PALMDALE RECYCLED WATER AUTHORITY (PRWA)
HELD AT CITY OF PALMDALE
CITY HALL COUNCIL CHAMBERS
38300 SIERRA HIGHWAY, SUITE B
PALMDALE, CALIFORNIA
REGULAR MEETING
JUNE 21, 2021
6:00 P.M.
www.cityofpalmdale.org
www.palmdalewater.org.

WELCOME

EMERGENCY PUBLIC MEETING PROCEDURE DUE TO COVID-19

In compliance with the Governor's Executive Order N-29-20, the Council Chamber is open for public comment, including public seating available at limited capacity. Citizens are required to wear masks and practice social distancing. Directors may choose to participate via conference call.

1) VERBAL PUBLIC COMMENT DURING THE MEETING

MEMBERS OF THE PUBLIC MAY ADDRESS THE BOARD OF DIRECTORS REGARDING ITEMS LISTED OR NOT LISTED ON THE PRINTED AGENDA. UNLESS OTHERWISE EXTENDED BY A MAJORITY VOTE OF THE BOARD OF DIRECTORS COMMENTS SHALL BE LIMITED TO THREE (3) MINUTES PER SPEAKER. MEMBERS OF THE PUBLIC WHO WISH TO VERBALLY ADDRESS THE BOARD OF DIRECTORS MAY SPEAK VIA ZOOM:

Numbers: US: +1 669 900 9128
Webinar ID: 948 1482 3679
Passcode: 085599

Webinar attendee link
https://zoom.us/j/94814823679?pwd=UVdhMmtuZGtSWVVjTUJrcnAxK0VqUT09

- Please press *9 to "Raise Your Hand" and wait for the host to ask you to unmute yourself.
- Press *6 to unmute your microphone.
- Please state your name and city of residence for the record and begin.

PLEASE NOTE: You can view this agenda and related items on our website at *https://cityofpalmdale.org/379/Palmdale-Recycled-Water-Authority-PRWA.* You can request a copy of this agenda or attachments, if any, by contacting the City Clerk's Office at 661-267-5151.

A **three-minute time limit** will be imposed on all speakers other than staff members.

In accordance with the Americans with Disabilities Act of 1990, if you require a disability-related modification or accommodation to attend or participate in this meeting, including auxiliary aids or services, please call the City of Palmdale Office of the City Clerk at least 72 hours prior to the meeting.

1. CALL TO ORDER.

2. PLEDGE OF ALLEGIANCE.

3. ROLL CALL: CHAIR VINCENT DINO, DIRECTORS AUSTIN BISHOP, DON WILSON, JUAN CARRILLO, AND ZAKEYA ANSON

4. CONSENT CALENDAR:

4.1 Approve the Minutes from the previous meeting held on April 19, 2021. (Staff Reference: Acting Authority Secretary Faber)

Call for Public Comments

Staff Recommendation: Move to approve Item 4.1. (Voice Vote - Requires a majority to approve.)

5. **PRESENTATIONS:**

5.1 Brown Act and Public Official Training (Staff Reference: Authority Counsel Beck)

5.2 Advanced Water Treatment & Groundwater Injection (Staff Reference: Scott Rogers)

6. **NON-AGENDA ITEMS - PUBLIC COMMENTS:** This portion of the Agenda allows an individual the opportunity to address the Board of Directors on any subject regarding Palmdale Recycled Water Authority business. Under state legislation, no action can be taken on items not specifically referenced on the Agenda. **PLEASE NOTE: A three-minute time limit** will be imposed on each speaker other than staff members.

7. **DIRECTOR REQUESTS FOR NEW AGENDA ITEMS:**

8. **INFORMATIONAL REPORT OF THE BOARD OF DIRECTORS, EXECUTIVE DIRECTOR, AND ASSISTANT EXECUTIVE DIRECTOR.**

9. **ADJOURNMENT** to August 16, 2021, at 6:00 p.m. at the City of Palmdale City Hall Council Chambers located at 38300 Sierra Highway, Suite B, Palmdale, California.

