



Board of Director's Special Town Hall Meeting

VETERANS HALL

SEPTEMBER 7, 2019

10:00 AM – 1:00 PM

Welcome!

Agenda

- Public Comment
- Historical Timeline
- Planning/Engineering
- Cambria Water System
- Next steps – CDP Process
- Questions & Answers
- Concluding Remarks

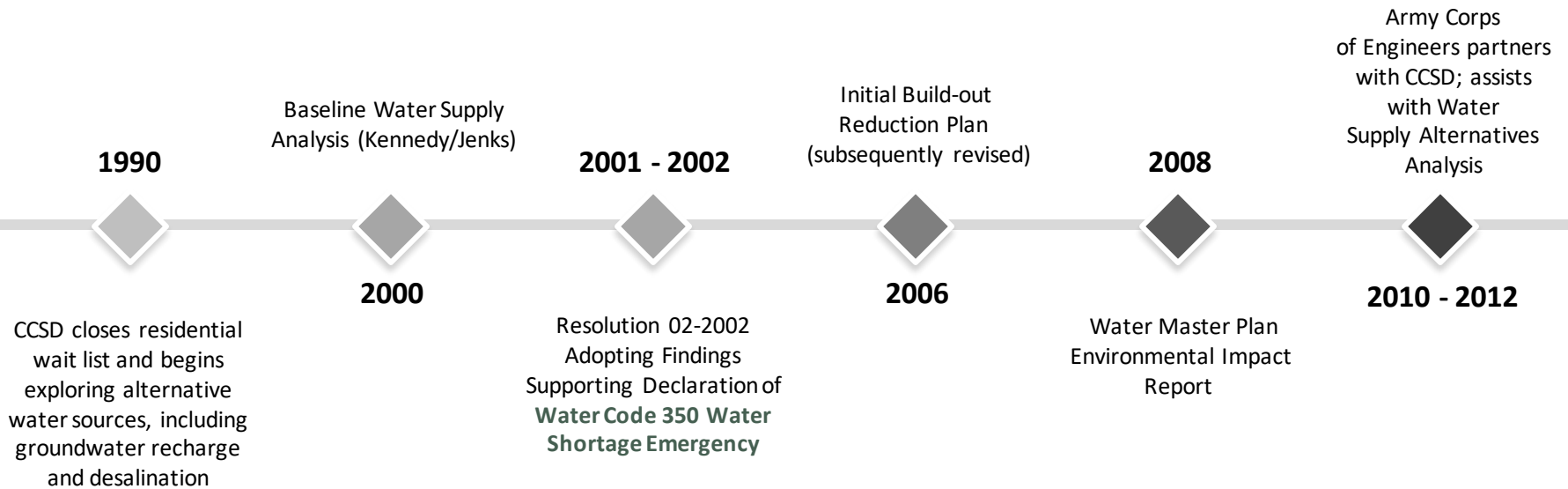


Public Comment



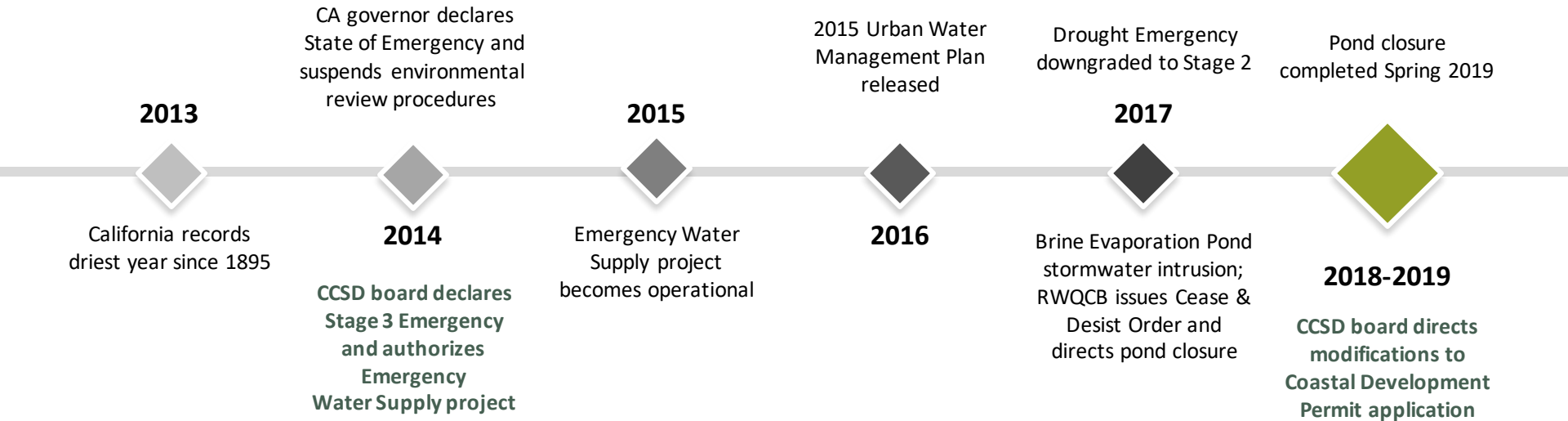


HISTORICAL TIMELINE





HISTORICAL TIMELINE





Planning/Engineering

- Baseline Water Supply Analysis (2000)
 - Kennedy/Jenks report determines groundwater supply not adequate to provide a 90-95% level of reliability
 - Projected water demands call for approximately 600 AF in supplemental water
 - MTBE contamination factored into supply analysis
- Water Master Plan (2008)
 - Seawater Desal
 - Recycled Water
 - Water Demand Management
- USACOE Water Supply Alternatives Study (2013)
 - 28 water supply alternatives studied
 - Screened to 4 alternatives with full concepts developed
 - San Simeon Creek Road Brackish Water
 - Whale Rock Reservoir
 - Shamel Park Seawater
 - Morro Bay Shared SWRO
- Urban Water Management Plan (2015)
 - Water Shortage Contingency Plan
 - Baselines and Targets
 - Demand Management Measures

