFCo. RES. RO-24-02
EFFECTIVE DATE 4-10-2024

SECTION 1: TYPE OF ACTION (CHECK ONE ONLY)
☒ City - Annexation (02) ☐ District - Formation (09) ☐ District - Name Change (11) ☐ School District - Transfer of Territory (13)
☐ City - Detachment (14) ☐ District - Annexation (04) ☐ Redevelopment - New Project (15)
☐ City - Incorporation (04) ☐ District - Detachment (07) ☐ Redevelopment - Amendment to Project (10)
☐ Consolidation of TRAs (06) ☐ District - Consolidation (05) ☐ School District - Merger (17) ☐ School District - Unification (18)
☐ County Boundary Change (16) ☐ District - Dissolution/Removal from Board Roll (08) ☐ School District - Thompson Unified (19)

SECTION 2: PRINCIPAL CITY/DISTRICT(S) AFFECTED BY ACTION [ENTER DISTRICT NAME(S)]
ANNEX TO THE CITY OF KINGSBURG [0009] DETACH FROM FRESNO COUNTY FIRE PROT. DIST. [0156]
ANNEX TO SELMA-FOWLER-KINGSBURG SANITATION [0227] DETACH FROM KINGS RIVER CONSERVATION DIST. [0113]
DETACH FROM CONSOLIDATION IRRIGATION DIST. [0175]

SECTION 3: AFFECTED TERRITORY
☐ Inhabited ☐ Developed ☐ Will be taxed for existing bonded indebtedness or contractual obligations as set forth by the terms and conditions as stated in the resolution.
☒ Uninhabited ☒ Undeveloped ☒ Will not be taxed for existing bonded indebtedness or contractual obligations.
Number of Areas: 1

SECTION 4: ELECTION
☐ An election authorizing this action was held on _____ date (mm/dd/yyyy)
☒ This action is exempt from election.

SECTION 5: ENCLOSED ARE THE FOLLOWING ITEMS REQUIRED AT THE TIME OF FILING
☒ Fees ☒ Certificate of Completion (LAFCo. only) ☐ County auditor's letter of TRA assignment (consolidated counties only)
☒ Legal description ☒ Map(s) and supporting documents
☐ Resolution of conducting authority ☒ Assessor parcel number(s) of affected territory

SECTION 6: CITY BOUNDARY CHANGES ONLY
☒ Map of limiting addresses (2 copies) ☐ Alphabetical list of all streets within the affected area to include beginning and ending street numbers
☒ Vicinity maps (2 copies)
Estimated Population: 0 Total assessed value of all property in subject territory: \$635,000

REQUIRED: According to section 54902 of the Government Code, copies of these documents must be filed with the county auditor and county assessor.

Board of Equalization will acknowledge receipt of filing to:
NAME: BRIAN SPAUNHURST
TITLE: EXECUTIVE OFFICER
AGENCY: FRESNO LOCAL AGENCY FORMATION COMMISSION
STREET: 1401 FULTON STREET, STE. 800
CITY: FRESNO ZIP CODE: 93721
TELEPHONE NUMBER (include area code): (559) 600-0604 FAX NUMBER (include area code):
EMAIL ADDRESS: BSPAUNHURST@FRESNOCOUNTYCA.GOV
SIGNATURE OF AGENCY OFFICER: DATE: 02/07/2025

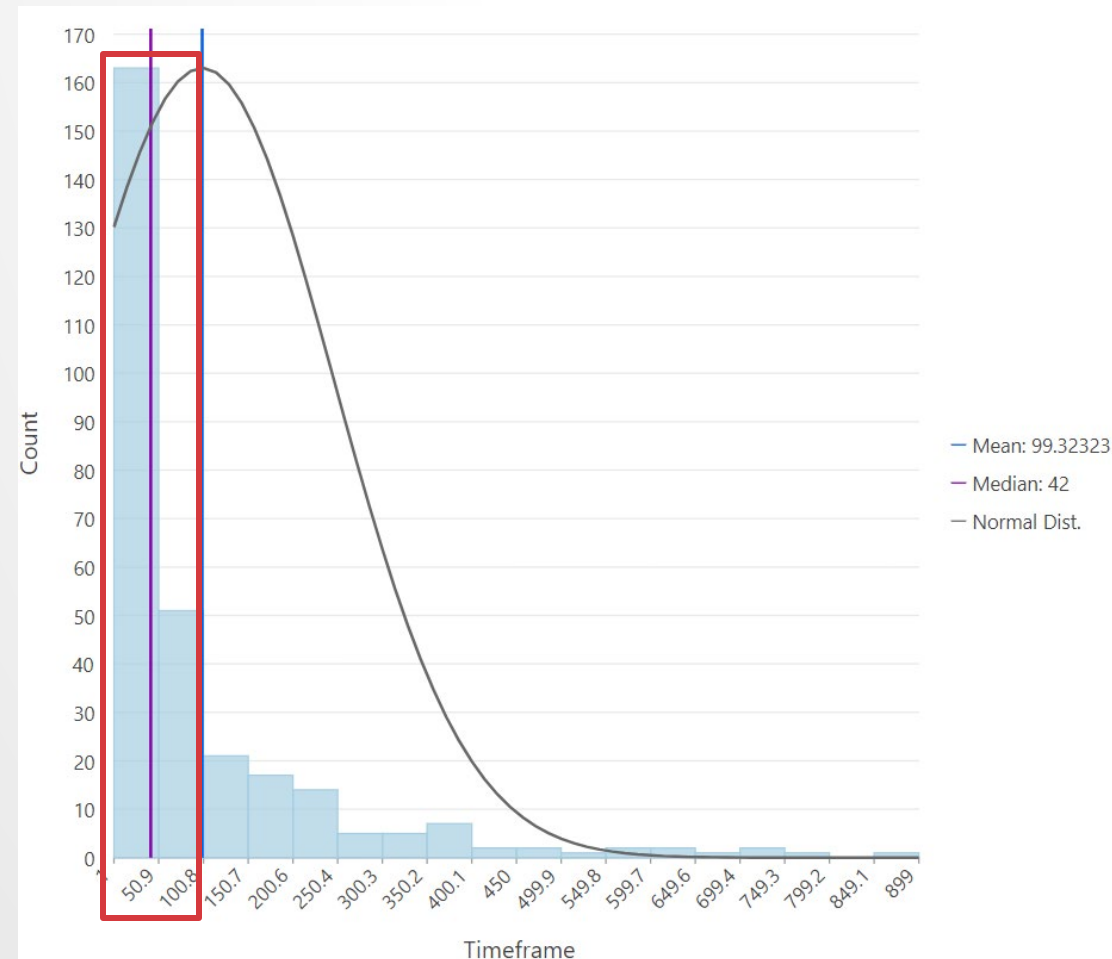
BOE USE ONLY
chk # 087067
amt: \$800
TR # DSB
RECEIVED 02/10/2025

THIS DOCUMENT IS SUBJECT TO PUBLIC INSPECTION

Detail 323

10-month delay

DISTRIBUTION OF TIMEFRAME



Additional 10 business days for CDTFA to get notification from BOE and update maps.

730 annexations/detachments in past 10 years.

Average of 73 per year (63 for 2025).

Timeframe = Received Date - Effective Date

Geographic Description

ATTACHMENT "A"
GEOGRAPHIC DESCRIPTION
MATOIAN REORGANIZATION

ANNEXATION TO THE CITY OF KINGSBURG AND THE SELMA-KINGBURG-FOWLER COUNTY SANITATION DISTRICT, DETACHMENT FROM THE FRESNO COUNTY FIRE PROTECTION DISTRICT, THE KINGS RIVER CONSERVATION DISTRICT, AND THE CONSOLIDATED IRRIGATION DISTRICT.

A PORTION OF THE SOUTHWEST QUARTER OF SECTION 22, TOWNSHIP 16 SOUTH, RANGE 22 EAST, MOUNT DIABLO BASE AND MERIDIAN, IN THE COUNTY OF FRESNO, STATE OF CALIFORNIA, AS DESCRIBED IN DEED DOCUMENT No. 2015-0040268 OFFICIAL RECORDS FRESNO COUNTY, AND AS SHOWN ON RECORD OF SURVEY RECORDED IN BOOK 67 OF RECORD OF SURVEYS AT PAGE 57 FRESNO COUNTY RECORDS, DESCRIBED AS FOLLOWS:

BEGINNING [1] AT THE NORTHWEST CORNER OF PARCEL "B" OF PARCEL MAP No. 63 RECORDED IN BOOK 66 OF PARCEL MAPS AT PAGE 1 FRESNO COUNTY RECORDS, ALSO BEING ON THE WESTERLY RIGHT OF WAY OF STATE ROUTE 99, ON EXISTING CITY LIMITS;

THENCE [2] SOUTH 00°02'10" WEST, ALONG THE WEST LINE OF SAID PARCEL "B" ALSO BEING THE EXISTING CITY LIMITS, A DISTANCE OF 574.62' TO A POINT ON THE NORTH LINE OF TRACT 5177 RECORDED IN VOLUME 69 OF PLATS AT PAGES 91-94 FRESNO COUNTY RECORDS;

THENCE [3] NORTH 89°58'53" WEST, ALONG SAID NORTH LINE OF TRACT 5177, A DISTANCE OF 643.44';

THENCE [4] NORTH 00°00'39" EAST LEAVING EXISTING CITY LIMITS, A DISTANCE OF 1126.98';

THENCE [5] NORTH 00°00'28" EAST, A DISTANCE OF 92.32' TO A POINT ON THE WESTERLY RIGHT OF WAY OF STATE ROUTE 99;

THENCE [6] SOUTH 45°33'43" EAST, ALONG SAID WESTERLY RIGHT OF WAY OF STATE ROUTE 99 TO THE EXISTING CITY LIMITS, A DISTANCE OF 26.23' TO THE BEGINNING OF A NON-TANGENT CURVE;

THENCE [7] CONTINUING ALONG SAID WESTERLY RIGHT OF WAY OF STATE ROUTE 99 ALONG SAID NON-TANGENT CURVE BEING CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 25088.00' WITH A RADIAL BEARING NORTH 44°46'51" EAST, THROUGH A CENTRAL ANGLE OF 01°05'37", A DISTANCE OF 478.89';

THENCE [8] CONTINUING SOUTH 45°13'09" EAST ALONG SAID WESTERLY RIGHT OF WAY OF STATE ROUTE 99, A DISTANCE OF 405.98' TO THE POINT OF BEGINNING.

CONTAINING AN AREA OF 13.24 ACRES, MORE OR LESS.

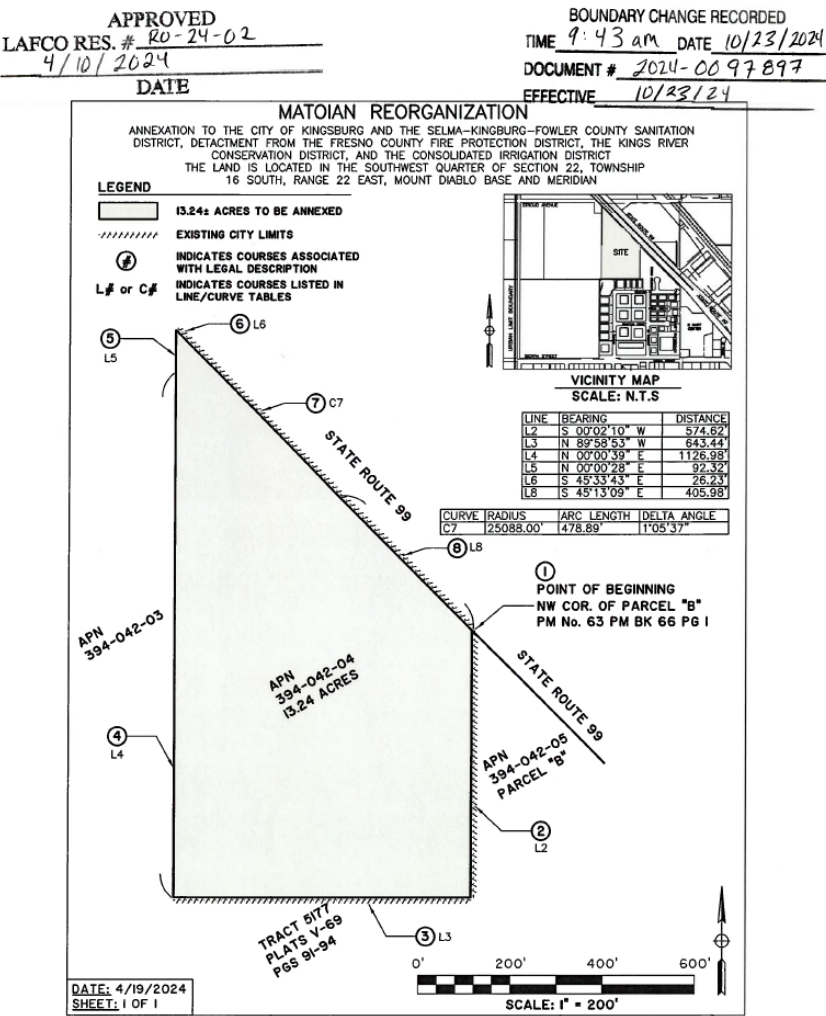
For assessment purposes only. This description of land is not a legal property description as defined in the Subdivision Map Act and may not be used as the basis for an offer for sale of the land described

