

Thank you, Roseville!



RWEPAC

July 23, 2024

WELCOME

Introductions

- Name
- Organization
- Favorite water spot



BE WATER SMART

Agenda

- May 2024 Meeting Notes
- Local Host Presentation - Roseville
- Satellite Water Loss Detection Program
- Conservation Regulation Update
- Break
- Program Updates
- Rainplan Presentation
- Agency Announcements/Adjournment
- Lunch @ 12:30 pm





Take the CII
Program
Survey!

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Meeting Notes

- May 2024
- Approve and post online?



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Host Presentation

- Bobby and staff....take it away!



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ENVIRONMENTAL UTILITIES

Roseville Water

Overview
July 2024



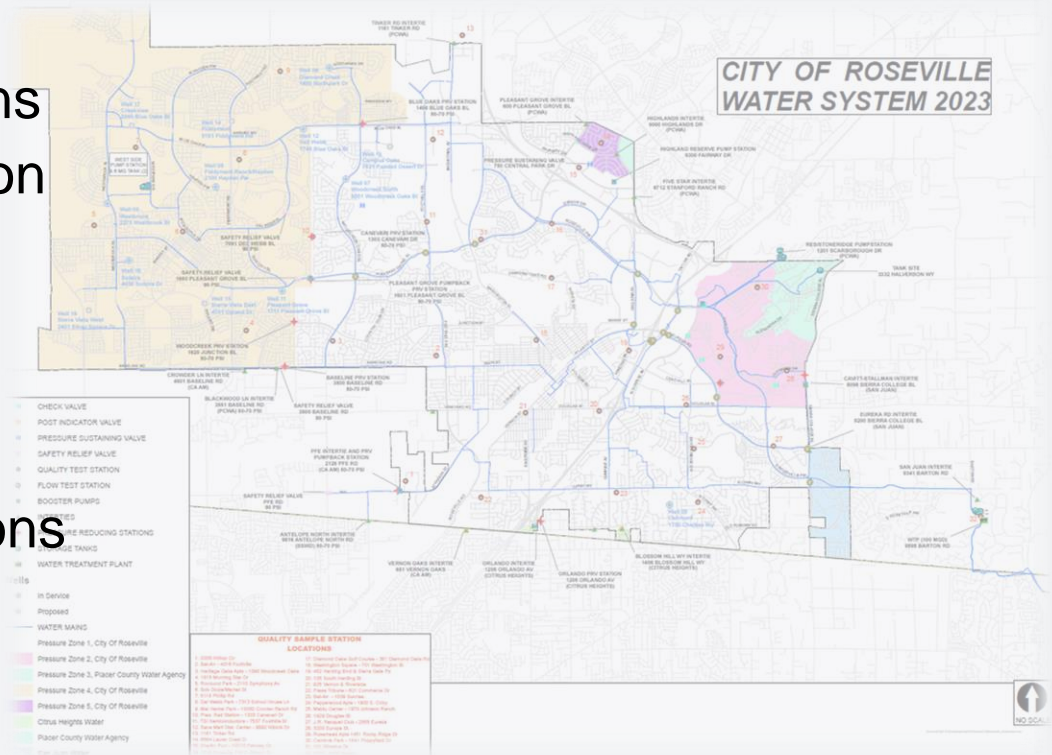
Water Treatment Plant



- Built in 1969
- 3 Expansions
- Capacity: 100 Million Gallons / Day
- 24 hour / day operation
- Avg. Annual Production = 30,000 AF
- Highest Avg. Daily Prod in July 2023 = 127 AF or 41,372,566 Gallons

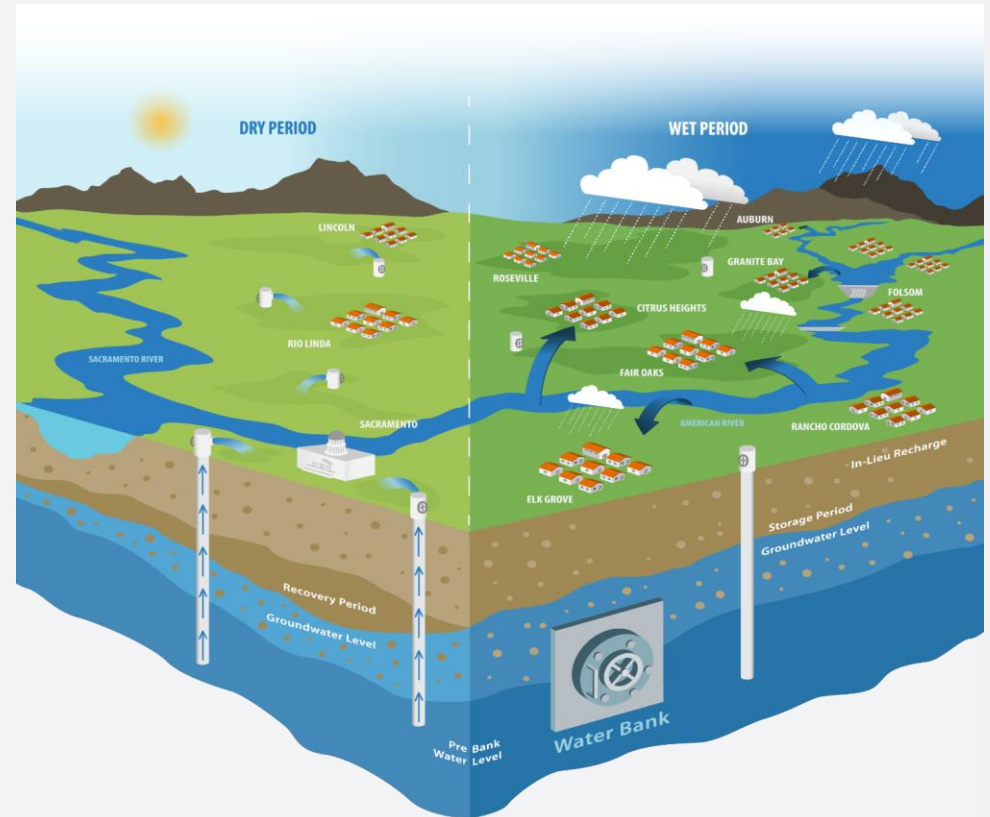
Distribution System

- 704 miles of pipe
- 53,463 service connections
- 5 storage tanks = 32 million gallons
- 17 interties
- 7 Wells (6 ASR)
- 5 pressure zones
- 8 pressure reducing stations
- 5 pump stations
- 32 water sample stations



Aquifer Storage and Recovery (ASR)

7 ASR Wells- store water below ground for future use.





Who are we?

- A diverse staff of industry experts including
 - Arborist
 - Botanist
 - Scientist
 - Landscape Contractor
 - Certified Irrigation Auditors
 - Water Distribution operators
 - Leak experts
 - With an array of educations and certifications

Water Wise House Calls

- General conservation check
 - Fixture flow rates
- Irrigation evaluation
- Landscape watering and controller education
- Written recommendations and literature



Leak Alerts - AMI

- 24 hour + constant flow alerts
- Off day / time irrigation
- Winter irrigation on / non adjusted



Data Sources: Peak Workflow and Cayenta

Today

2023						2024					
Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun

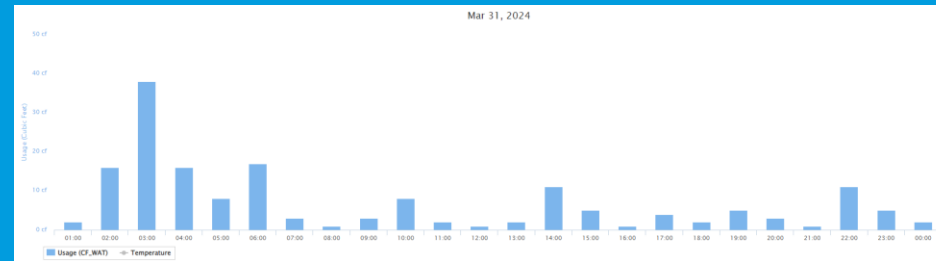
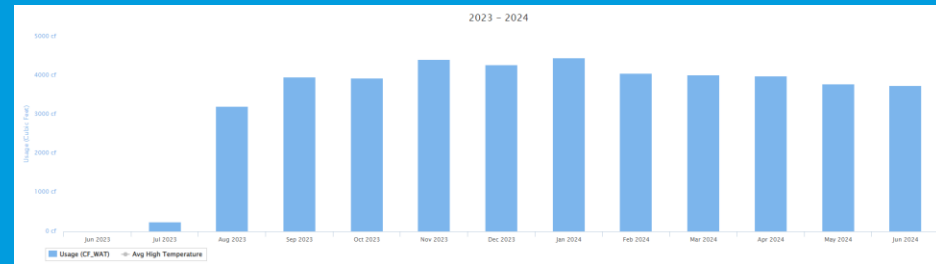
Weekly Installation Snapshot	Electric Commercial	Electric Residential	Water Commercial and Residential
Week 44: Completed Installs	51	COMPLETE	1664
Week 45: Planned Installs	100	COMPLETE	COMPLETE

