



TODAY'S AGENDA

1 HUMAN RIGHT TO WATER
Slide 3

2 SAFER PROGRAM
Slide 5

3 STATE SMALL WS DATA SUBMISSION
Slide 12

DOMESTIC WELL DATA SUBMISSION
Slide 26

5 SAFER CLEARINGHOUSE
Slide 33

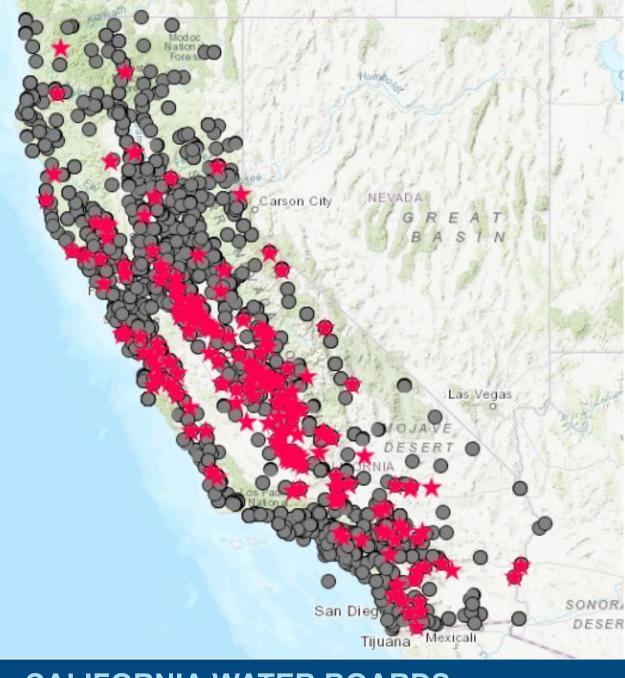


2012 - Human Right to Water (HR2W)

Water Code Section 106.3, the State statutorily recognizes that:

"every human being has the right to <u>safe</u>, <u>clean</u>, <u>affordable</u>, and <u>accessible</u> water adequate for human consumption, cooking, and sanitary purposes."





HR2W Systems – Water Quality Violations

- 7,400 Public Water Systems
- Red Stars Represent Water Systems with Violations in Community Water Systems or Schools
- 90% of Violations Occur in Water Systems Serving Less than 500 connections

SB 200 and the SAFER Program

In 2019, to advance the goals of the Human Right to Water "HR2W", California passed Senate Bill 200, which enabled the State Water Board to establish the Safe and Affordable Funding for Equity and Resilience (SAFER) Program.











Safe and Affordable Drinking Water Fund

Data Collection & Analysis

Consolidation & Regional Solutions

Administrators

Technical Assistance & Capacity Building

Safe and Affordable Drinking Water Fund

Up to \$130 million per year through 2030

The annual Fund Expenditure Plan prioritizes projects for funding, documents past and planned expenditures, and is "based on data and analysis drawn from the drinking water Needs Assessment" (Health and Safety Code §116769).