APPROVED
LAFCO RES. # RO-24-02
4/10/2024
DATE

BOUNDARY CHANGE RECORDED
TIME 9:43am DATE 10/23/2024
DOCUMENT # 2024-0097897
EFFECTIVE 10/23/2024

ULS Job No. 2024-01-MATOIAN

Map of Change Area

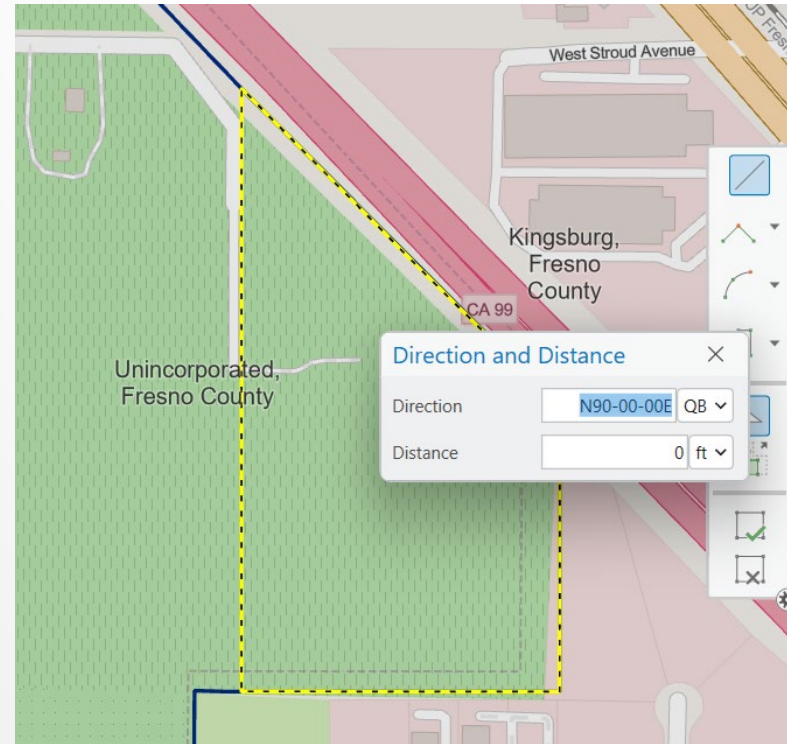


Detail 323

CREATE ANNEXATION POLYGON

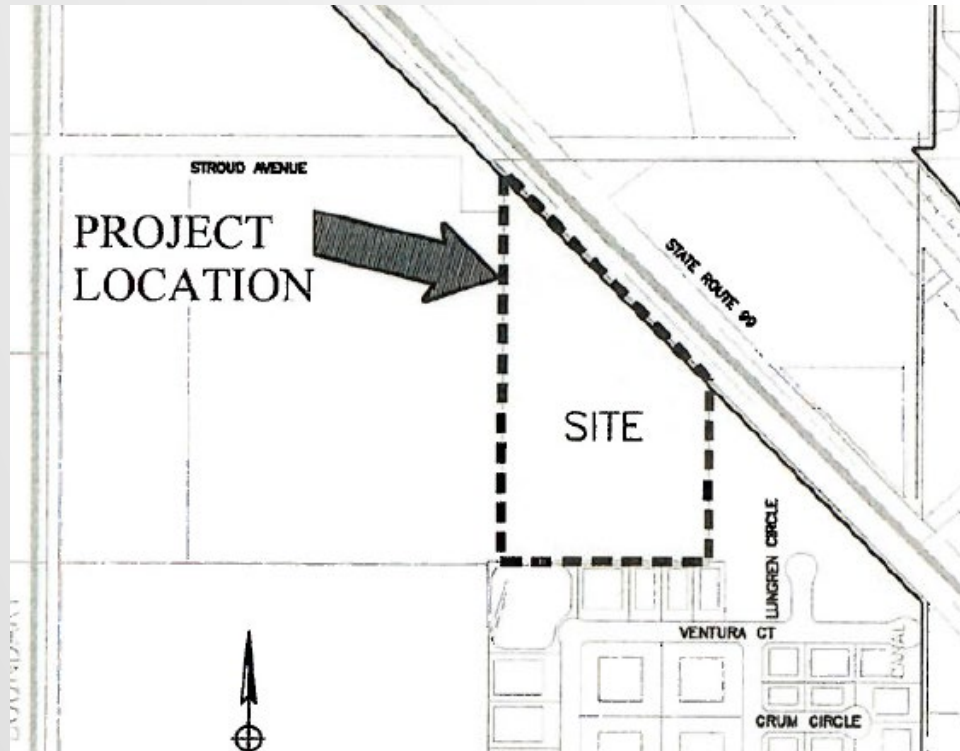


Locate Area

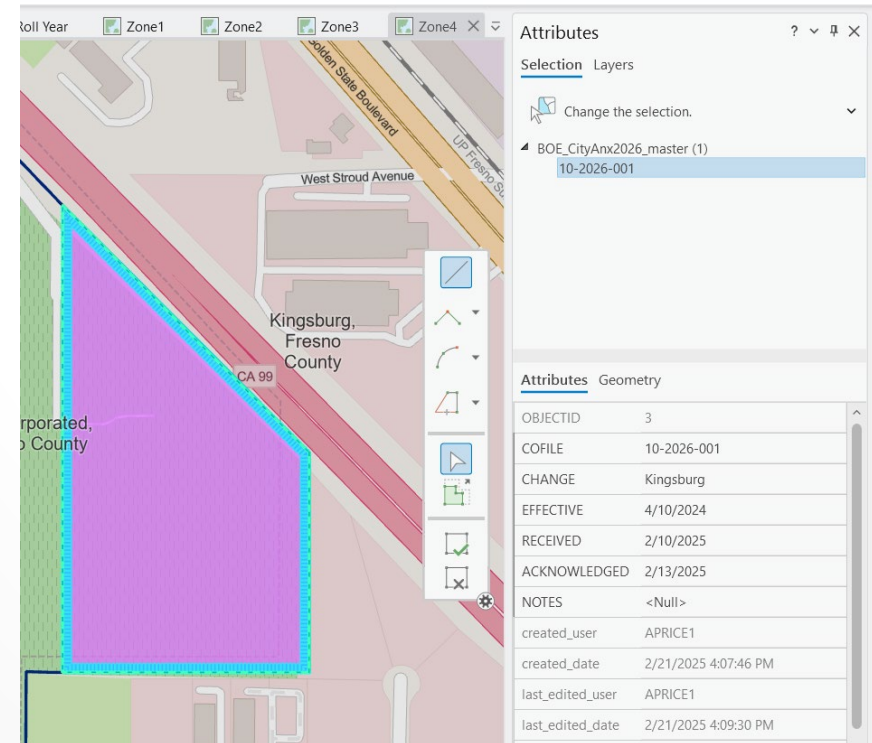


Digitize/COGO Boundary

CREATE ANNEXATION POLYGON



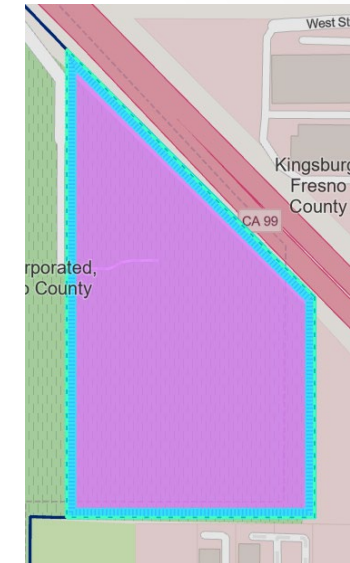
Verify Alignment



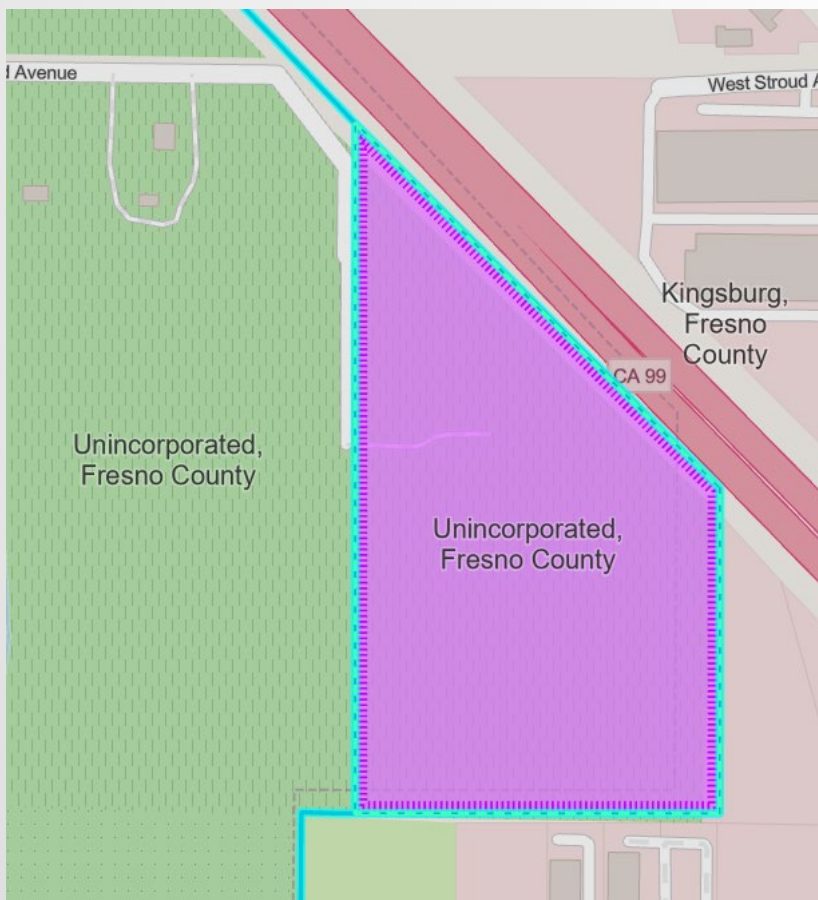
Draw Annexation Polygon
Enter Attributes

ANNEXATION POLYGONS

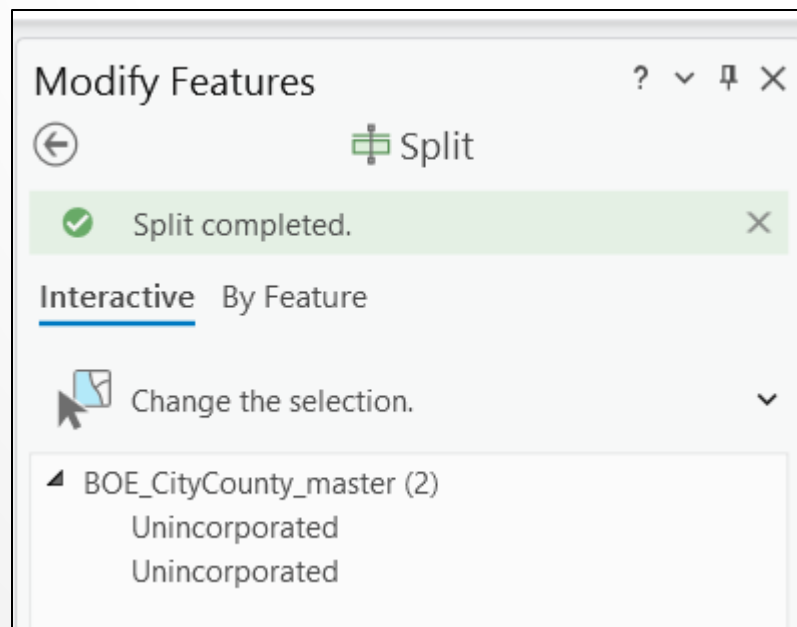
- City boundary changes filed with the BOE for property tax purposes.
 - County boundary changes filed with the BOE for property tax purposes, no notifications sent.
 - Includes information used in the BOE/CDTFA process:
 - County Number and BOE File Number
 - Effective Date of Annexation
 - Date Received at BOE
 - BOE Acknowledgement Date
- Corrections to city or county boundaries affecting areas of significance, uses a file number that ends in “-000”.



UPDATE CITY-COUNTY LAYER



Split the City-county Polygon



UPDATE CITY-COUNTY LAYER

Merge Polygon


Modify Features

←

Merge

Existing Feature

New Feature

 Change the selection.