Full Deployment Installation Summary	
Electric Commercial	7,015
Electric Residential	58,092
Total Completed Electric	65,107

Total Completed Water	49,031
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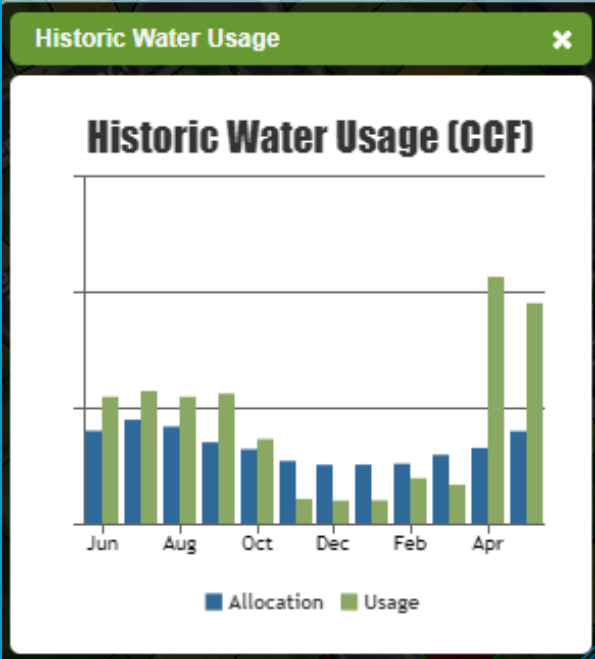
Full Deployment Meter Installation Status
(Residential and Commercial)
As of 5/14/2024





High Use Residential

- Water View
- Finance



WELO

- Plan check
- In field inspection prior to final
- On site education for contractors
- City specific Audit form
- Working on updates to the code and website
- All worker 2's certified auditors



Customer Information

Billing Address
THE VILLAGE
PO BOX 83031
IRVINE, CA 92602-6101319

ADDRID 789
Account 2023986
Last Field Check 6/4/18

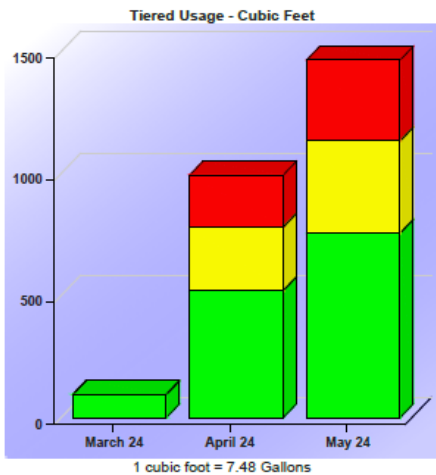
Irrigated Parcel Area in Square Feet

TurfArea (sq. ft.): 0
Irrigated Non-Turf Area (sq. ft.): 1,847
Total Irrigated Area (sq. ft.): 1,847
Site Address: 321 PRINCETON CT
Meters: CAYENTA# METER_TP
73172430 1W

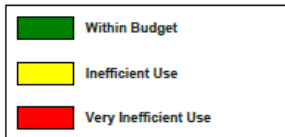
Projected Use vs Actual Use

Water Budget vs. Actual Water Usage (In Cubic Feet):

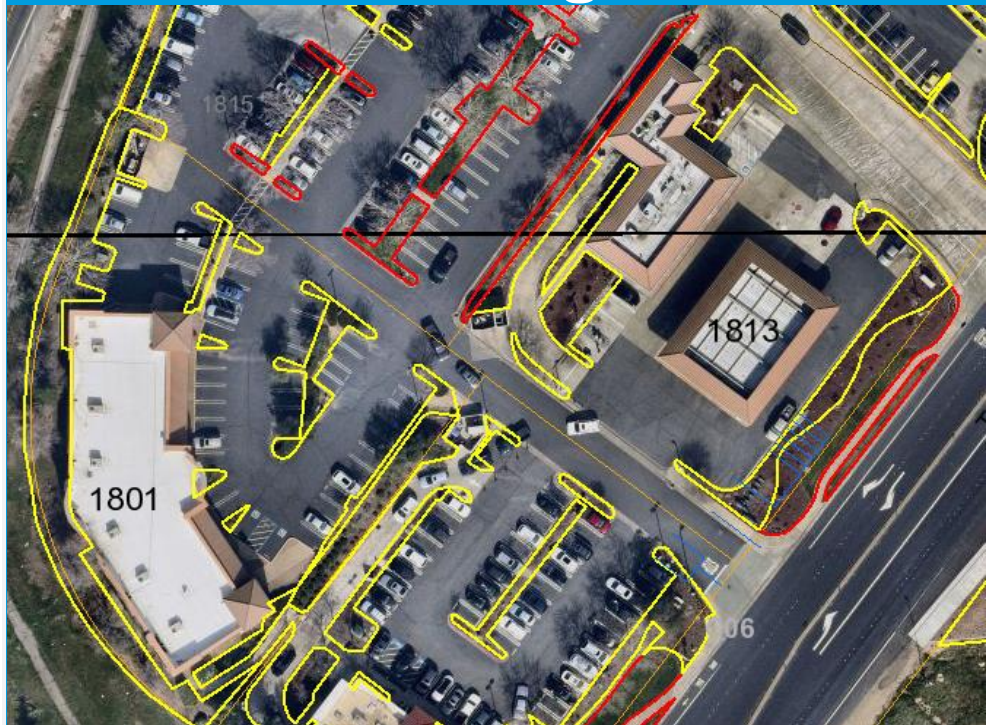
Month	Est. Budget	Usage	% of Budget	Inefficient Use
Jun 23	957	1,900	198%	943
Jul 23	1,107	2,400	217%	1,293
Aug 23	1,219	2,400	197%	1,181
Sep 23	980	2,900	296%	1,920
Oct 23	670	1,900	284%	1,230
Nov 23	503	900	179%	397
Dec 23	272	900	330%	628
Jan 24	157	100	64%	0
Feb 24	149	95	64%	0
Mar 24	285	95	33%	0
Apr 24	520	994	191%	474
May 24	756	1,465	194%	709
	7,678	18,048	212%	8,774



Last Three Months	Inefficient Use (Cu Ft)
March	0
April	474
May	709
Total	1,183



High Use – Commercial Water Budgets



Water Waste

Chapter 14.09 WATER CONSERVATION

- § 14.09.010 Short title.
- § 14.09.020 General provisions.
- § 14.09.030 Definition of water waste.
- § 14.09.040 Water conservation and drought stages.
- § 14.09.050 Groundwater use as an alternate supply.
- § 14.09.060 Basic stage restrictions.
- § 14.09.070 Stage one drought restrictions.
- § 14.09.080 Stage two drought restrictions.
- § 14.09.090 Stage three drought restrictions.
- § 14.09.100 Stage four drought restrictions.
- § 14.09.110 Stage five drought restrictions.
- § 14.09.120 Determination of drought tolerance.
- § 14.09.130 Determination of landscape water consumption reductions.
- § 14.09.140 Violations.
- § 14.09.150 Enforcement authority.
- § 14.09.160 Hearing.