Needs Assessment



Systems ≤ 3,300 conn.; K-12 Schools; SSWS, & DWs

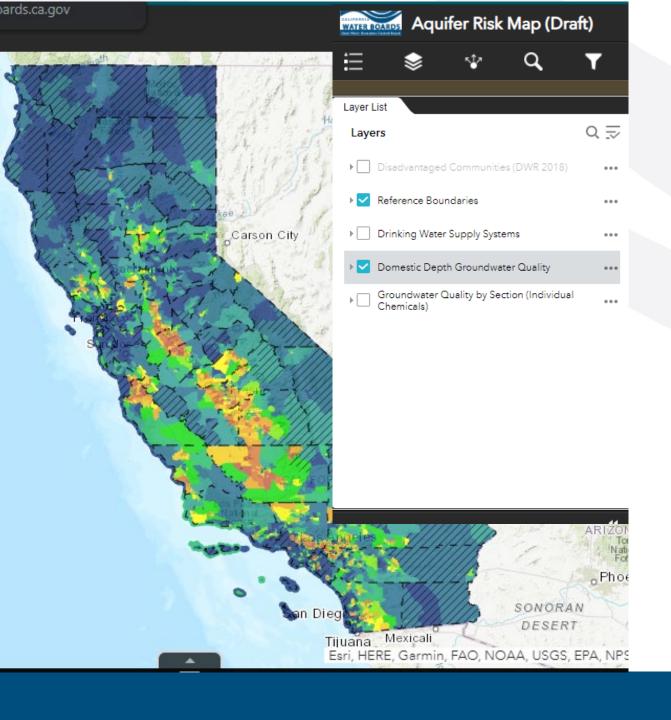


HR2W & At-Risk Systems and Domestic Wells



DAC Systems

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/needs.html#risk-assessment

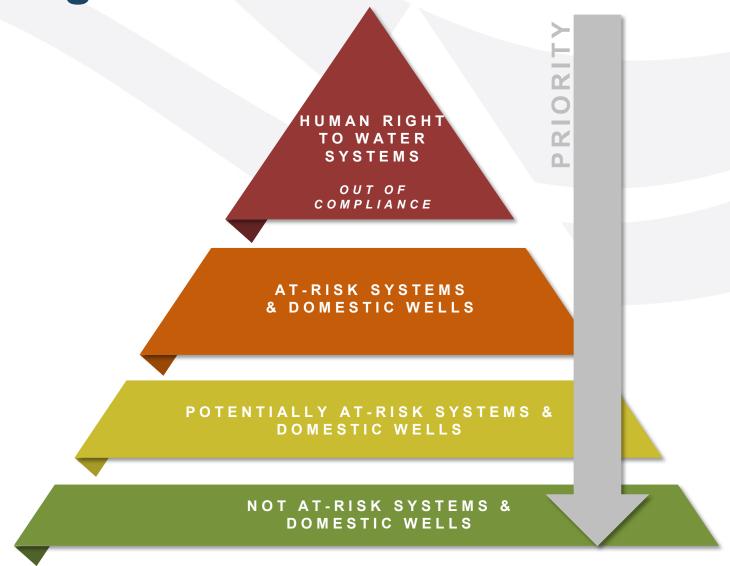


Aquifer Risk Map for State Small Water Systems & Domestic Wells

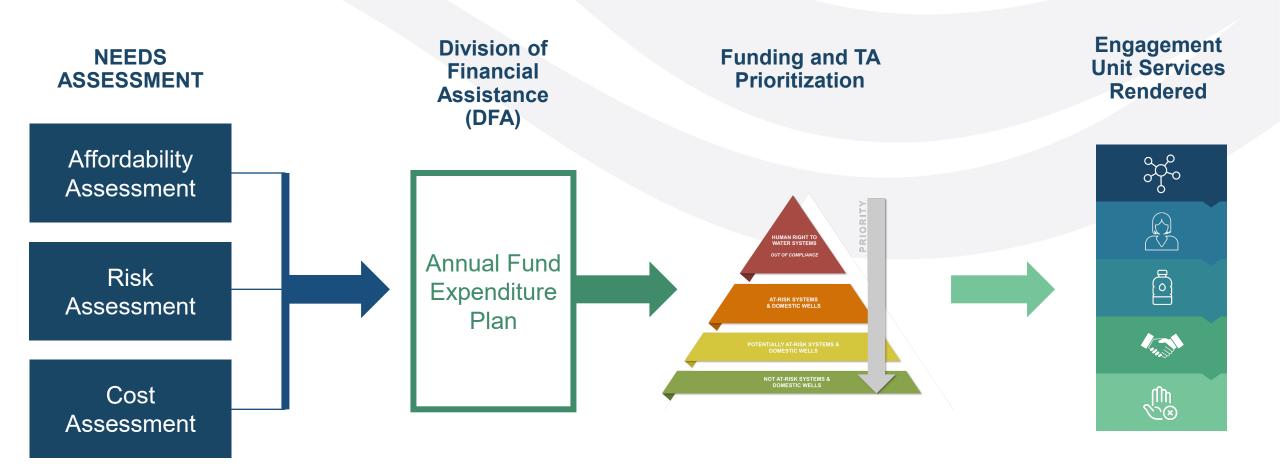
Intended to help prioritize areas where domestic wells and state small water systems may be accessing groundwater that does not meet primary drinking water standards.