Complete packets can be viewed at City Hall, located at 38300 Sierra Highway, Suite A, Palmdale, California; Palmdale Water District, 2029 East Avenue Q, Palmdale, California, and the Main Library, located at 700 East Palmdale Boulevard, Palmdale, California. You can also view the Agenda for the Palmdale Recycled Water Authority on the City's website at www.cityofpalmdale.org or the Palmdale Water District website at www.palmdalewater.org.

Thank you for attending your Palmdale Recycled Water Authority meeting. If you have any further questions, please contact the Secretary's Office at (661) 267-5151, Monday through Thursday, 7:30 a.m. to 6:00 p.m., closed every Friday.

Ralph M. Brown Act



By Christopher Beck

Brown Act Preamble

section 54950

- In enacting this chapter, the Legislature finds and declares that the public commissions, boards and councils and the other public agencies in this State exist to aid in the conduct of the people's business. It is the intent of the law that their actions be taken openly and that their deliberations be conducted openly.

- The people of this State do not yield their sovereignty to the agencies which serve them.

- The people, in delegating authority, do not give their public servants the right to decide what is good for the people to know and what is not good for them to know.

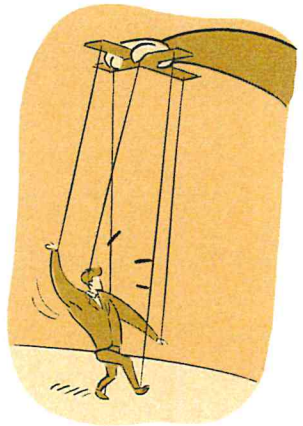
- The people insist on remaining informed so that they may retain control over the instruments they have created.

Propositions

Two basic proposition that create the framework of the Brown Act are…

1) The open conduct of the people's business

2) Citizen's retain control of their government



Who MUST comply

- City Council
- Planning Commission
- **Other Boards and Commissions**
- All Standing Committees



Open Conduct of the Public's Business

- Public agencies exist to aid in the conduct of the people's business
- Actions taken openly
- Deliberations conducted in public
- At a public meeting



Open Meetings

MEETING…any gathering of a quorum at which business under the Board's jurisdiction is discussed or transacted.

** Special quorum requirements (4) exist for purpose of conducting a hearing or meeting.*

Exceptions

- Individual Contacts
- Conferences
- Community Meetings
- Meetings of Other Government Agencies
- Social or Ceremonial Events

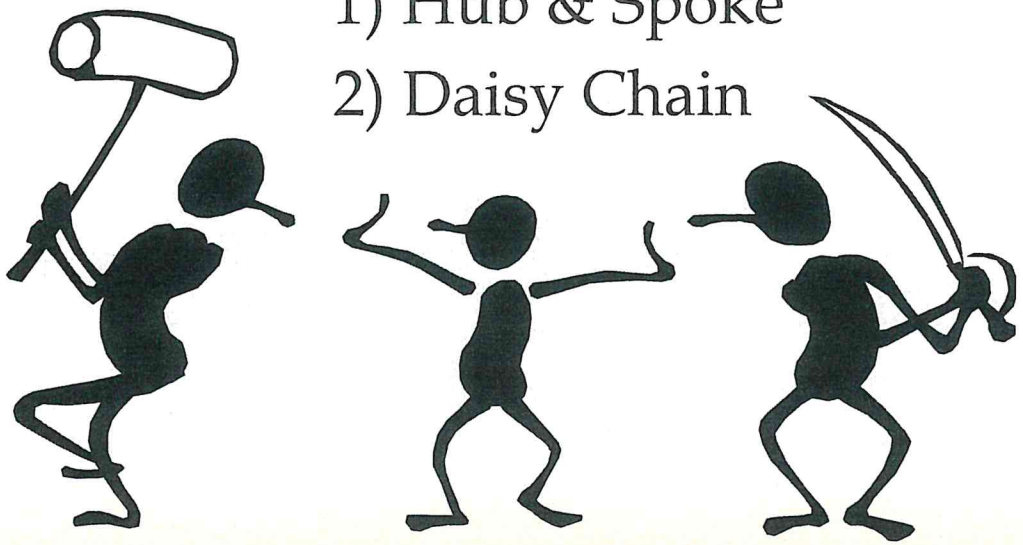
Tragic Meetings

a.k.a. Serial Meetings

A meeting that at one time may involve less than a majority but eventually involves a majority.