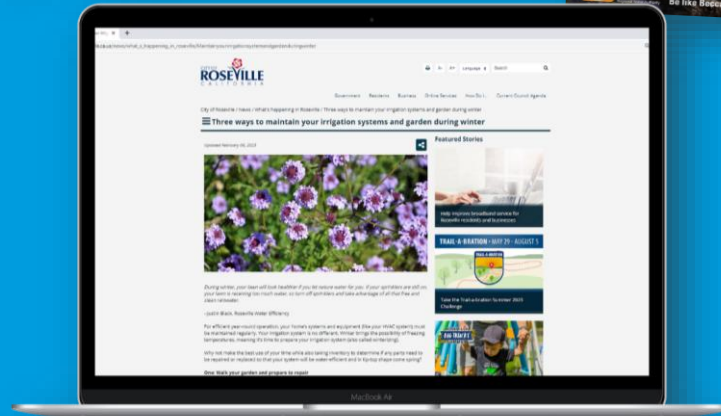
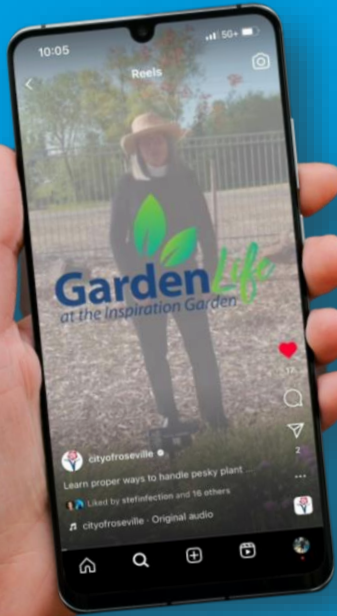
Outreach and Education

- Farmers Market at Whole Foods during the irrigation season
- About 6 hands on classes at the RUEC annually.
- Master Gardeners Fair – presentation and booth
- Roseville Earth Night
- Custom presentations for HOA's and groups by request



Marketing and Outreach

- Research
- Social Media
- Ad Campaigns
- Bill Inserts
- Newsletter Articles
- Events

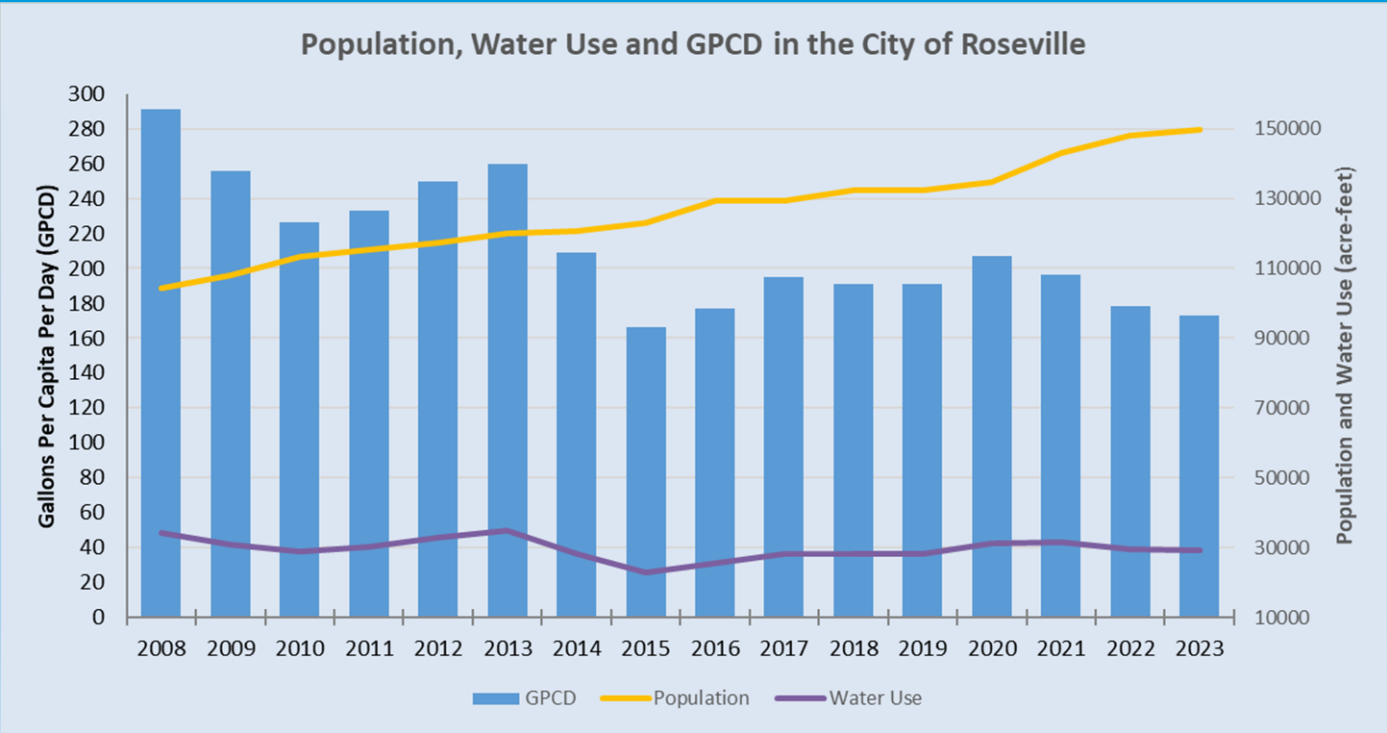


Projects & Events

- Inspiration Garden
- Farmers Market
- Mulch Mayhem
- Westfield Turf Removal Project
- Downtown Tuesday Night
- Earth Night

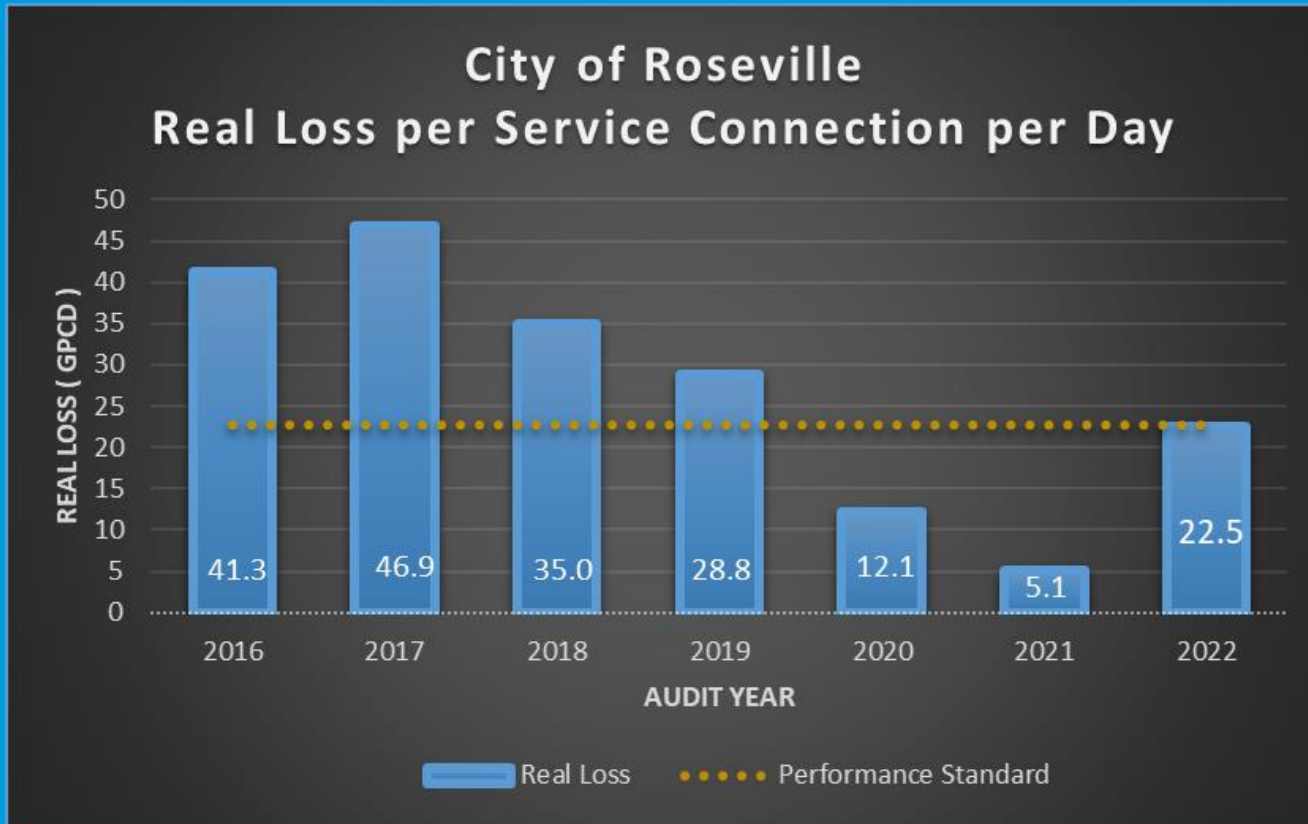


Yearly GPCD



Calculation = ((Monthly Production x Conversion factor) / Population) / # of days

Water Loss
(Real Loss)
GPCD



Customer Evaluation Comments

All people involved in this process were courteous and very helpful!