Link to Map

SAFER Program and the Risk Assessment



Needs Assessment Uses







Senate Bill 200 – Water Quality Date Submission

Health and Safety Code, 116772 (added in SB 200)

- (b) (1) By January 1, 2021, a local health officer or other relevant local agency shall provide to the board all results of, and data associated with, water quality testing performed by a laboratory that has accreditation or certification pursuant to Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101 for a state small water system or domestic well that was collected after January 1, 2014, and that is in the possession of the local health officer or other relevant local agency.
- (2) By January 1, 2022, and by January 1 of each year thereafter, all results of, and data associated with, water quality testing performed by a laboratory that has accreditation or certification pursuant to Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101 for a state small water system or domestic well that is submitted to a local health officer or other relevant local agency shall also be submitted directly to the board in electronic format.

2021 Water Quality Date Submission Deadline

The January 1, 2021 deadline defined in 116772 (b)(1) is being shifted to a phased approach to account for:

- Development period for the SAFER Clearinghouse
- Accurate collection, validation, management and utilization of the water quality data
- COVID-19 impacts on county resources

Definitions

"Domestic Well" means a groundwater well used to supply water for the domestic needs of an individual residence or a water system that is not a public water system and that has **no more than four service connections**.

"State Small Water System" means a system for the provision of piped water to the public for human consumption that serves at least five, but not more than 14, service connections and does not regularly serve drinking water to more than an average of 25 individuals daily for more than 60 days out of the year.

Data Submission Requirements

Phase 1: January 2021

- County Contact Information (within 10 days)
- SSWS Basic System Inventory (within 20 days)
- Domestic Well Facility Inventory (within 90 days)

Phase 2: February 2021

SSWS Facility Components Inventory (within 20 days)

Phase 3: March 2021

SSWS Water Quality Data (within 30 days)

Phase 4: April 2021

Domestic Well Water Quality Data (within 30 days)

County Contacts

Primary Contact Information for SSWSs and DWs	Required	Required in the Future	Optional
Local Health Officer Contact Type	X		
Local Health Officer Agency	X		
Local Health Officer Name	X		
Local Health Officer Title			X
Local Health Officer Phone	X		
Local Health Officer Email	X		
Local Health Officer Address	X		
Local Health Officer County	X		

County Contacts – Key Points

County Contact Type identifies contact for:

- State Small Water Systems;
- Domestic Wells; or
- Both SSWSs and Domestic Wells

Provide most appropriate contact(s)

Environmental Health Director

Registered Environmental Health Specialist(s)

List multiple contacts, if appropriate

SSWS Basic Inventory

State Small Water System Inventory Data Fields	Required	Required in the Future	Optional
Water System Name	X		
Public Water System Identification (PWS ID) Number (if already assigned)			X
Unique Local Identification Number			X
Related Regulating Agencies (RAA)	X		
Water System Physical Address	X		
Current Activity Status (Active, Inactive)	X		
Current Activity Status Date	X		
Administrative Contact Name/Address/Phone/Email	Χ		
Number of Service Connections	Χ		
Service Area Population			X
Primary Related Service Area	X		
Owner Type (Public, Private, State, Federal, etc.)	X		

SSWS Basic Inventory – Key Points

LPA counties should already have "Public Water System ID (PWSID)" assigned to SSWS

Former LPAs should have existing PWSID

PWSID will be assigned by State Water Board, if none exists, and shared with county

"Current Activity Status Date" should be date first permitted to operate

SSWS Facility Inventory

State Small Water System Facility Inventory Data Fields	Required	Required in the Future	Optional
Water System Name	X		
Public Water System Identification (PWSID) Number	X		
Unique Local Identification Number			X
Facility Name (i.e. – Well 01)/Facility Type	X		
Water Source Type	X		
Facility Activity Status/Date/Availability	X		
Facility Treatment Status/Type	X		
Facility Latitude/Longitude/Datum	X		
Assessor Parcel Number(s)			Χ
Well Permit Number (if applicable)	X		

SSWS Facility Inventory Cont.