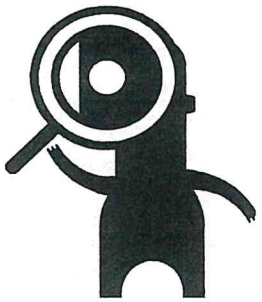
examples:

1) Hub & Spoke
2) Daisy Chain

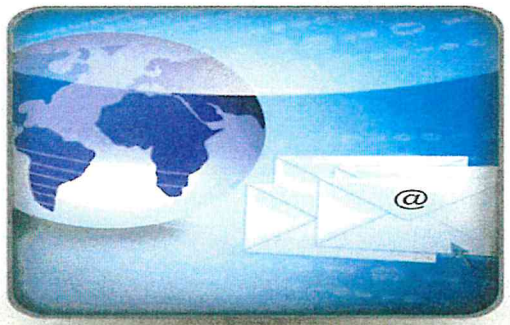


What to Watch OUT for

- Contact with staff



- Contact with Board members
- Contact with constituents, developers and lobbyists
- Technology
  a) Emails
  b) Social Media



Notices & Agendas

- Agendas for regular meetings must be posted 72 hours in advance
- 24 hours for Special Meetings
- 1 hour for Emergency Meetings



Citizens' Control

Purpose of the Brown Act is to ensure the citizens retain control of its government by protecting citizens' rights:



- The right to be informed
  - Agendas
  - Public votes
  - Public records
- The right to meaningful participation
  - Public testimony
  - No conditions to attendance



Right to be Informed

- Public has the right to review agendas and other writings distributed to a majority of the Board
- Documents must be available to public at the meeting if prepared by agency staff
- If prepared by some other person, document must be available after the meeting



Right to Participate

- Public has the right…



  - To have prior notice of meetings and items to be discussed
  - To attend meetings
  - To record meetings, both audio and video
  - To speak on a specific item during its consideration

Public Participation

- Cannot prohibit public criticism of policies, procedures, programs or services of the agency or the acts or omissions of the Board itself.

- May enforce time limits, restrict repetitious or irrelevant comments and prohibit disruptive comments or behavior





Agenda ~ Notice of Items

- Board may **ONLY** discuss those items listed on the agenda



Closed Session

- Executive sessions, closed to the public are permitted in very limited circumstances but these do not generally apply to PRWA



Remedies

- Action taken in violation may be invalidated
- Violation with improper intent is a criminal misdemeanor by a member of the legislative body



Questions?