Name of Technician: John W

Date of service:

Comments: Michelle explained the entire process. She even gave helpful advice on how I can accomplish my goals

Comments: Worked with Michelle Sullivan. She is an asset to your staff!

Comments: All of your phone contacts and email services were extremely helpful and efficient!

Additional comments or suggestions on how we can improve this service: John is a great asset to saving our limited supply of water in Placer county!!

Comments: Michelle was great!

Sunny and Jean (sp.)

How was your experience?

Was the technician on time? Yes No

Was the technician courteous? Yes No

Was the technician knowledgeable? Yes No

Was the technician helpful? Yes No

Comments: A+ in all those categories - both.

Additional comments or suggestions on how we can improve this service: Shawn, being trained by Sunny, will be excellent "knowledgeable", explains things well. Friendly, sunny, clearly very experienced, she is very friendly, she came back a 2nd time - clearly admirable.



Thank you!

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Satellite Water Loss Detection Program

- Does your agency use satellite or acoustic leak detection or both?
- How often does your agency survey the whole system?
- Does your agency have an annual program?
- What is the main driver for the program?
- Does your agency have a dedicated budget?

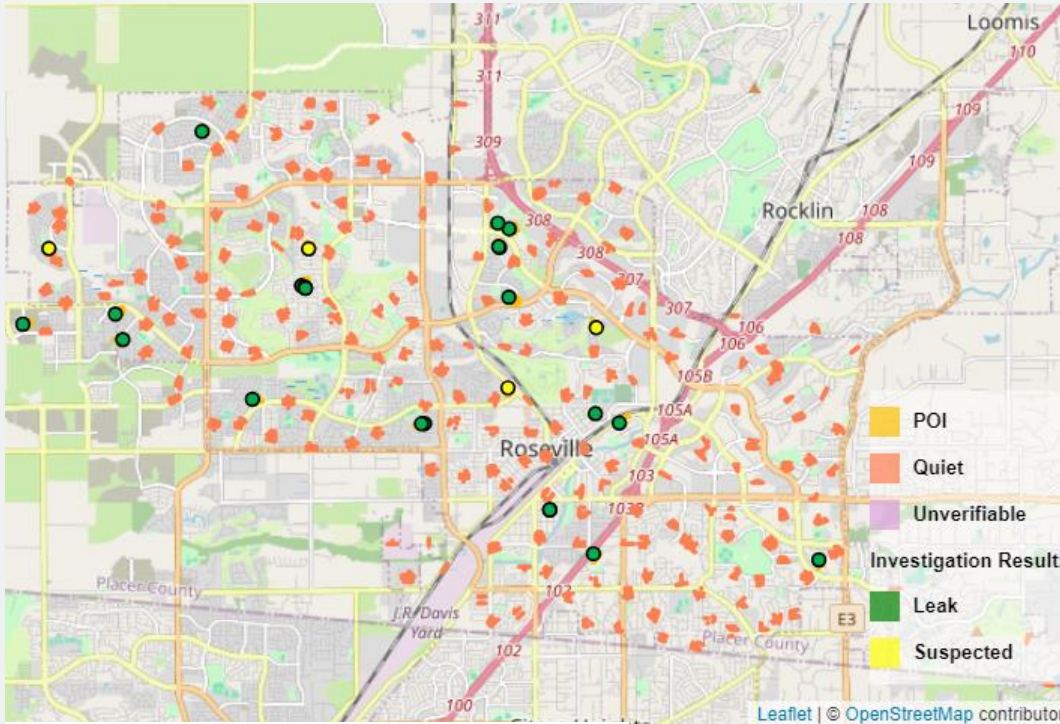




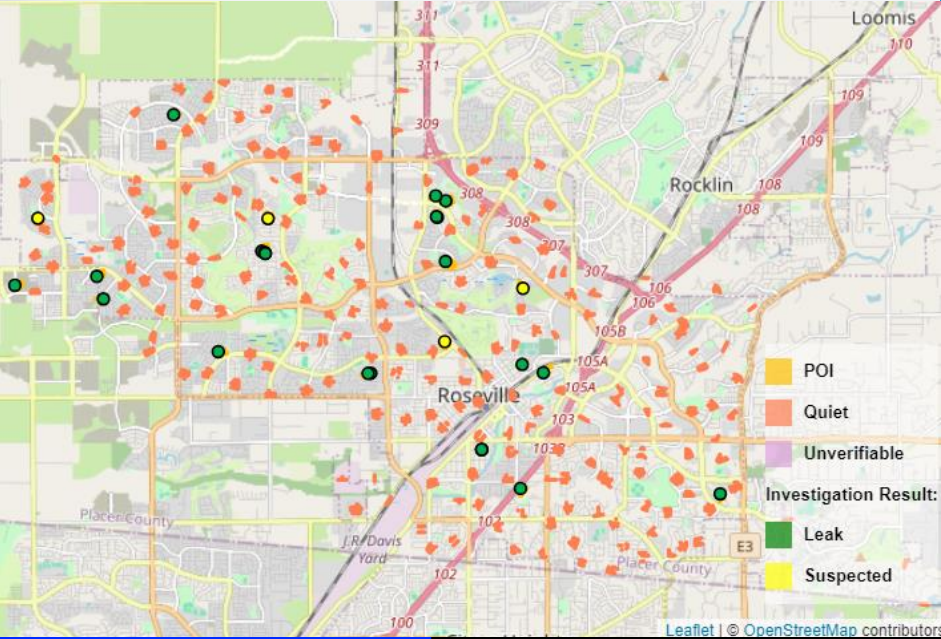
Water Utility

Satellite Leak Detection

Satellite Leak Detection



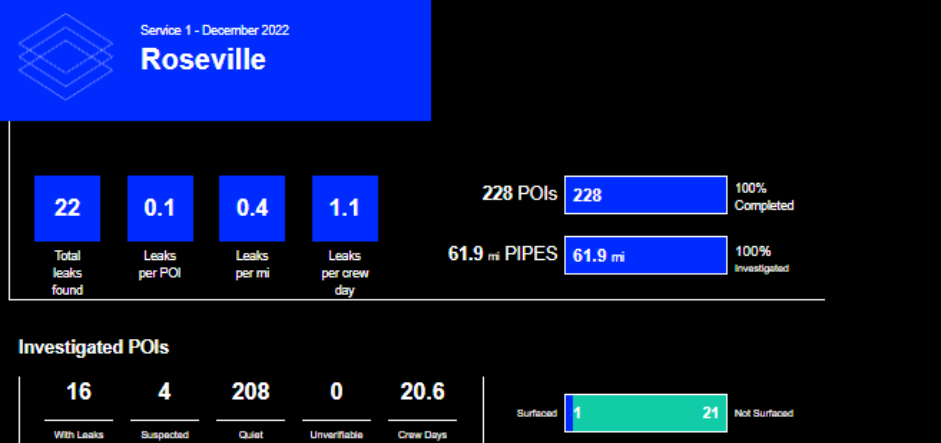
Satellite Leak Detection



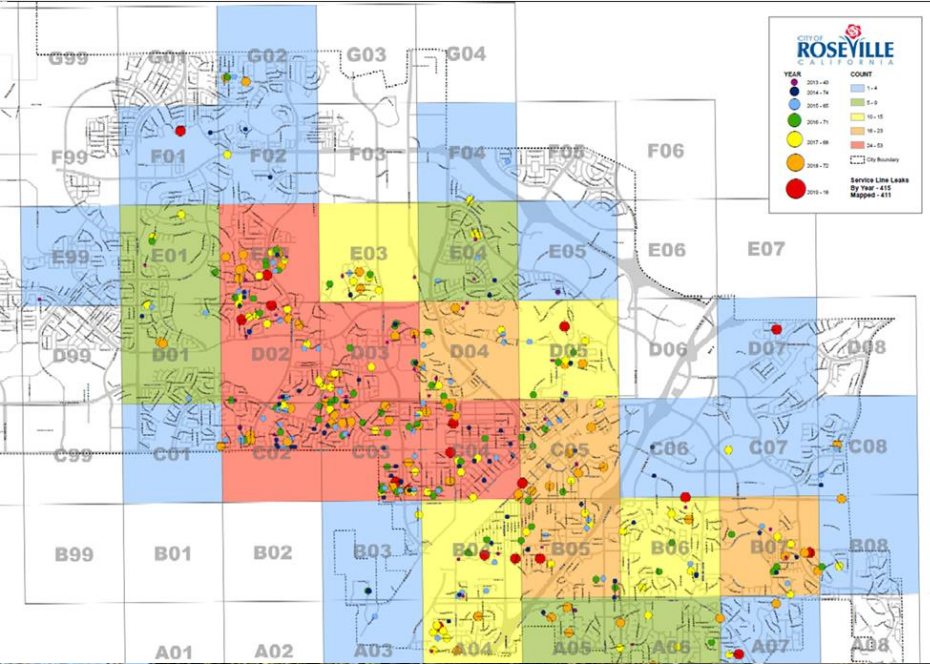
- Leaks everywhere new + old areas
- Cost \$

2022 Leak Detection Program		
Contracted Labor	Staff Time	Equipment
Utilis \$51,000	\$9,046.79	\$ 7,000.00

- **2023**
 - 61.9 Miles of pipes
 - 21 leaks found (14 customer & 7 City)
 - Potential water savings of 3,679,200 Gallons
- Increase in staff time to investigate multiple points of interest (228)

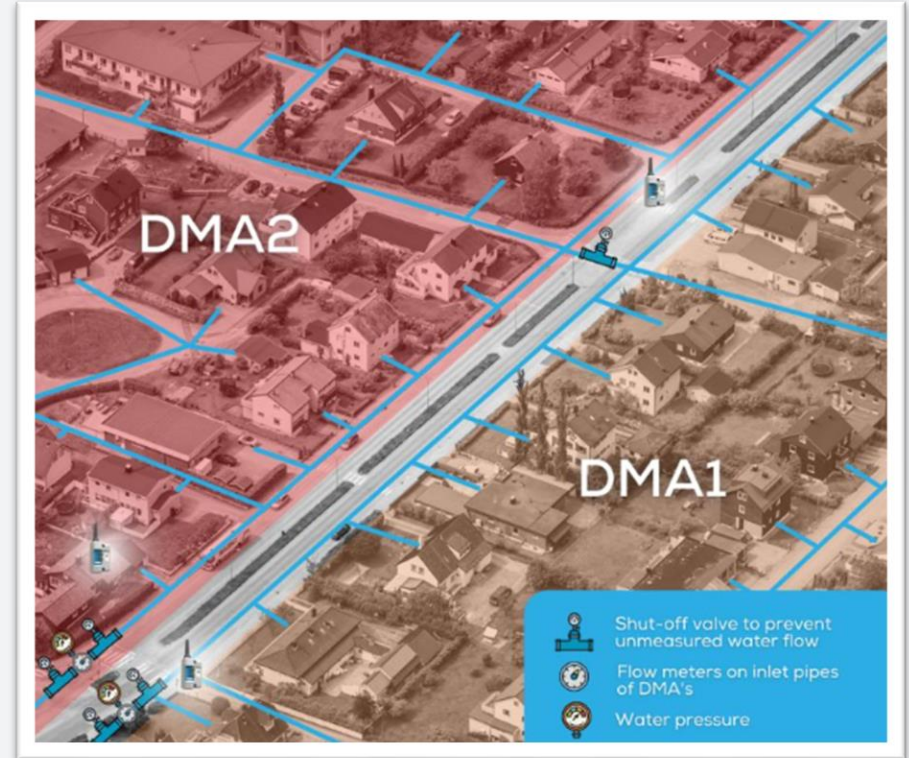
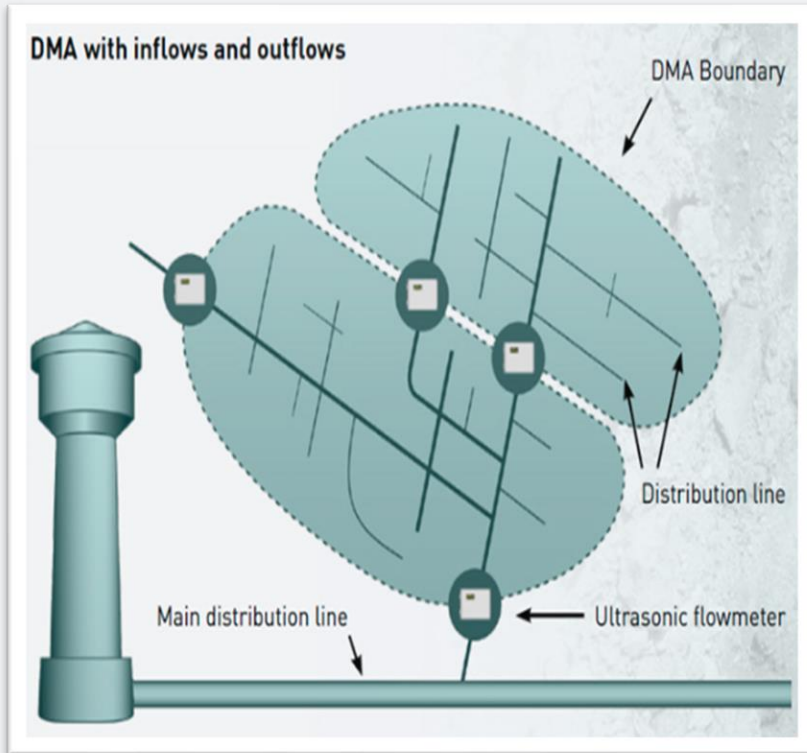