State Small Water System Facility Inventory Data Fields	Required	Required in the Future	Optional
Online Systems for Well Completion Reports (OSWCR) Identification Number			X
Well Construction Date		X	
Well Completion Report Number			X
Well Depth		X	
Well Screen (Depth to Top, Depth to Bottom)/Static Water Level			X
Well Casing Size/Material/Annular Seal Depth/Material/Perforation Interval/Slot Size			X

SSWS Facility Inventory – Key Points

PWSID must be used in spreadsheet to link facility components

Facility components will likely be:

- Well
- Distribution system
 - Water quality data linked with PWSID+Facility ID

Lat/Long or APN valuable for regional evaluations and linkage with OSCWR number

OSCWR number provides valuable well construction data

SSWS Water Quality Data

State Small Water System Water Quality Data Fields	Required	Required in the Future	Optional
Water System Name	X		
Public Water System Identification (PWSID) Number with	X		
Facility Code			
Unique Local Identification Number			X
Water Quality Analytes (See Appendix)	X		
Water Quality Results	X		
Water Quality Results Units	X		
Water Quality Analyte Reporting Limit/Reporting Limit		X	
Units			
Laboratory Name/Lab ELAP Certification Identification		X	
Number			
Lab Sample Identification Number		X	
Composite Sample		X	

SSWS Water Quality Data Cont.

State Small Water System Water Quality Data Fields	Required	Required in the Future	Optional
Primary Station Code	X		
Water Quality Sample Collection Date	X		
Water Quality Sample Collection Time		X	
Water Quality Sample Type		X	
Lab Receipt Date		X	
Analysis Start Date/Time/Analysis Complete Date/Time		X	

SSWS Water Quality – Key Points

List PWSID+Facility ID

Data must be mapped onto the template spreadsheet for accurate import into SAFER Clearinghouse

Data fields mirror lab reports

Coordination with labs may be an option for generating machine-readable data

Domestic Well Facility Inventory

Domestic Well Facility Data Fields	Required	Required in the Future	Optional
Domestic Well Name (Property Owner or Group)	X		
Unique Local Identification Number	X		
Well Permit Number			X
Online Systems for Well Completion Reports (OSWCR)		X	
Identification Number			
California Statewide Groundwater Elevation Monitoring			X
(CASGEM) Identification Number			
USGS Identifier			X
Assessor Parcel Number(s)		X	
Domestic Well Physical Address	Χ		
Well Construction Date			X
Well Completion Report Number			X
Current Activity Status (Active, Inactive)	X		

Domestic Well Facility Inventory Cont.

Domestic Well Facility Data Fields	Required	Required in the Future	Optional
Treatment Status/Type		X	
Related Regulating Agencies (RAA)	X		
Domestic Well Owner Name/Address/Phone/Email			X
Domestic Well Latitude/Longitude/Datum	X		
Well Depth			X
Well Screen (Depth to Top, Depth to Bottom)/Static Water Level			X
Shared Well		X	
Well Casing Size/Material/Annular Seal Depth			X
Well Casing Material/Perforation Interval/Slot Size			X

Domestic Well Facility Inventory – Key Points

Provide owner/organization for each well

Unique identification number is essential

Well permit number may be best option

Lat/Long or APN valuable for regional evaluations and linkage with OSCWR number

SAFER Clearinghouse Domestic Well ID will be generated and shared

Domestic Well Water Quality Data

Domestic Well Water Quality Data Fields	Required	Required in the Future	Optional
Water System Name	X		
Public Water System Identification (PWS ID) Number with	X		
Facility Code			
Unique Local Identification Number			X
Water Quality Analytes (See Appendix)	X		
Water Quality Results	X		
Water Quality Results Units	X		
Water Quality Analyte Reporting Limit/Reporting Limit		X	
Units			
Laboratory Name/Lab ELAP Certification Identification		X	
Number			
Lab Sample Identification Number		X	
Composite Sample		X	

Domestic Well Water Quality Data

Domestic Well Water Quality Data Fields	Required	Required in the Future	Optional
Water Quality Sample Collection Date	X		
Water Quality Sample Collection Time		X	
Water Quality Sample Type		X	
Lab Receipt Date		X	
Analysis Start Date/Time/Analysis Complete Date/Time		X	
Analysis Method Code		X	

Domestic Well Facility Inventory – Key Points

List SAFER Clearinghouse Domestic Well ID

Data must be mapped onto the template spreadsheet for accurate import to SAFER Clearinghouse

Data fields mirror lab reports

Coordination with labs may be an option for generating machine-readable data



SAFER Clearinghouse

In 2020, the State Water Board initiated in-house development of a new database system to support the implementation of the SAFER Program.







