Regional Water Management Group

LOCATION: Online (ZOOM)

MINUTES

Monday, September 22, 2025, 1:30 pm

1. **The meeting was called to order at 1:34 pm, by Phil Janzen, Vice Chair.**
   Those present included:

Al Solis – SEMCU & QK INC
Allison Medley – Madera County
Becky Horn – Triangle T WD
Carl Janzen – Madera ID
Celeste Wheeler – Indian Lakes
Dina Nolan – Madera ID
Fahed Mosleh – Madera County
Gretchen Heisdorf – Root Creek WD
Jacob Roberson – RWMG Coordinator
Jason Rogers – City of Chowchilla
Julie Konno – Coarsegold RCD
Kevin Sischo – Madera County
Paul Negrete – SEMCU
Phil Janzen – Madera WD
Raquel Rios – City of Madera

2. **Review & Approval - Agenda & Minutes**
   - A motion to approve the July minutes and September agenda was made by Jason R; Celeste W second; all voted; Motion passed unanimously.

3. **Public Comment**
   - Items of interest were mentioned by Jacob R (for more information, reach out to Jacob):
     - The Fall GSA Forum will be held on October 15th.
     - The 5th biennial Flood-MAR Forum is currently open for registration. The forum will be held on November 5th – 6th at the Harper Alumni Center at Sacramento State University.
     - The launch of the Groundwater Demand Management Network was recently announced. The Network is a new statewide initiative designed to create a comprehensive community of practice for managing California's critical groundwater resources.
     - The 2025 Water Summit will be held in Sacramento on October 1st at the Sawyer Hotel.
     - DWR is hosting a kickoff meeting for the SB 1157 Benefits & Impacts Working Group on Monday next week, September 29th. The meeting will be held virtually on Zoom.

4. **Discussion & Action - Financial Report/Warrant Approvals**
   - September 2025 Financial Report
     - Jacob R reported on the finances from May through September due to not having a quorum since April for approvals:
       - In May, we started the month with $31,290.70. We had no incoming funds, and 1 outgoing expense for $99 for website maintenance. We ended May with $31,191.70

        - In June, we had 1 incoming payment for $2,850 (member dues for MAWA), and 2 outgoing expenses. $4,724 for Jacob's position (2-months), and $99 for website maintenance. We ended June with $29,218.70.
        - In July, we received in $58,362.63 for the Prop 1 DACTI Grant. We had 1 outgoing expense for $4,724 for Jacob's position (2-months). We ended the month with $82,857.33.
        - In August, we received payment from one member for membership dues, for a total of $2,850 for incoming money. Just one outgoing expense for CalTech Web $99 (website management and maintenance). We ended the month with $85,608.33.
        - For this month, we had no incoming money. For outgoing expenses, we had $17,901.16 for the Prop 1 DACTI grant completed June 2025, $4,724 for Jacob's position (2-months), and $99 for website maintenance. This ends the month with $62,884.17.
    - A motion to approve the September financial report was made by Gretchen H; Jason R second; all voted; Motion passed unanimously.

5. Discussion – Proposition 1 Disadvantaged Community Involvement Funding

- San Joaquin Valley
    - Chowchilla Nitrate Control Program / Chowchilla Management Zone
        - Becky H reported they continue with their outreach efforts and attended a one-stop shop in August at the City of Chowchilla's Recreation Center. They passed out some school supplies and got some potential applicants for domestic well testing. They continue to partner with school districts, and are looking to install a water kiosk at a school when they do their water system upgrade. They are still working through the funding for the water system upgrade project. They submitted their annual report to the SWRCB. This is not a required report. It goes along with their MZP. It's a report to let the Board know they are providing outreach and bottled water to those that need it. They created a flyer with some talking points to help explain what a Management Zone is. Flyer is attached at the end of these minutes.

6. Discussion – SGMA Implementation Grant

- Gretchen H provided an update on the various projects going on under the SGMA Grant:
    - Progress report and pay request 12 were submitted in August and approved by DWR on September 4th. The check from DWR should be received in late September or early October. Project sponsors should receive checks from Root Creek WD in October or November.
    - Projects 2 and 4 are complete. Final reports have been approved for both by DWR.
    - Project 3 is in active construction.
    - Project 5 is ongoing and working toward 100% design and environmental submittal by October 31st.

7. Discussion – Drought Working Group

- No new update provided.

8. Discussion – Prop 1 DACTI Well Testing Final Documents

- Jacob R provide a quick rundown on the final documents submitted to DWR for the Prop 1 DACTI work that was completed in June 2025. For more information, please see the documents attached at the end of these meeting minutes. Documents will soon be posted on the Madera RWMG website.
    - Project Summary
        - Madera County has unique water needs due to impact on groundwater from agriculture. Smaller communities surrounded by agriculture rely on domestic wells or a community well for their water supply. Mainly noting groundwater levels dropping resulting in a decrease in waterflow/pressure and an increase in contaminant levels. Homeowners are unaware about the impact that dropping groundwater levels has on them.
        - DAC, EDA, and underrepresented communities involved in project identified on map with stars.
        - Talked about how outreach was conducted (CMZ – flyers, mailers, advertising at local events, Facebook advertising, etc.). Also talked about unsuccessful methods (cold calling and door-to-door).
    - Summary Report
        - Brief summary of results found for different contaminants through testing.
        - Ultimately recommend households testing over the safe threshold or near the threshold get retested.
    - Database
        - 44 tests completed
        - Red = at or above safe threshold
        - Orange = approaching safe threshold
        - Yellow = reason for concern
- Jacob asked the group if we should have these documents posted on our website and distributed through other methods. Phil J agreed that we should definitely get these up on our website.

9. New/Suggested Members for the Madera RWMG

- No new suggestions made.

10. Future Agenda Items

- Jacob R met with Bobby M and Jason R back in August and had a few ideas to run by the group this meeting:
    - Go through and update IRWM project list
        - Development and implementation of projects
            - Gretchen H added to include a column or field on the project list to indicate various statuses on the projects (CEQA ready, 50% design complete, shovel ready, etc.). Some design requirements and permitting can take up to 12-24 months to

get so having these before applying for funding helps tremendously with securing funding from funding sources.
                - Gretchen also added to have projects identified as design/planning projects or implementation projects on the list. With the lack of funding that is out there right now, it is important to know the timeline of getting the project completed. DWR is not extending as many projects now like they used to in the past.
            - Partner with local agencies to be lead applicant
                - Julie K mentioned Coarsegold RCD has some capacity right now to be the lead applicant/fiscal sponsor for some projects. Julie also added that Yosemite/Sequoia RC&DC has some capacity to be the lead applicant/fiscal sponsor on grants.
    - Technical Assistance for groups going after funding
        - Julie K mentioned local agencies willing to be the lead applicant would be a great resource for technical assistance. Jacob R mentioned Self-Help and other non-profits for communities in the valley. Julie also added that Tristan S with Madera County may have capacity to provide technical assistance. There may be a cost associated with that.
    - Possibly apply for grants as the Madera RWMG
        - Jacob R needs to go through by-laws and reach out to Jeannie H. This has been brought up multiple times in the past and Jacob would like to get something added to the by-laws if there isn't something in there already about the group applying directly to grants.
    - Reach out to other IRMW groups to see how they leverage funding
        - Jacob R will be reaching out to Mariposa, Fresno, Eastern Sierra, and Ventura County IRWM groups.
    - Possible grant writing course(s) for DACs and Tribes
        - Paul N asked Jacob who the grant writing instructor is for the group, and Jacob mentioned that we do not have one. This was just an idea to run by the group in order to expand our services and outreach. Paul mentioned he has some granting writing experience and also with leading grant writing courses.
        - Paul also added that The Foundation Center offers free grant courses online. This is a good start for those that are interested in learning about writing grants.
        - Julie K added that Elissa Brown with Sierra Nevada Conservancy (SNC) offers grant writing courses. She offers this about 4 times per year, and each course is 3-days online with 15 – 20 attendees per course. Tristan Shamp with Madera County is also another grant writing resource that Jacob will reach out to. These classes are free of charge for non-profits.
        - Julie also added that the courses are great to attend even if participants will not be writing grants themselves. It'll give them an idea of all that goes into grant writing and what is required. There is

a lot of work done before a grant is written, and these courses are a great way to gain insight on that process.

- Bi-monthly meetings instead of monthly
  - Multiple group members agreed with bi-monthly meetings. No one objected. Jacob R will send out a cancellation notice for October's meeting, and have this as a review and approval item on November's agenda.

11. Next Meeting

- Next meeting is scheduled for Monday, November 24, 2025, on Zoom

12. The meeting was adjourned at 2:08 pm.

MZIP Annual Report (2023-2025)

CHOWCHILLA MANAGEMENT ZONE

Summary of Key Activities and Progress (2023-2025)

This is the first Annual Report for the Priority 1 Management Zones (MZs) under the Central Valley's Nitrate Control Program. This voluntary document provides progress on the Management Zone Implementation Plans (MZIPs) submitted in September 2023.

Drinking Water Access & Outreach

The following diagram highlights the activities conducted in 2023-2025 in the Chowchilla MZ.

Emergency & Interim Drinking Water Program

ACTIVITIES SINCE 2021

- Distributed free bottled water to qualifying residents
- Conducted domestic well testing – many wells exceeded the nitrate drinking water standard of 10 mg/L

OUTREACH HIGHLIGHTS

- Most effective outreach is in-person engagement at health fairs and food giveaways (e.g., Chowchilla Fair)
- Postcards and translation services help build trust and recognition
- Average of ~79,000 people reached annually via ~1,600 interactions/events

TARGET AREA

- Outreach and planning focused on Initial Focus Areas (IFAs) (initial priority areas for addressing drinking water solutions)

2025 OUTREACH PLANS

- Continued meetings with Alview-Dairyland Union School District
- Education for domestic well users
- Exploring a new water fill station with Pioneer Market Water System
- Partnering with Chowchilla Subbasin Groundwater Sustainability Agencies for joint well mitigation and testing

Long-Term Drinking Water Solutions

Progress on Nitrate Control Program Goals: Six Priority 1 MZs

The three main program goals:

1. Ensure Safe Drinking Water

Emergency & Interim Programs: Over 2,700 wells tested; 1,400+ exceeded nitrate limits; ~4 million gallons of safe water delivered (as of Feb 2025).