Leak Detection



- Acoustic leak detection
- Data + System Knowledge
- 2019
 - 14 miles
 - 29 leaks detected
 - Potential water savings of 15,242,400 Gallons
- 2020
 - 60 miles
 - 24 leaks detected
 - Potential water savings of 12,614,400 Gallons
- so far 2024
 - 46 leaks found
 - Potential water savings of 24,177,600 Gallons

AMI - virtual district metering areas (vDMAs)



Other Considerations...

- Concerns about false negative rate –leak exists but not flagged
- Cost of full system survey (trad) versus Asterra service?
 - are the cost savings real?
- Points of interest per mile stats – varying by system?
- Need a way to prioritize POI results – bigger leaks bigger signature?
- Does it lead to more fixed leaks?
- Does it perform better over time?

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Discussion

- Regional Program?
 - Sacramento, PCWA, SSWD, SCWD and SJWD, anyone else?
- What about timing? Now, next year?
- DWR water loss meeting? Presentations from potential vendors?
- May need to do an RFP. May be able to sole source?



Conservation Regulation Update

- **Conservation Regulation was adopted on June 3rd with a unanimous vote of the State Water Resources Control Board.**
- The **final regulation text** is posted [here](#), version 4 dated 6/14/2024.
- New comment period to fix typo, closes July 30th, [version 5](#) dated 7/15/2024.
- Some level of monitoring, assessment and reporting back of supplier data.
- Some level of enforcement discretion, TBD
- Needs to be vetted through Office of Administrative Law (OAL) in August.
- **The effective date of this regulation is expected to be January 1, 2025.**
 - This means the disclosable building data will be due at this time.
 - Likely to be submitted as part of your regular annual reporting not separate.
- Lots of media – RWA quoted in Politico article
- **What's next????**
 - CalWEP RFP Template
 - Applying for grant rebate funding
 - Tackle CII requirements first?



June 2024- Estimate of reduction needed at compliance timesteps.
Does not reflect total budgets and future weather inputs.