SAFER Clearinghouse Development Timeline

Phase 1.0: Completed 2020

- Automate the querying of the HR2W systems
- Functionality to generate list of systems engaged by the SAFER Program.

Phase 2.0: Began Summer 2020

- Portal support Engagement Units' activities/needs.
- Portal for Counties to submit/access State Small and Domestic Well data.
- Pull required data from SWRCB databases (LGTS, CAA, SDWIS, EAR, CLIP, WQIR)

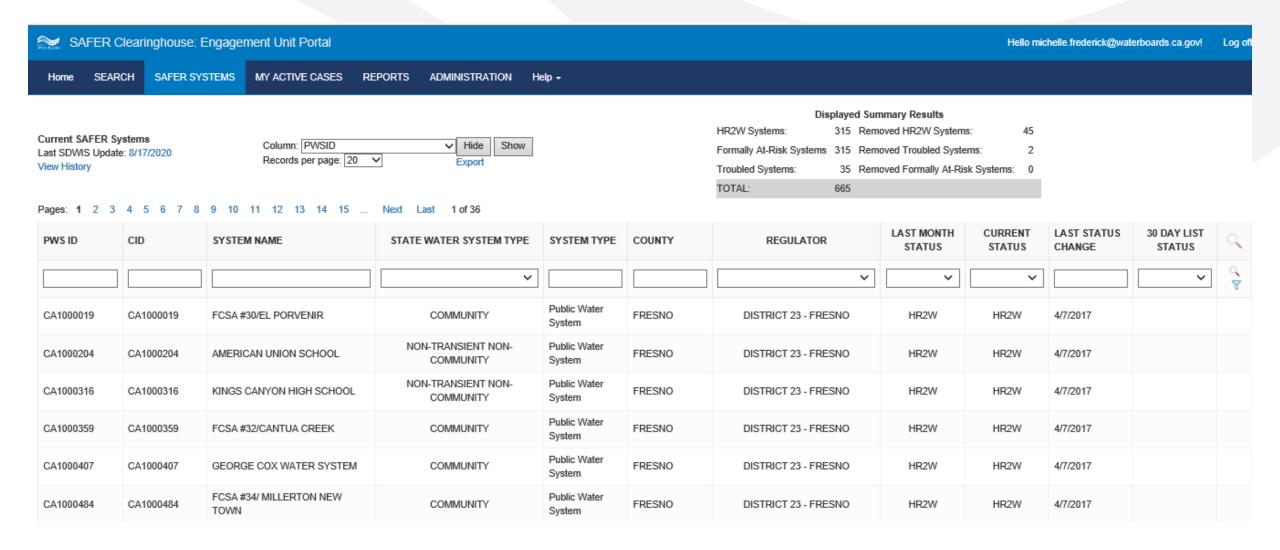
Phase 3.0: Begins Winter 2022

- Focus on incorporating Needs Assessment data and begin automating methodologies.
- Incorporate additional water system data to support capacity development and enforcement
- Begin developing publicfacing portal

