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Desalting and Water Purification Research Program

Dana Point Ocean Desalination Test Slant Well Project.

DWPR Project #151 – Municipal Water District of Orange County & Geoscience Support Services Inc.



Subsurface intake for proposed seawater desalination facility treating 50 million gallons per day.

Objectives of Short Term Testing

- Determine vertical and lateral extent of alluvium at mouth of the San Juan Creek
- Determine hydraulic conductivity
- Measure water quality
- Determine impact on freshwater-saltwater interface.

Advantages of Subsurface Intake

- Slow sand pre-filtration
- Potentially lower life cycle costs and
- No entrainment or impingement impacts
- No ocean construction impacts,
- Protection from shock loads due to storms, spills, red tides, and urban runoff