▼

Layer

BOE_CityCounty_master

▼

Features to merge

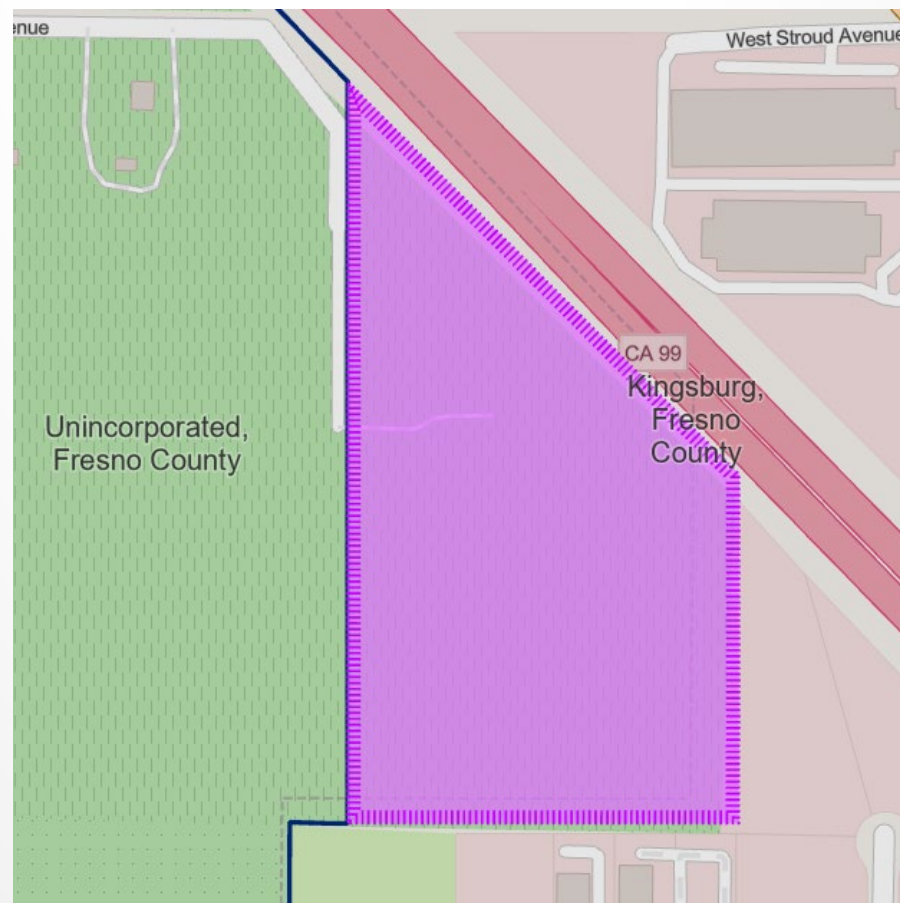
Kingsburg

(preserve)

☒

Unincorporated

☒



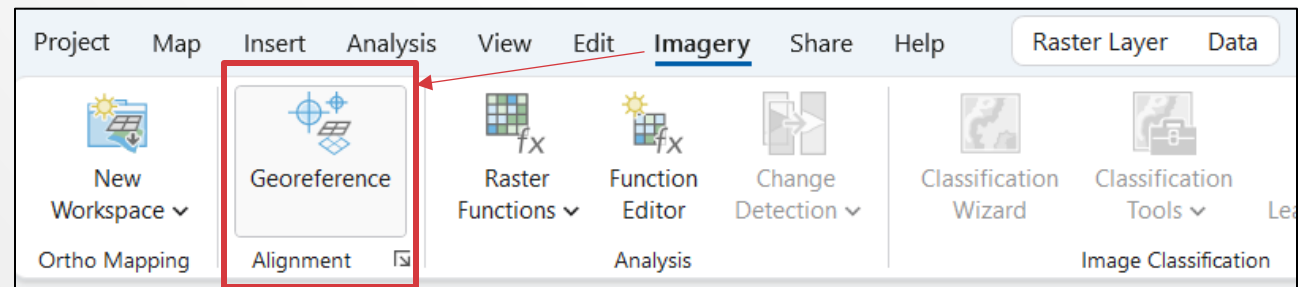
COMPLEX AREAS

Internet search:

- County Assessor Parcels
- City maps
- LAFCO maps

Data type:

- PDF – georeference image
- GIS data – download, if allowed
- GIS data – screenshot and georeference image



PUBLISH TO ARCGIS ONLINE

Overwrite Web Layer

Overwrite City and County Boundary Line Changes web layer

General Configuration Content **Messages**

Search Analyzer Results


✖ 0

⚠ 0

ArcGIS

City and County Boundary Line Changes

Overview



This map contains city and county boundary lines for the purpose of determining sales and use tax jurisdictions. The boundaries are updated after a change to a city or county boundary is filed with and acknowledged by the California State Board of Equalization per Government Code 54900. Updates to this map are posted within 10 business days of the California Department of Tax and Fee Administration receiving a copy of the acknowledgement letter from the California State Board of Equalization.

Feature layer by Anna.Price@cdtfa.ca.gov_CDTFA

Item created: Oct 20, 2021 Item updated: Feb 24, 2025
View count: 22,445

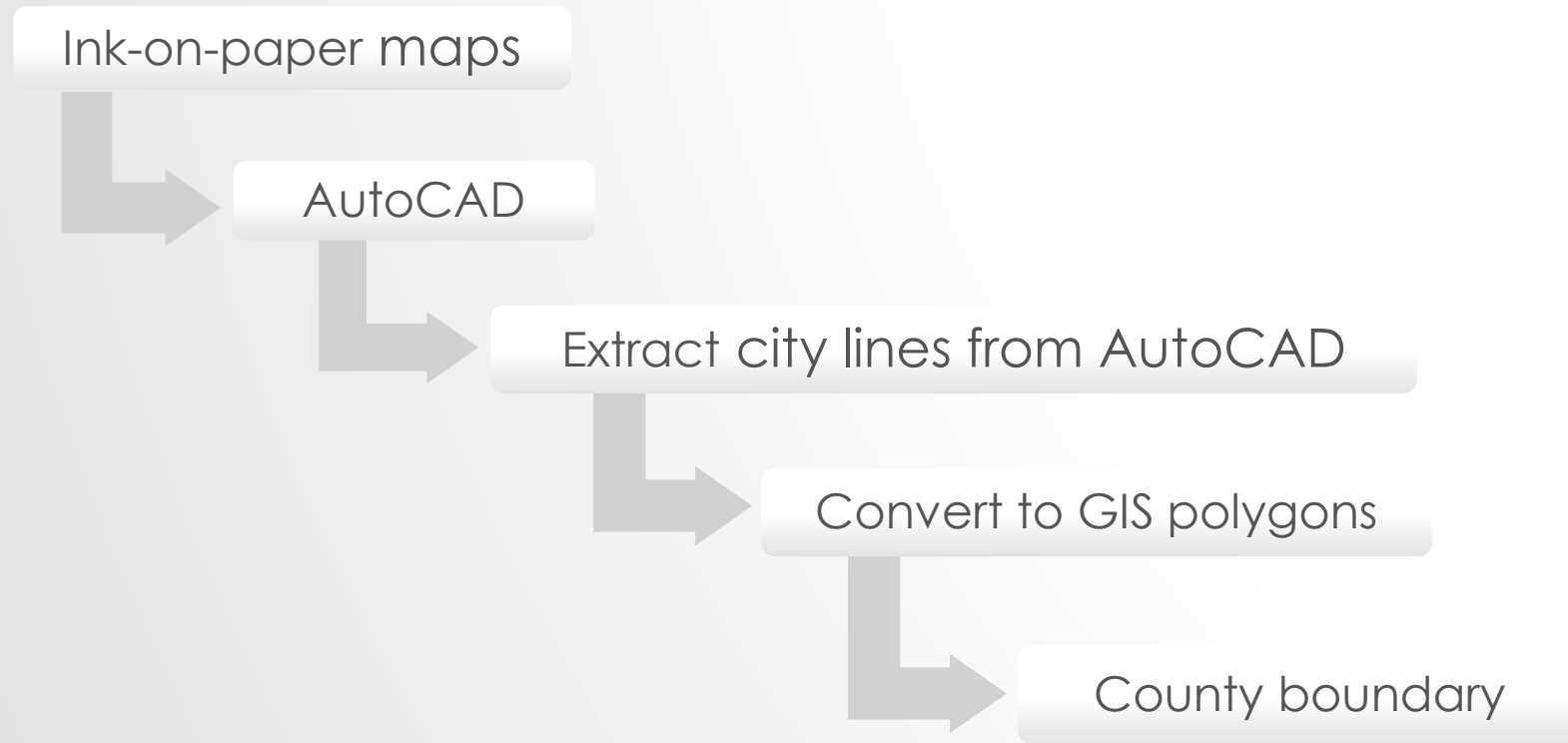
Open in Map Viewer

Open in Scene Viewer

Open in ArcGIS Desktop

Metadata

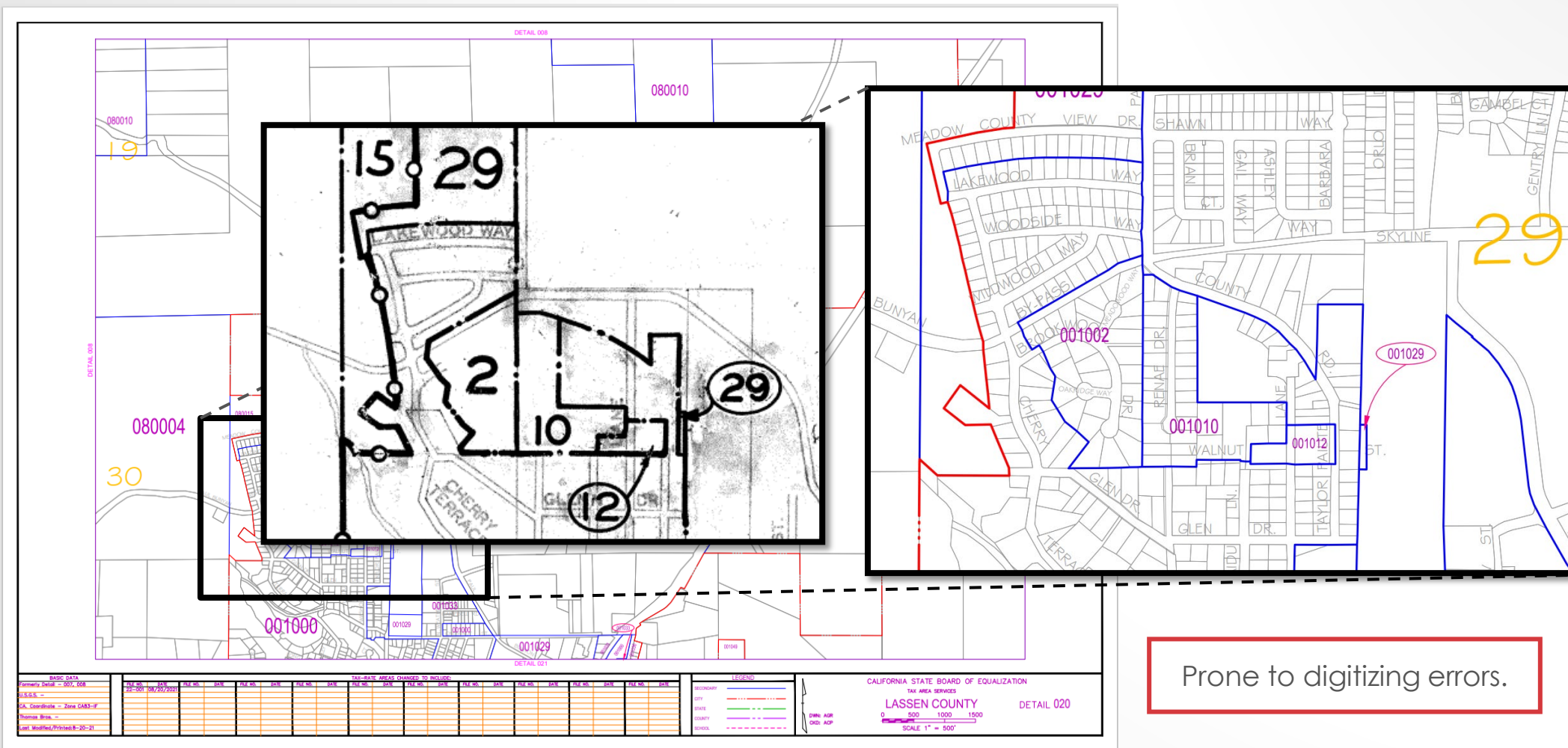
ORIGINAL DATA



ORIGINAL DATA

AutoCAD.