RWA Urban Water Supplier	2025	2030	2035	2040
California American Water Company - Sacramento District	0%	0%	0%	0%
Carmichael Water District	0%	0%	-6%	-13%
Citrus Heights Water District	0%	0%	-1%	-9%
El Dorado Irrigation District	0%	0%	0%	0%
Elk Grove Water District	0%	0%	0%	0%
Fair Oaks Water District	-3%	-5%	-19%	-25%
Folsom	-12%	-15%	-22%	-25%
Georgetown Divide Public Utility District	0%	0%	0%	0%
Golden State Water Company - Cordova	-12%	-14%	-22%	-25%
Lincoln	-1%	-4%	-15%	-20%
Nevada Irrigation District	0%	0%	0%	0%
Orangevale Water Company	0%	0%	0%	-1%
Placer County Water Agency	0%	0%	-1%	-6%
Roseville	0%	0%	-3%	-7%
Sacramento	0%	0%	-9%	-14%
Sacramento County Water Agency	0%	0%	0%	0%
Sacramento Suburban Water District	0%	0%	-7%	-13%
San Juan Water District	0%	0%	-10%	-18%
West Sacramento	-4%	-8%	-17%	-21%
Yuba City	0%	-1%	-11%	-15%
Average Reduction	-2%	-2%	-7%	-11%




DARIUS FOROUX

Program Updates

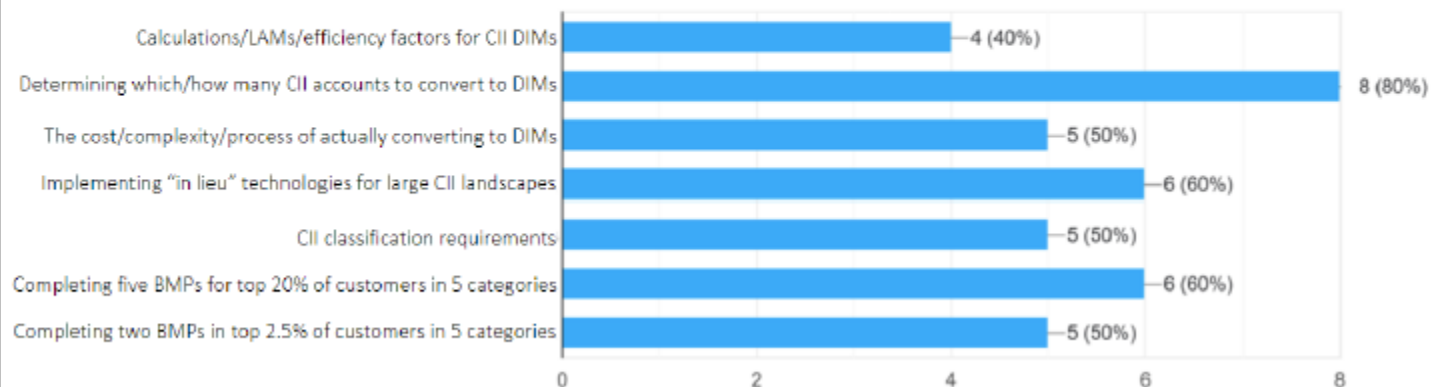
CII Workshop Summary

- Summary report and MWM CII handout distributed
- Trying to get ahead of the regulation requirements

Action	Compliance Date	Ongoing Activities
Identify buildings that meet “disclosable buildings” threshold according to CEC and supply building owners information by request.	June 2024 or regulation effective date	
Classification of CII properties with ENERGY STAR +++++	June 30, 2027	Maintain 95%, assessed annually
Ban non-functional turf with potable water for all CII landscapes	January 1, 2027	
BMP Choose Your Own Adventure PART I Track 1: ID top 2.5% CII Users & Top 20% CII Users Track 2: ID top 2.5% CII Users & Top 20% CII Users in each classification category Track 3: ID CII Users based on Supplier Defined Thresholds	Track 1: 06/2025 Track 2: 06/2027 Track 3: 06/2029	Maintain 95%, assessed on annual basis
BMP Choose Your Own Adventure PART II Track 1 and 2: Top 2.5% CII Users design implement 2 BMPs from each category Track 1 and 2: Top 20% CII Users design and implement 1 BMP from each category Track 3: Design and implement 1 BMP from each category	All Tracks: June 30, 2039	Maintain programs

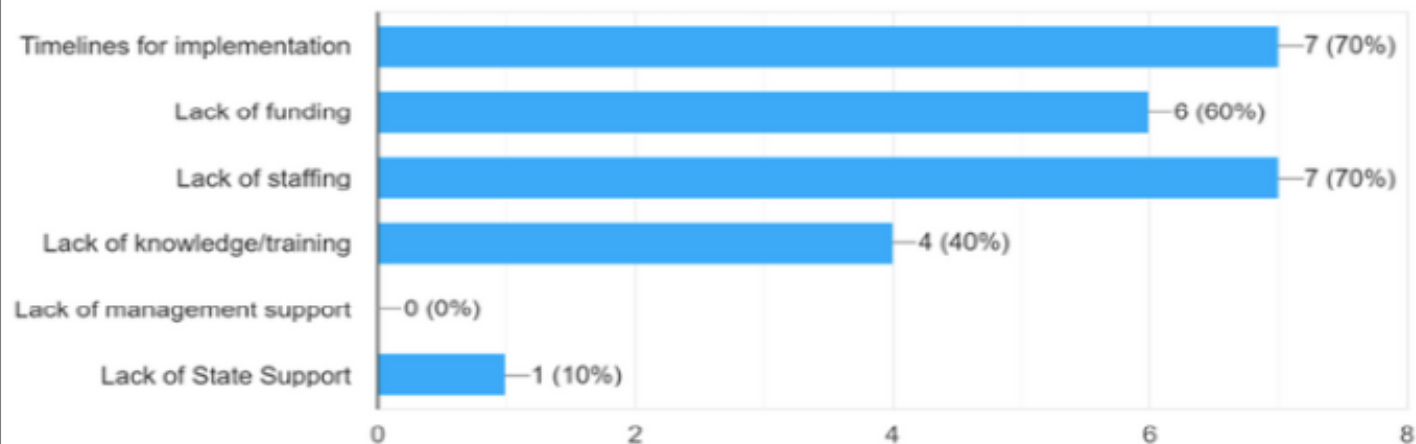
What are you most concerned about regarding the CII portion of the conservation regulations?
(select all that apply)

10 responses



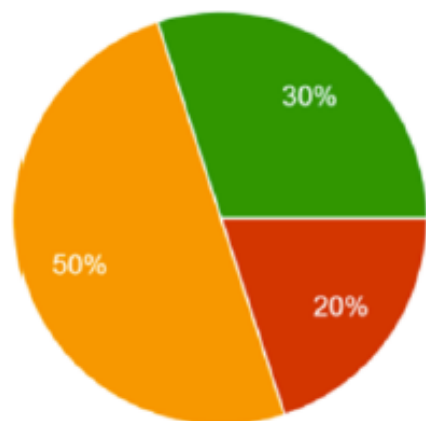
What do you perceive as the biggest barriers to meeting the CII portion of the conservation regulations? (select all that apply)

10 responses



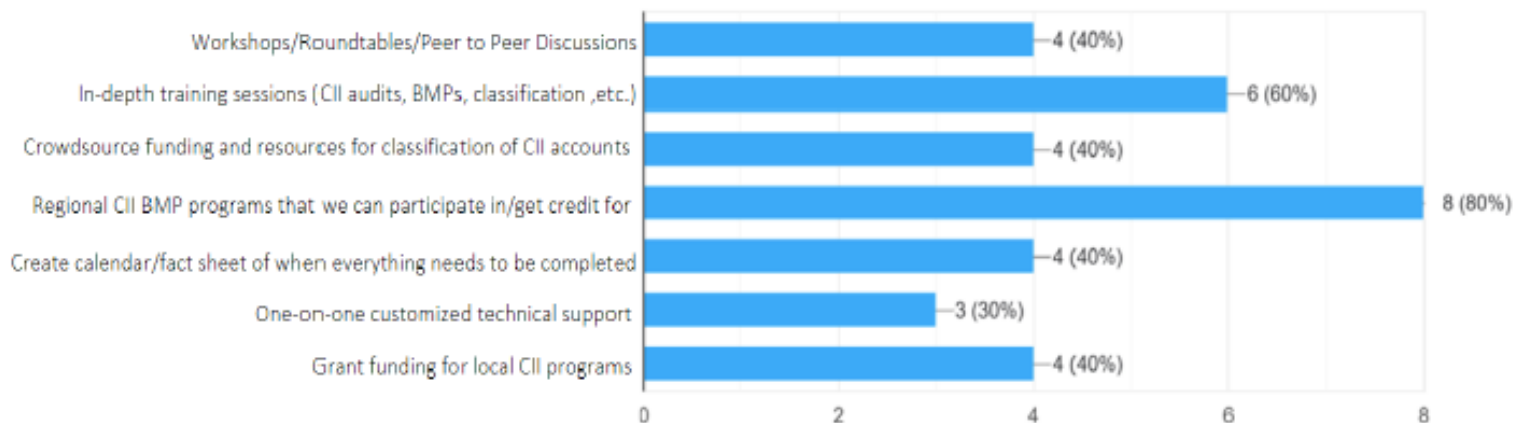
Do you have a CII classification system in place?