Water Access: Bottled water delivery plus 24/7 fill stations active across MZs.

Long-Term Solutions: Outreach in Initial Focus Areas (IFAs); coordination with public water systems and agencies; POU/POE treatments.

Outreach Impact: More than 1 million community engagements yearly via mailers, events, social media, and partnerships.

2. Reduce Nitrate Loading to Groundwater

Sectors Involved: Irrigated agriculture, dairy/bovine, poultry, and non-Chapter 15 dischargers.

Agriculture: Nitrogen management training, Nitrogen A/R (Applied/Removed) reporting to guide compliance.

Dairy & Poultry: Infrastructure upgrades, environmental education programs, and manure management.

Non-15 Dischargers: Planning improved monitoring/reporting frameworks for 2025.

3. Long-term Managed Aquifer Restoration

Long-term restoration is being planned "where reasonable, feasible, and practicable."

Coordinated with Groundwater Sustainability Agencies (GSAs) on recharge-related efforts.

Future reports will expand on the benefits and outcomes of managed aquifer recharge projects.

For more information:

Chowchilla Management Zone
Sarah Woolf, sarahwoolf@me.com
chowchillamanagementzone.com
(559) 373-7399 • chowchilladrinkingwater@gmail.com

CHOWCHILLA MANAGEMENT ZONE NITRATE CONTROL PROGRAM

Project Completion Summary

Proposition 1, San Joaquin River Funding Area DAC Involvement Grant
Grantee: Contra Costa Water District
DWR Agreement No. 4600012737
Prepared: June 9, 2024

Project 9: Madera Regional Planning Project
Project 12, Task 3 (12.3): SJRFA DAC Technical Assistance
Project 13, Task 2 (13.2): SJRFA DAC Capacity Building
Implementing Agency: Madera County Regional Water Management Group (Project 9), Madera Irrigation District (Project 12.3, 13.2)

Executive Summary

On January 31, 2019, the Department of Water Resources (DWR) initially awarded a grant to the Contra Costa Water District (CCWD) under Grant Agreement #4600012737 to fund DAC involvement activities in the San Joaquin River Funding Area (SJRFA).

Madera County Regional Water Management Group received funding as a Local Project Sponsor (LPS) under this Grant Agreement under Project #9 (Madera Regional Planning Project). A total of $148,000 was awarded under Project #9.

The Grant Agreement included the following tasks under Project #9 which were implemented by Madera County Regional Water Management Group:

- Task 1: Project Administration
- Task 2: Capacity Building
- Task 3: Water Quality Sampling
- Task 4: Water Meter Assessment

Madera Irrigation District received funding as an LPS under this Grant Agreement under Project #12 (SJRFA DAC Technical Assistance) and Project #13 (SJRFA DAC Capacity Building). Projects #12 and #13 were included under Grant Agreement #4600012737 to provide technical assistance, project planning and development, environmental documentation, and design support services for SJRFA DAC projects in response to the Needs Assessment performed under Project #2. As such, the original Grant Agreement included placeholder tasks for the scope of services intended to be performed under Projects #12 and #13. Amendment 1 to the Grant Agreement defined the scope of services and funding allocated to these projects, which included $5,400 for Project 12, Task 3 (12.3), and $147,000 for Project 13, Task 2 (13.2), for a total of $152,400.

The Grant Agreement included the following tasks under Projects #12 and #13 which were implemented by Madera Irrigation District:

- Task 2: Expanded Private Well Water Quality Testing Program in Madera IRWM Region (Project #13)
- Task 3: Private Well Water Quality Testing in Madera IRWM Region (Project #12)
    - Work accomplished under Task 3 was reported under Project #13, Task 2

The following table summarizes the deliverables listed in the Grant Agreement which were submitted to the grantee and DWR.

Deliverable	Submitted with Progress Report No.
Project #9: Madera Regional Planning Project	
Task 1: Project Administration (Project #9)	
✓ Quarterly Progress Reports	Quarterly
✓ Quarterly Invoices w/Backup Documentation	Quarterly
✓ Project Completion Summary	23
Task 2: Capacity Building (Project #9)	
✓ Communication Materials including PowerPoint Presentations, Factsheets, and Brochures	3, 4, 5, 7, 8
✓ Meeting Agendas, Notes, and Sign-In Sheets	3, 4, 5, 7, 9
✓ Communication/outreach materials, educational materials, list of participants for the workshop and/or tour	3, 4, 5, 7, 8
Task 3: Water Quality Sampling (Project #9)	
✓ Program Materials	4, 8, 9
✓ Summary of Water Sampling Results	4
✓ Project Description, Scope of Work, Budget, Schedule	4
✓ List of Potential Funding Sources for Project Implementation	10
Task 4: Water Meter Assessment (Project #9)	
✓ Meter Product Information Sheet	4
✓ Preliminary Opinion of Probable Construction Cost	5
✓ Draft Meter Assessment Report	4
✓ Final Meter Assessment Report	5
Project #12: SJRFA DAC Technical Assistance	
Task 3: Private Well Water Quality Testing in Madera IRWM Region	
✓ Deliverables completed under Project #13, Task 2	N/A
Project #13: SJRFA DAC Capacity Building	
Task 2: Expanded Private Well Water Quality Testing Program in Madera IRWM Region	
Task 2.1: Communication Materials and Data Sharing Agreement	
✓ Program materials, i.e. consent form, data-sharing agreement	9, 10

Deliverable	Submitted with Progress Report No.
Task 2.2: Water Quality Sampling and Database	See below.
✓ Water quality database	23
✓ Link or access to GIS mapping tool	23
✓ Program Summary Report	23

Stakeholder Summary

DACs, EDAs, and underrepresented communities in Madera County have unique needs when it comes to water management, and also very similar needs with communities across California. Madera County, along with many of the Central Valley communities, has a big impact on groundwater from agriculture. Madera County, along with many other counties, has small communities that are surrounded by agriculture where a lot of the economy is derived from. Many households in these small communities depend on domestic wells to supply water. These domestic wells have seen dramatic impacts from groundwater levels dropping, including decrease in water flow/pressure which sometimes leads to wells drying up altogether, and an increase in contaminant levels.

Throughout this project, it became evident that homeowners or renters were unaware of the impact that decreasing water levels have on their water quality, but many understood the impact it has on their water availability. Throughout the project during outreach events, many homeowners and renters had questions in regards to water availability and what could be done versus what is currently being done to protect domestic wells from drying up during drought events. Many resources were distributed to homeowners currently being affected by or with a possibility of being affected by drought events during the duration of this project, along with testing of the domestic wells for contaminants, primarily Nitrates.

Point of use systems were very popular among the questions asked by homeowners and renters when it came to the quality of their water. Others were satisfied with programs supplying bottled water and/or water delivery to water tanks if their water was deemed unsafe to drink based off testing performed. These programs are temporary, but homeowners and renters were glad to learn about programs to support them regardless of the fix being temporary or permanent. After reviewing test results with homeowners and renters impacted by this project, they became aware of the potential risks, if not already, they could face in the near future as groundwater becomes more of a scarce resource in California.

Some water management needs that became evident during this project include: managing groundwater use for agriculture and increasing efficiency, managing groundwater use for landscape and urban water use efficiency, planning the distribution of water resources strategically throughout the year, surface water management for agriculture and increase in surface water storage, groundwater recharge (Flood-MAR) and recharge area protection, drinking water treatment and distribution, drought preparedness, conjunctive management, land use planning and management, matching water quality to water use, outreach and education, and watershed management.

The DACs, EDAs, and underrepresented communities involved in this project were derived from the DWR DAC mapping tool available online and pictured below. The stars on the map represent communities involved in domestic well testing, but the entirety of Madera County was contacted throughout various forms of outreach, including: door-to-door canvasing, mailer flyers and flyer handouts, email blasts through local school districts, workshops, outreach events (County Fairs, flea markets, etc.) cold calls, Facebook advertising, and word of mouth.

Figure 1 identifies different DACs, EDAs, and underrepresented communities involved in the project.