PALMDALE **RECYCLED WATER** AUTHORITY

PRWA

Advanced Water Treatment & Groundwater Injection

Scott Rogers, P.E. PWD Engineering Manager

June 21, 2021

38300 Sierra Highway, Suite C, Palmdale, CA 93550

Advanced Water Treatment & Groundwater Injection

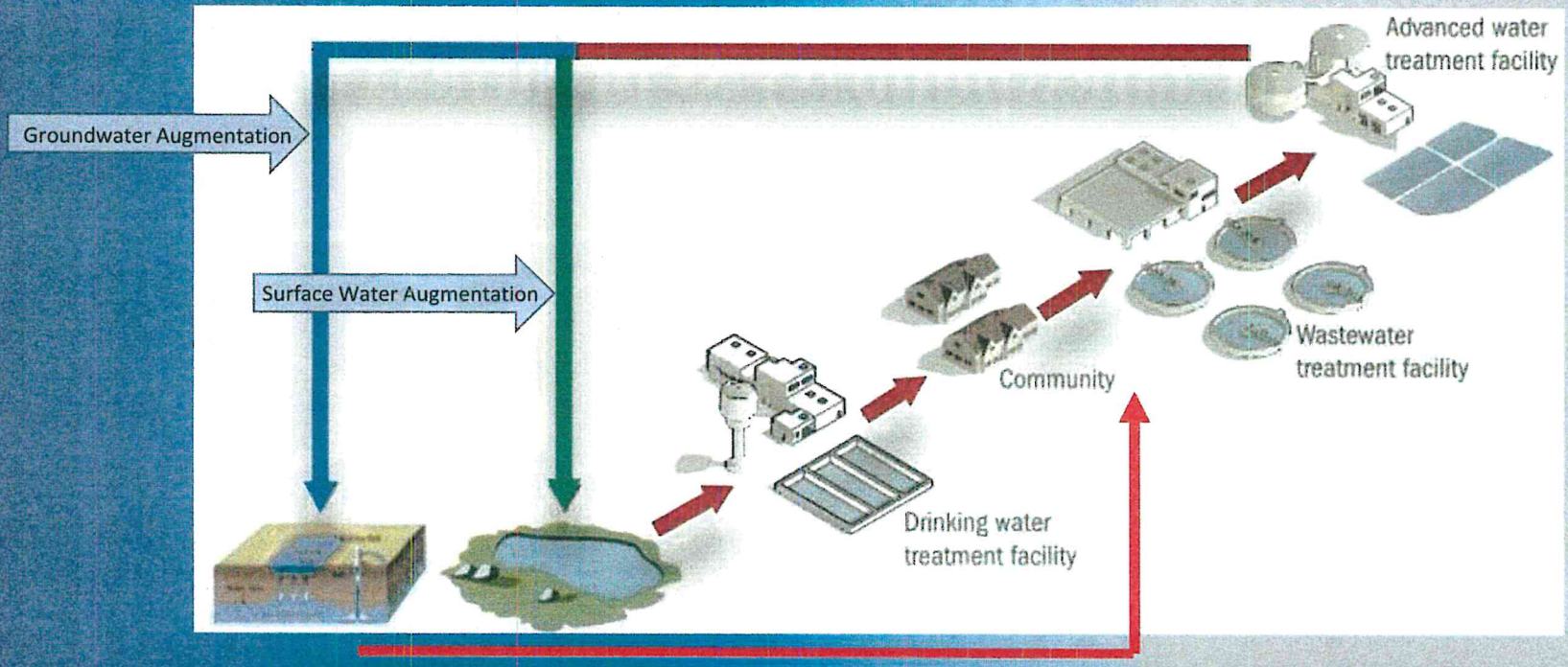
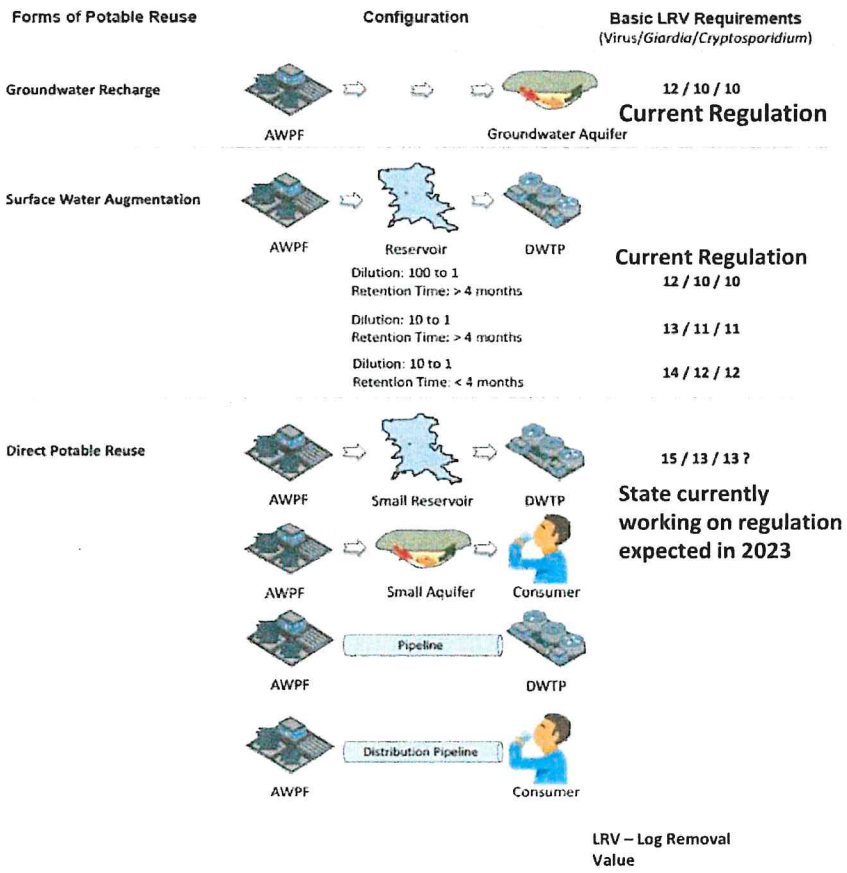


