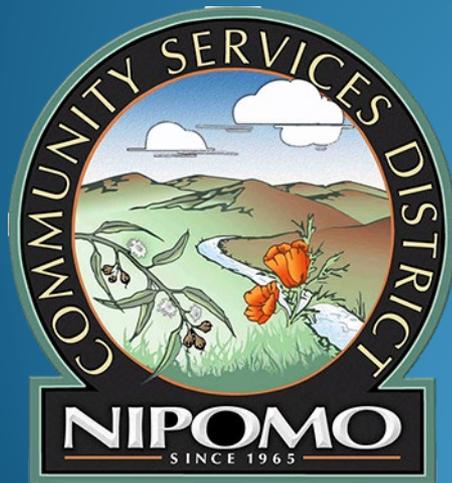


# Engineering and Operations Update – January 2021 to March 2021



Peter V. Sevcik, P.E.  
Director of Engineering and Operations  
Nipomo Community Services District  
April 14, 2021

# Projects in Construction

## Supplemental Water Project Joshua Road Pump Station Pump #1-4 Improvements

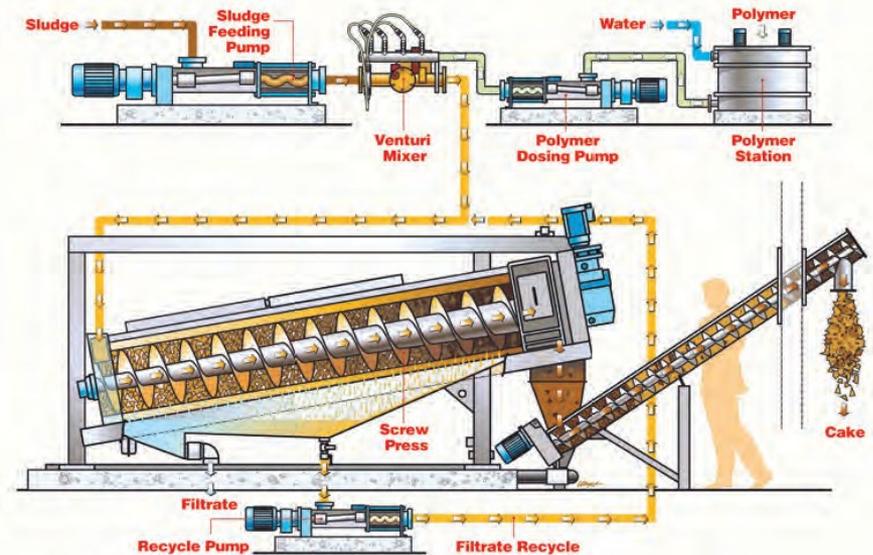
- Contract cost - \$385,149
- Notice to proceed issued – 8/19/2020
- Original projected completion date – 5/3/2021
- Pump delivery impacted by COVID-19
- Revised projected completion date – 9/2021