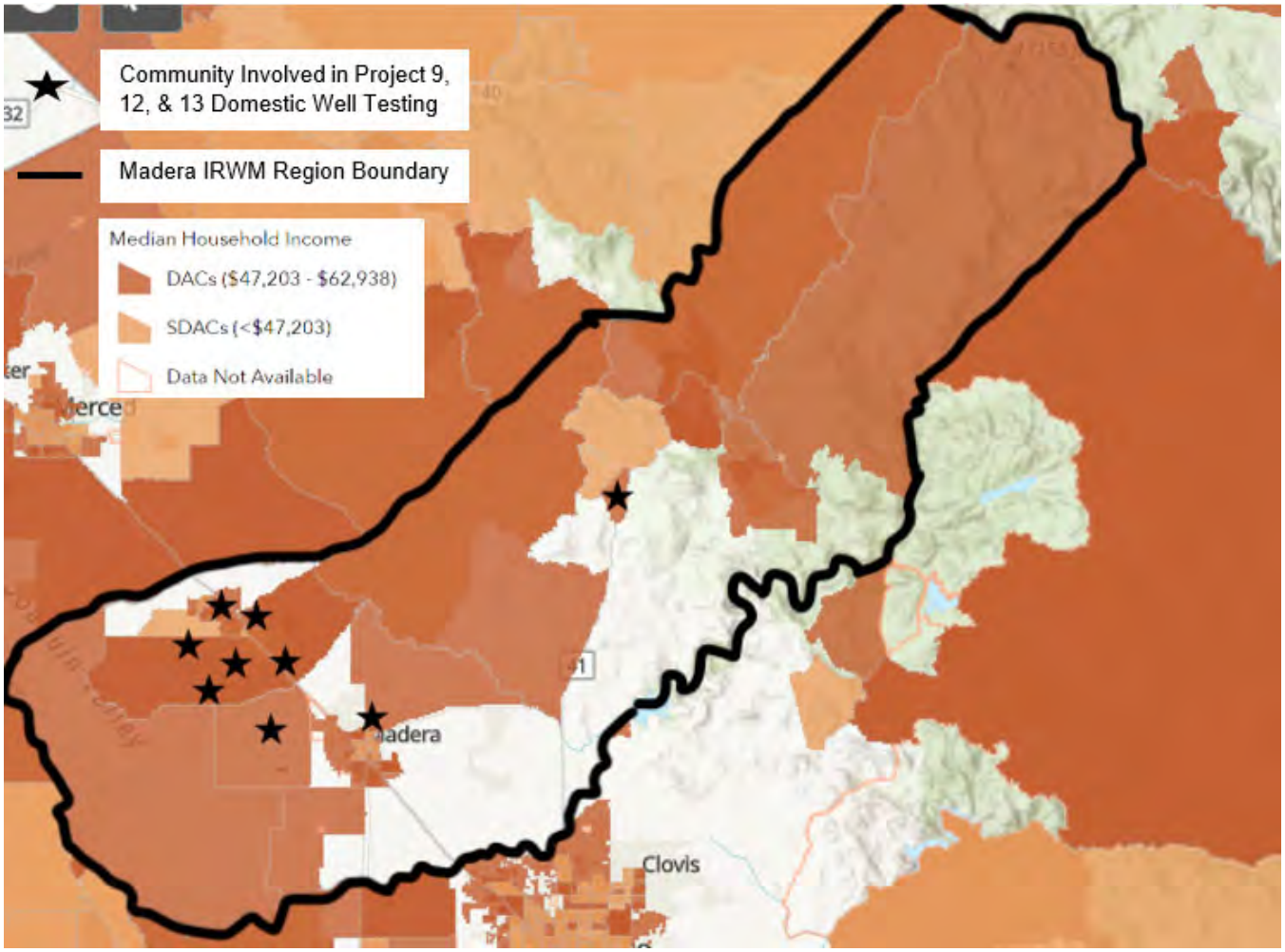


Figure 1: DACs, EDAs, and Underrepresented Communities Involved in Projects 9, 12, & 13
Source: https://gis.water.ca.gov/app/dacs/?gad_source=1&gclid=Cj0KCQjwpZWzBhC0ARIsACvjWRPacqN4RiGVfVgOVY8rR4srdixWK7-_LNVR8r7oqCdFeV0EU06tMbYaAuMcEALw_wcB

Involvement Activity Summary

Many forms of involvement activities were performed for this project, with some being more successful than others. Door-to-door canvasing was an activity performed as outreach for this project which was unsuccessful. Many of the DACs were more inclined to reject this project when door-to-door canvasing was used. Cold calling was also a technique used at the beginning of the project which resulted in 0 applications received. When the door-to-door canvasing and cold calling was unsuccessful, Facebook

advertising was used which was being seen by a lot of individuals on social media, but still not a lot of homeowners and renters were scheduling testing to be done for their domestic wells. Flyer handouts were done in partnerships with local school districts to help advertise this project which had some success and increased the number of applications received for the domestic well testing to be performed. Along with the flyer handouts, email blasts through school districts were also done. Advertising at local workshops and outreach events (e.g., County Fairs, flea markets, etc.) also proved to be successful, as the increase in applications was high after these events.

The most successful outreach activity performed was sending out mailer flyers targeting DAC zip codes. This resulted in over half of the applications received for domestic well testing. Word of mouth built on this success, as once homeowners and renters had their wells tested, they were telling friends, neighbors, and family relatives about the program. A number of homeowners and renters even had their well tested again to see if the contaminant levels dropped after the wet 2022 – 2023 winter season that California had.

Towards the end of the project, partnerships with trusted local organizations, nonprofits, and community groups were starting to form. No individual projects were developed from this project, but these partnerships will be leveraged for future projects to increase the outreach and benefit for DACs in Madera County.

Findings

Many DAC homeowners and renters are unaware of IRWM in their region. Many DAC residents have been excluded in policy setting or decision-making processes, leading to systemic inequities related to environmental hazards, socio-economic burdens, or both. These inequities can create mistrust among marginalized communities. Partnering with trusted local organizations and community groups can help foster trust and increase DAC involvement with the Madera Regional Water Management Group (RWMG) and projects they receive funding for.

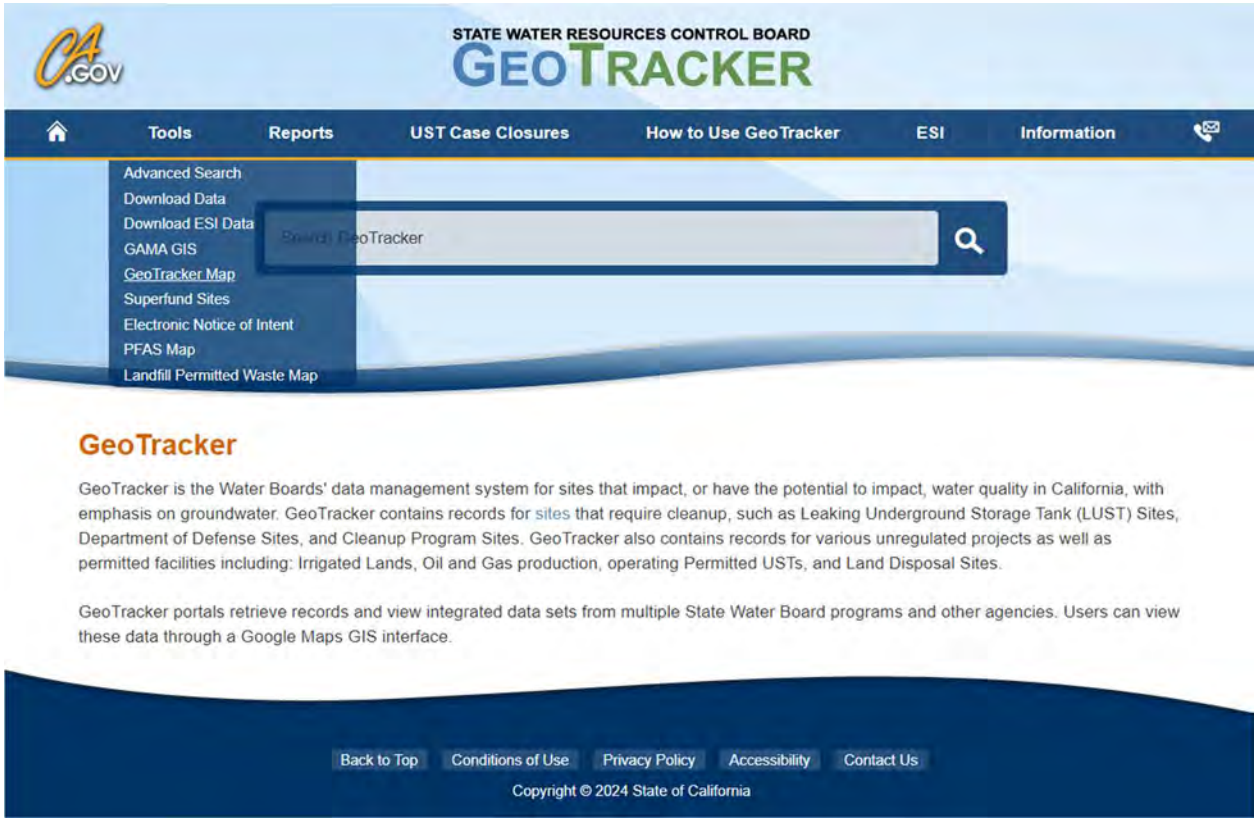
For future activities, it is recommended that DAC residents have a forum where they can voice their concerns and provide input on where assistance would be most beneficial.

Looking into the Future

For the Madera RWMG, next steps include increasing DAC participation in the RWMG monthly meetings. Several DACs already participate in the monthly meetings but increasing that participation will help increase overall awareness of the group’s function, how the community can benefit, and will also benefit the success of the Madera RWMG by providing assistance to those who need it most.