10 responses

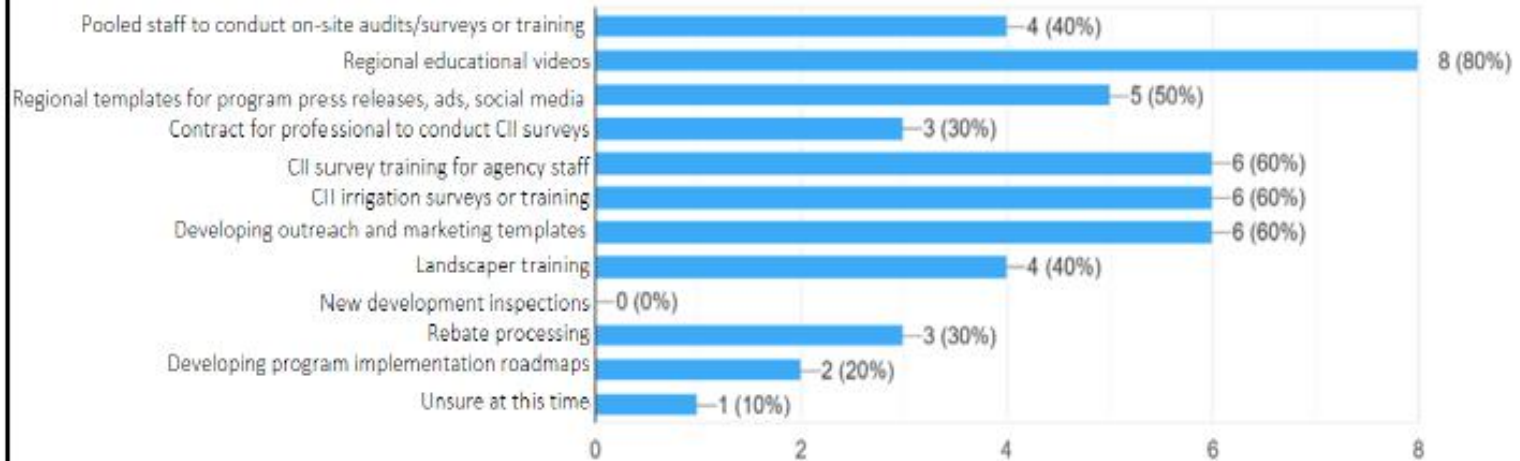


- Yes, aligned well with State Board (Energy Star+) 22 categories
- Yes, but not aligned with State Board (Energy Star+) 22 categories
- Working on it
- Not yet
- Not planning to classify

What resources do you need from RWA to feel prepared to meet the CII portion of the conservation regulations? (select all that apply)

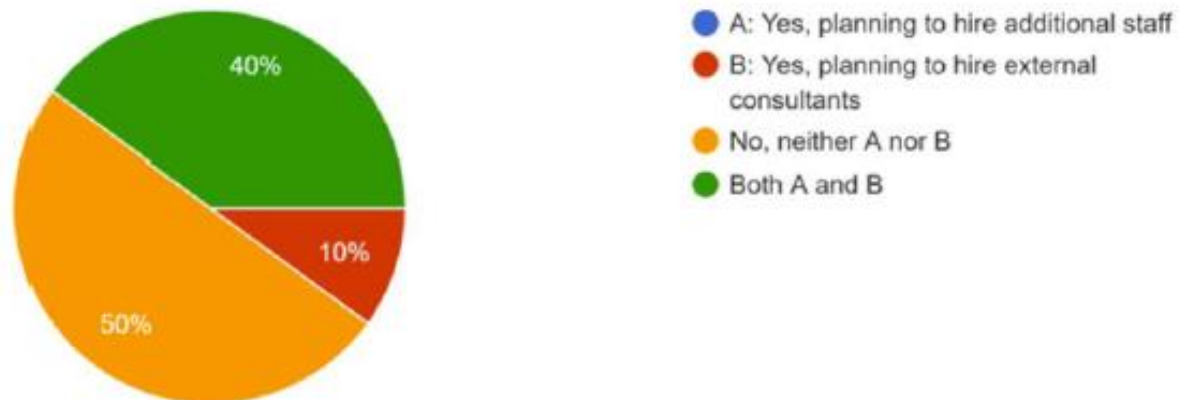


Would your agency/city be interested in collaboratively funding any of the following shared resources to implement CII best management practices? (select all that apply)



Do you plan to hire additional staff or contract with external consultants to support the regulatory requirements?

10 responses



CII Workshop Recommendations

Responsible Entity	Recommendation	Timeframe
RWA	Develop a Water Efficiency Program (WEP) CII Committee to host meetings as needed to address the plethora of CII regulation requirements. Potential subcommittees to tackle a specific task (ex: outreach to HOAs, etc.) and report back to full committee.	End of 2024
RWA	Apply for more grants to fund CII requirements, including sector-specific rebates.	Fall 2024 and beyond
RWA	Develop regional CII BMP Program based on input from CII Committee for specific BMPs to address.	Early 2025
RWA	Work with local suppliers and state staff to deliver regional WEP program accomplishments in a format that is easily transferrable to regulation reporting.	Late 2024
RWA and Local Suppliers	RWA to host technical trainings for water efficiency staff. Local suppliers to provide RWA with suggested training topics.	Early 2025
RWA and Local Suppliers	At local suppliers' direction, RWA will investigate and, if desired, implement regional-level joint contracts and data purchases to assist with regulation implementation. For example, depending on the available budget and resources as well as the number of CII accounts, agencies may want to purchase supplementary NAICs codes data to assist with CII account classification. Cost-sharing data purchasing amongst the region is recommended to lower cost per agency.	Late 2025

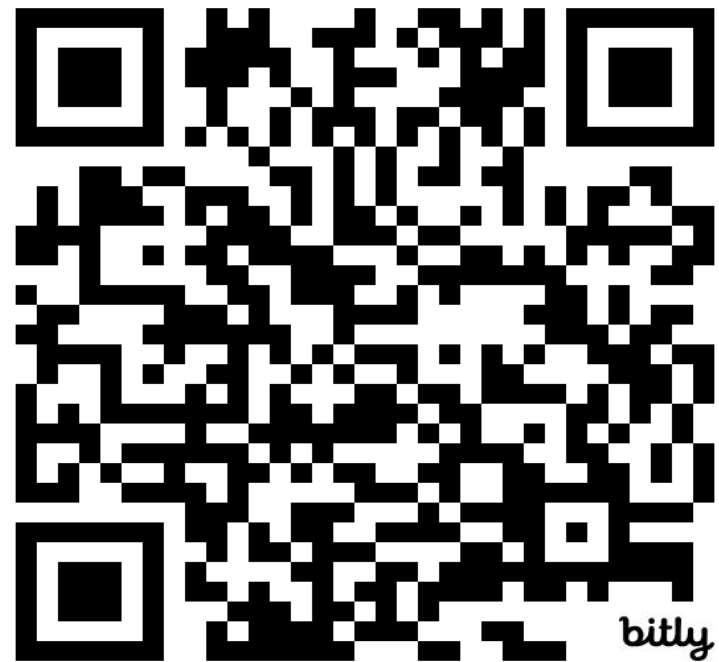
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CII Workshop Evaluation

Please fill out the workshop evaluation form.