# Projects in Construction

## Southland WWTF Screw Press

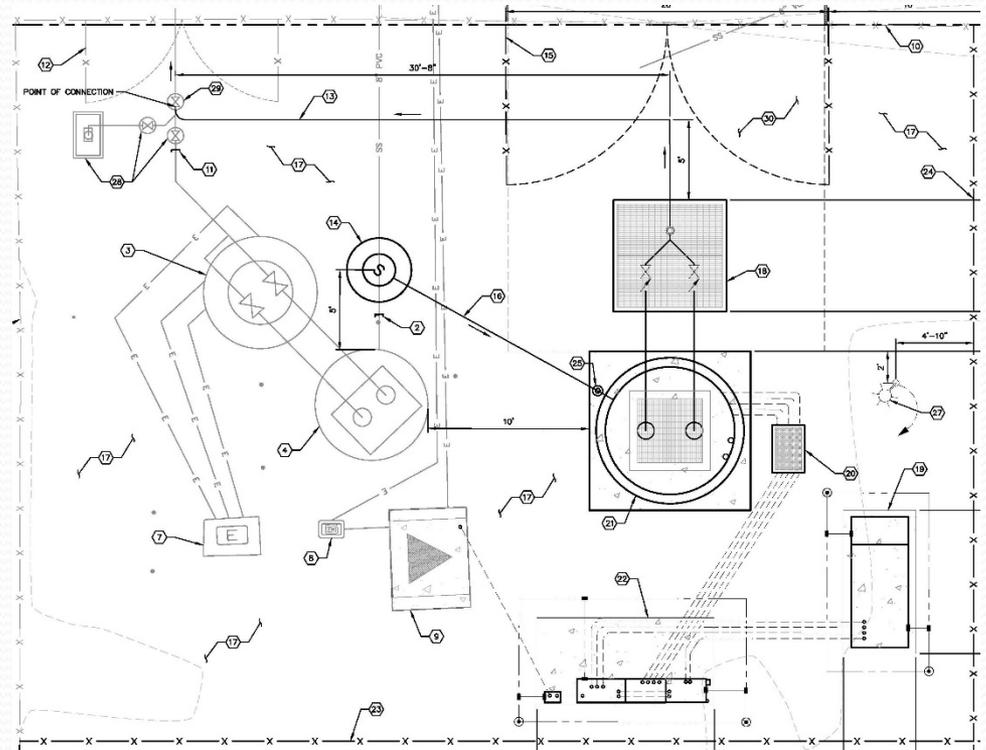
- Contract Cost – \$969,200
- Notice to Proceed Issued – 12/21/2020
- Projected Completion Date – 11/15/2021
- Time elapsed to date – 28.5%
- Work completed to date – 30.9%



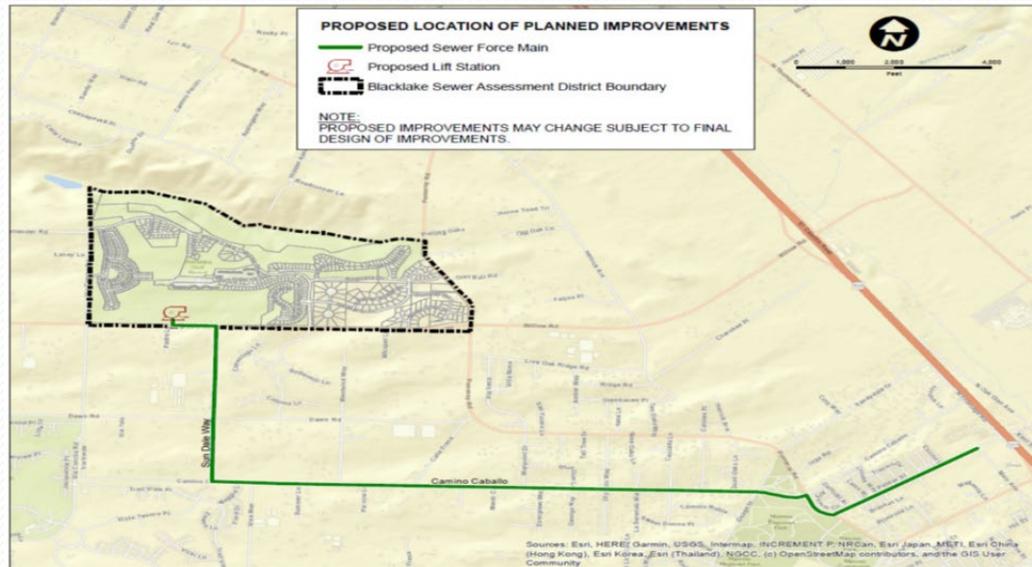
# Projects in Construction

## Nipomo Palms Lift Station Replacement

- Contracted awarded – 3/24/2021
- Notice to Proceed Pending
- Anticipated construction duration 270 calendar days



# Blacklake Sewer System Consolidation Project



- Construction of lift station and force main to pump wastewater to Southland Wastewater Treatment Facility
- Decommission existing Blacklake Water Reclamation Facility

# Blacklake Sewer System Consolidation Project

## Contracts to Date

- Permitting assistance contract approved – 7/2020
  - Southland WWTF and Blacklake WRF permitting in progress
- Design contract for lift station and force main approved – 8/2020
  - 30% design in progress
- Flow monitoring contract approved – 10/2020
  - Completed
- CEQA contract approved – 12/2020
  - Initial study in progress