Step 1: Navigate to https://geotracker.waterboards.ca.gov/

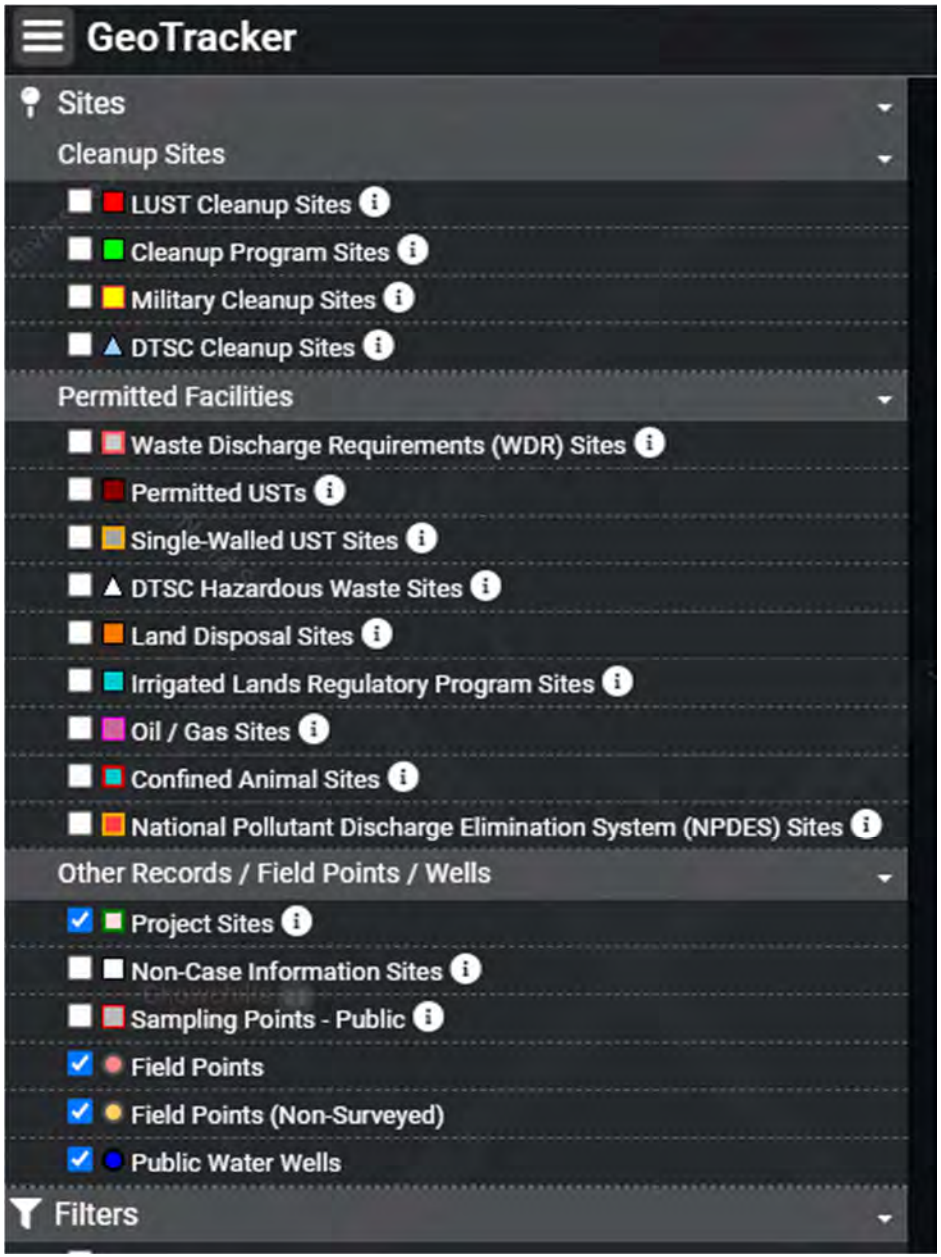
Step 2: Select "Geotracker Map" under the Tools dropdown:



Step 3: From the map, navigate to the menu at the top left-hand corner of the screen and select the following boxes:

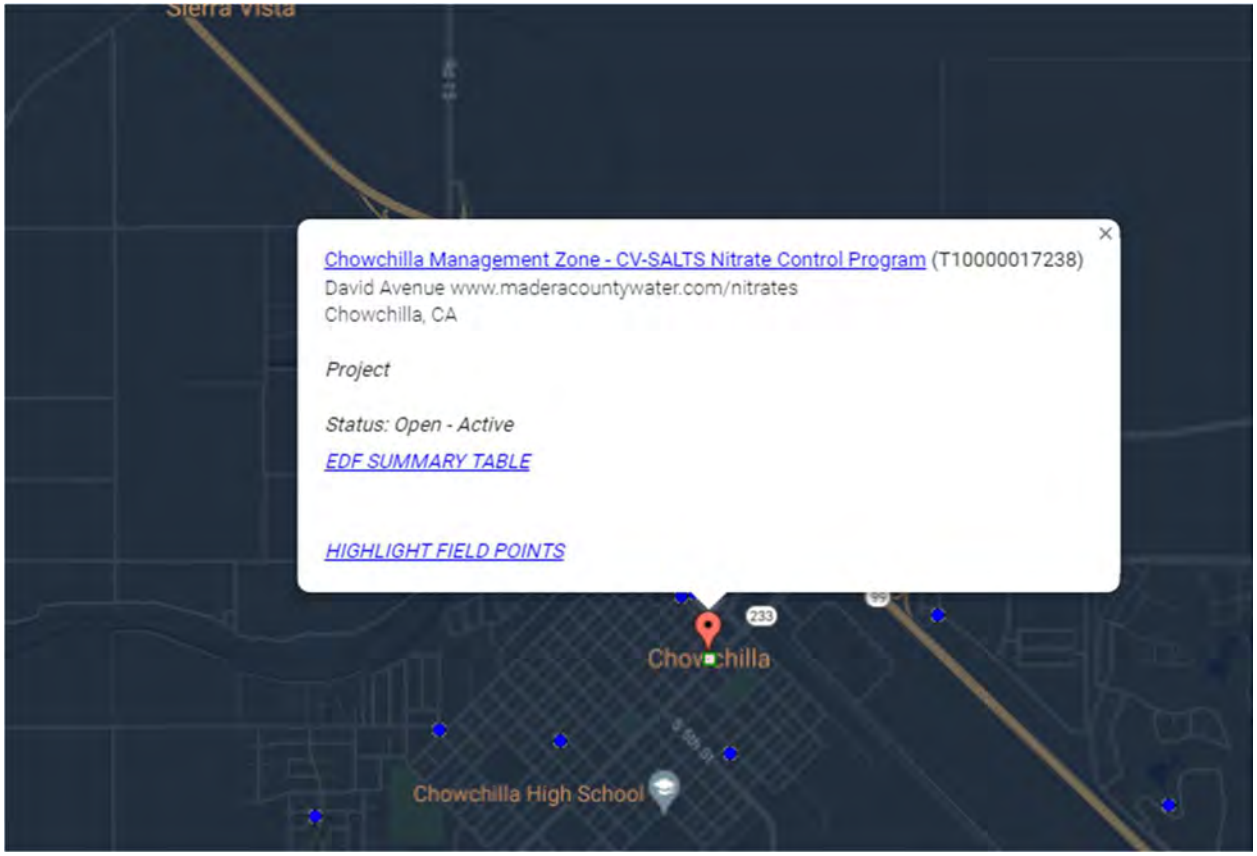
- "Project Sites"
- "Field Points"
- "Field Points (Non-Surveyed)"
- "Public Water Wells"

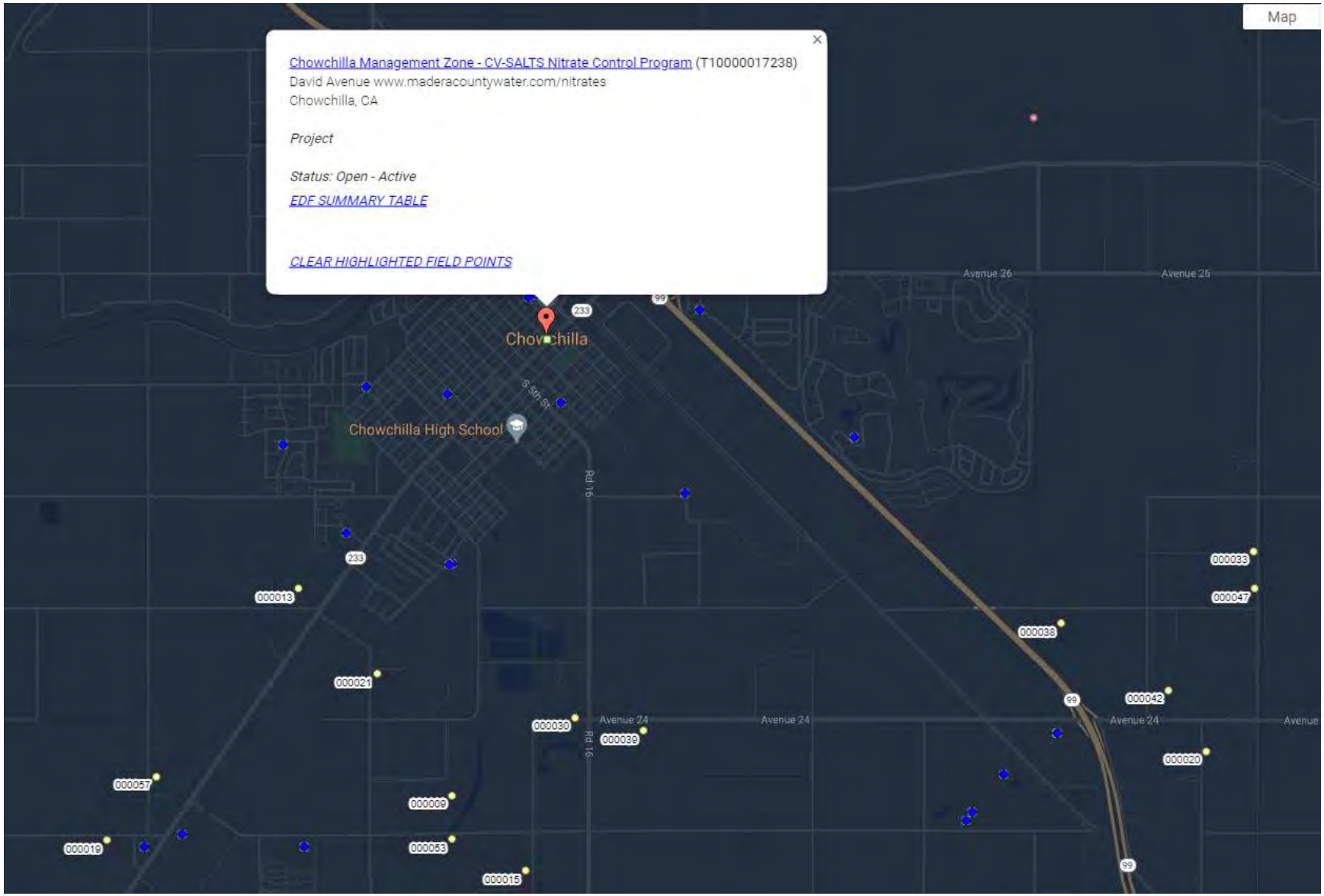
Then navigate out of the menu back to the map.