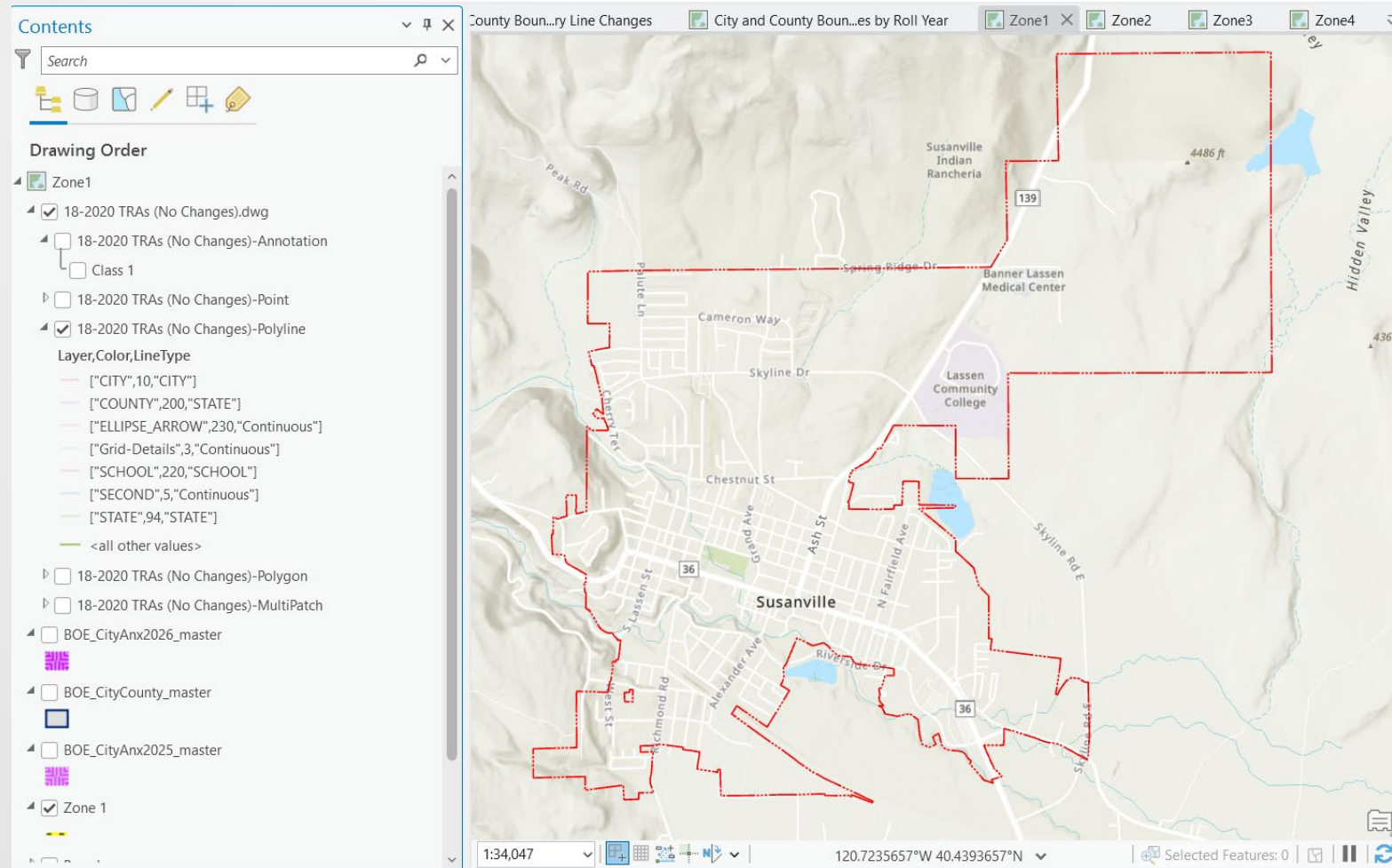
Parcel background from counties.



Prone to digitizing errors.

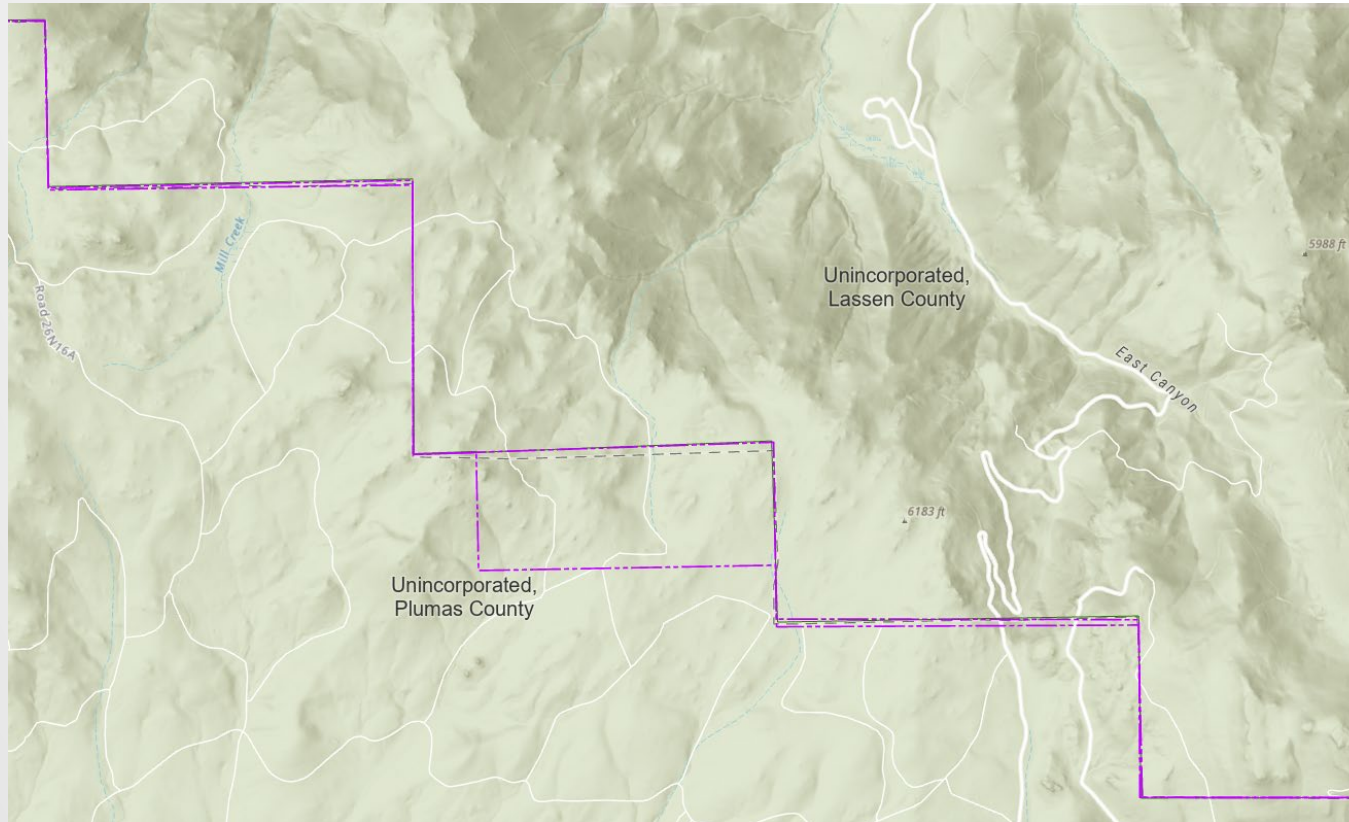
ORIGINAL DATA

Extract city lines from AutoCAD.
Trace new polygons in ArcGIS.



ORIGINAL DATA

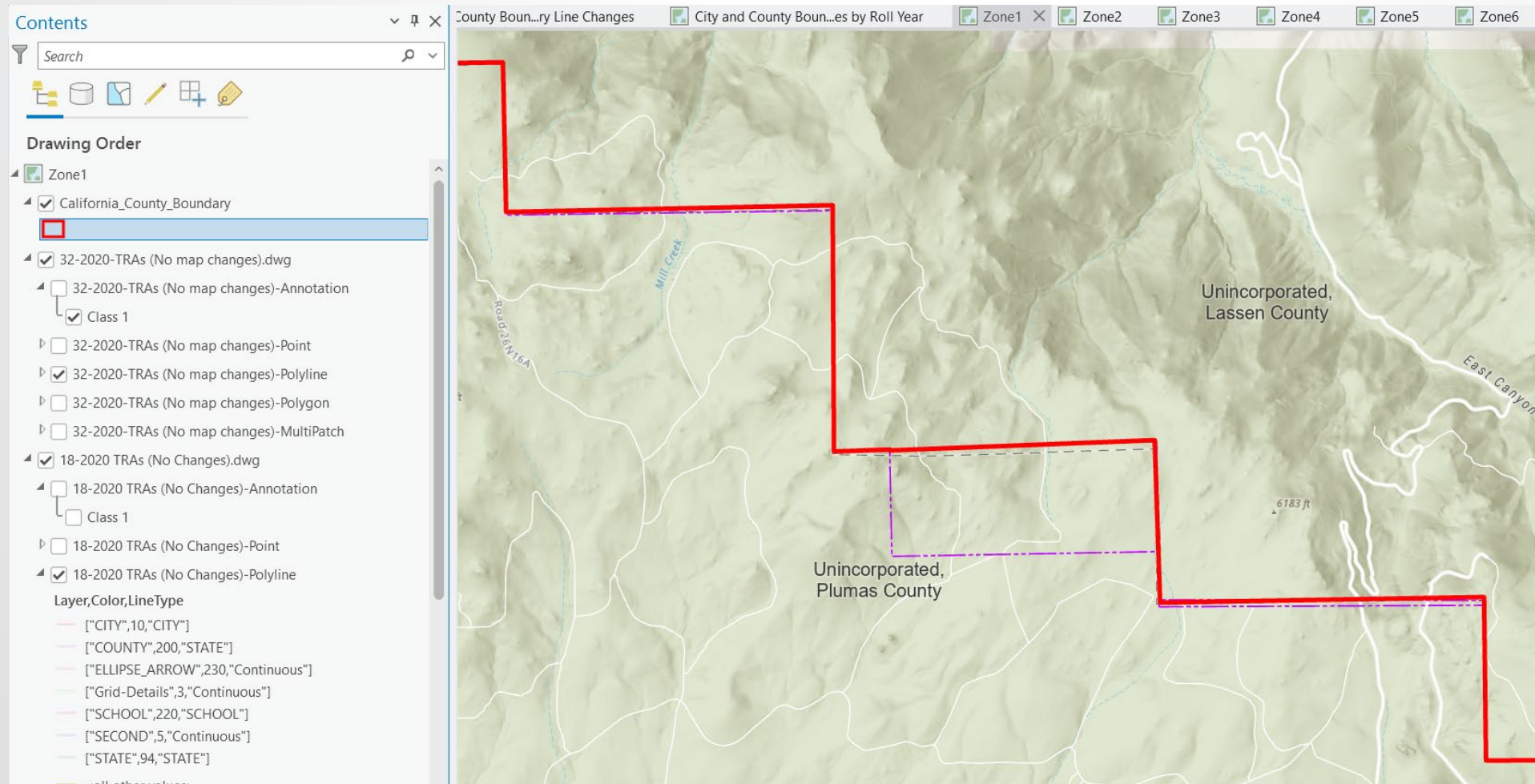
County Boundaries from BOE data.
Overlap and alignment issues.



CDTFA: unincorporated areas w/o overlap of city areas.

ORIGINAL DATA

County boundary from data.ca.gov.



ORIGINAL DATA

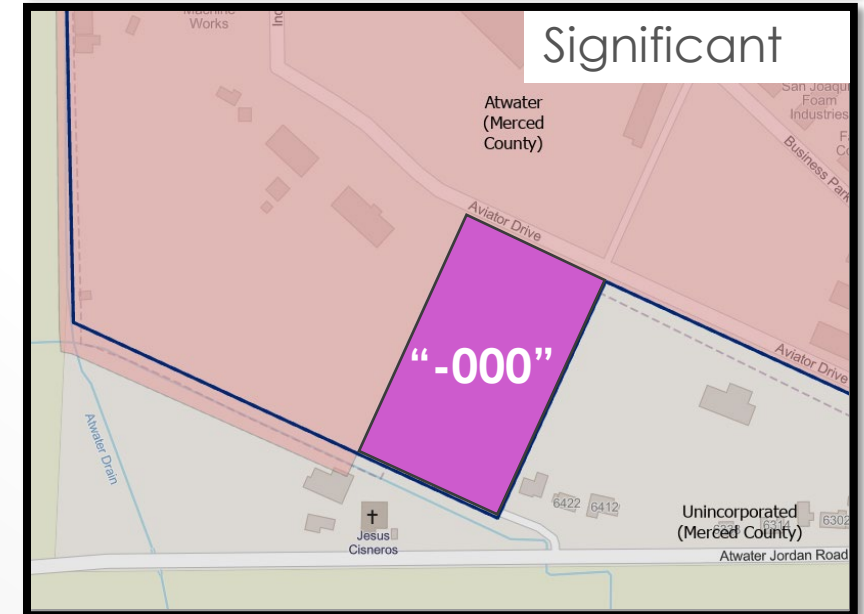
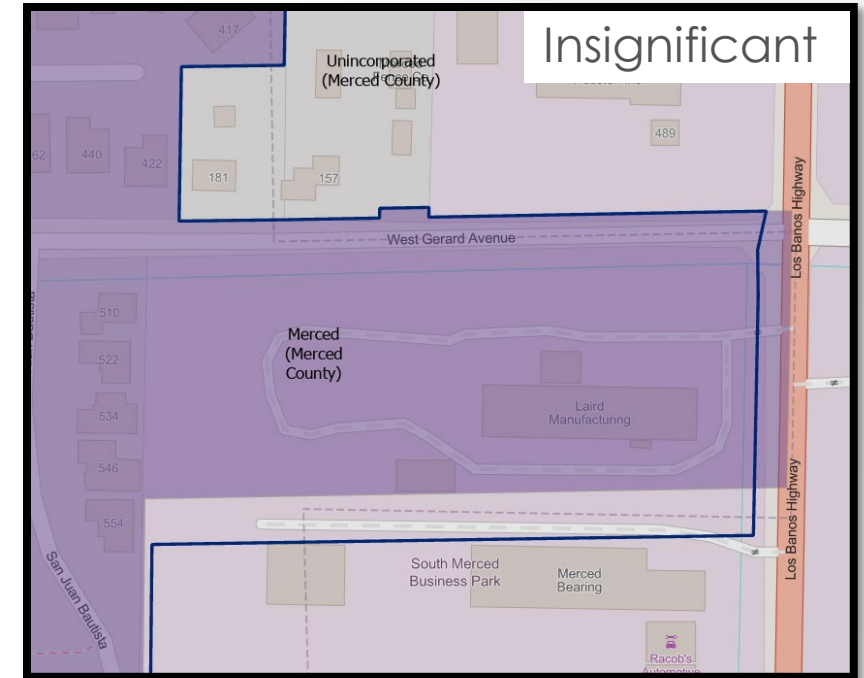
- Discrepancies:
 - Paper-to-digital conversion.
 - No notification on corrections or county boundary changes.
 - County, LAFCO, State data differences.