Cambria Water



San Simeon Well Field

Santa Rosa Well 3

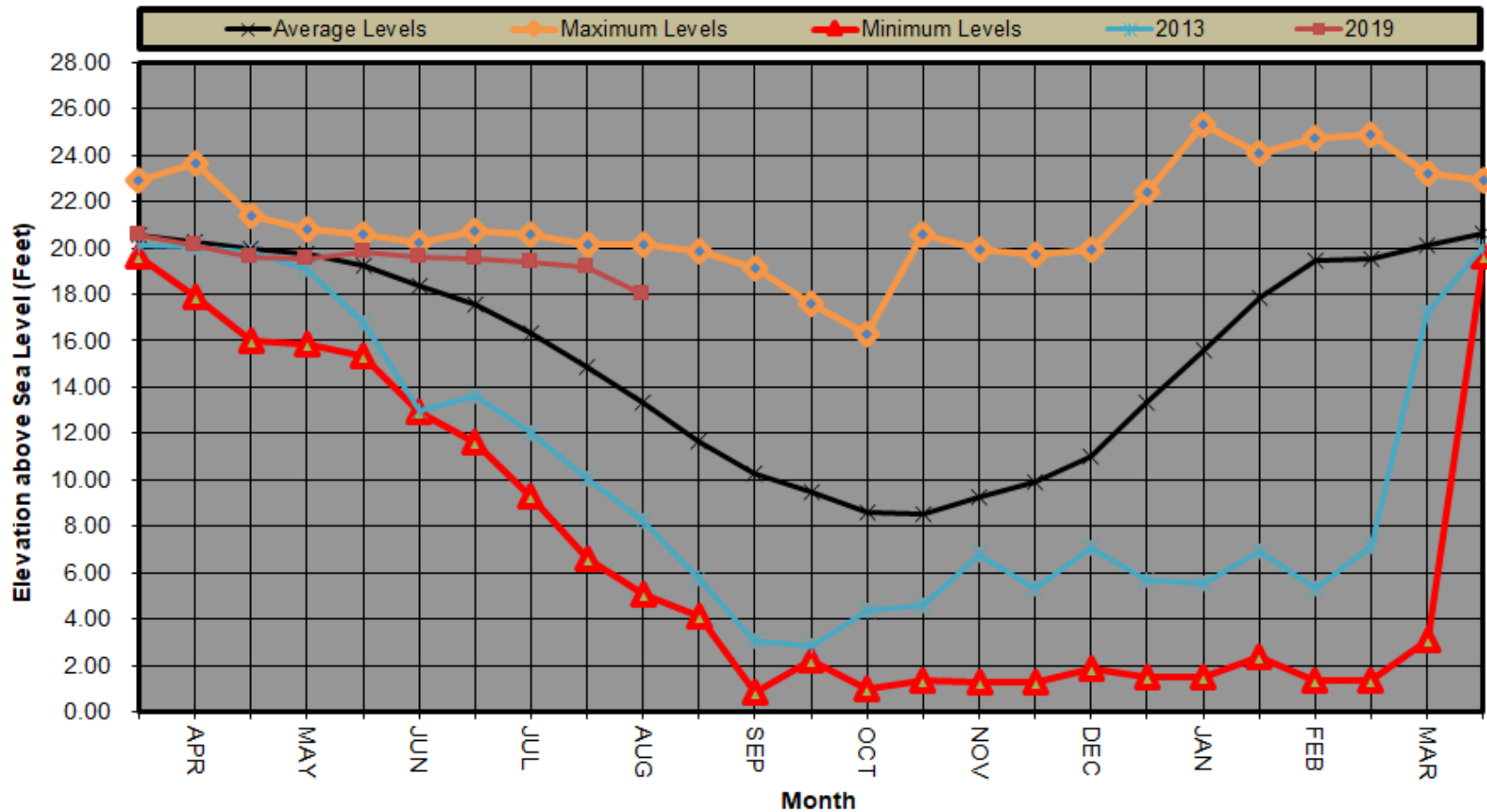
Santa Rosa Well 4

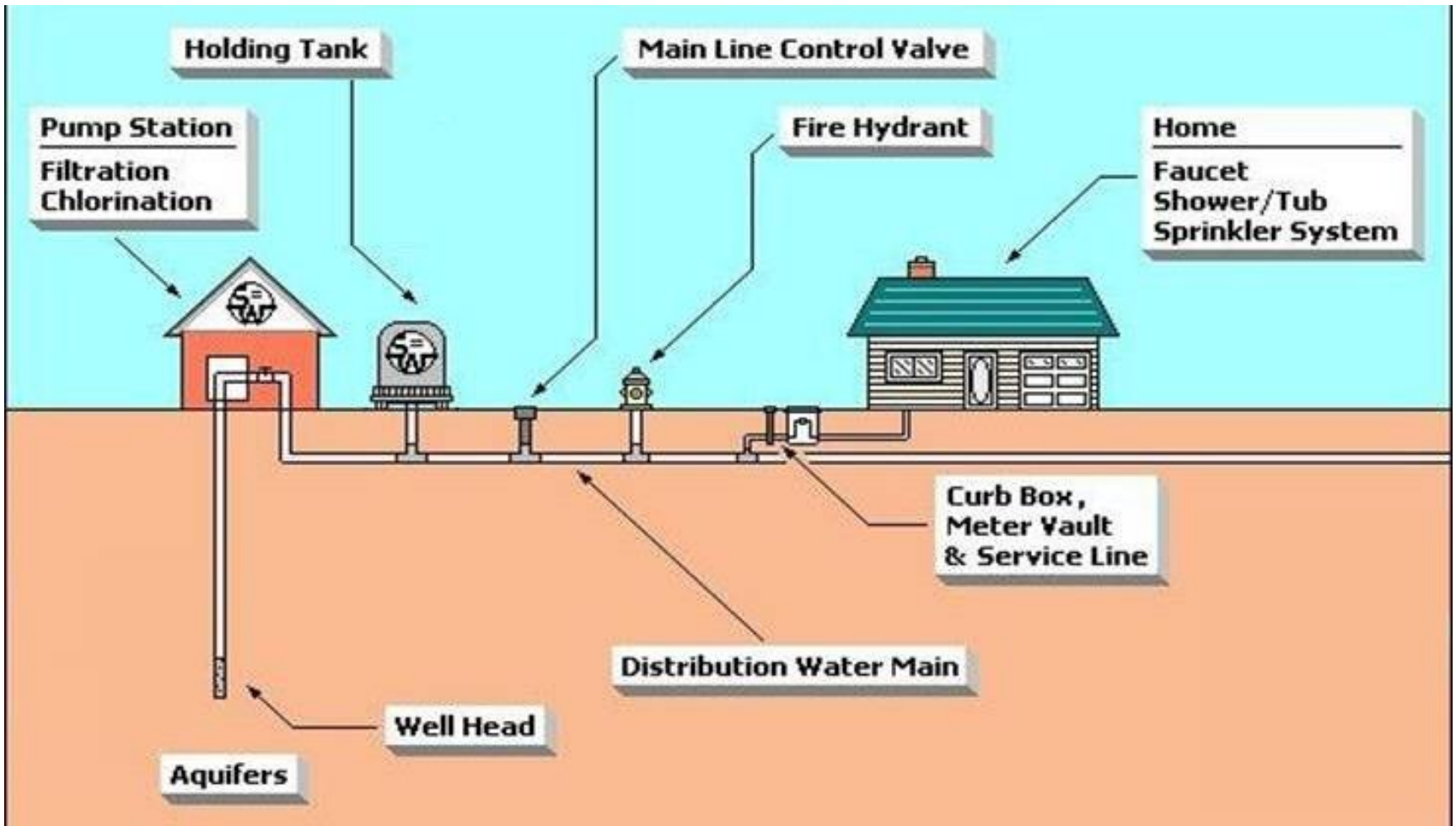
Current Water License Allowances

- 799 AFY from San Simeon
 - 370 AFY Dry Season Max
- 218 AFY from Santa Rosa
 - 155.3 AFY Dry Season Max
- 1017 AFY Combined Total
 - 525.3 AFY Dry Season Total

AFY = Acre Feet per Year (325,850 gallons)

San Simeon Creek Well Levels 2019/2020 levels to date, 2013/2014 levels and Historic Min, Max, & Average