GeoTracker
Sites
Cleanup Sites
LUST Cleanup Sites
Cleanup Program Sites
Military Cleanup Sites
DTSC Cleanup Sites
Permitted Facilities
Waste Discharge Requirements (WDR) Sites
Permitted USTs
Single-Walled UST Sites
DTSC Hazardous Waste Sites
Land Disposal Sites
Irrigated Lands Regulatory Program Sites
Oil / Gas Sites
Confined Animal Sites
National Pollutant Discharge Elimination System (NPDES) Sites
Other Records / Field Points / Wells
Project Sites
Non-Case Information Sites
Sampling Points - Public
Field Points
Field Points (Non-Surveyed)
Public Water Wells
Filters

Step 4: In the project search bar at the top of the screen, enter "Chowchilla Management Zone" into the search bar. Click the project that appears below the search bar. Geotracker will navigate you to the following site, where you can make the following selections as shown in the screenshot below:

- *EDF summary table* – click this link to access analytical results for all wells associated with the Chowchilla Management Zone project.
- *Highlight field points* – to identify/label all wells with analytical sampling results under the project (see second screenshot below).




Map
Chowchilla Management Zone - CV-SALTS Nitrate Control Program (T10000017238)
David Avenue www.maderacountywater.com/nitrates
Chowchilla, CA
Project
Status: Open - Active
EDF SUMMARY TABLE
CLEAR HIGHLIGHTED FIELD POINTS
Chowchilla
Chowchilla High School
Avenue 26
Avenue 26
Avenue 24
Avenue 24
Avenue 24
Rd 16
Rd 16
233
233
99
99
99
000013
000021
000030
000038
000039
000042
000047
000053
000057
000009
000019
000015
000020
000033

Analytical results for each well can be viewed individually by clicking the marker of each well and selecting “View EDF data”:

Alternatively, GIS and analytical data can also be accessed from the following link:
https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000017238

PROGRAM SUMMARY REPORT
PROPOSITION 1, SAN JOAQUIN RIVER FUNDING AREA
DAC INVOLVEMENT GRANT
PROJECT 13, TASK 2
EXPANDED PRIVATE WELL WATER QUALITY TESTING
PROGRAM IN MADERA IRWM REGION

Introduction

On January 31, 2019, the Department of Water Resources (DWR) initially awarded a grant to the Contra Costa Water District (CCWD) under Grant Agreement #4600012737 to fund DAC involvement activities in the San Joaquin River Funding Area (SJRFA). Madera Irrigation District, as the fiscal agent for Madra County Regional Water Management Group, received funding as a Local Project Sponsor under this Grant Agreement for Project 13 (SJRFA DAC Capacity Building), Task 2 (Expanded Private Well Water Quality Testing Program in Madera Integrated Regional Water Management [IRWM] Region). The scope of Project 13 Task 2 as identified in Grant Agreement #4600012737 included updating program materials developed under Project 9 (Madera Regional Planning Project) Task 3 (Water Quality Sampling), conducting up to 150 private well water quality tests, creating a database using the information collected, analyzing the information, and preparing a Program Summary Report that includes:

1. A review of water quality sampling results
2. Outreach efforts performed
3. Review of the GIS mapping tool

Review of Water Quality Sampling Results

After reviewing the analytical results for 44 domestic well water quality samples performed under this project, Nitrate is the primary concern for drinking water within the Madera IRWM boundaries. Other constituents of concerns based on the analytical results include:

- Coliform
- Escherichia coli (E. Coli)
- 1,2,3,-Trichloropropane (1,2,3-TCP)
- Arsenic
- Lead
- Uranium

A summary of the analytical results is provided in Appendix A, and a review of these results in context with the maximum contaminant level (MCL) for each constituent is below. For the purposes of this report, “reason of concern” is defined as an analytical result that is substantially above a near zero result or non-detection but is still well below the MCL.

- For Nitrate:
    - Four analytical results exceeded the MCL (US EPA, 10 mg/L)
    - Four analytical results approached but did not exceed the MCL
    - Eight analytical results indicated a reason for concern

- For Coliform:
    - Nine analytical results exceeded the MCL (US EPA, 0 per 100 mL)

- For E. Coli:
    - One analytical result exceeded the maximum contaminant level goal (US EPA, 0 per 100 mL)

- For 1,2,3-TCP:
    - One analytical result exceeded the MCL (CA SWRCB, 0.005 µg/L)

- For Arsenic:
    - One analytical result exceeded the MCL (US EPA, 10 µg/L)
    - Two analytical results indicated a reason for concern

- For Lead:
    - One analytical result indicated a reason for concern

- For Uranium:
    - One analytical result approached but did not exceed the MCL (US EPA, 20 pCi/L)
    - Two analytical results indicated a reason for concern

Based off this review, Point of Use systems for treatment may be the most cost effective and quickest way to address the concerns shown in the test results as a temporary solution until a permanent solution is found. Currently the State offers programs to fund water tanks at homes for water deliveries and also bottled water programs as a temporary solution, but those programs have recently experienced delays in the application processes and not all homes may qualify. Outreach through public workshops, public service announcements, community events (open house for schools, County fairs, public events like car shows, etc.) are the most effective way to reach a broad audience in order to spread awareness about the type of contaminants commonly found in drinking water supplied by privately owned domestic wells that are untreated.

Outreach Efforts Performed

During the project, many forms of outreach activities were performed. While some proved to be more effective than others, people were still contacted and notified about the project and the benefits that households can gain from participation. Successful outreach activities performed

under this grant included flyers sent to households via mail, word of mouth, partnerships with local organizations, nonprofits, and community groups, booths at outreach events (County fairs, flea markets, community events, etc.), and local free workshops.

Review of the GIS Mapping Tool

Laboratory analytical results were uploaded to GeoTracker[1], the State Water Resources Control Board's data management system for sites that impact, or have the potential to impact, water quality in California, with an emphasis on groundwater. These analytical results can be accessed and viewed spatially using the geographical information system (GIS) interface on GeoTracker. Step-by-step instructions on how to access this data are included in Appendix B.

Conclusion

After completion of this project, it is still evident that more domestic well testing is needed throughout the Madera IRWM boundary to get a firmer grasp on the contaminants that households deal with in their drinking water when it comes to domestic wells, and also to educate households on the possible contaminants they are being exposed to and the potential health risks themselves and family members may experience (whether immediate or later on in life). Many projects are currently addressing these issues throughout the state, but a more tailored project for the Madera IRWM region would be greatly beneficial and allow a more "welcomed" approach for outreach that proved to be effective during this project.