Image Credit – Kentucky-Tennessee Water Environment Association

Tertiary Water Use Options



Below are several options approved or in the process of being approved for utilizing tertiary water.

Indirect

- Groundwater Recharge
  - Replenishment
  - Injection
- Surface Water Augmentation

Direct

- Raw Water Augmentation
- Treated Water Augmentation

Tertiary Water Use Options for Palmdale

The beneficial use of tertiary water from the Palmdale Water Reclamation Plant is important to the future water supply for Palmdale and fully utilizing the 5,325 acre-feet annually helps address it.

- Water Augmentation (Advanced Treatment & Injection)
- Irrigation (purple pipe system)
- Recharge (blend with imported water and spread in basins)

Indirect Treatment Options

Recharge (Surface Spreading)



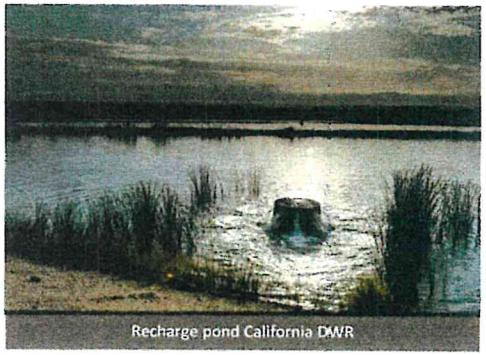
a) Indirect potable reuse using *groundwater replenishment via surface spreading.*

Injection (Subsurface Injection)



b) Indirect potable reuse using *groundwater replenishment via subsurface injection.*

Regulatory Requirements



Recharge pond California DWR



Recycled Water Irrigation at Camp Pendleton

Recharge

- Blend 80% Imported Water with 20% Tertiary Water

Irrigation

- Public Notice
- Infrastructure
- Plumbing Surveys

Groundwater Augmentation

- Treated to very high quality
- Travel time between point of injection to point of withdrawal

What is Groundwater Augmentation?