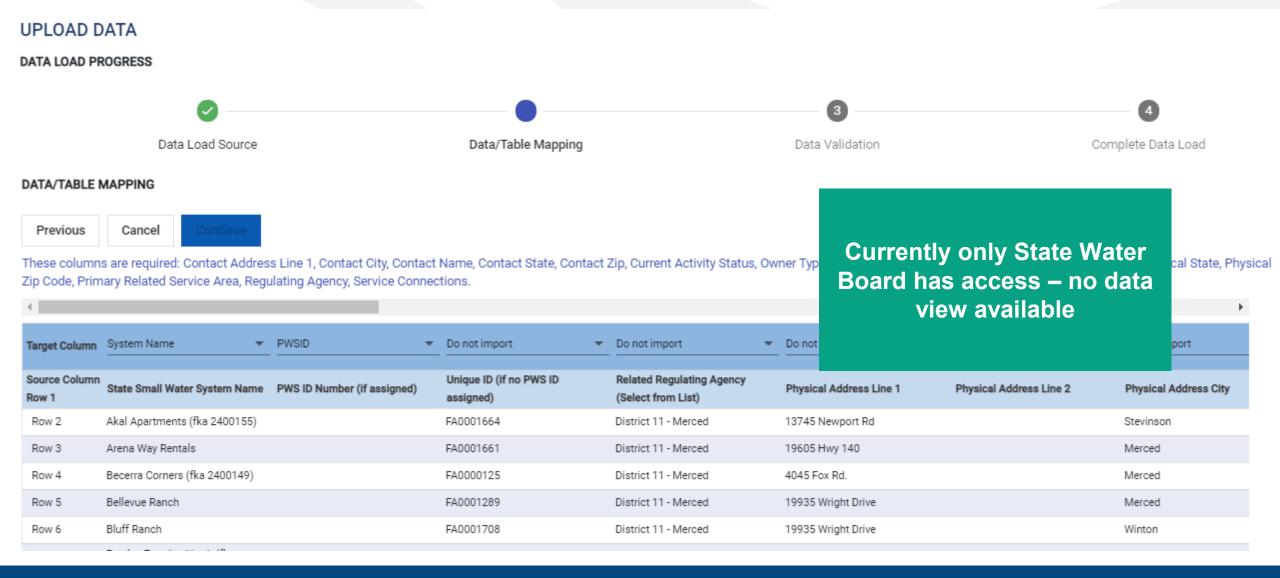
Phase 4.0: Winter 2023

- Develop public-facing portal and launch.
- Explore connections with other State database systems.

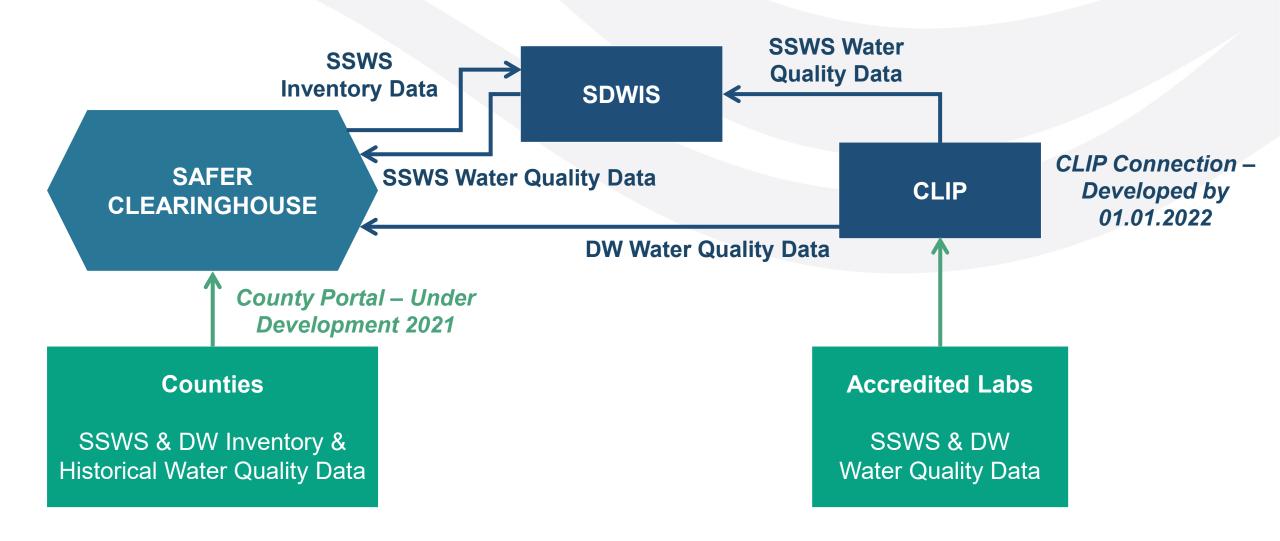
SAFER Clearinghouse Today (SAFER 1.0)



Batch-Upload Functionality & Data Validation



SSWS & DW Data Flows



SSWS & DW Data Flows Cont.