DATA UPDATES

- Delays:
 - Average delay of 100 days.
 - CDTFA process requires BOE notification.

CURRENT MODIFICATIONS

- April 1, 2024 – until complete.
- Update linework to match local data.
 - May include changes not yet filed with BOE.
- Notify BOE when discrepancies are found.
- Boundary Corrections are added to Annexation Polygons when:
 - Affected area is significant.
- What is “Significant?”
 - Entire parcel, or majority of parcel.
 - Large portions of highway.
 - Change of “island” areas to match Local data.



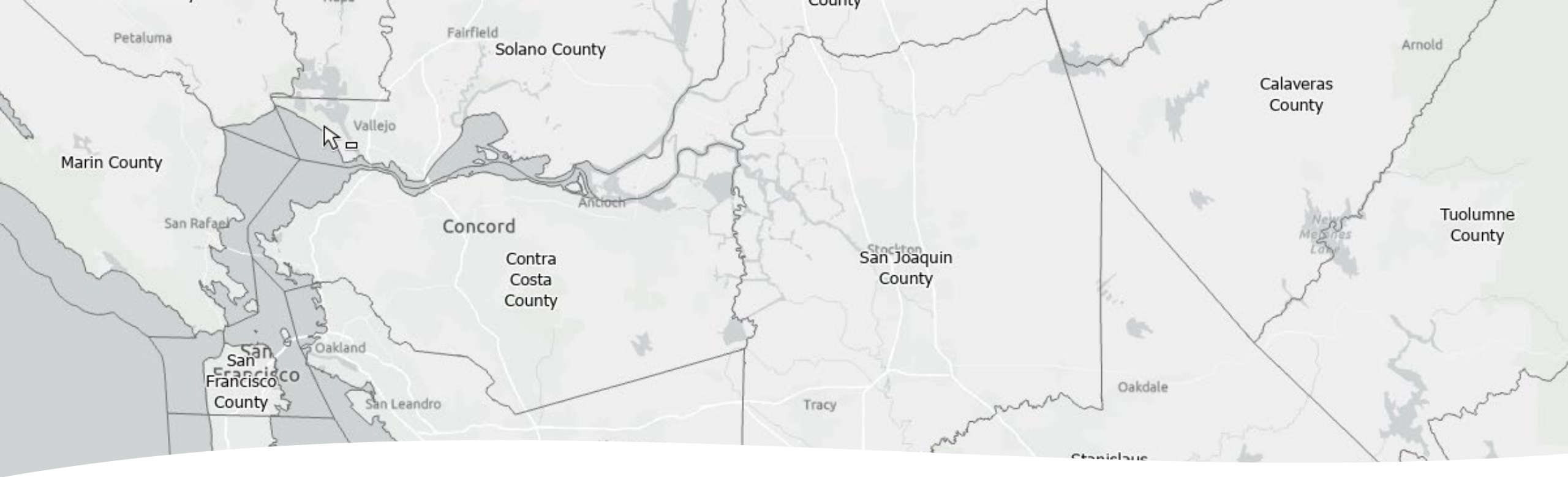
BOUNDARY CORRECTIONS EXPECTED

- Started updates in late June 2024 (8 months to date).
 - slow process to weed through significant/insignificant areas.
- Updated 17 counties.
 - mostly focused on counties with many cities.
 - 326 out of 541 multipart polygons statewide.
- 127 “significant” areas.
 - some not very significant, early in update process.
- 41 counties remaining.
 - 215 multipart polygons statewide.
- Ability to find errors is dependent on county having publicly available boundaries.

This concludes the presentation.

BOE_CITYCOUNTY

City and County Boundary Lines Maintained by CDTFA



Goals of the CDT layer

- Recognition that many of you are doing the same or similar processing, with substantial staff time, based on CDTFA's data layer
- The primary goal is to create one source with all the critical attributes and modifications so you can configure and use it as is, or nearly
- Proposed by Emma Lyons (CalTrans) and initial work by Liana Huang (now at Cannabis), Carmen Gonsalves, and Lothar Petrik.

City and County Boundaries – the family

- Core services
 - City boundaries
 - County boundaries (today)
 - Merged boundaries (this week)
 - Unincorporated area boundaries (this week)
 - California boundary (later this year)
 - Each of these is available with and without coastal buffers
- Census designated places (updated annually)
- California Cartographic Coastal line/polygon

Key features

- Stable service URLs – data updated in place frequently
- Coastal cut options – extensive work into separating buffers
- Increasing update cadence to keep up with Anna's geometry edits
- Attached Census names/IDs, GNIS names/IDs, and polygon areas
- Served in EPSG 3310, CA Teale Albers (meters) CRS
- Offline capable – ready for Esri Field Maps use
- Exports allowed
- Simple rendering and labeling configured for instant use

Service Schema

- Identifiers pulled fresh with every update – include new releases and corrections from Census and GNIS
- Schema stable this week – currently finalizing an update to this schema

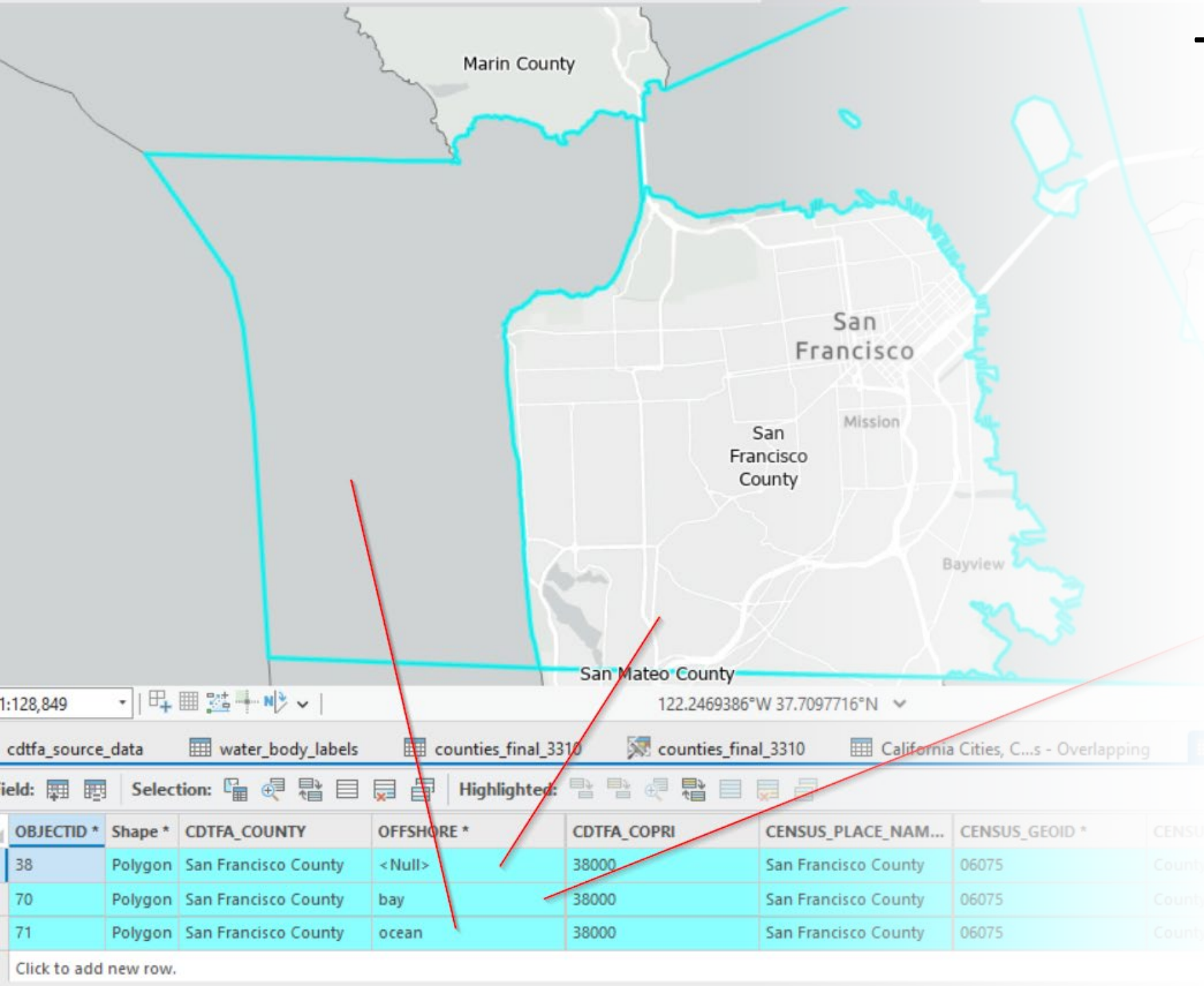
Field Name	Type	
OBJECTID	ObjectID	
CDTFA_COPRI	String	
CDTFA_CITY	String	Not on counties
CDTFA_COUNTY	String	
CENSUS_PLACE_NAME	String	
CENSUS_GEOID	String	
CENSUS_PLACE_TYPE	String	
GNIS_PLACE_NAME	String	
GNIS_ID	Integer	
CDT_CITY_ABBR	String	Not on counties
CDT_COUNTY_ABBR	String	
PRIMARY_DOMAIN	String	Not yet populated
CENSUS_POPULATION	Integer	Not yet populated
CDT_NAME_SHORT	String	
OFFSHORE	String	
AREA_SQMI	Double	
GlobalID	GlobalID	Not stable – only for offline support

The coastal cut

- Why? Because many of you were doing it and for many displays, the coastal buffers don't help, even if they are the legal boundaries.
- Adapted a coastline from high resolution NOAA coastline data – closed off estuaries and other tidal areas, many harbors. Removed seawalls. Ignored offshore rocks with *perimeters* less than 1km (except in Farallon & Channel Islands)



The coastal cut



- Aim to give you choice of with/without coastal buffers. Dual service model. To reconstruct, simply dissolve on the identifier fields.
- Complex sliver detection and removal method. Could be imperfect as data changes. Please report issues you find.
- We key the buffer by whether it's off the coast or in the bay so you can choose which buffers to include in your own outputs with a simple filter.
- SF County is a pain and has **all** of the edge cases.

Timeline and what's next

- Finish upgrades of existing services **this week**
- Launching new unincorporated areas service, also this week
- Processing of boundary change services to add attributes
- Public roadmap and issue tracker with additional changes and enhancements
- Further metadata improvements and structure, public dataset listing and explanation of coastal cuts.
- Full automation allowing for predictable update cadence

