



Charting Local Waters:

San Dieguito Groundwater Study

An OMWD Sustainable Supplies Project

Presented by:

OMWD Project Team

December 4, 2018





State of Water in California

- OMWD reliant on imported water
- Imported water more expensive
- Water costs on rise
- Imported water more vulnerable





Feasibility Study



Examined
amount of
groundwater
available



Assessed
water quality



Evaluated
treatment
options



Identified land
for project
needs



Developed
cost estimate



Compared cost
to other
options





Feasibility Study Findings

- Project Feasible and Sustainable at 1 MGD, or More
- Cost-Competitive With Imported Water, Less than Desalinated Seawater
- South Valley Wellfield Preferred, Not Influenced by Surface Water
- Meet State and Federal Drinking Water Regulations
- Brine Disposal via SEJPA Ocean Outfall







Pilot Test Well Concept

Test well will examine:



Water balance of groundwater basin



Potential impacts on current wells

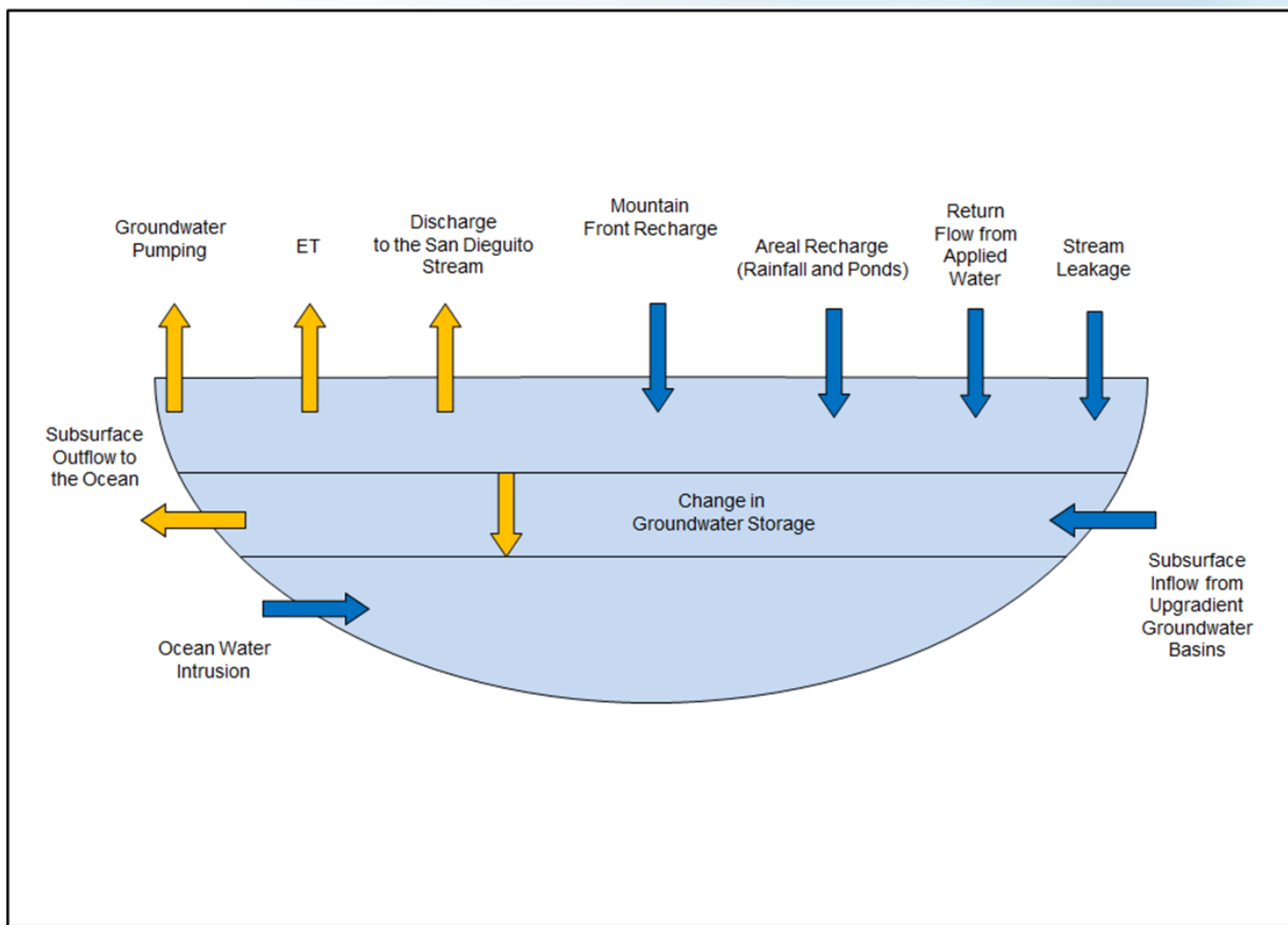


Water treatment technologies





Water Balance Components





Permitting Process

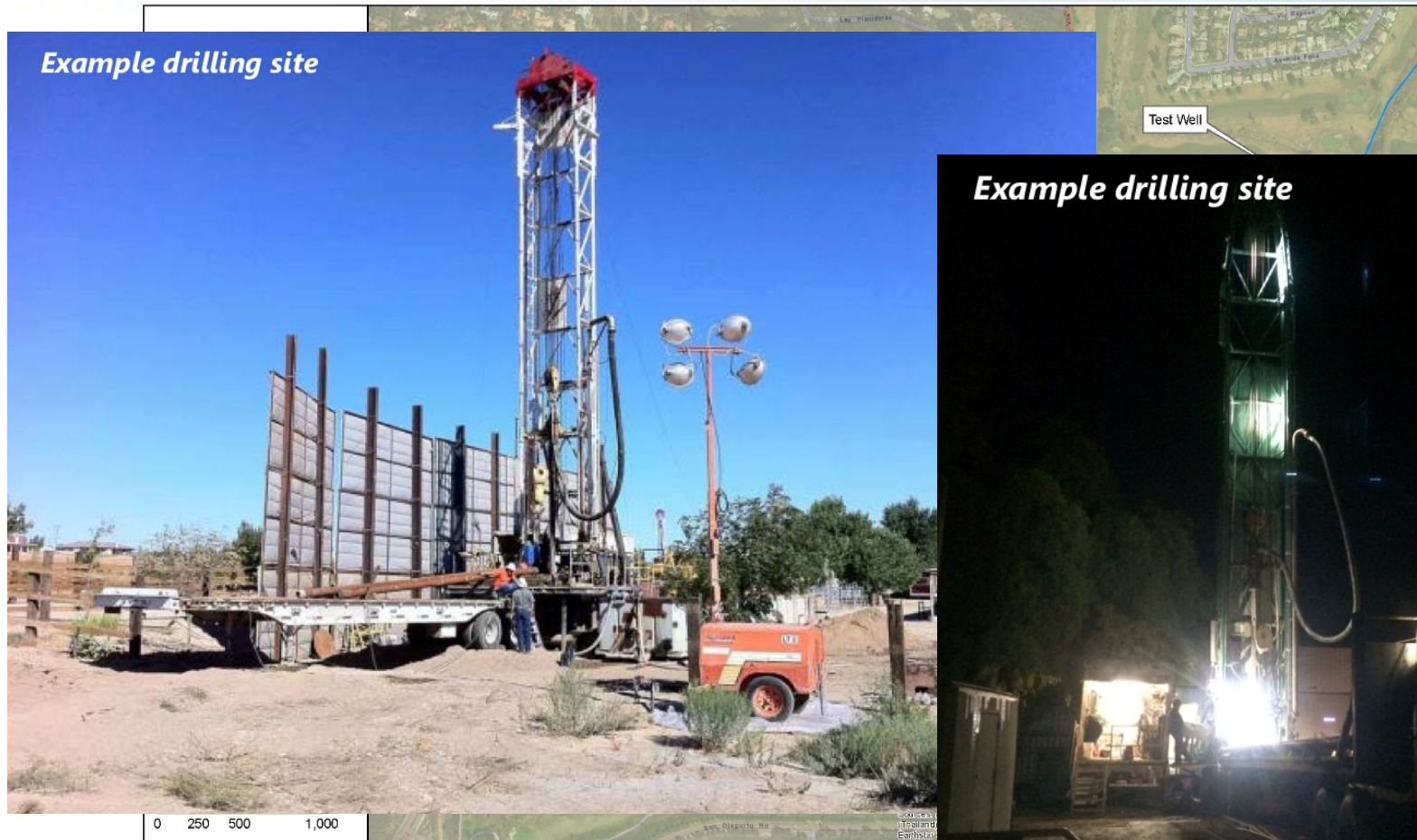
- Site Selection
- City of San Diego Approval/ Easements
- Discharge Permit
- California Environmental Quality Act
- Well Drilling Permit





