



Engineering Design Service

Operations Committee

October 20, 2023



Tocaloma Booster Pump Station Background



- Built in the 1960's
- Supplies San Geronimo Water Treatment Plant with water from Nicasio Reservoir
- Total of 6 vertical turbine pumps
 - (1) 200 HP Pump
 - (5) 400 HP Pumps
- Obsolete electrical equipment

Tocaloma Booster Pump Station



Pump #2 Motor Starter



400 HP Motors and Pumps

Tocaloma Booster Pump Station Engineering Services Contract



- Rehabilitate and replace obsolete equipment to decrease risk of failure
- Project is budgeted for FY24 - FY26
- Proposals are due November

Phoenix – Bon Tempe Connection Background



- Water is pumped from Phoenix Lake to Bon Tempe Treatment Plant during recent droughts
- Establish permanent connection between Phoenix Lake and Bon Tempe Lake
- Identified as one of the Districts no regrets project allowing us to make better use of Phoenix Lake

Phoenix – Bon Tempe Connection



Phoenix – Bon Tempe Pump Station Engineering Service Contract



Phoenix Lake Barge Pump



Bon Tempe Head Works

San Geronimo Treatment Plant Roof Replacement Project Background



- The roof was replaced in 2004 with a Thermoplastic Polyolefin (TPO) roof membrane
- Staff have identified leaks in the roof and dry rot problems
- TPO membranes are non combustible but embers can burn holes thru them

San Geronimo Treatment Plant Roof Replacement Engineering Service Contract

- Thermoplastic Polyolefin (TPO) roof last 10-20 years
- The new steel roof has expected service life between 50-70 years & Fire Hardening
- Require structural modifications
- Issued RFP
- Project budgeted for FY 24



Soulajule Pipeline Project Background



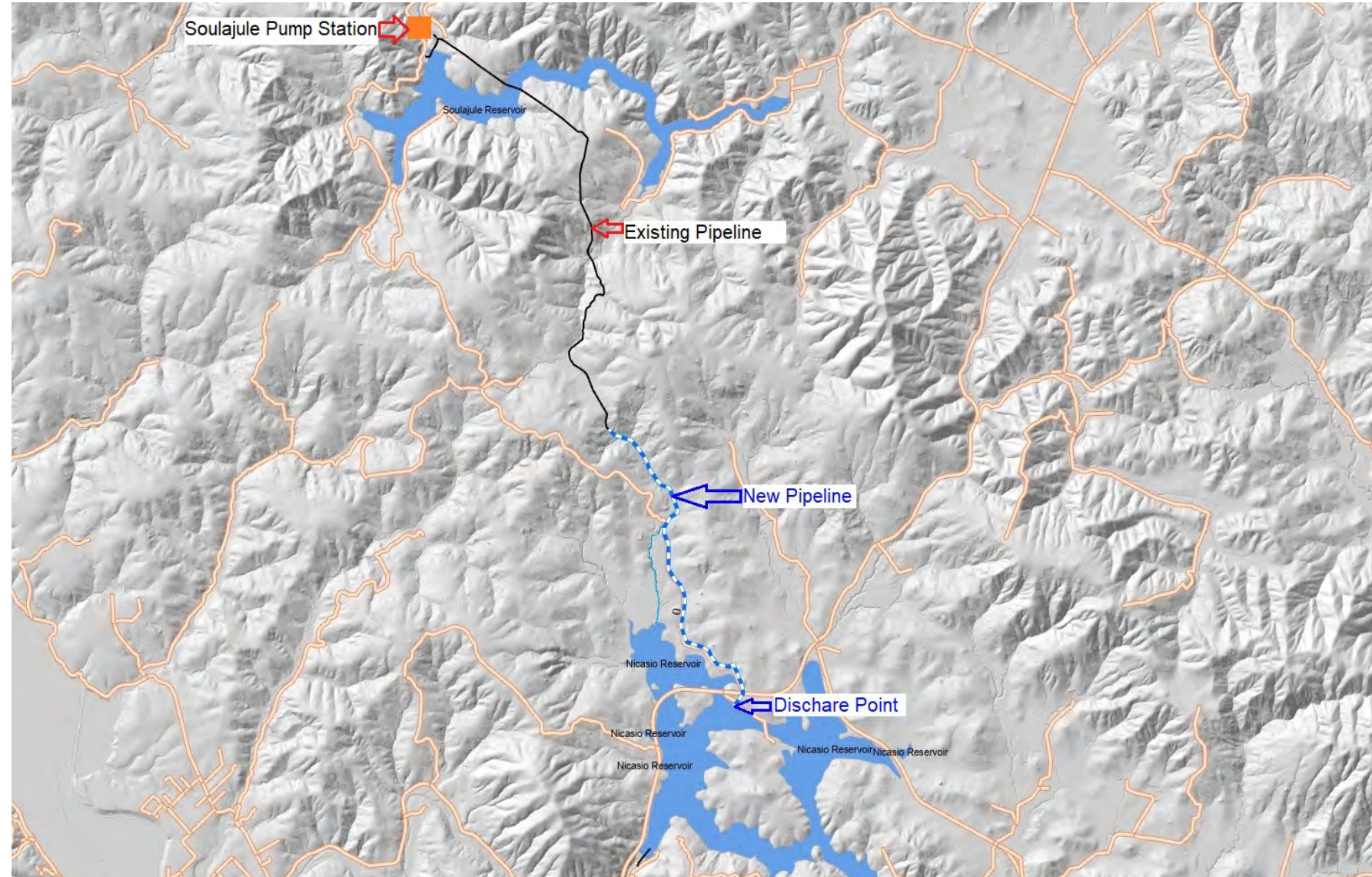
Discharge Point from Soulajule, May 2021



Cattle crossing bridge, April 2021

Soulajule Pipeline Project Engineering Services Contract

- Project in support of Soulajule Electrification Project
- Pipeline addresses soil absorption and evaporation
- Project Complexities
- Resource commitment
- Issued RFP
- Project budgeted for FY 24 thru 26



Next Steps

- Staff issued request for proposals for the Tocaloma, Phoenix/Bon Tempe, SGTP Roof and Soulajule projects in October, 2023
- Staff will be receiving and evaluating all the proposals in November, 2023
- After staff reviews and evaluates the proposals, staff will return to the Board at a future date for award of contract.
- Staff and selected consultant teams will start design on all four of these projects early next year.