- SDWIS will be the database of record for SSWS inventory and SSWS water quality data.
 - Counties will use the SAFER Clearinghouse to maintain the SSWS inventory/historical water quality data. All updates will be pushed to SDWIS.
- The SAFER Clearinghouse will be the database of record for DW inventory and DW water quality data.
- Counties will be able to view, edit, and extract all SSWS and DW data from the SAFER Clearinghouse.
- The goal is to create a one-stop-shop for Counties to reduce reporting/data management burden.

County State Small Water System & Domestic Well Portal

The State Water Board will begin engaging with Counties in March 2021 to begin seeking input on the development of a County SSWS & DW portal for the SAFER Clearinghouse.



PRE-DEVELOPMENT

Interested County representatives work with DDW to scope needs.



DEVELOPMENT

DDW will work with DIT to turn ideas into reality.



BETA TESTING

DDW and Counties, thoroughly beta test the Clearinghouse to ensure needs are met.



LAUNCH

The County
Clearinghouse Portal
will launch by January
2022.

Identifying SSWS & DW Data Management Needs

Key pieces of functionality:

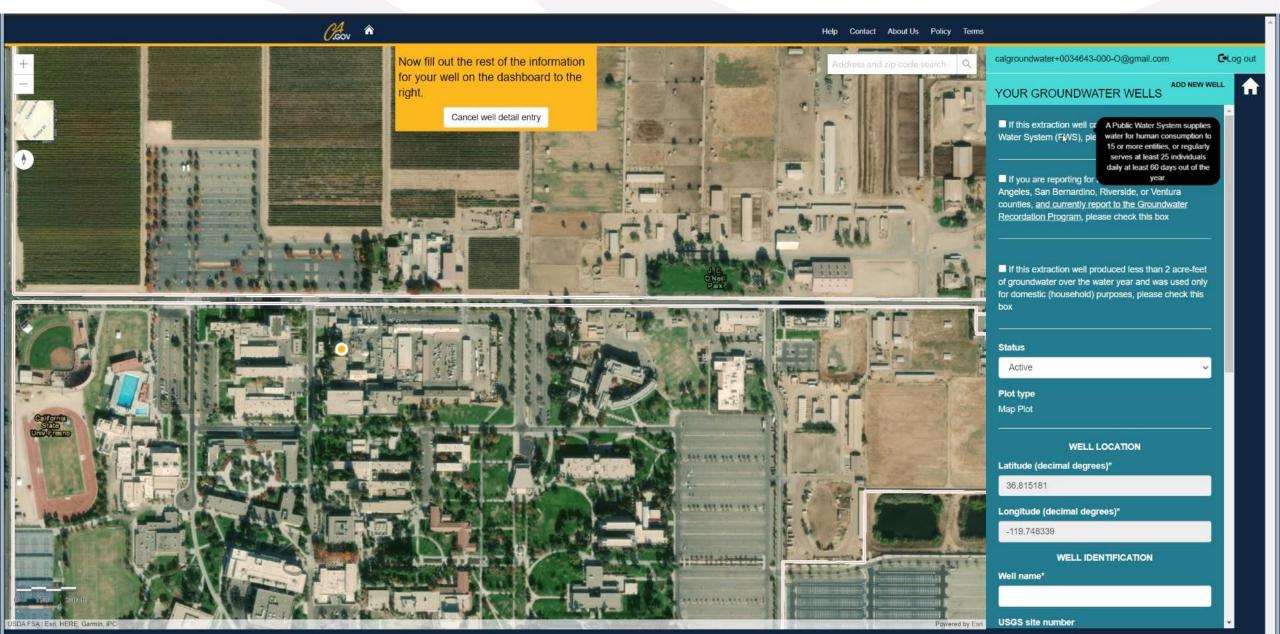
Immediate Needs:

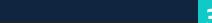
- Portal that allows Counties to maintain inventory of SSWSs and DWs
- Data bridge to collect water quality test results from labs
- Allow Counties to batch-upload and validate data
- Allow Counties to view, edit, and extract data

Potential Future Needs:

- GIS mapping
- Connection with OSCAR
- Other ideas?