Pilot Test Well Installation

Example drilling site



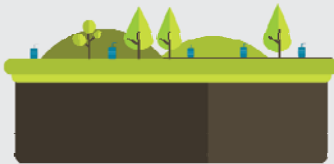
Example drilling site





How Pilot Test Well fits into Overall Project

Wells



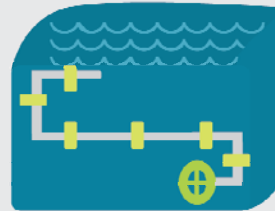
Wells located in the San Dieguito Valley Basin.



Groundwater delivered from wells to new desalination facility.



Desalination Facility



Water processed at desalination facility via reverse osmosis. Brine management method alternatives analysis under-way.



Potable water delivered to OMWD customers.



Customers



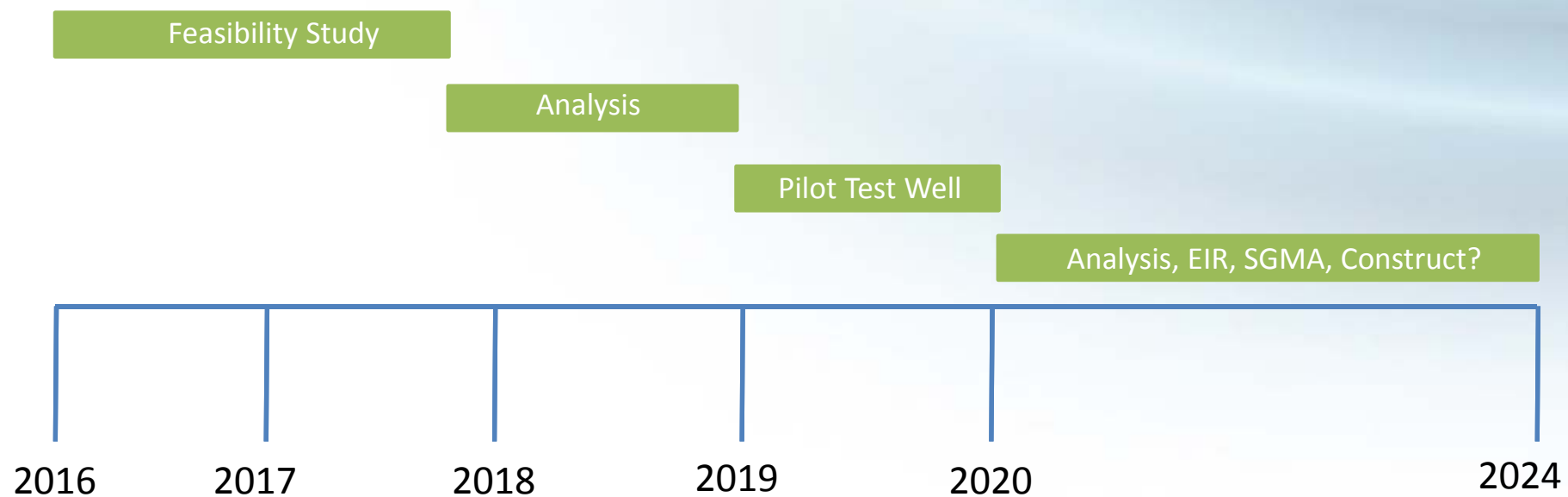
Potable water available for uses like drinking and fire protection.



OLIVENHAIN
Municipal Water District



Timeline





Funding

- Feasibility Study
 - \$500k
 - \$250k Funded by DWR Grant
- Pilot Test Well
 - \$1.3M - \$1.5M
 - \$650k Funded by DWR Grant
- Ultimate Project (if approved)
 - Approximately \$30M
 - CIP Fund/ Future Grants





Q&A

www.olivenhain.com/groundwater

Joey Randall
jrandall@olivenhain.com
760-753-6466



OLIVENHAIN
Municipal Water District



San Dieguito Groundwater Basin Hydrostratigraphy