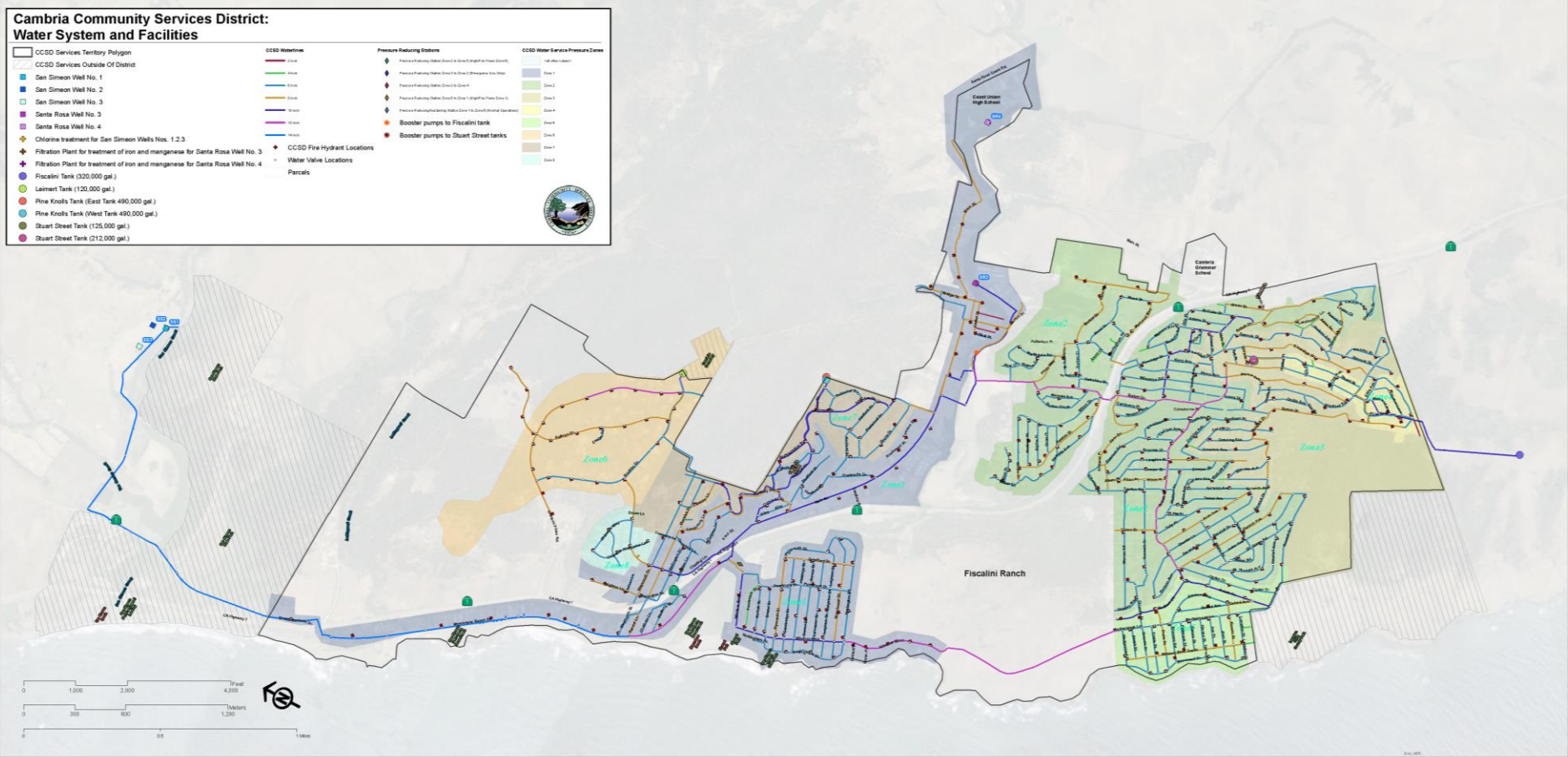




How Water is Delivered



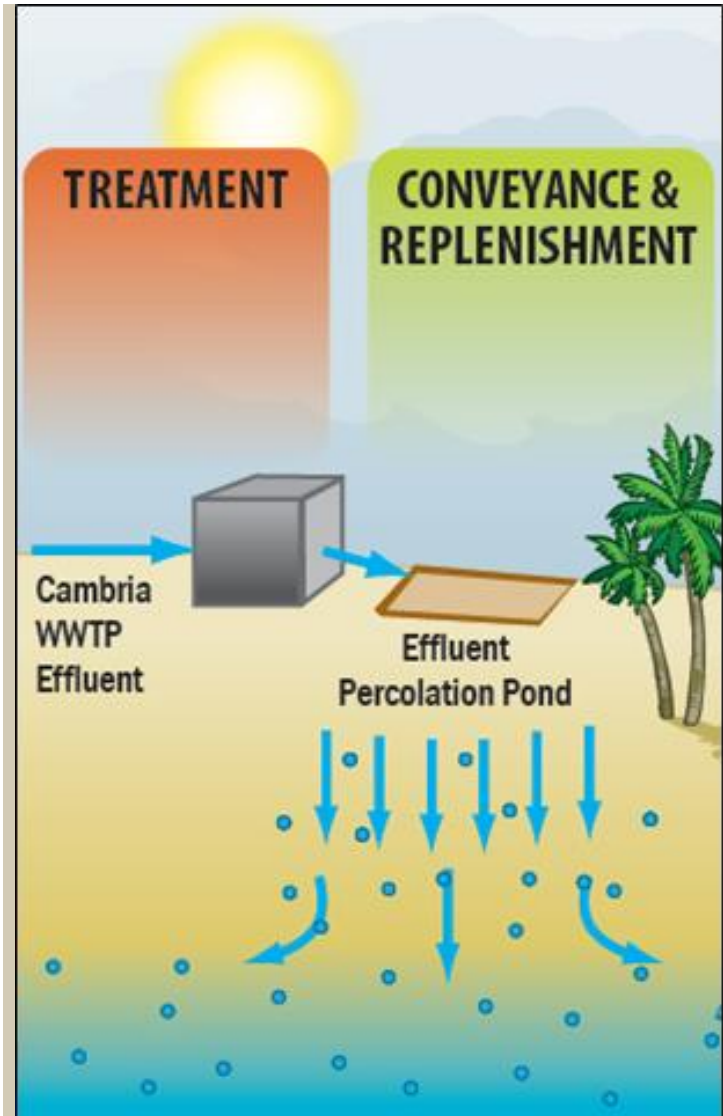
4,033	Service Connections
66.7	Miles of Water Mains
368	Fire Hydrants
4	Tank Sites
5	Potable Water Production Wells