Example GIS Well Mapping – GEARS (SGMA)





calgroundwater+0034643-000-O@gmail.com

C►Log out

YOUR GROUNDWATER WELLS

Well name*

Help Contact About Us Policy Terms

FSU Supply Well

USGS site number

15 digit number

CASGEM Station ID

18 digit alpha numeric value

WELL CONSTRUCTION DETAILS

■ Please check this box if you have a well completion report for this well

Maximum production Gallons per minute (gpm)*

500

Year pumping began *

1976

Total depth of well feet below ground surface (ftbgs)

350

Depth to top of upper-most screen feet below ground surface (ft-bgs)

100

Depth to bottom of bottom-most screen feet below ground surface (ft-bgs)

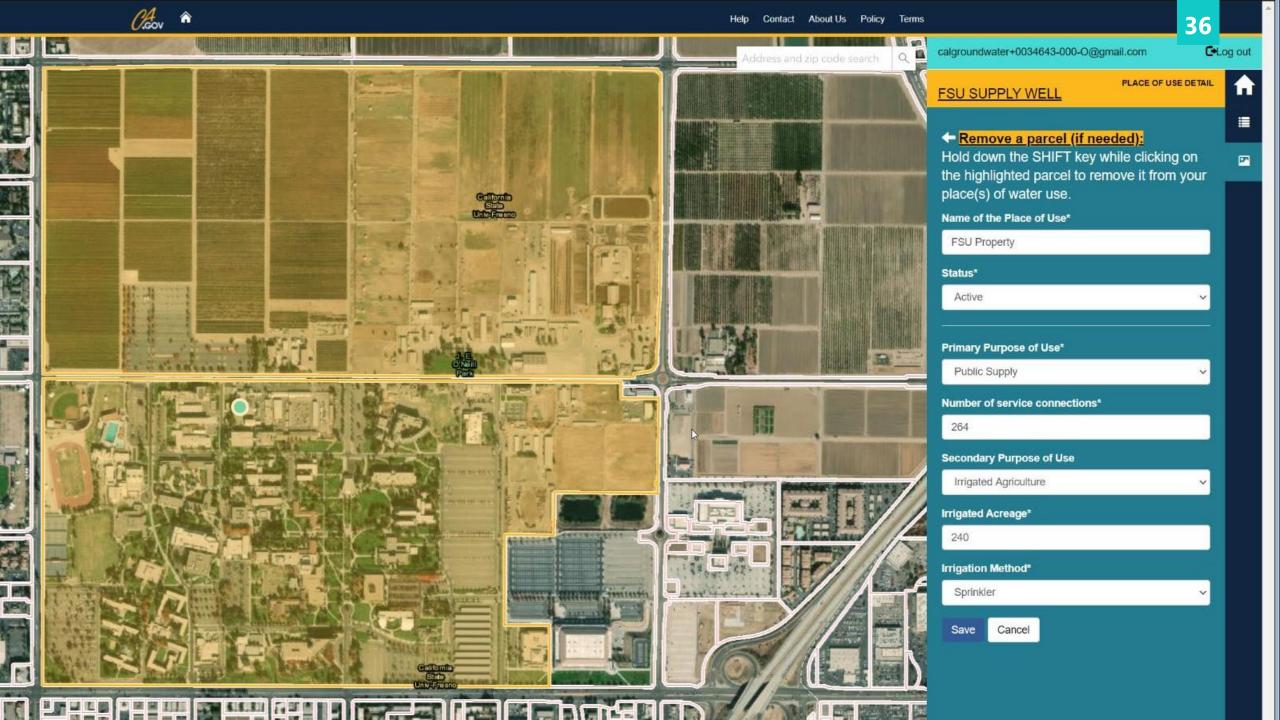
340

Casing diameter (inches)

10







Additional Opportunities & Needs

- SGMA connection resource for GSAs?
- Well registration system
- CVSALTS coordination
- Domestic well data validation how to respond to found wells, updated contact information, etc.?