# Blacklake Sewer System Consolidation Project

## Schedule milestones

- Design completion – 12/2021
- Permitting completion – 12/2021
- Board authorization to bid – 1/2022
- Board construction contract award – 5/2022
- Construction completion date – 3/2024

# Blacklake Sewer System Consolidation Project

## BLACKLAKE SEWER SYSTEM CONSOLIDATION PROJECT STATUS REPORT DATE 2/28/2021

Item	Description	Project Budget Costs	Contract Costs Authorized to Date	% Budget Contract Costs Authorized to Date	Actual Costs to Date	% Budget Actual Costs to Date
1	Blacklake Lift Station	\$ 605,550	\$ -	0.0%	\$ -	0.0%
2	Force Main	\$ 5,162,350	\$ -	0.0%	\$ -	0.0%
3	WRF Demolition	\$ 915,400	\$ -	0.0%	\$ -	0.0%
4	<b>Construction Total</b>	<b>\$ 6,683,300</b>	<b>\$ -</b>	<b>0.0%</b>	<b>\$ -</b>	<b>0.0%</b>
5	Permitting (CEQA)	\$ 116,240	\$ 32,351	27.8%	\$ 6,067.00	5.2%
6	Engineering Design	\$ 871,800	\$ 647,090	74.2%	\$ 224,710.43	25.8%
7	Construction Management and Inspection	\$ 871,800	\$ -	0.0%	\$ -	0.0%
8	Contingency	\$ 1,743,600	\$ -	0.0%	\$ -	0.0%
9	<b>Total Project Cost</b>	<b>\$ 10,286,740</b>	<b>\$ 679,441</b>	<b>6.6%</b>	<b>\$ 230,777.43</b>	<b>2.2%</b>

### Notes:

- 1
- 2
- 3
- 4
- 5 SWCA \$32,351
- 6 Cannon \$594,612; MKN \$44,828; Downstream Services \$7650
- 7
- 8
- 9 Estimated Project Cost Included in Assessment Engineer's Report \$10,286,740

# Blacklake Sewer System Consolidation Project

## California Environmental Quality Act (CEQA) Compliance

- Project Description and Notice of Preparation
- California Red Legged Frog habitat assessment
  - Survey in early April
  - Informal consultation with US Fish and Wildlife Service
- Botanical surveys
  - Survey in June for regular spring blooming season
  - Survey in July for Pismo clarkia
- Cultural resources
  - Native American Heritage Committee records search
  - Tribal consultation



# Blacklake Sewer System Consolidation Project

## Lift station site considerations

- Use of site, long-term
- Ease of ingress/egress from Willow Road
- Cost of construction
- Impact to operations during construction
- Construction staging
- Location B is recommended location

# Blacklake Sewer System Consolidation Project

## Lift station design

- Two trains, two pumps in series per train, first and second stages in dry pit, recommended option
  - 240 feet total head at 220 gpm
  - Multiple pump manufacturers can meet requirements
  - Allows for competitive bidding
- Hydraulic surge protection tank
- Odor control system – oxygen injection system

# Blacklake Sewer System Consolidation Project

## Force main design

- 20,000 feet approximate length
- 6-inch IPS HDPE recommended
- 20,500 gallon volume
- 2.4 exchanges per day



# Other Projects in Design

## Southland WWTF Blower #3

- Board authorization to purchase equipment – 1/13/2021
- Equipment ordered
- Blower delivery anticipated – 4/2021
- VFD delivery anticipated – 5/2021
- Completion anticipated – 6/2021

