Santa Margarita ASR Site

Outreach Installation Draft Design

Location





July 2021 Board Authorized

- 1. Landscaping design
- 2. Outreach Installation design contract

- 1. Landscaping Design Complete
 - Waiting for recycled water allocation process
- 2. Draft Outreach Installation design complete



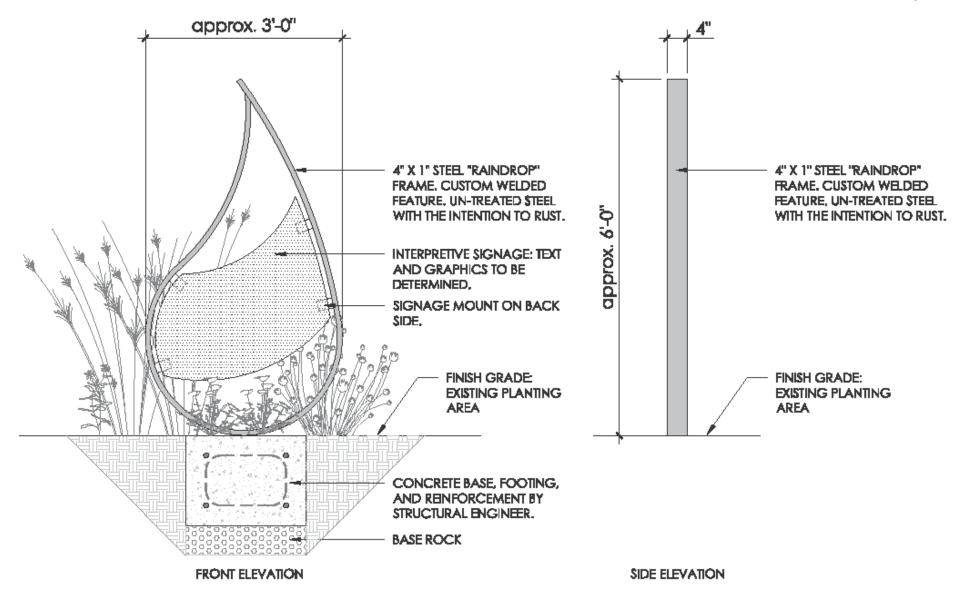
Goals

- 1. Explain ASR
- 2. Seaside Role in Region's Water Supply the Basin
- 3. Carmel River

Logistical Goals

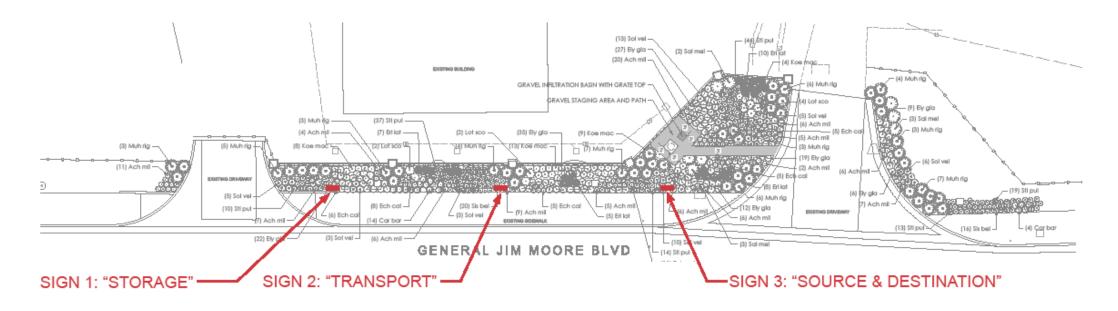
- 1. Minimal words no loitering around the operating facility
- 2. No traffic/bicyclist/pedestrian impact
- 3. Innovative fits with ASR as a water supply and the City of Seaside
- 4. Interesting to the average Joe (get it?)
- 5. QR code for more information