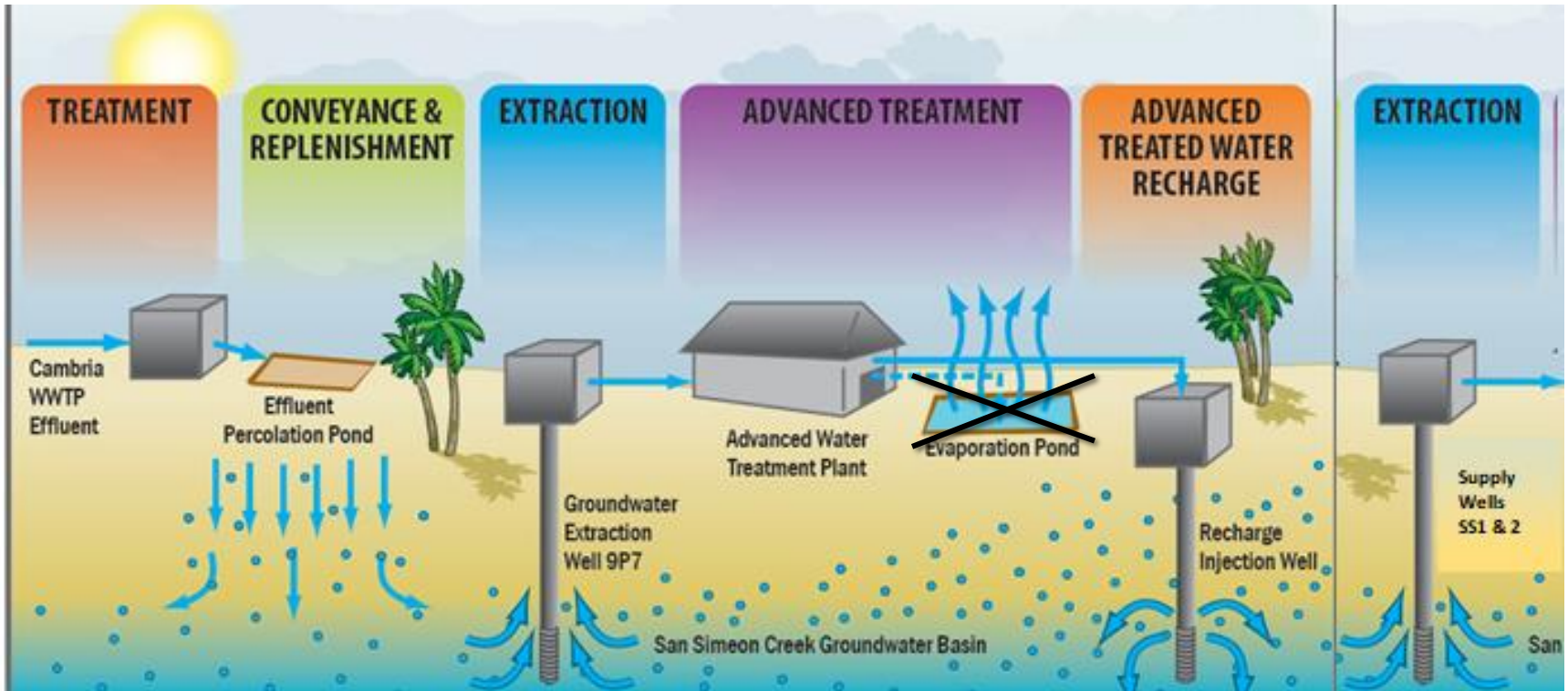


- Legend**
- New Monitoring Well
 - Existing CCSD Gradient Control Well and AWTP Source Water Well
 - Existing CCSD Municipal Potable Water Well (SS)
 - Potable Water Recharge Injection Well (RIW)
 - Product Water Pipeline to Injection Well
 - Filtrate Line to San Simeon Creek Lagoon
 - Existing CCSD Water Supply Pipeline
 - Brine Disposal Pipeline
 - AWTP Feed Water Pipeline
 - 8-inch Well 9P7 Discharge Line
 - 4-inch MF Brackish Waste Discharge Line

Cambria's Wastewater Disposal



- 0.5 mgd wastewater treated at WWTP
- Effluent sent to percolation ponds adjacent to San Simeon Creek
- Acts as barrier to seawater intrusion
- All water ultimately ends up in ocean
- Emergency project recovers water for indirect potable reuse