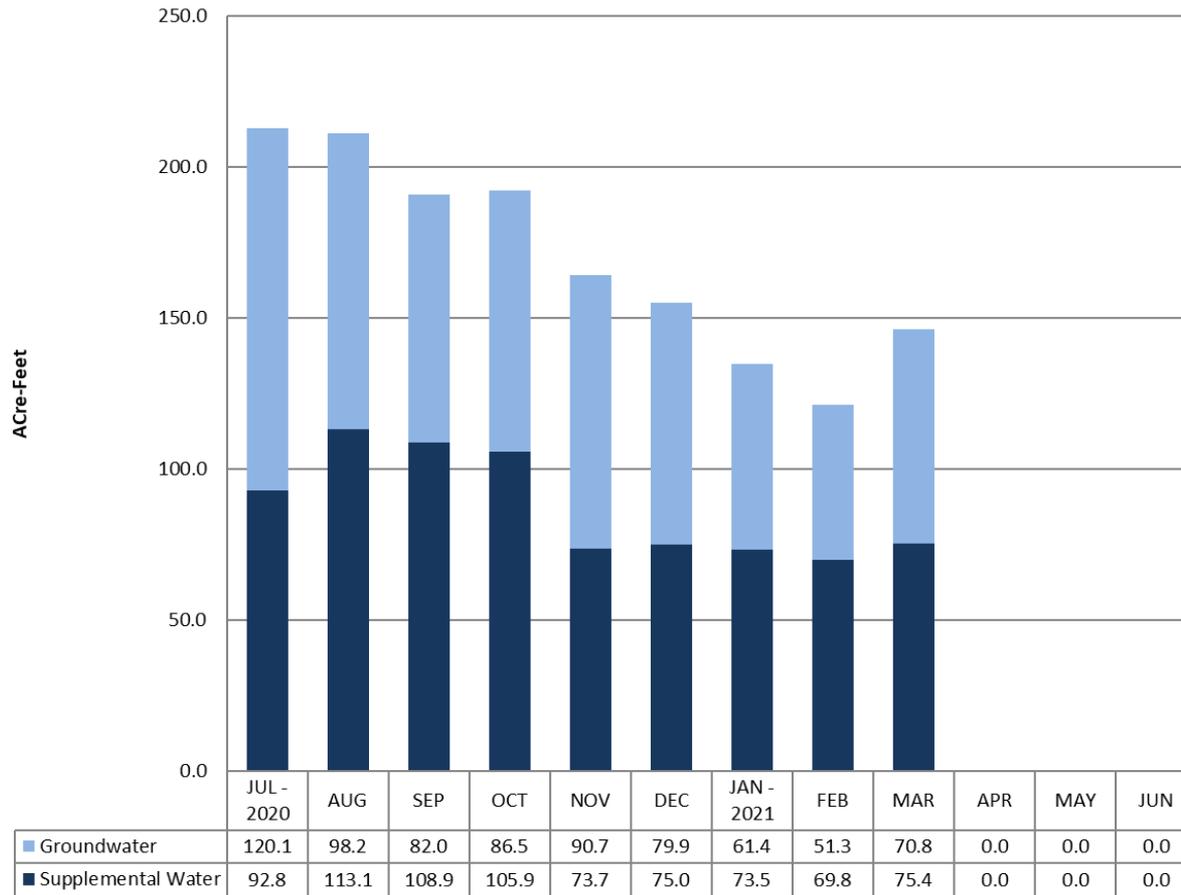


# Other Projects in Design

- Eureka Well #2 Pump and Controls
  - 90% design in progress
- Branch Street Watermain Replacement
  - 90% design in progress
- Woodgreen Lift Station
  - 90% design in progress
- Supplemental Water Project Interconnects
  - Woodlands easement pending
- District Office Generator
  - 30% design in progress

# Operations – Water System

**FY 2020-2021 Water Production**



<b>Supplemental Water</b>	<b>788.3 AF</b>
<b>Groundwater</b>	<b>740.9 AF</b>
<b>FY 20-21 Total Production To Date</b>	<b>1529.2 AF</b>