May 9, 2022





INTERPRETIVE SIGN DETAIL

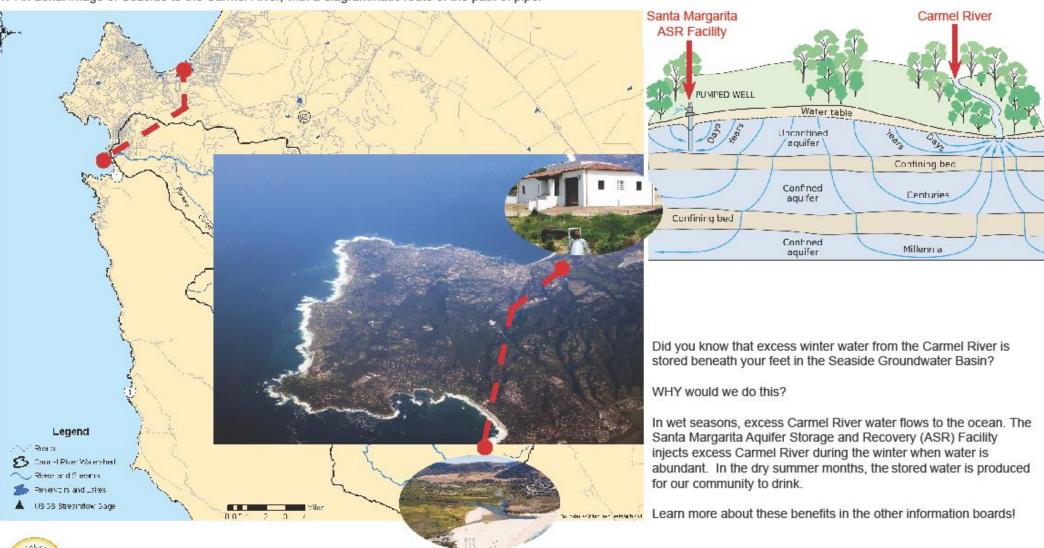




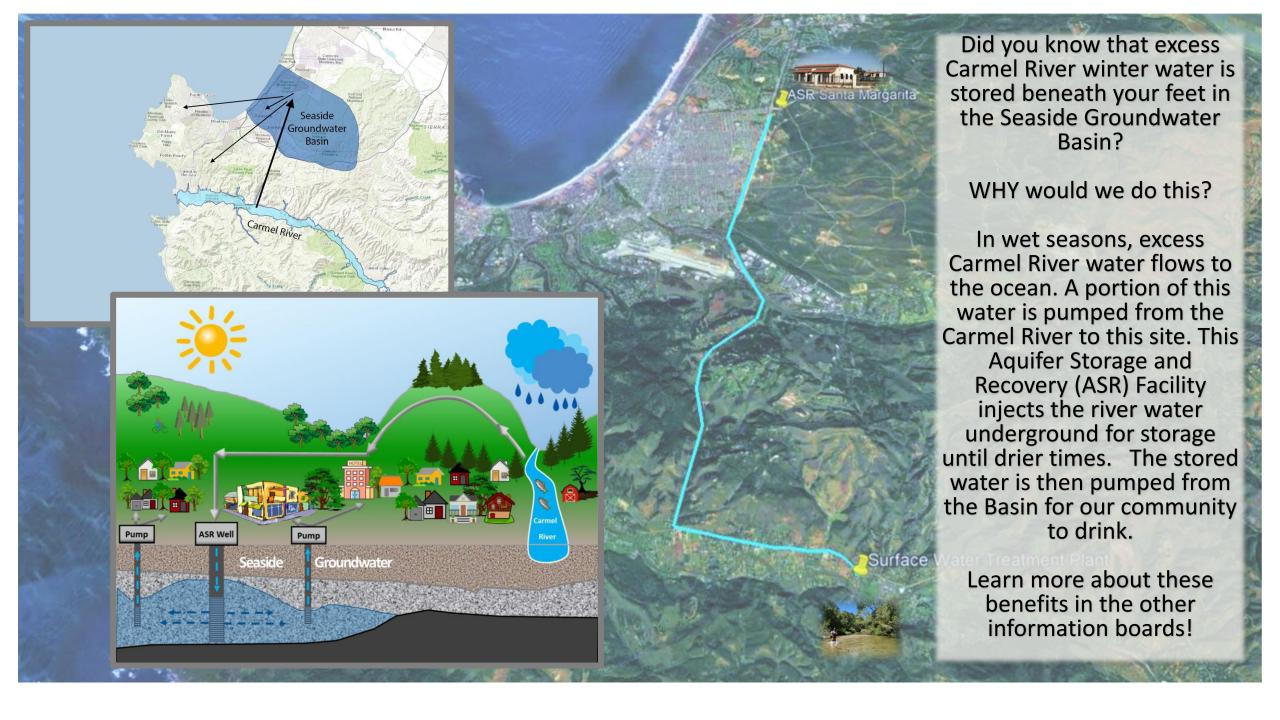


GRAPHICS NEEDED:

1. An aerial image of Seaside to the Carmel River, with a diagrammatic route of the path of pipe.



INTERPRETIVE SIGN "ASR"



GRAPHICS NEEDED:

- 1. Perspective aerial of Seaside cross section of ASR facility to aquifer. Show extents of aquifer, depth.
- 2. A diagram of the Santa Margarita ASR facility pump station.

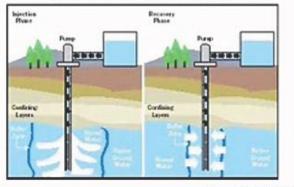




INTERPRETIVE SIGN "STORAGE"

Aquifer Storage and Recovery

 Pumping in excess potable water, then pumping out the same potable water that was pumped in



www.waterencyclopedia.com

Did you know you are standing on top of the Seaside Groundwater Basin?

The Seaside Groundwater Basin is a natural feature made up of sediment that becomes saturated with groundwater. Essentially the aquifer is a large underground storage tank! Water is held in the aquifer by impermeable rock layers.

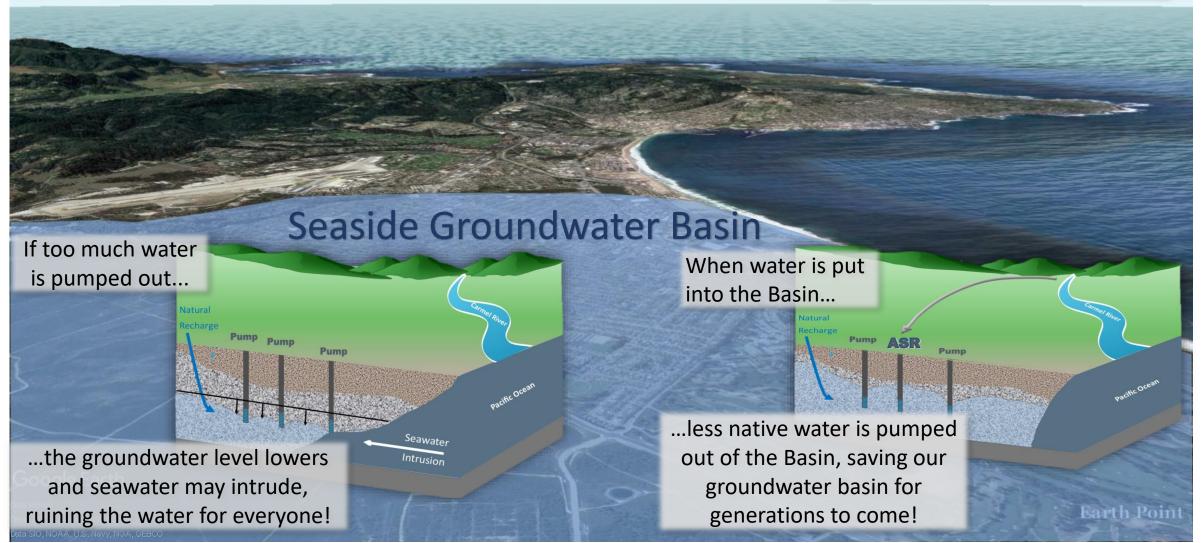
An aquifer is NOT an underground lake or river.