Links

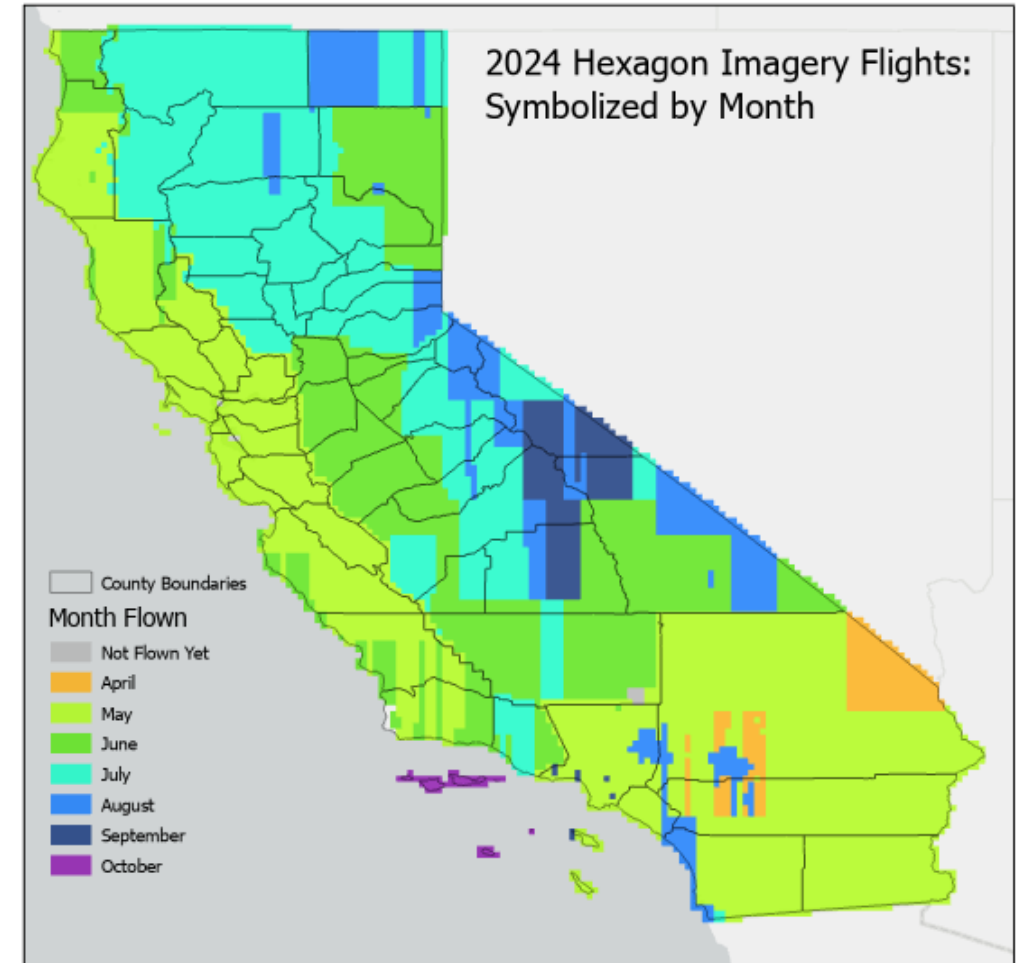
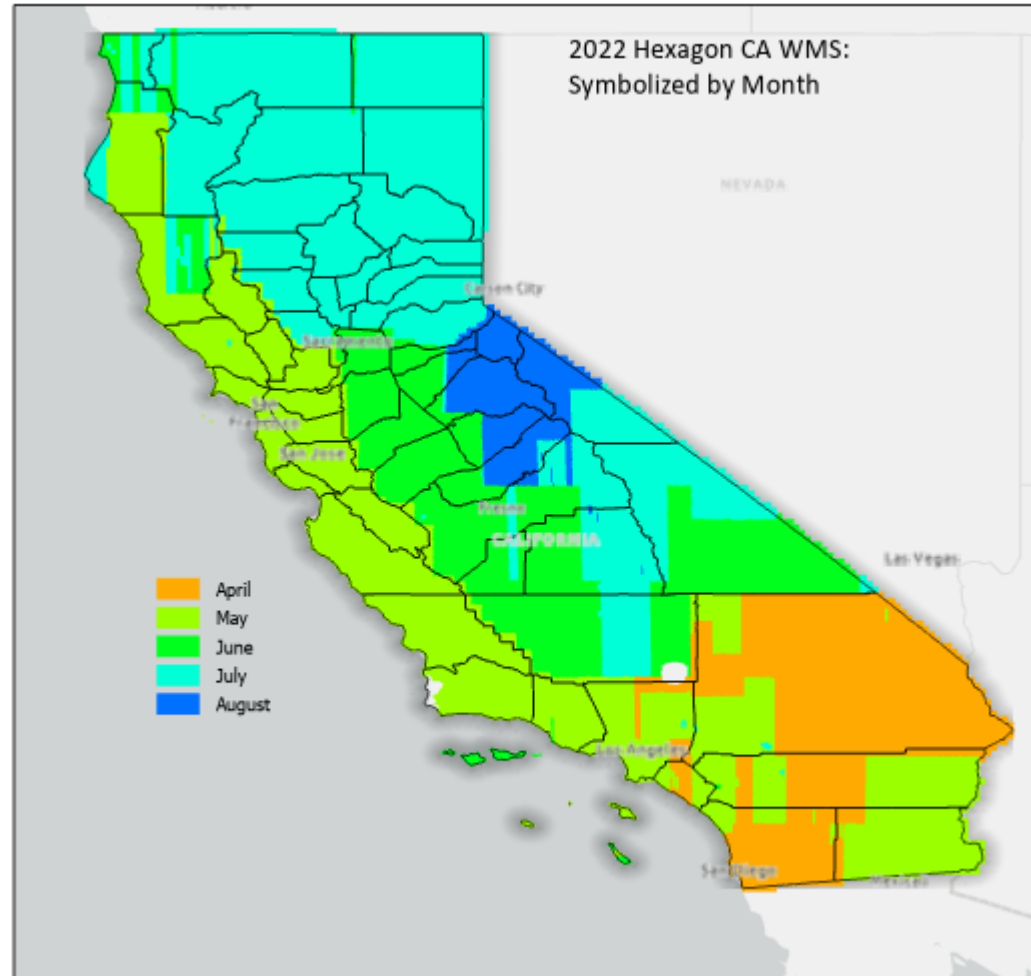
- [CDTFA City and County Boundary Service](#)
- [CDTFA Annexations and Corrections 2026](#) (annual layers available)
- [City Boundaries](#)
- [County Boundaries](#)
- [Current status page for service deployment](#) – this will move to GitHub in the near future
- Links to additional services included in the city and county service metadata

City and County Boundaries

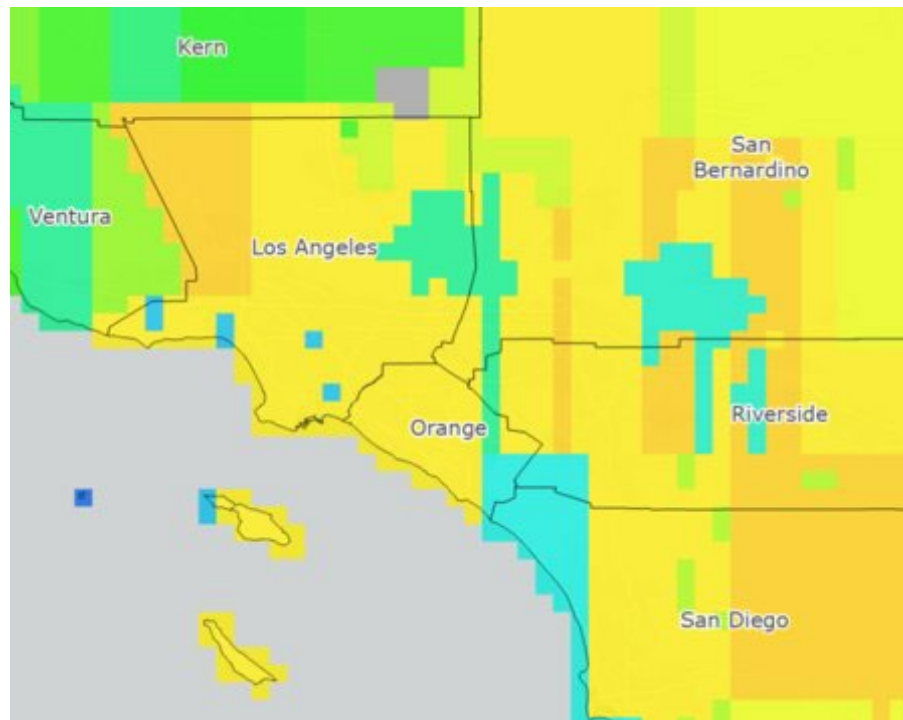
- Feedback? Questions or suggestions?
- What other cross-departmental foundational datasets are you spending time processing?