This will help us plan and fund future workshops.

Use the QR Code or paper copies.



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Nimbus Fish Hatchery Landscape

- Funding opportunity for low water use plantings to upgrade their landscape
- Signage for BWS website
- Along the hatchery walking trail adjacent to fish tanks
- Regional draw from visitors
- Build in this project to a grant application?
 - Youth Community Access Grant Program
 - USEPA, USBR, DWR



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Tree Rebates

- How many suppliers include trees in turf programs?
- Anyone have a standalone tree rebate? Would you?
 - Seems only for electric utilities

Thinking about starting a **turf replacement** project? You can now receive a **\$100 rebate per tree** for up to five trees planted while you replace your grass with a beautiful California Friendly® landscape.

Rebate Requirements

A tree is defined as a woody perennial plant with many secondary branches supported above the ground by one main stem or trunk.

- Trees must be planted within the turf replacement project area.
- Trees must be a minimum size of 15 gallons when purchased and planted.
- Trees are expected to grow to at least 15-feet tall and 10-feet wide at maturity. This does not apply to edible fruit trees.
- Fruit trees will only be rebated for residential properties, not commercial.

Residential Street Tree Rebate

Thank you for your interest in the City of Woodland's Tree Rebate Program. Under this program, the City will reimburse the purchase price of the residential street tree(s) up to \$75 per address.

Qualifying SDG&E customers can receive:



For planting or potting a 1-gallon tree



For planting or potting a 5-gallon tree



For planting or potting a 15-gallon tree

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Other tree related programs

- SMUD Shade Tree Program with STF – 10 per customer
 - <https://www.smud.org/Going-Green/Free-Shade-Trees>
- Customer tree workshops
 - Several suppliers do this
- Tree specific watering tips or soaker hose rebates?

FREE WORKSHOP

**SMART
IRRIGATION
FOR TREES**

SATURDAY, JUNE 8
9 AM TO 10:30 AM
DEPARTMENT OF UTILITIES

BE WATER SMART FREE Tree Watering Buckets

How to water young trees

1-3 years after planting



For the first three years after planting, all trees need regular water to get established. Don't rely on lawn sprinklers — they do not soak soil deeply enough to encourage a healthy, deep root system for your tree.

The roots of young trees are located mostly near the trunk.

The easiest way to water young trees? Drill a small 1/8" hole near the bottom of a 5-gallon bucket. Place a piece of duct tape over the hole, fill the bucket with water, place it near the root ball, and remove the tape to allow water to slowly drain into the soil.

AGE	FREQUENCY	AMOUNT
1 yr	2-3 times/week	1 bucket
2 yrs	Once per week	2 buckets
3 yrs	Every other week	3 buckets

You can also use a small soaker hose, drip tubing or emitters, or a hose sprinkler on a very low setting. Avoid spraying the trunk, and expand the watering zone outward as the tree grows.



These items are helpful to have on hand:

- 5 gallon bucket
- Cordless drill with 1/8" bit
- Duct tape
- Hose or spigot nearby

How to Give Young Trees the Water They Need

Watch later Share

Learn more water-wise tree tips at BeWaterSmart.info and SacTree.org

Watch on YouTube

Public Outreach/Summer Strong

- Summary strong – contest winner billboard ads running July-August, randomized gift card drawings
 - Winner stories posted on BWS website, feel free to promote locally
 - Radio and KCRA ads are in full swing
 - Several PSA interviews over the last month
 - Green acres podcast
- Mulch Mayhem still remains most clicked ads/FB post
- Brewery Outreach Partnership
- Bulk collateral should be coming soon/just approved invoices
- New photo gallery added to the Tool Kit
- The Spanish kid PSA was filmed in June and is now in post-production—hoping to see a draft in the coming weeks

Public Outreach/Summer Strong

- Summer strong – contest winner billboard ads running July-August
 - Randomized gift card drawings
 - Winner stories posted on BWS website, feel free to promote locally
 - Advertisements are in full swing
 - Cap Radio digital Ads generated 49,195 impressions in June
 - Cap Radio banner ads delivered 89,310 impressions and 263 clicks.
 - Bonneville
 - Total Spots: 642
 - Net Reach: 524,200
 - Gross Impressions: 1,380,900
 - Frequency: 3.5
 - Entravision – Spanish Language Radio
 - Total Spots: 456
 - Net Reach: 54,900
 - Gross Impressions: 164,800
 - Frequency: 3.0
 - KCRA-TV
 - RWA :30 impressions delivered: 1,453,200
 - RWA Olympic promo impressions delivered: 624,200
 - Total RWA impressions in June: 2,077,400
 - Hearst TV Streaming
 - 114,943 impressions
 - Cap Radio
 - Total Spots: 108
 - Net Reach: 135,800
 - Gross Impressions: 314,000
 - Frequency: 2.3
 - Several PSA interviews
 - Green Acres podcast

SUMMER STRONG YARD CHAMP

Planted natives and installed drip irrigation

Learn her story at [BeWaterSmart.info](https://www.BewaterSmart.info)



Christina
Auburn



SUMMER STRONG YARD CHAMPS

Made a water-wise yard as a family

Learn their story at [BeWaterSmart.info](https://www.BewaterSmart.info)



The Dal Ben Family
East Sacramento



SUMMER STRONG YARD CHAMP

Minimal upkeep, maximum enjoyment

Learn her story at [BeWaterSmart.info](https://www.BewaterSmart.info)



Elaine
Rosemont



SUMMER STRONG YARD CHAMP

Protects her trees and harvests the rain

Learn her story at [BeWaterSmart.info](https://www.BewaterSmart.info)



Janelle
Sacramento



SUMMER STRONG YARD CHAMP

Lost the lawn to help the bees

Learn her story at BeWaterSmart.info



City of
SACRAMENTO



Robin
South Land Park



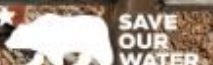
SUMMER STRONG YARD CHAMPS

Created a water-wise wildlife sanctuary

Learn their story at BeWaterSmart.info



The Salisbury Family
Arden Arcade



SUMMER STRONG YARD CHAMP

Lost the lawn and made a sustainable paradise

Learn her story at [BeWaterSmart.info](https://www.BewaterSmart.info)



Soleil
Elk Grove



**SUMMER STRONG
YARD CHAMP**
Lost the lawn to help the bees
Learn her story at sacramento.org/city



Clear Channel



**SACRAMENTO
SPORTS PLEX**



BE WATER SMART **WEP Dues**

- Invoices sent on July 1st
- 2023 Year in Review
- Dues cover letter
- 3% increase
- Revisit budget in November RWEPCAC



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Meter Box Safety Materials

- For supplier staff
- Education materials on...
 - Dog attacks while on property?
 - Spider infestation with meter changes
 - Etc.
- Linda anything else?
- Greg B. provided an example.



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Water Taste Test

- At September RWEPAAC
- Who's in???



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Network



Market Services



**Virtual Site
Visits**



**Project
Assurance**



**Green
Spending
Advance**



Program Awareness

01

Marketing

02

**High Impact
Project Sourcing**



Program Hosting

01

An interface custom built for water utilities

03

Certification & Asset Tracking

02

Application management

04

Our market services under your suite of offerings





PROGRAM ADMINISTRATION

Tell us your goals & we reach them





Q+A

2024
Director of Commercialization: Caitlin L.



BE WATER SMART

2024 RWE PAC Meetings

Date
January 9, 2024
March 19, 2024 – SSWD
May 14, 2024 – San Juan Water District
July 23, 2024 – Roseville
September 10, 2024 – West Sac
November 12, 2024 – PCWA
December 6, 2024 – Holiday Social

Holiday Social: @ The Old Spaghetti Factory, Rancho Cordova, 11:30 am – 2:00 pm. All water efficiency staff are invited.



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....In other news

- Sacramento's WaterWise showcase moved to September 28th, can share with customers when link is ready.
- Dave Fujino from UC Davis is retiring! Let's party!
 - Downtown Sac 8/20-8/22
- William Granger says hello!



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Announcements & Events