[1] https://geotracker.waterboards.ca.gov/

Appendix A: Project 13 Task 2 Well Analytical Results

							Maximum Contaminant Level														
							10 mg/L	4 mg/L	0 per 100 mL	0 per 100 mL (MCLG)	0.005 µg/L	10 µg/L	15 µg/L	1.3 mg/L	0.1 mg/L	20 pCi/L	Under review	0.2 µg/L	0.05 µg/L	
Test Number	Last Name	First Name	Address	City	State	Zip Code	Nitrate mg/L	Residual Chlorine mg/L	Coliform per 100 mL	E.Coli per 100 mL	1,2,3-TCP µg/L	Arsenic µg/L	Lead µg/L	Copper mg/L	Chromium mg/L	Uranium pCi/L	Perchlorate µg/L	DBCP µg/L	EDB µg/L	Master File Pages
1	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	13.4	-	-	ND	ND	1.0	-	-	0.003	1.5	ND	ND	ND	2 - 13
2	Delager	Art	8911 Bliss Rd	Chowchilla	CA	93610	2.4	0	>2419.6	ND	ND	14.0	0.4	ND	ND	2.4	ND	ND	ND	14 - 16
3	Troost	Karly	9762 Avenue 15	Madera	CA	93636	5.5	0	ND	ND	ND	2.1	0.2	ND	ND	2.5	ND	ND	ND	17 - 20
4	Holt	Jennifer	13508 Avenue 20	Chowchilla	CA	93610	10.4	0	15.0	ND	ND	2.4	ND	ND	ND	7.6	ND	ND	ND	17 - 20
5	Rico	Isabell	20875 Avenue 24	Chowchilla	CA	93610	0.5	0	ND	ND	ND	5.2	ND	ND	ND	0.3	ND	ND	ND	21 - 23
6	Vera	Jose & Rosa	24194 Road 24	Chowchilla	CA	93610	1.9	0	ND	ND	ND	14	0.4	ND	ND	0.5	ND	ND	ND	24 - 26
7	Garcia	Myrna	21621 Road 19 1/2	Chowchilla	CA	93610	2.9	0	ND	ND	ND	1.3	ND	ND	ND	0.2	ND	ND	ND	27 - 29
8	Carvahlo	Frank	13750 Avenue 23 1/2	Chowchilla	CA	93610	5.3	0	ND	ND	ND	1.3	9.2	ND	ND	1.6	ND	ND	ND	30 - 32
9	Garlick	Bill	22601 Avenue 18	Chowchilla	CA	93610	4.8	0	ND	ND	ND	2.5	ND	ND	ND	0.4	ND	ND	ND	33 - 35
10	Harry	Matt	15357 Avenue 23 1/2	Chowchilla	CA	93610	2.9	0	ND	ND	ND	1.5	0.1	ND	ND	0.4	ND	ND	ND	36 - 38
11	Hayes	Courtney	37376 Romero Ln	Coarsegold	CA	93727	ND	0	ND	ND	ND	6.3	ND	ND	ND	1.8	ND	ND	ND	39 - 41
12	Cipriani	Roy	26936 Greentree Avenue	Madera	CA	93638	2.0	0	ND	ND	ND	1.1	0.6	ND	ND	ND	ND	ND	ND	42 - 44
13	George	Christopher	14647 Avenue 24 1/2	Chowchilla	CA	93610	4.0	0	ND	ND	ND	1.3	0.1	ND	ND	0.6	ND	ND	ND	45 - 47
14	Quiroz	Jose	17762 Avenue 17 1/2	Madera	CA	93637	10.9	0	2.0	ND	0.044	1.2	0.2	ND	ND	1.1	ND	ND	ND	48 - 50
15	Sands	Brian	17323 Anaconda	Madera	CA	93636	0.3	0	3.1	ND	ND	1.7	0.4	ND	ND	0.1	ND	ND	ND	51 - 53
16	Tapia	Mary	15120 Thiel Ct	Chowchilla	CA	93610	9.1	0	ND	ND	ND	1.0	0.1	ND	ND	2.1	ND	ND	ND	54 - 56
17	Vidauri	Santiago	25251 Road 10	Chowchilla	CA	93610	3.0	0	ND	ND	ND	2.7	0.4	ND	ND	0.5	ND	ND	ND	57 - 59
18	Kalpakoff	John	13491 Highway 152	Chowchilla	CA	93610	12.3	0	>2419.6	9.8	ND	3.2	4.3	0.1	0.0115	6.2	ND	ND	ND	60 - 62
19	Perez	Albert	23765 Road 18 3/4	Chowchilla	CA	93610	1.5	0	ND	ND	ND	1.8	0.2	ND	0.0105	0.2	ND	ND	ND	63 - 65
20	Soares	Al	23306 Road 15 3/4	Chowchilla	CA	93610	8.7	0	ND	ND	ND	1.2	0.7	ND	ND	2.7	ND	ND	ND	66 - 68
21	Soriano	Erika	23420 Road 13	Chowchilla	CA	93610	5.3	0	ND	ND	ND	1.2	0.1	ND	ND	0.6	ND	ND	ND	69 - 71
22	Waybright	Anthony	26765 Avenue 18 1/4	Madera	CA	93638	2.5	0	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	72 - 74
23	Aylsworth	Will	22314 Road 13	Chowchilla	CA	93610	8.0	0	ND	ND	ND	0.8	0.1	0.1	ND	2.1	ND	ND	ND	75 - 77
24	Espinola	Marvin	23874 Road 16	Chowchilla	CA	93610	2.5	0	ND	ND	ND	0	0.2	ND	ND	0.1	ND	ND	ND	78 - 80
25	Yanez	Kerry	21680 Road 16	Chowchilla	CA	93610	4.0	0	23.1	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	81 - 83
26	Slavik	Yeremiya	18595 Road 21	Madera	CA	93637	6.2	0	ND	ND	ND	2.6	0.4	ND	ND	0.3	ND	0.02	ND	84 - 86
27	Slavik	Yeremiya	19623 Fairlane Court	Chowchilla	CA	93610	0.6	0	ND	ND	ND	3	1.6	ND	ND	0.1	ND	ND	ND	87 - 89
28	Saechao	Nai	18373 Avenue 22	Chowchilla	CA	93610	2.0	0	6.3	ND	ND	0.9	0.3	ND	ND	0.1	ND	ND	ND	90 - 92
29	Sukhjeet	Kaur	21119 Fairmead Blvd	Chowchilla	CA	93610	2.0	0	ND	ND	ND	4.8	ND	ND	ND	ND	ND	ND	ND	93 - 95
30	Chapman	Bruce	21582 Road 10	Chowchilla	CA	93610	0.6	0	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	96 - 98
31	Davis	Allan	24658 Road 19	Chowchilla	CA	93610	0.4	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	99 - 101
32	Hutson	Mark	14465 Avenue 18 1/2	Chowchilla	CA	93610	5.3	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	102 - 104
33	Hutson	Mark	13534 Avenue 19 1/2	Chowchilla	CA	93610	7.7	0	7.4	ND	ND	ND	ND	ND	ND	15.0	ND	ND	ND	105 - 107
34	Tapia	Mary	15120 Thiel Ct	Chowchilla	CA	93610	9.6	-	-	-	-	-	-	-	-	-	-	-	-	108 - 110
35	Bufford	James	21200 Road 20	Chowchilla	CA	93610	ND	0	ND	ND	ND	4.6	ND	ND	ND	ND	ND	ND	ND	111 - 113
36	Snyder	Lori	16268 Avenue 24	Chowchilla	CA	93610	2.9	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	114 - 116
37	Carapinha	Gloria	18188 Avenue 24 1/2	Chowchilla	CA	93610	ND	0	ND	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND	117 - 119
38	Chavira	Monica	25198 Knoll Way	Madera	CA	93638	3.6	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120 - 122
39	Turner	Denise	24177 Road 18 1/2	Chowchilla	CA	93610	7.7	0	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	123 - 125
40	Orozco	Airiadne	17088 S Avon Place	Madera	CA	93638	2.7	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	126 - 128
41	Freitas	Anthony	24596 Road 19	Chowchilla	CA	93610	5.3	0	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	129 - 131
42	Capehart	James	11858 Avenue 22	Chowchilla	CA	93610	0.8	0	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	132 - 134
43	Slavik	Yeremiya	18595 Road 21	Madera	CA	93637	0.6	0	43.9	ND	ND	6.1	1.4	ND	ND	ND	ND	ND	ND	135 - 137
44	Reyes	Francisco	18595 Road 21	Madera	CA	93637	2.7	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	138 - 140