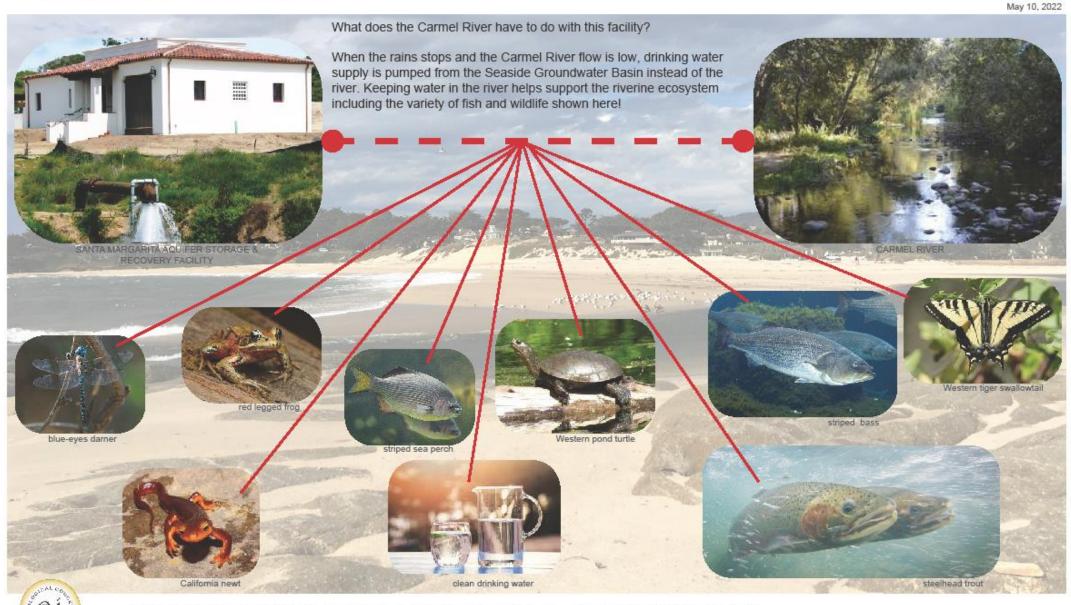
The Santa Margarita Aquifer Storage and Recovery (ASR) Facility in front of you facilitates storage of excess Carmel River water in the basin.

Learn more about why this is done in the next information boards!

The Seaside Groundwater
Basin is hundreds of feet
below where you are
standing!

It can hold almost 16 BILLION gallons of water! It is the Monterey Peninsula's groundwater basin and provides storage for water projects like Aquifer Storage and Recovery and Pure Water Monterey.





INTERPRETIVE SIGN "SOURCE & DESTINATION"

Next Steps

- 1. Committee feedback
- 2. City concurrence
- 3. Fund, grant (?)
- 4. Graphic design, esthetics and print quality
- 5. Construct!

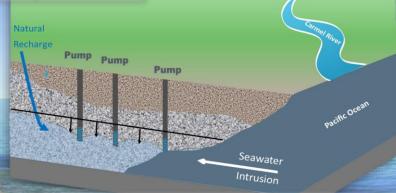
Questions and Comments?

The Seaside Groundwater Basin is hundreds of feet below where you are standing! Seaside Groundwater Basin It can hold almost **16 BILLION gallons** of water!

It is the Monterey Peninsula's groundwater basin and provides storage for water projects like Aquifer Storage and Recovery and Pure Water Monterey.

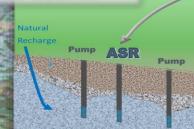
Google Earth

Data MBARI Data LDEO-Columbia, NSF, NOAA Data SIO, NOAA, U.S. Navy, NGA, GEBCO If too much water is pumped out...



...the groundwater level lowers and seawater may intrude, ruining the water for everyone!

When water is put into the Basin...



...less native water is pumped out of the Basin, saving our groundwater basin for generations to come!

Earth Point

Explain ASR

- Clipart river to injection well, production to towns
 - Few words
- Map with water bodies
- Map with pipeline(?)

Seaside Groundwater Basin

- Clip art
 - Depth
 - Wells
- Map of basin
- View from basin to Pensinula
- Role of SGB in Peninsula water supply
- Help keep our groundwater safer from sea water intrusion

Benefit to Carmel River

- Winter lots of rain goes to the ocean
- Take the water in the winter when it is plentiful
- Store underground here
- Produce the water for humans in the summer when we need it!
- Keeps the river wetter and helps the animals