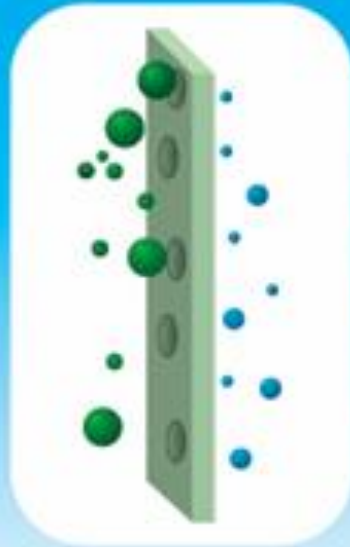


Project Overview

SUPPLY CONCEPT



Microfiltration



Reverse osmosis

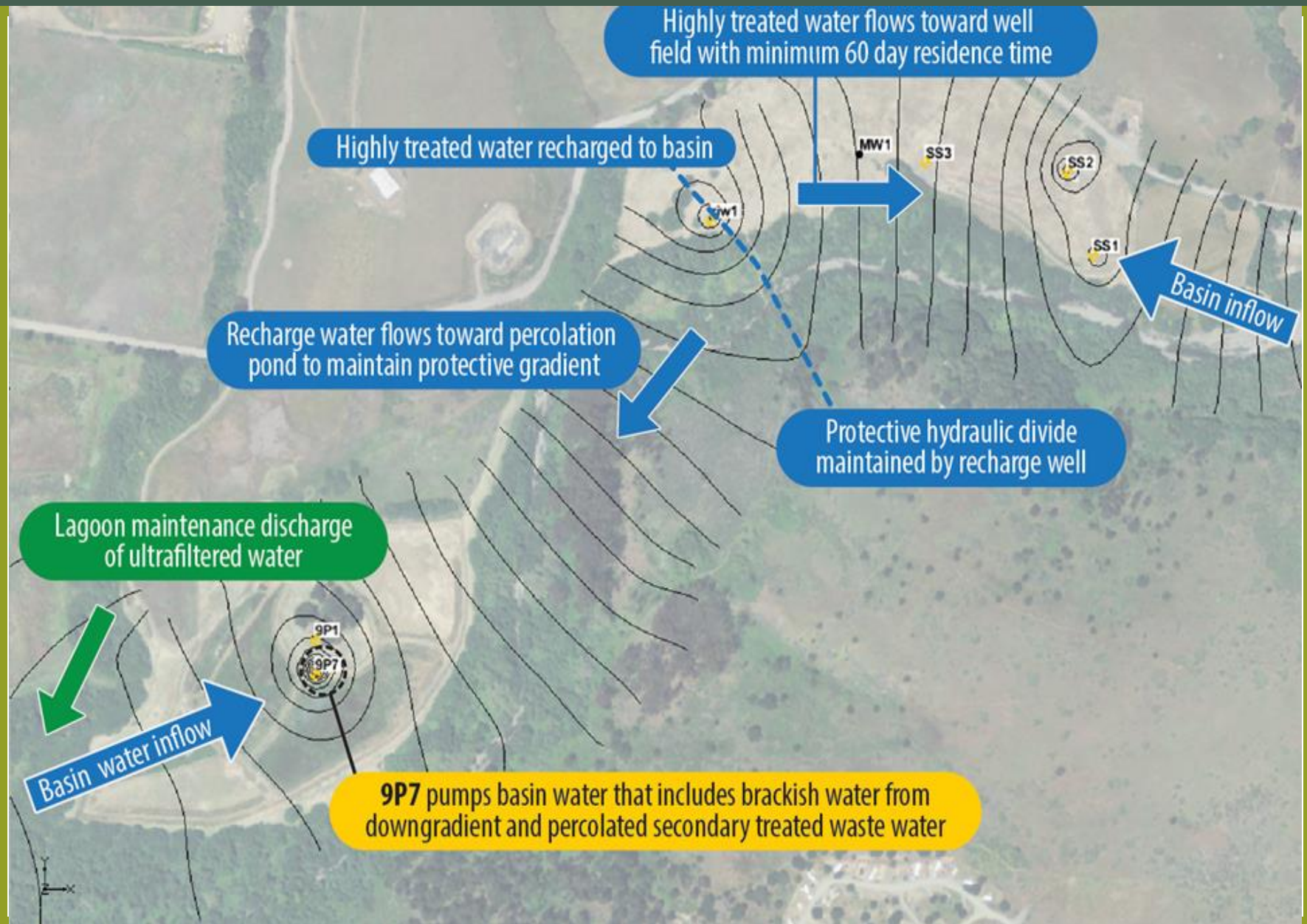


Advanced oxidation
process

Advanced Water Treatment

Uses 3-step process like other California Indirect Potable Reuse projects

Built on previous projects for more efficient and flexible facility



Micro Filtration
Units





RO Filtration
Units



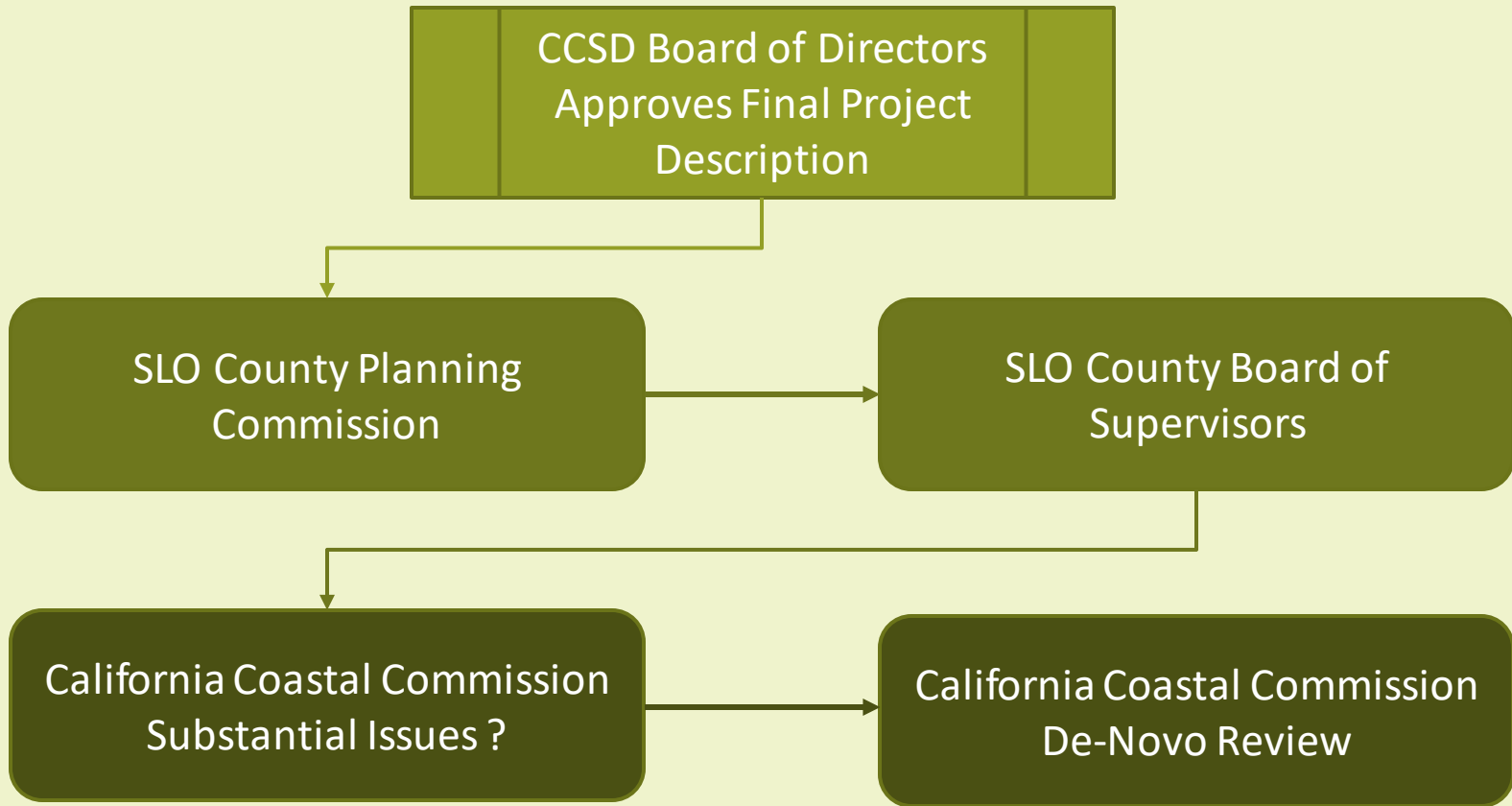