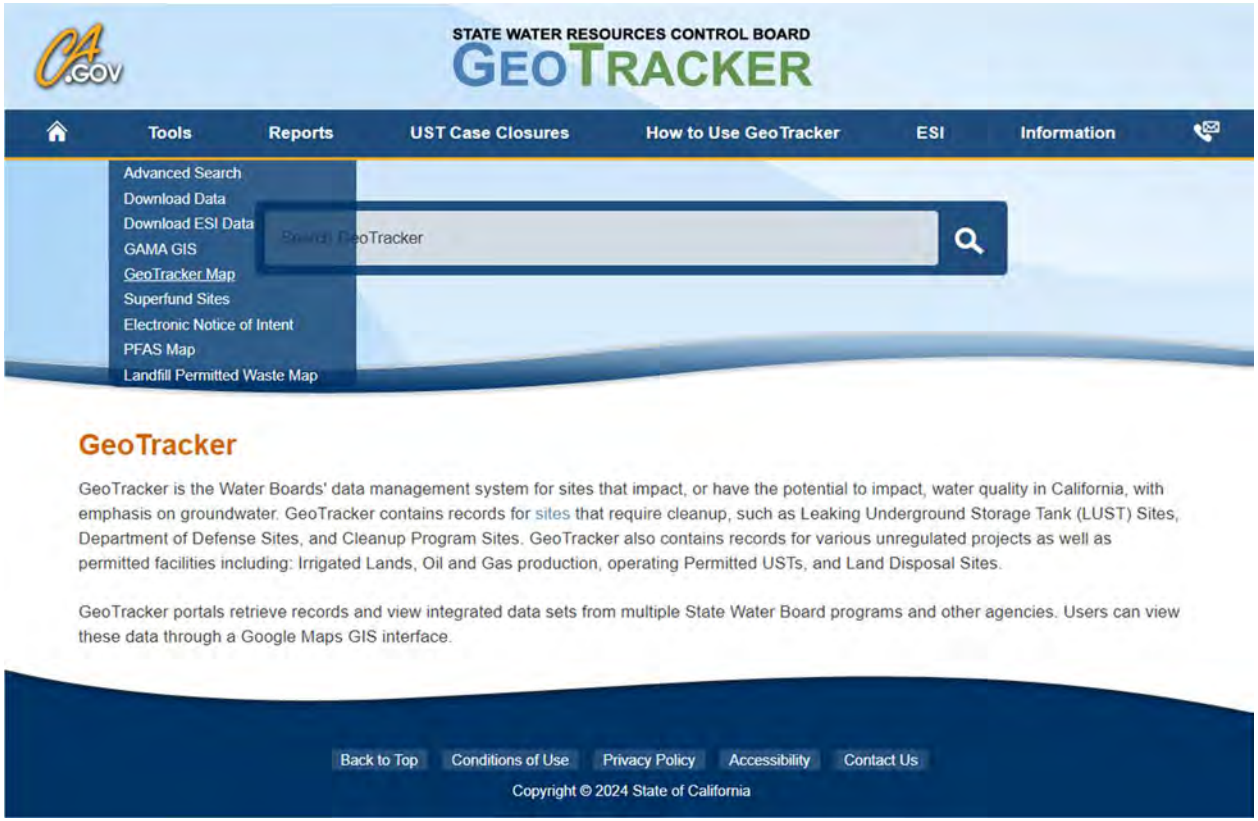
Legend

AT OR ABOVE SAFE THRESHOLD	APPROACHING ABOVE SAFE THRESHOLD	REASON FOR CONCERN

Appendix B: GeoTracker Access Instructions

Step 1: Navigate to https://geotracker.waterboards.ca.gov/

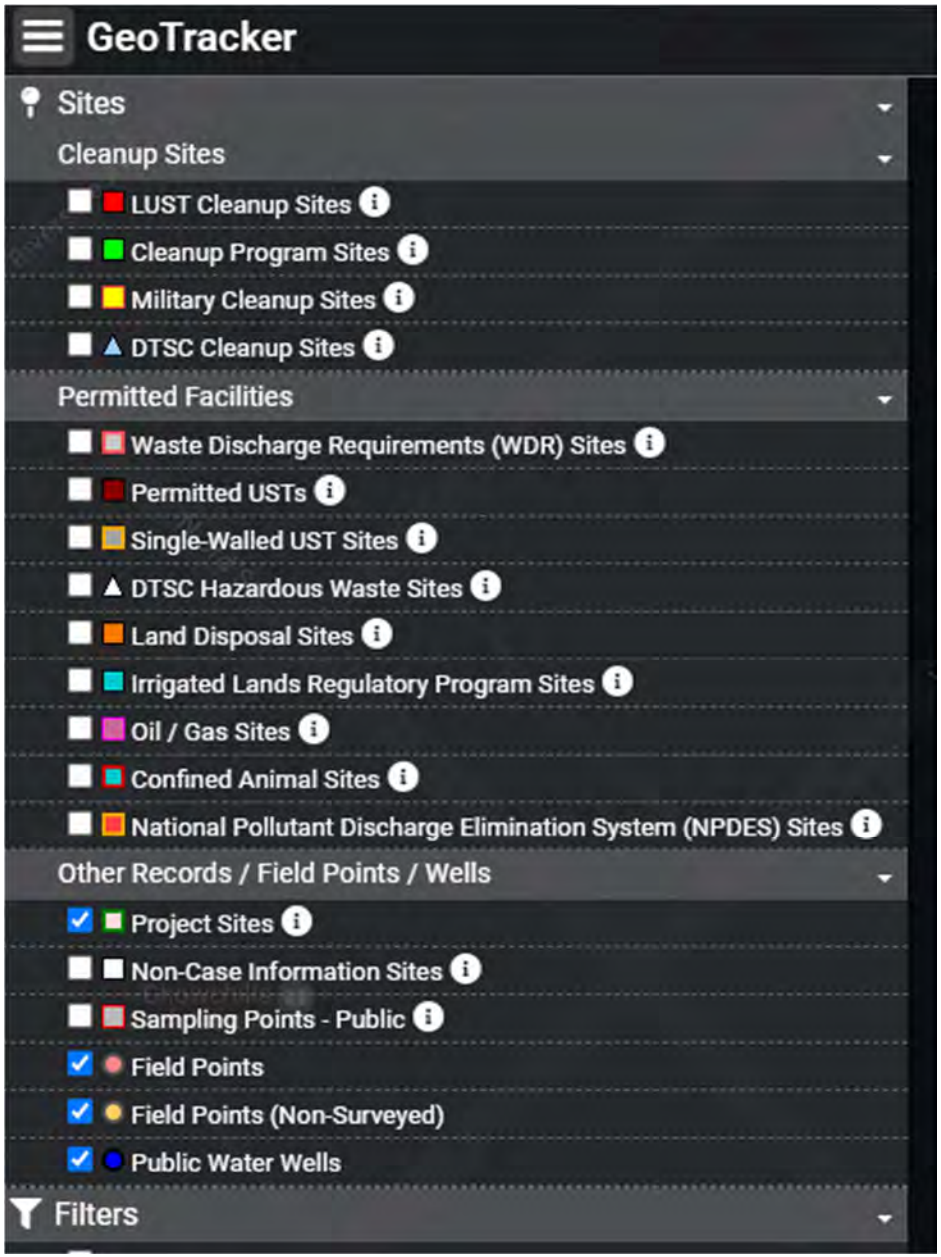
Step 2: Select "Geotracker Map" under the Tools dropdown:



Step 3: From the map, navigate to the menu at the top left-hand corner of the screen and select the following boxes:

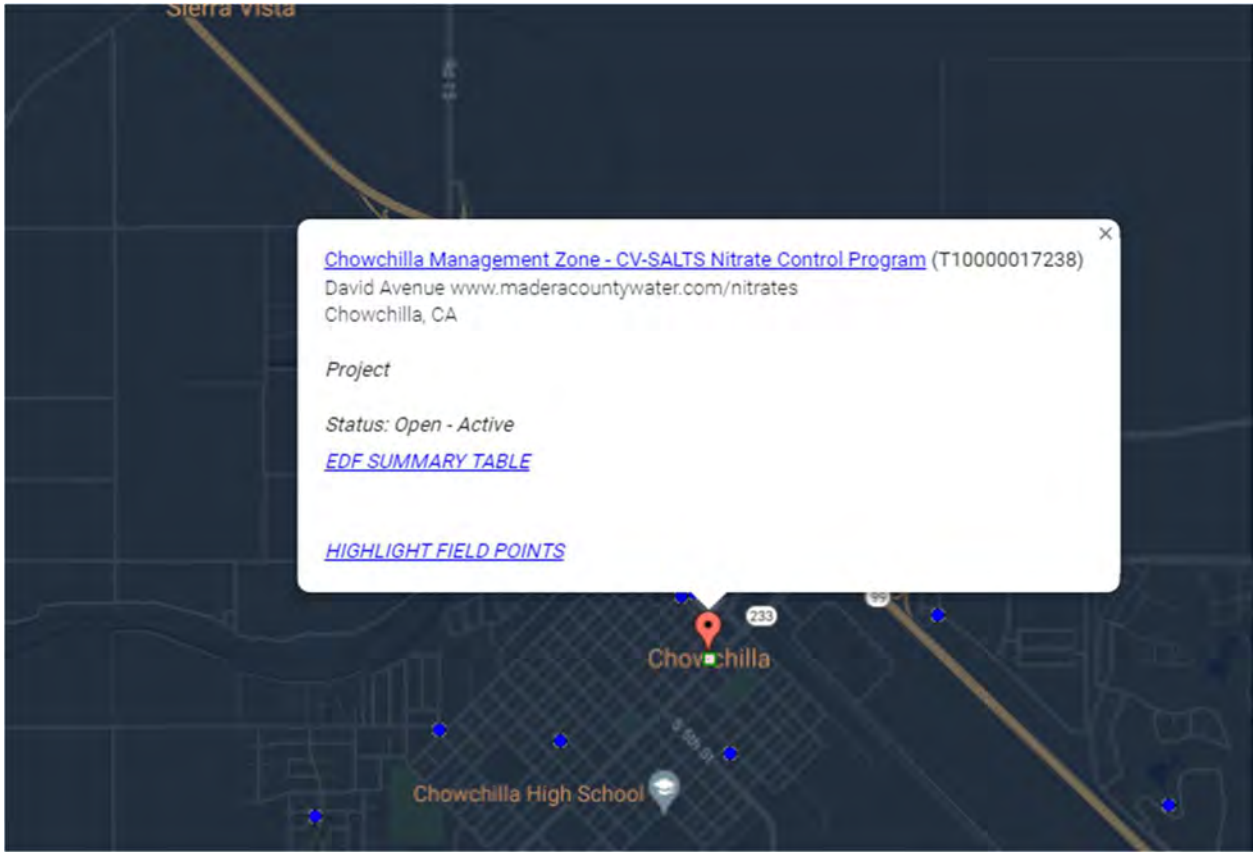
- "Project Sites"
- "Field Points"
- "Field Points (Non-Surveyed)"
- "Public Water Wells"

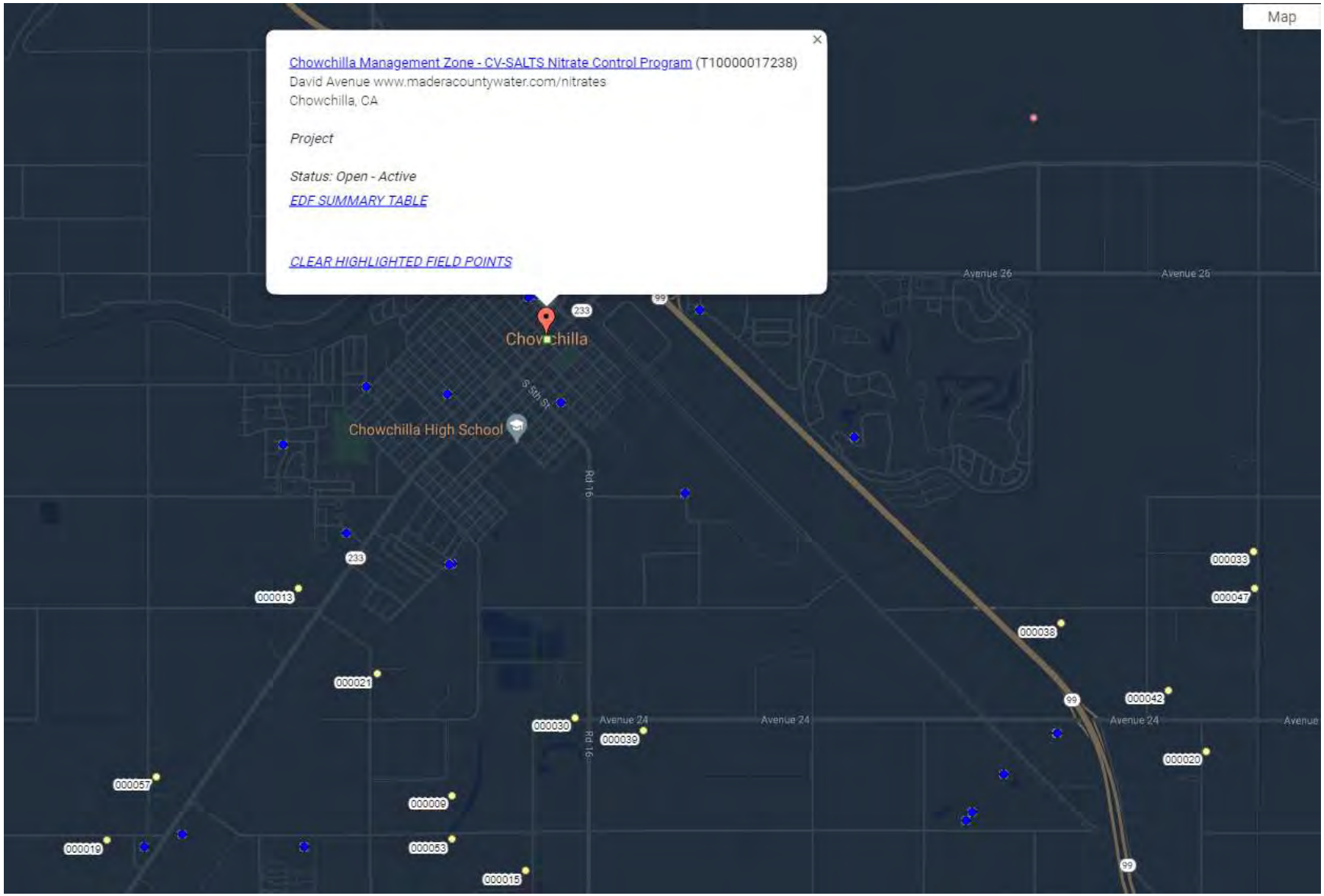
Then navigate out of the menu back to the map.