Hexagon Flight Lines and Updates

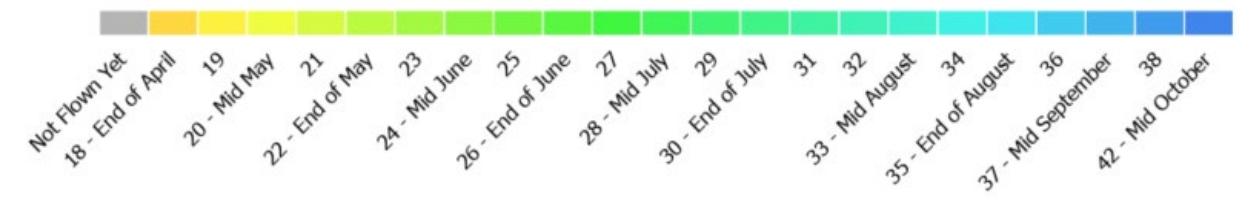


LA Metro

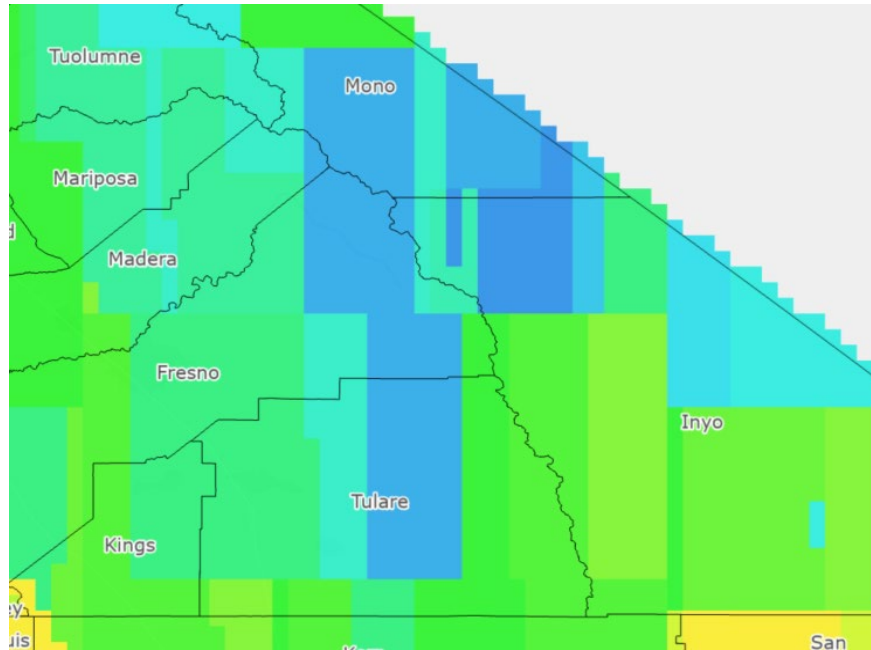


County Boundaries

Week #

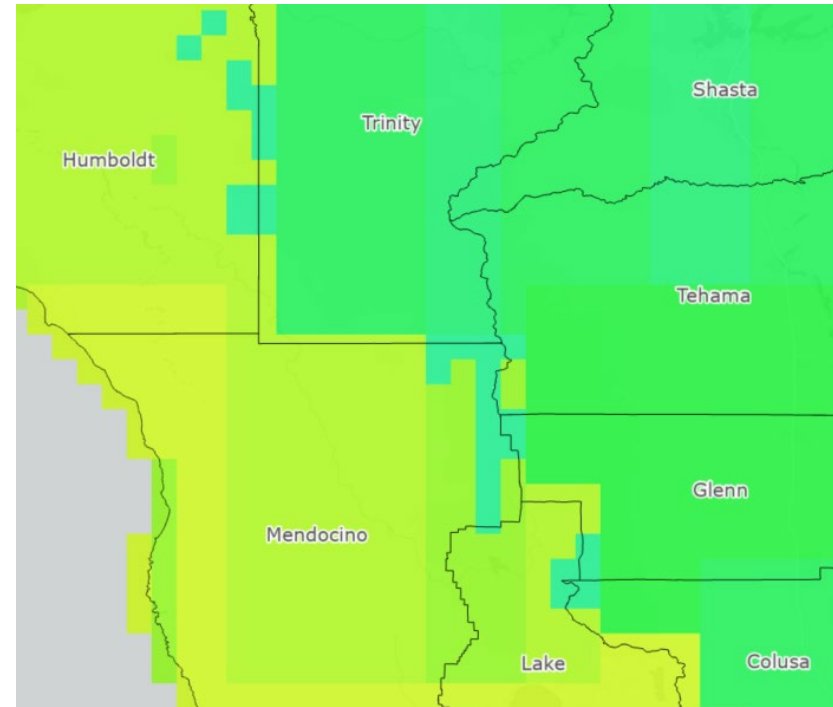


Southern Sierra

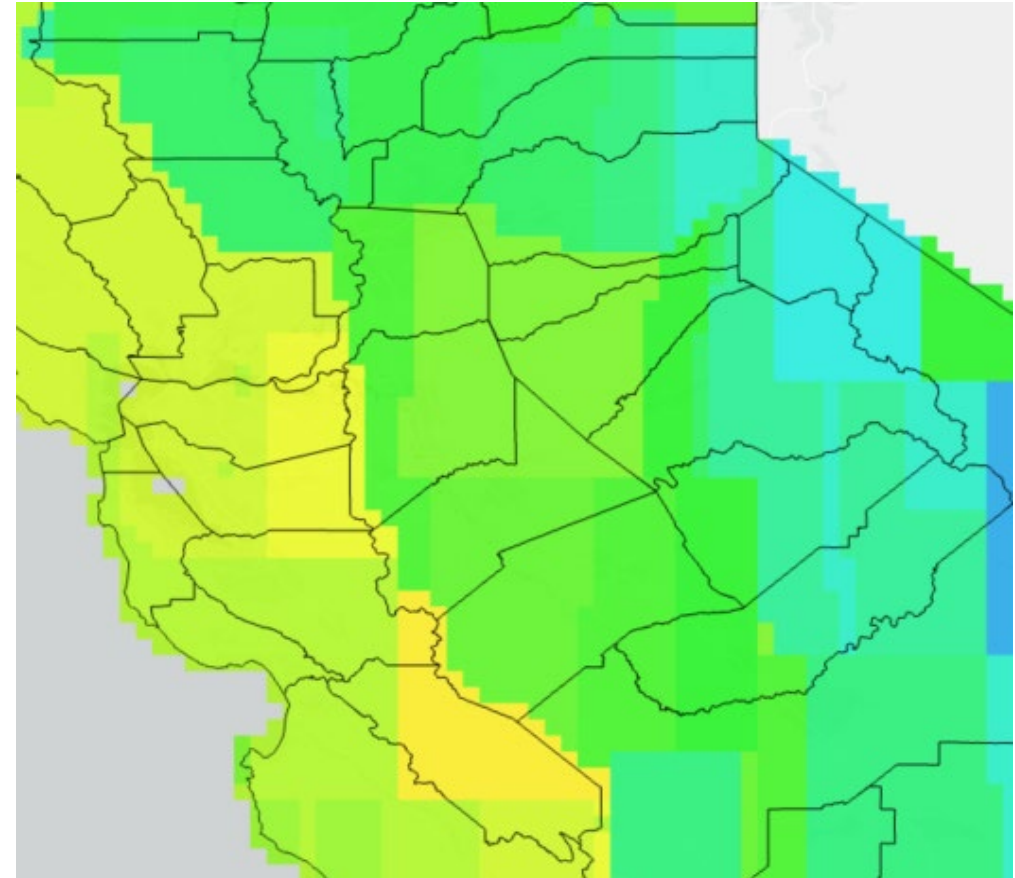
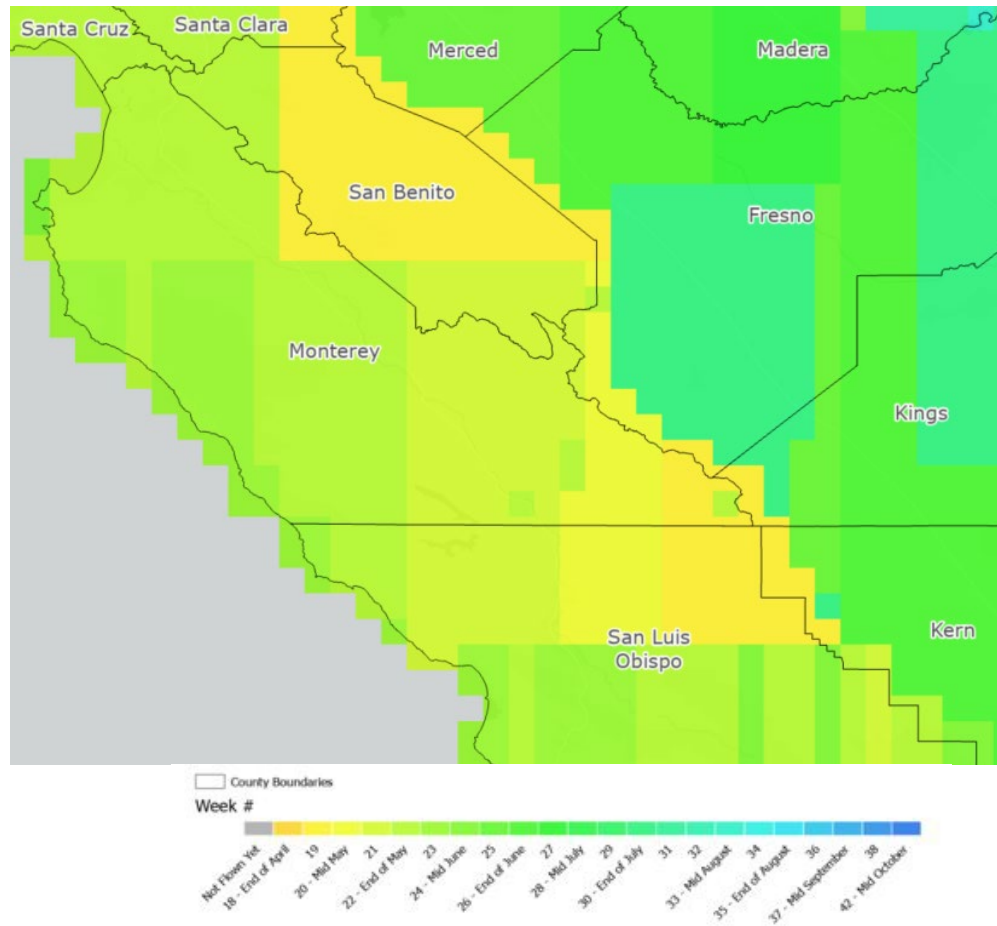


County Boundaries

Week #

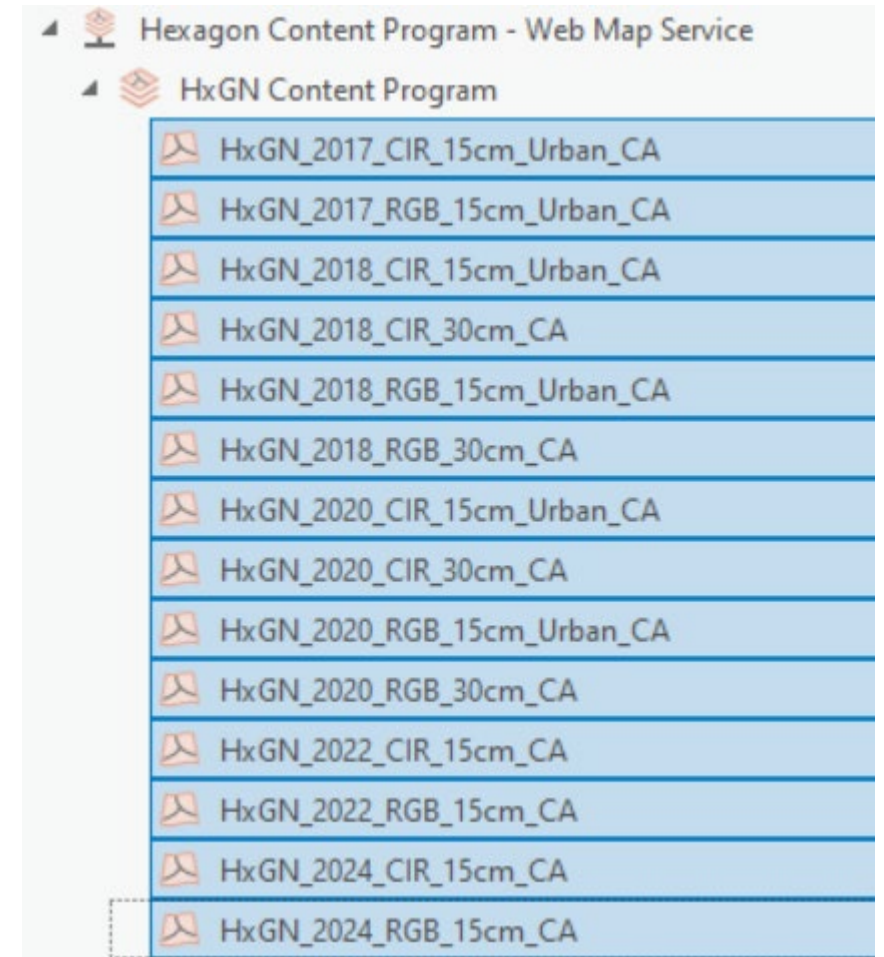
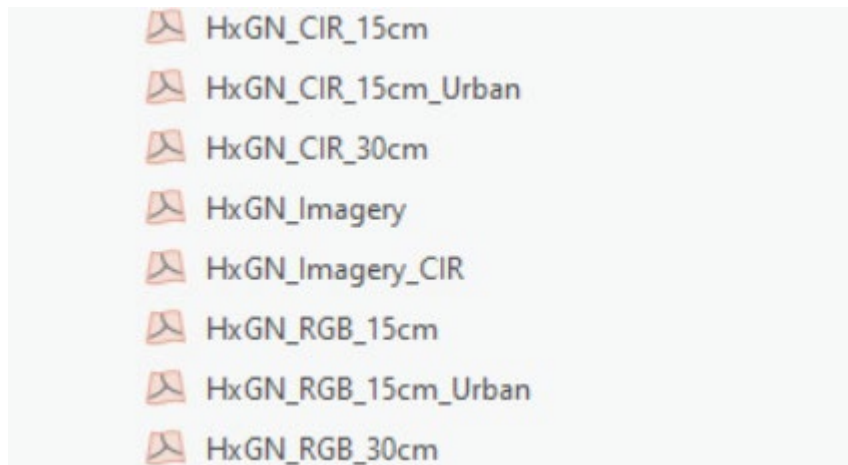


Central Coast



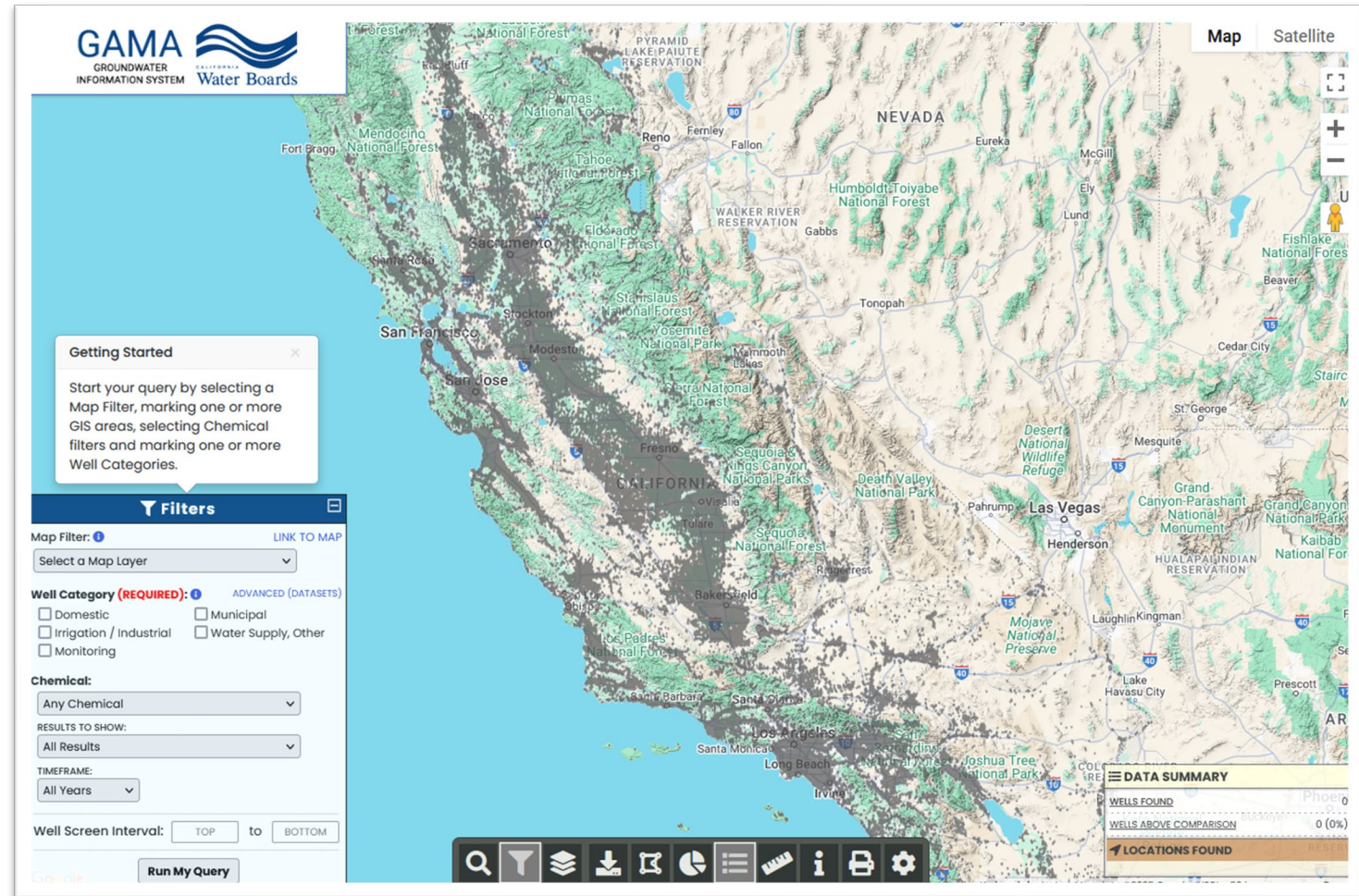
Imagery Services

- Single WMTS service for the most recent RGB collect
- WMS services – labeled by year, bands, resolution, geography
- Migration Path



