Overview

- Purpose, goals and objectives
- Challenges
- Amendments
- Work completed
**Purpose:** reduce potential for high public health risks in water and/or wastewater systems

**Goal:** provide funding to address water supply & water quality issues affecting rural DACs & tribal communities

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**Objectives**

- Recognize and support rural DACs and tribal communities in implementing critical water projects
- Provide outreach and Prop 84 funding to DACs and tribal communities
- Outreach to DACs to promote capacity development
Original Grant Proposal

- DAC project selection
- Lead DAC stakeholder group
- Provide DAC outreach
- Disperse funding to selected DACs
- Provide project oversite and TA

Project Budget Vs. Final Costs

<table>
<thead>
<tr>
<th>Budget Category</th>
<th>Original Budget</th>
<th>Amended Budget</th>
<th>Final Project Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A: Direct Project Administration Costs</td>
<td>$10,000</td>
<td>$32,232</td>
<td>$32,232</td>
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<tr>
<td>C: Planning/Design/Engineering/Environmental Documentation</td>
<td>$155,000</td>
<td>$268,268</td>
<td>$276,221</td>
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<tr>
<td>D: Construction/Implementation</td>
<td>$324,000</td>
<td>$200,018</td>
<td>$199,915</td>
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<td>F: Construction Administration</td>
<td>$26,000</td>
<td>$14,482</td>
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<td><strong>TOTAL</strong></td>
<td><strong>$515,000</strong></td>
<td><strong>$515,000</strong></td>
<td><strong>$522,851</strong></td>
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</table>
Project Challenges

- State requirements not tribal-friendly
- Revisions to Scopes of Work
- Lengthy approval processes and reimbursement turn-around time

Project Amendments

- Amendment No. 1 identified DAC local project partners and scopes of work
- Amendment No. 2 revised La Jolla Tribe’s project and extended project period
- Amendment No. 3 realigned schedule and budget to latest scope of work
1) Quiet Oaks Mobile Home Park Nitrate Study Project

2) La Jolla Reservation (Poomacha) Potable Water Pipeline Replacement Project
Quiet Oaks Mobile Home Park Nitrate Study

Quiet Oaks Mobile Home Park
- Public water system (CA3701341)
- Provides potable water to ~35 service connections
- Documented, recurring nitrate exceedances since 2011
- Nitrate concentrations ~13ppm

Existing Facilities
- One active potable water well (Well No. 3); one inactive/non-potable well (Well No. 1); one abandoned well
- 42,000-gallon bolted steel tank
- Booster pumps deliver water to distribution system from tank
Well Investigations – December 2016

- Well No. 1 – Well Depth 196 feet
  - Scaling on casing evident from depth of 10 feet
  - Slots in well casing start at 60 feet
  - Static water level ~122 feet
  - Well casing slots largely plugged by encrustations starting at 165 feet
  - Indication that well is only drawing from the upper portion of the aquifer, more susceptible to higher nitrate levels.

Quiet Oaks Mobile Home Park – Nitrate Solutions

Shallow bedrock = Deeper wells not an option
Well Redevelopment – Spring 2019
- Open perforations at lower depths of the wells
- Resampling post-redevelopment for nitrate
- Evaluate effectiveness of redevelopment / how far did nitrate concentrations fall

Treatment
- Not ideal – Additional operations costs, retaining a qualified operator in remote area, disposal of waste, etc.
- 30% design of treatment system
- Booster pumps deliver water to distribution system from tank
- Finishing environmental documentation – Application to State Waterboards for funding treatment plant construction
Thank you!

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