GeoTracker
Sites
Cleanup Sites
LUST Cleanup Sites
Cleanup Program Sites
Military Cleanup Sites
DTSC Cleanup Sites
Permitted Facilities
Waste Discharge Requirements (WDR) Sites
Permitted USTs
Single-Walled UST Sites
DTSC Hazardous Waste Sites
Land Disposal Sites
Irrigated Lands Regulatory Program Sites
Oil / Gas Sites
Confined Animal Sites
National Pollutant Discharge Elimination System (NPDES) Sites
Other Records / Field Points / Wells
Project Sites
Non-Case Information Sites
Sampling Points - Public
Field Points
Field Points (Non-Surveyed)
Public Water Wells
Filters

Step 4: In the project search bar at the top of the screen, enter "Chowchilla Management Zone" into the search bar. Click the project that appears below the search bar. Geotracker will navigate you to the following site, where you can make the following selections as shown in the screenshot below:

- *EDF summary table* – click this link to access analytical results for all wells associated with the Chowchilla Management Zone project.
- *Highlight field points* – to identify/label all wells with analytical sampling results under the project (see second screenshot below).




Map
Chowchilla Management Zone - CV-SALTS Nitrate Control Program (T10000017238)
David Avenue www.maderacountywater.com/nitrates
Chowchilla, CA
Project
Status: Open - Active
EDF SUMMARY TABLE
CLEAR HIGHLIGHTED FIELD POINTS
Chowchilla
Chowchilla High School
Avenue 26
Avenue 26
Avenue 24
Avenue 24
Avenue 24
Rd 16
Rd 16
233
233
99
99
99
000013
000021
000030
000038
000039
000042
000047
000053
000057
000009
000019
000015
000020
000033

Analytical results for each well can be viewed individually by clicking the marker of each well and selecting “View EDF data”:

Alternatively, GIS and analytical data can also be accessed from the following link:
https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000017238

							Maximum Contaminant Level														
							10 mg/L	4 mg/L	0 per 100 mL	0 per 100 mL (MCLG)	0.005 µg/L	10 µg/L	15 µg/L	1.3 mg/L	0.1 mg/L	20 pCi/L	Under review	0.2 µg/L	0.05 µg/L	
Test Number	Last Name	First Name	Address	City	State	Zip Code	Nitrate mg/L	Residual Chlorine mg/L	Coliform per 100 mL	E.Coli per 100 mL	1,2,3-TCP µg/L	Arsenic µg/L	Lead µg/L	Copper mg/L	Chromium mg/L	Uranium pCi/L	Perchlorate µg/L	DBCP µg/L	EDB µg/L	Master File Pages
1	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	13.4	-	-	ND	ND	1.0	-	-	0.003	1.5	ND	ND	ND	2 - 13
2	Delager	Art	8911 Bliss Rd	Chowchilla	CA	93610	2.4	0	>2419.6	ND	ND	14.0	0.4	ND	ND	2.4	ND	ND	ND	14 - 16
3	Troost	Karly	9762 Avenue 15	Madera	CA	93636	5.5	0	ND	ND	ND	2.1	0.2	ND	ND	2.5	ND	ND	ND	17 - 20
4	Holt	Jennifer	13508 Avenue 20	Chowchilla	CA	93610	10.4	0	15.0	ND	ND	2.4	ND	ND	ND	7.6	ND	ND	ND	17 - 20
5	Rico	Isabell	20875 Avenue 24	Chowchilla	CA	93610	0.5	0	ND	ND	ND	5.2	ND	ND	ND	0.3	ND	ND	ND	21 - 23
6	Vera	Jose & Rosa	24194 Road 24	Chowchilla	CA	93610	1.9	0	ND	ND	ND	14	0.4	ND	ND	0.5	ND	ND	ND	24 - 26
7	Garcia	Myrna	21621 Road 19 1/2	Chowchilla	CA	93610	2.9	0	ND	ND	ND	1.3	ND	ND	ND	0.2	ND	ND	ND	27 - 29
8	Carvahlo	Frank	13750 Avenue 23 1/2	Chowchilla	CA	93610	5.3	0	ND	ND	ND	1.3	9.2	ND	ND	1.6	ND	ND	ND	30 - 32
9	Garlick	Bill	22601 Avenue 18	Chowchilla	CA	93610	4.8	0	ND	ND	ND	2.5	ND	ND	ND	0.4	ND	ND	ND	33 - 35
10	Harry	Matt	15357 Avenue 23 1/2	Chowchilla	CA	93610	2.9	0	ND	ND	ND	1.5	0.1	ND	ND	0.4	ND	ND	ND	36 - 38
11	Hayes	Courtney	37376 Romero Ln	Coarsegold	CA	93727	ND	0	ND	ND	ND	6.3	ND	ND	ND	1.8	ND	ND	ND	39 - 41
12	Cipriani	Roy	26936 Greentree Avenue	Madera	CA	93638	2.0	0	ND	ND	ND	1.1	0.6	ND	ND	ND	ND	ND	ND	42 - 44
13	George	Christopher	14647 Avenue 24 1/2	Chowchilla	CA	93610	4.0	0	ND	ND	ND	1.3	0.1	ND	ND	0.6	ND	ND	ND	45 - 47
14	Quiroz	Jose	17762 Avenue 17 1/2	Madera	CA	93637	10.9	0	2.0	ND	0.044	1.2	0.2	ND	ND	1.1	ND	ND	ND	48 - 50
15	Sands	Brian	17323 Anaconda	Madera	CA	93636	0.3	0	3.1	ND	ND	1.7	0.4	ND	ND	0.1	ND	ND	ND	51 - 53
16	Tapia	Mary	15120 Thiel Ct	Chowchilla	CA	93610	9.1	0	ND	ND	ND	1.0	0.1	ND	ND	2.1	ND	ND	ND	54 - 56
17	Vidauri	Santiago	25251 Road 10	Chowchilla	CA	93610	3.0	0	ND	ND	ND	2.7	0.4	ND	ND	0.5	ND	ND	ND	57 - 59
18	Kalpakoff	John	13491 Highway 152	Chowchilla	CA	93610	12.3	0	>2419.6	9.8	ND	3.2	4.3	0.1	0.0115	6.2	ND	ND	ND	60 - 62
19	Perez	Albert	23765 Road 18 3/4	Chowchilla	CA	93610	1.5	0	ND	ND	ND	1.8	0.2	ND	0.0105	0.2	ND	ND	ND	63 - 65
20	Soares	Al	23306 Road 15 3/4	Chowchilla	CA	93610	8.7	0	ND	ND	ND	1.2	0.7	ND	ND	2.7	ND	ND	ND	66 - 68
21	Soriano	Erika	23420 Road 13	Chowchilla	CA	93610	5.3	0	ND	ND	ND	1.2	0.1	ND	ND	0.6	ND	ND	ND	69 - 71
22	Waybright	Anthony	26765 Avenue 18 1/4	Madera	CA	93638	2.5	0	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	72 - 74
23	Aylsworth	Will	22314 Road 13	Chowchilla	CA	93610	8.0	0	ND	ND	ND	0.8	0.1	0.1	ND	2.1	ND	ND	ND	75 - 77
24	Espinola	Marvin	23874 Road 16	Chowchilla	CA	93610	2.5	0	ND	ND	ND	0	0.2	ND	ND	0.1	ND	ND	ND	78 - 80
25	Yanez	Kerry	21680 Road 16	Chowchilla	CA	93610	4.0	0	23.1	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	81 - 83
26	Slavik	Yeremiya	18595 Road 21	Madera	CA	93637	6.2	0	ND	ND	ND	2.6	0.4	ND	ND	0.3	ND	0.02	ND	84 - 86
27	Slavik	Yeremiya	19623 Fairlane Court	Chowchilla	CA	93610	0.6	0	ND	ND	ND	3	1.6	ND	ND	0.1	ND	ND	ND	87 - 89
28	Saechao	Nai	18373 Avenue 22	Chowchilla	CA	93610	2.0	0	6.3	ND	ND	0.9	0.3	ND	ND	0.1	ND	ND	ND	90 - 92
29	Sukhjeet	Kaur	21119 Fairmead Blvd	Chowchilla	CA	93610	2.0	0	ND	ND	ND	4.8	ND	ND	ND	ND	ND	ND	ND	93 - 95
30	Chapman	Bruce	21582 Road 10	Chowchilla	CA	93610	0.6	0	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	96 - 98
31	Davis	Allan	24658 Road 19	Chowchilla	CA	93610	0.4	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	99 - 101
32	Hutson	Mark	14465 Avenue 18 1/2	Chowchilla	CA	93610	5.3	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	102 - 104
33	Hutson	Mark	13534 Avenue 19 1/2	Chowchilla	CA	93610	7.7	0	7.4	ND	ND	ND	ND	ND	ND	15.0	ND	ND	ND	105 - 107
34	Tapia	Mary	15120 Thiel Ct	Chowchilla	CA	93610	9.6	-	-	-	-	-	-	-	-	-	-	-	-	108 - 110
35	Bufford	James	21200 Road 20	Chowchilla	CA	93610	ND	0	ND	ND	ND	4.6	ND	ND	ND	ND	ND	ND	ND	111 - 113
36	Snyder	Lori	16268 Avenue 24	Chowchilla	CA	93610	2.9	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	114 - 116
37	Carapinha	Gloria	18188 Avenue 24 1/2	Chowchilla	CA	93610	ND	0	ND	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND	117 - 119
38	Chavira	Monica	25198 Knoll Way	Madera	CA	93638	3.6	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120 - 122
39	Turner	Denise	24177 Road 18 1/2	Chowchilla	CA	93610	7.7	0	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	123 - 125
40	Orozco	Airiadne	17088 S Avon Place	Madera	CA	93638	2.7	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	126 - 128
41	Freitas	Anthony	24596 Road 19	Chowchilla	CA	93610	5.3	0	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	129 - 131
42	Capehart	James	11858 Avenue 22	Chowchilla	CA	93610	0.8	0	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	132 - 134
43	Slavik	Yeremiya	18595 Road 21	Madera	CA	93637	0.6	0	43.9	ND	ND	6.1	1.4	ND	ND	ND	ND	ND	ND	135 - 137
44	Reyes	Francisco	18595 Road 21	Madera	CA	93637	2.7	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	138 - 140

Legend

AT OR ABOVE SAFE THRESHOLD	APPROACHING ABOVE SAFE THRESHOLD	REASON FOR CONCERN