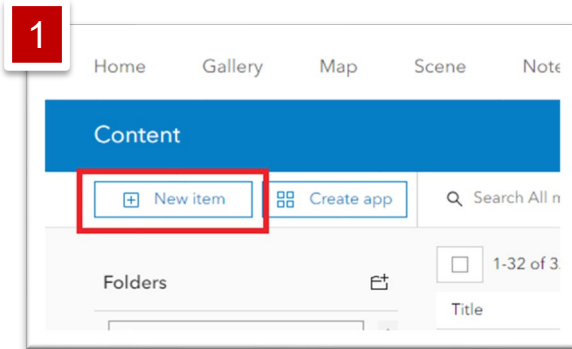
Adding applications as document links to Geoportal

- Longstanding custom applications that don't have a clear ArcGIS item to share to the geoportal
- Custom interactive webpages and applications made with other technologies
- Login-required or dataset listings that can't easily be integrated into ArcGIS. (e.g. CNDDDB)
- Relevant state data sources from external partners. (e.g. community colleges)



[The Groundwater Ambient Monitoring Assessment \(GAMA\) Program](#)

How to add and share a document link:

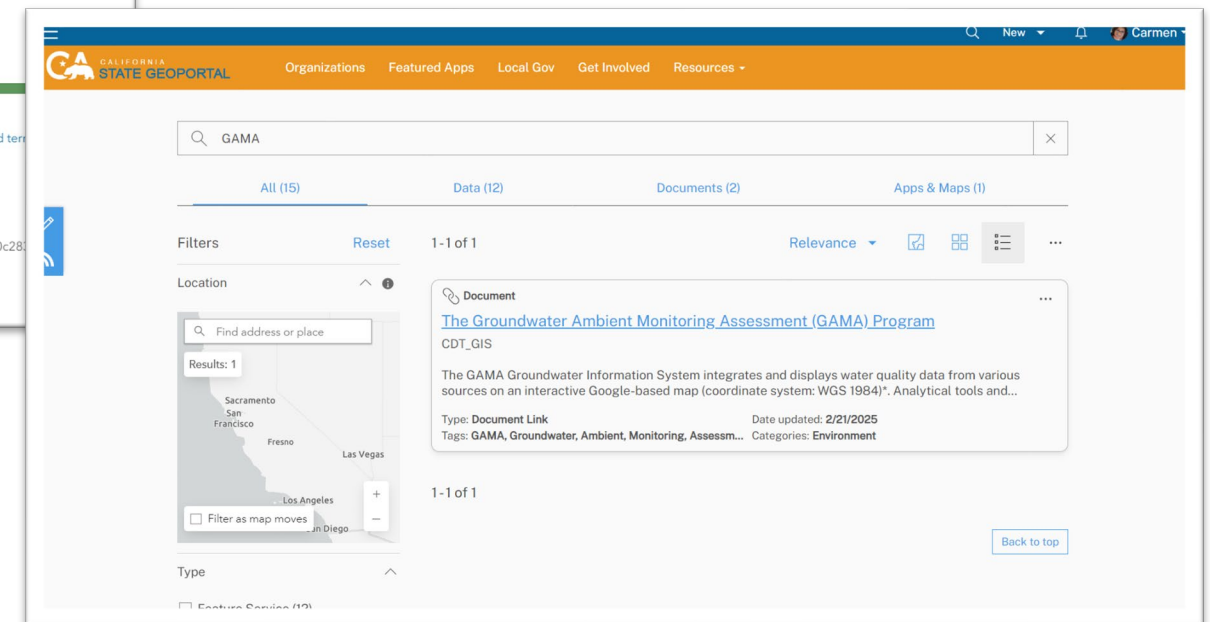
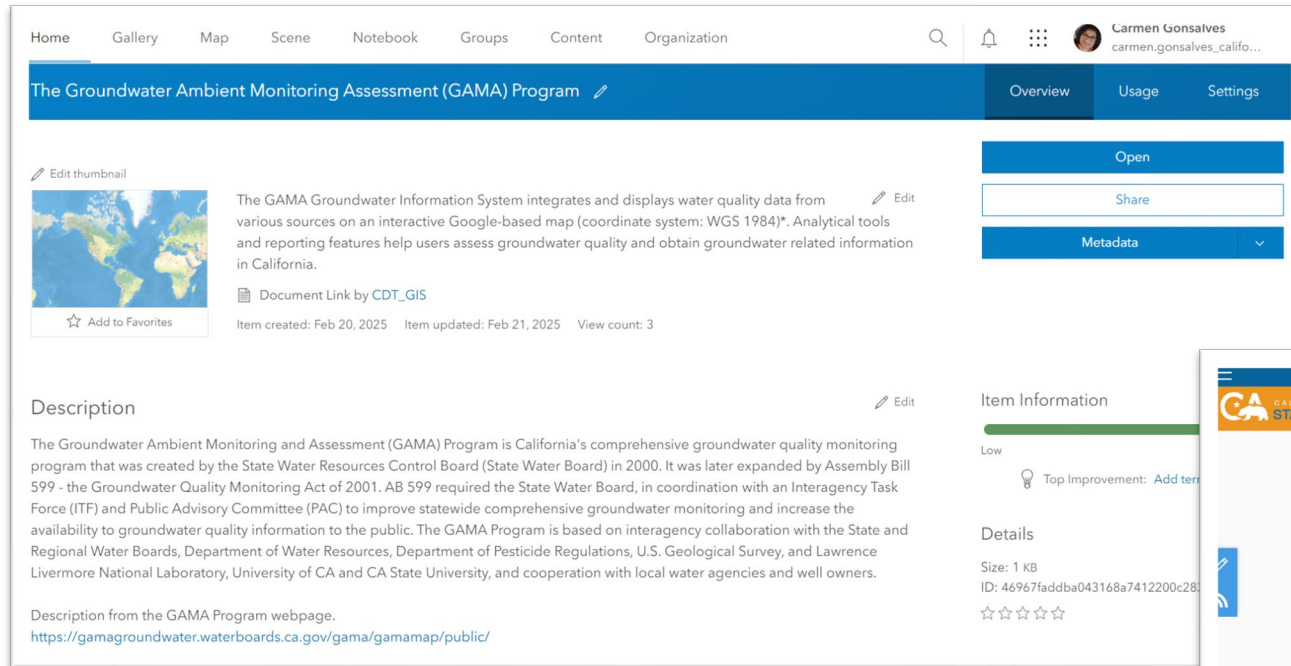


- 1) To add a Document Link to your Content, access the New Item button on the upper left side of the page. Select URL
- 2) Fill in the URL and select Document for layer type.
- 3) Fill out the initial metadata info and Save.

A screenshot of the 'New item' form. The form has a 'URL' field with the text 'https://www.waterboards.ca.gov/gama' and a red box around it, with a red square with the number '2' in the top right corner. Below the URL field is a 'Type' section with the text 'Select layer type'. There are three options: 'ArcGIS Server web service' (with a map icon), 'Document' (with a document icon and a red box around it), and 'GeoJSON' (with a folder icon). The 'Document' option is selected.

A screenshot of the 'New item' form with the 'Document' option selected. The form has several fields: 'URL' (https://www.waterboards.ca.gov/gama), 'Title' (The Groundwater Ambient Monitoring Assessment (GAMA) Program), 'Folder' (carmen.gonsalves_california), 'Categories' (Environment), 'Tags' (GAMA, Groundwater, Water, Assessment), and 'Summary' (The Groundwater Ambient Monitoring and Assessment (GAMA) Program is California's comprehensive groundwater quality monitoring program that was created by the State Water Resources Control Board (State Water Board) in 2000. It was later expanded by Assembly Bill 599 - the Groundwater Quality Act of 2001. AS 599). The 'URL' field is highlighted with a red box and a red square with the number '3' in the top right corner. At the bottom, there are 'Back', 'Cancel', and 'Save' buttons.

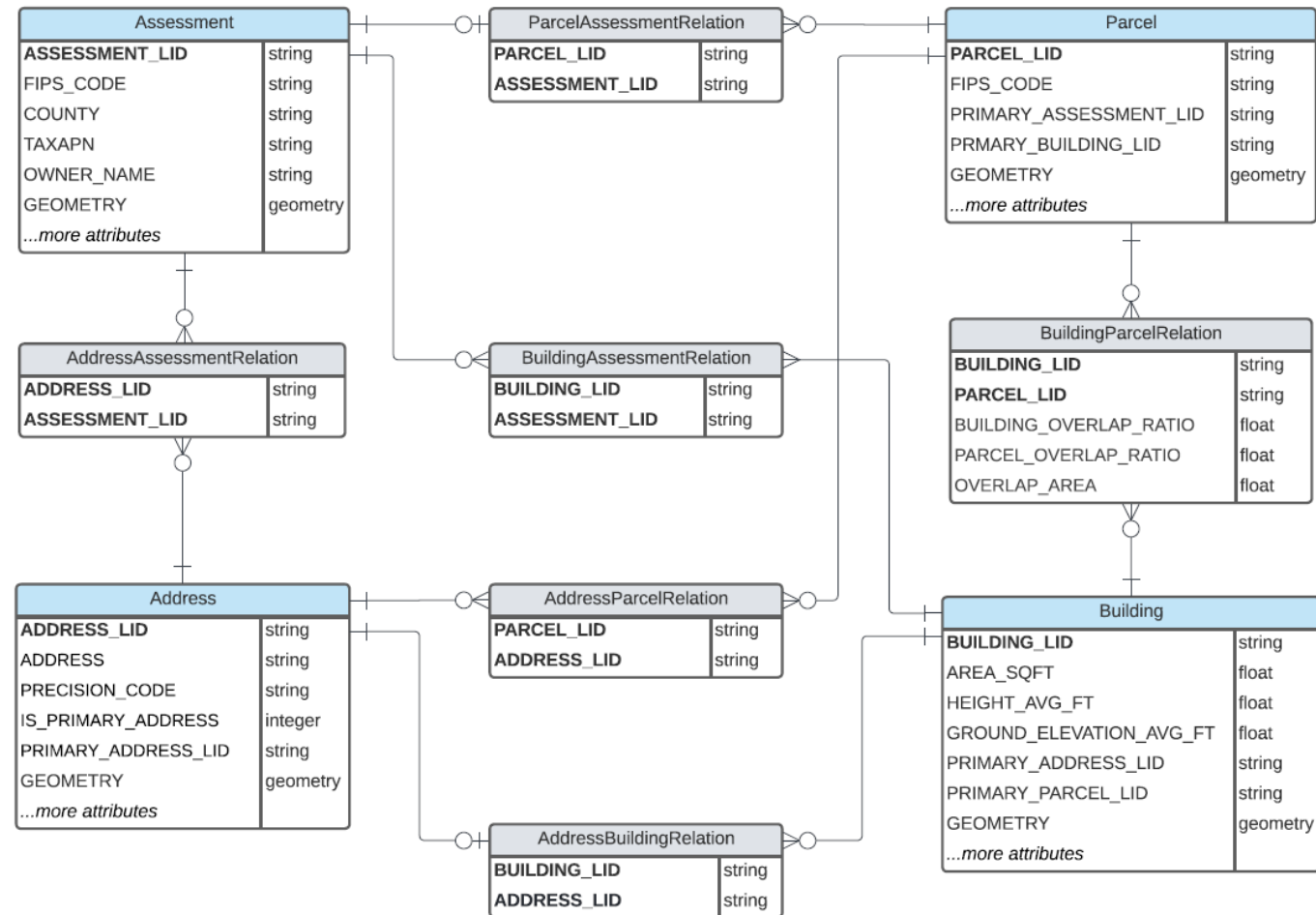
What does a Document Link look like?



- Document Links in AGOL look like any other item and you can add more Metadata.
- When shared with the appropriate group in AGOL the Document Link becomes searchable in the Geoportal.

Parcel, Building Footprints, Address Points

- Bulk data release in March to subscribers
- Feature service release in April
- API access, 1M calls
- Vision seats, 2,500



- Entity Relationship Diagram: <https://lightbox.document360.io/docs/smartfabric-core-and-professional-erd>

Open Source GIS

- No CDT policy restriction on Open Source software/OS GIS
- QGIS - varying degrees departmental access
 - Some departments allow direct load onto GIS Laptops
 - Others have a stable release in an approved company portal of apps
 - At least one dep. controls the version and the plug-ins – vetted
- Future GIS CoP will highlight use of OS GIS
 - Ability to write to a Multi-user Geodatabase
 - Relationships, i.e. one-many, etc
 - Easy export to Google Map or Earth or non-GIS users
 - License-free field data visibility, QField

Legislative Layers in Geoportal

- ☑ [Senate](#): has been added to the Geoportal.
- ☑ [Assembly](#): has been added to the Geoportal.
- ☑ [Congress](#): has been added to the Geoportal.
- ☐ Board of Equalization – coming soon from BOE staff!

Next Month

- Other people talking!
- Presentations for upcoming months from CARB and ??

Conferences:

- [CalGIS 2025](#)
Monday, April 14 – Wednesday, April 16, 2025
- [California Geographical Society Annual Conference Stanislaus](#)
Friday, April 25 – Sunday, April 27, 2025
- [ESRI GIS Conference](#)
Monday, July 14 – Friday, July 18, 2025
- **State GIS Day Meeting and Celebration**
Exact Date TBD, 3rd week in November, Sacramento, CA

Thank you

Next GIS CoP Monthly Forum

Wednesday, March 26th , 2025

Questions or comments send to: gio@state.ca.gov