# Operations – Water System

- **Regulatory**

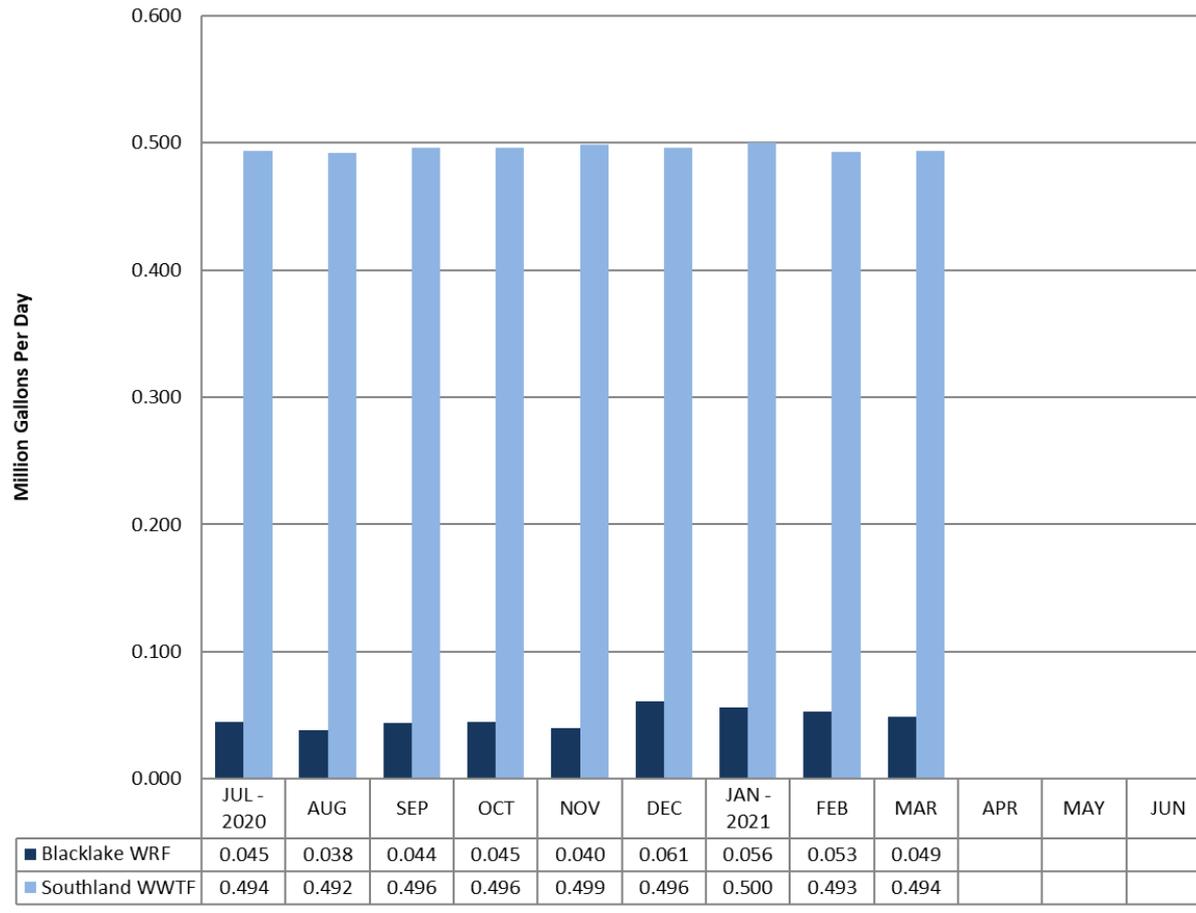
- State Water Resources Control Board Division of Drinking Water
  - Submitted routine monthly coliform, quarterly raw water coliform, quarterly nitrate, quarterly disinfection byproducts
- SLO County Environmental Health Department
  - Hazardous Material Business Plan Inspection

- **Other Water Operations**

- Water system data management software implementation
- Dead end flushing continued to take significant effort
- Sedaru 811 implemented

# Operations – Wastewater

**FY 2020-2021 Average Daily Flow**



<b>Blacklake WRF</b>	<b>12.9 MG</b>
<b>Southland WWTF</b>	<b>135.8 MG</b>
<b>FY 20-21 Total Wastewater Flow Treated To Date</b>	<b>148.7 MG or 456 AF</b>

# Operations – Wastewater System

- **Regulatory**

- State Water Resources Control Board
  - Routine monthly and quarterly reports submitted
- Air Pollution Control District
  - Annual inspection of wastewater treatment facilities

- **Other Wastewater Operations**

- Blower #1 failure

# COVID-19 Response Current Status

- Following CDC, state and local guidance
- Most operations employees vaccinated
- Staff working normal schedule
- Performing normal operations and maintenance tasks
- Monitoring inventory and availability of critical services, materials and supplies
- Continuing work on construction projects but schedules are being impacted due to delivery delays of equipment

# Engineering and Operations

## Questions