UV/Advanced Oxidation



Brine Disposal
Tanks

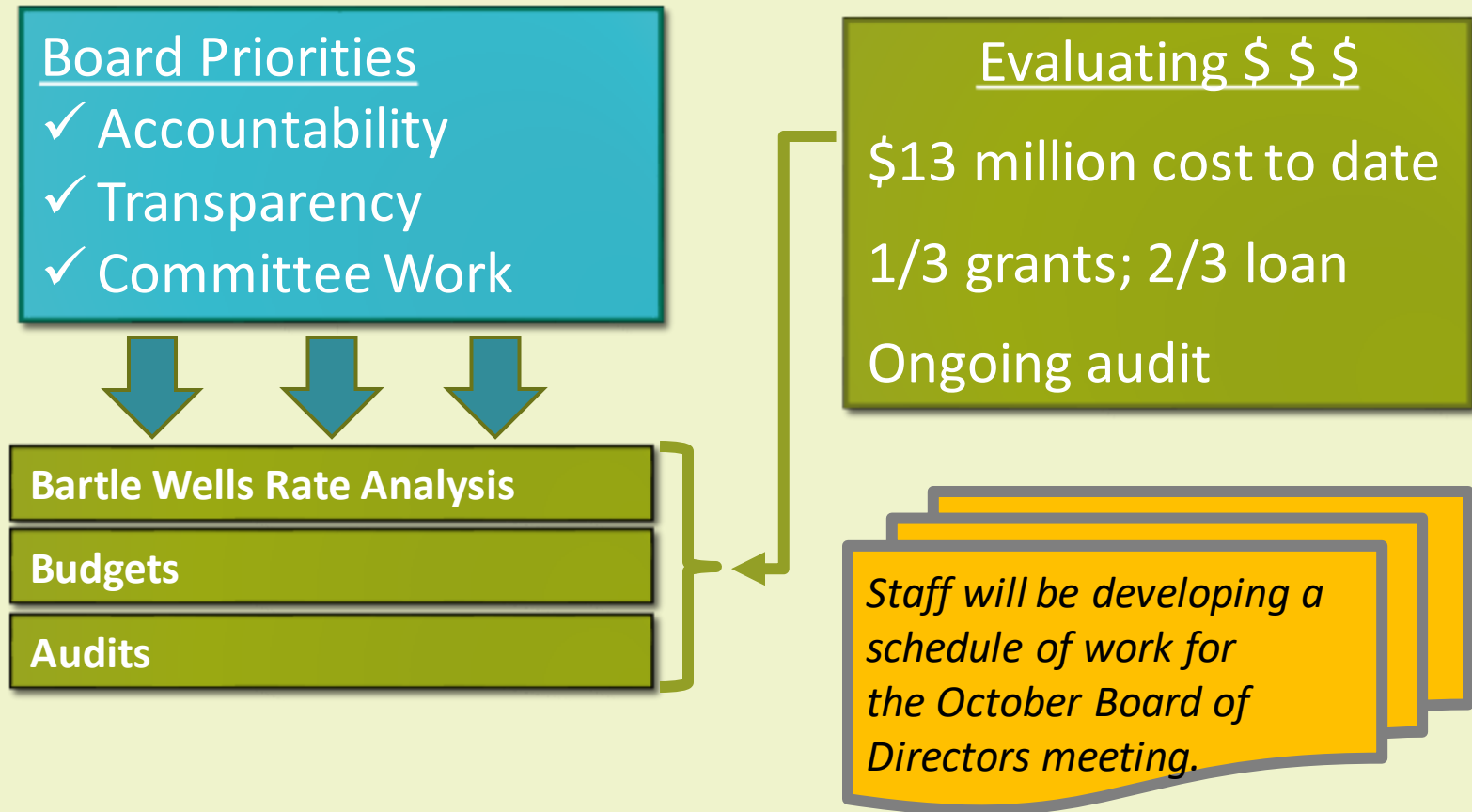


Next Steps: A Five-Step CDP Process





Fiscal & Schedule Considerations





Concluding Remarks

- Today's Accomplishments
 - Information
 - Understanding
- Next Steps
 - Board recommendation – R&I Committee with Consultant & Staff
 - Project Description
 - Possible Board Action in October or November



Questions & Answers





Thank You.

Aerial photography
courtesy of AzureFire
www.azurefire.com

- ❖ <https://www.cambriacsd.org/swf>
- ❖ Follow-up Town Hall to be scheduled
- ❖ Today's Presenters:
 - ❖ Board President, David Pierson
dpierson@cambriacsd.org
 - ❖ Strategic & Organizational Advisor, Paavo Ogren
pogren@cambriacsd.org
 - ❖ Management Analyst, Melissa Bland
mbland@cambriacsd.org
 - ❖ Chief Plant Operator, Jim Green
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