Tertiary water must be highly treated

Direct injection of water into the groundwater

Currently being done in California

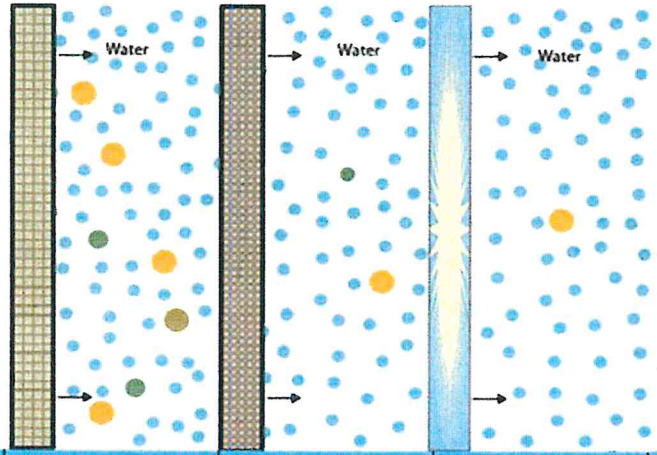
Orange County Water District

Water Replenishment District of Southern California

Monterey One Water

West Basin Municipal Water District

Advanced Treatment Capability



	Membrane Filtration	Reverse Osmosis	UV/AOP	Chlorination
Process Function	Removal of particulate matter	Removal of dissolved solids, organics and pathogens	Destruction of trace organics and disinfection	Disinfection and free-chlorine residual

Pathogen Log Removal					FAT Total
Virus	0	1.5	6	5	12.5
Giardia	4	1.5	6	0	11.5
Cryptosporidium	4	1.5	6	0	11.5

Function of Unit Processes in Full Advanced Treatment (FAT) Train

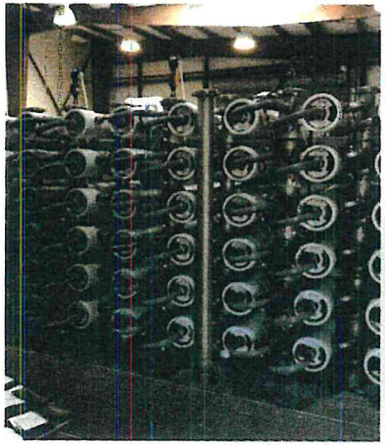
Unit Process	Function
Membrane Filtration	Removal of particulate matter and pathogens
Reverse Osmosis	Removal of dissolved solids, organics and pathogens
Ultraviolet / Advanced Oxidation Process	Destruction of trace organics (e.g. pharmaceuticals and personal care products) and disinfection
Chlorination	To maintain a free chlorine residual in the conveyance pipelines for disinfection

Proposed Advanced Treatment Train

Below are examples of the proposed treatment systems for the Advanced Treatment Train for the Groundwater Augmentation Program.



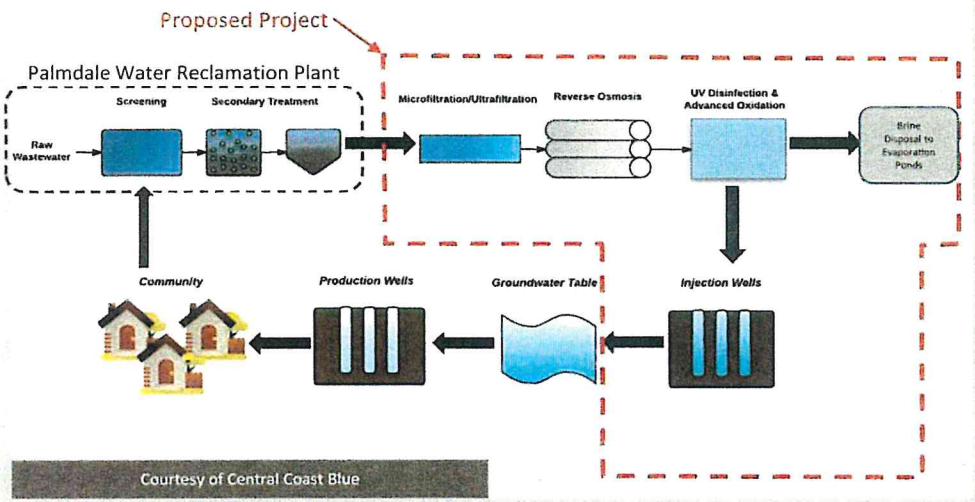
Membrane Filtration System



Reverse Osmosis System



Ultraviolet Light and Advanced Oxidation Process



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THANK YOU