



CEQA Scoping Meeting Presentation

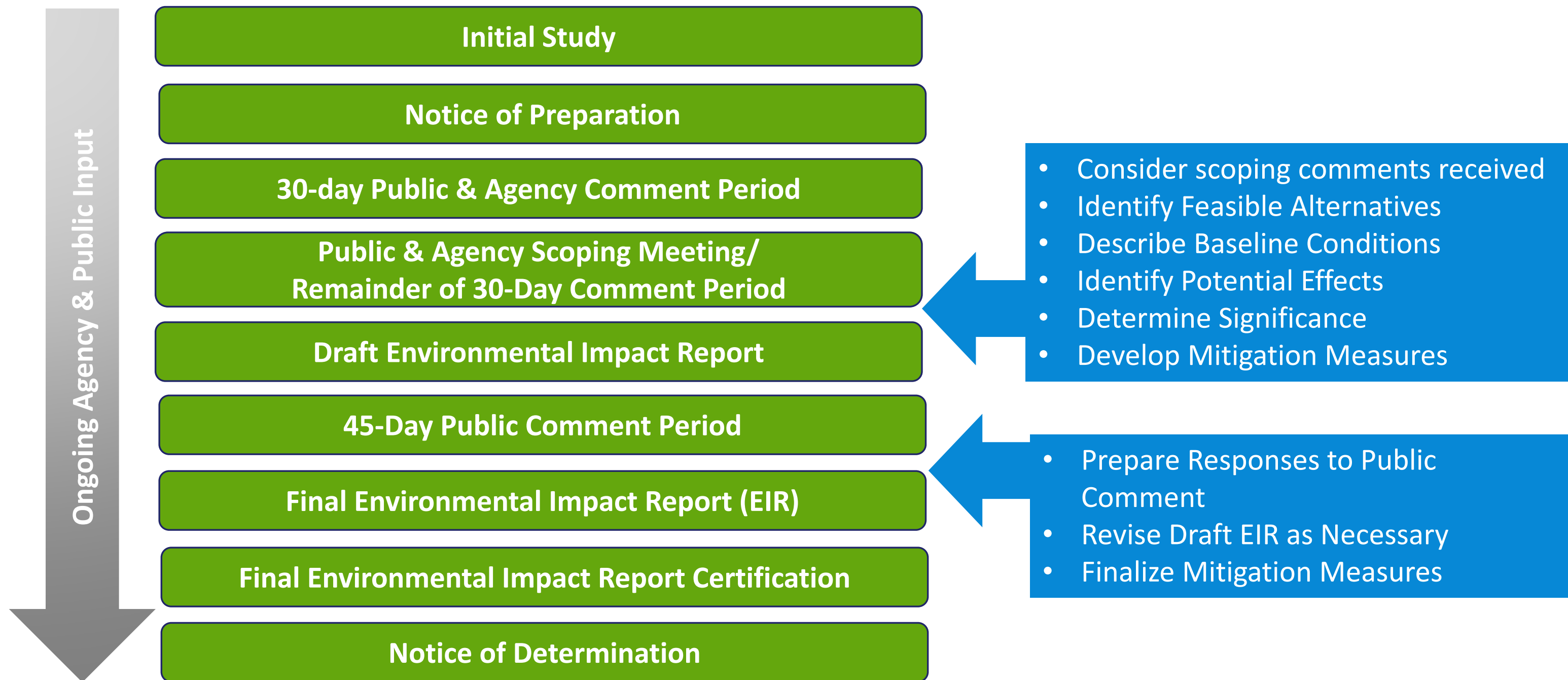
Design Level Geotechnical Investigations for the Pacheco Reservoir Expansion Project

California Environmental Quality Act (CEQA)

Environmental Impact
Report – Public and
Agency Scoping Meeting



California Environmental Quality Act Process



Scoping Meeting Purpose

- Provide orientation and updates on the Design Level Geotechnical Investigations (DLGI) for the Pacheco Reservoir Expansion Project and EIR
- Solicit input on scope and content to be included in the EIR

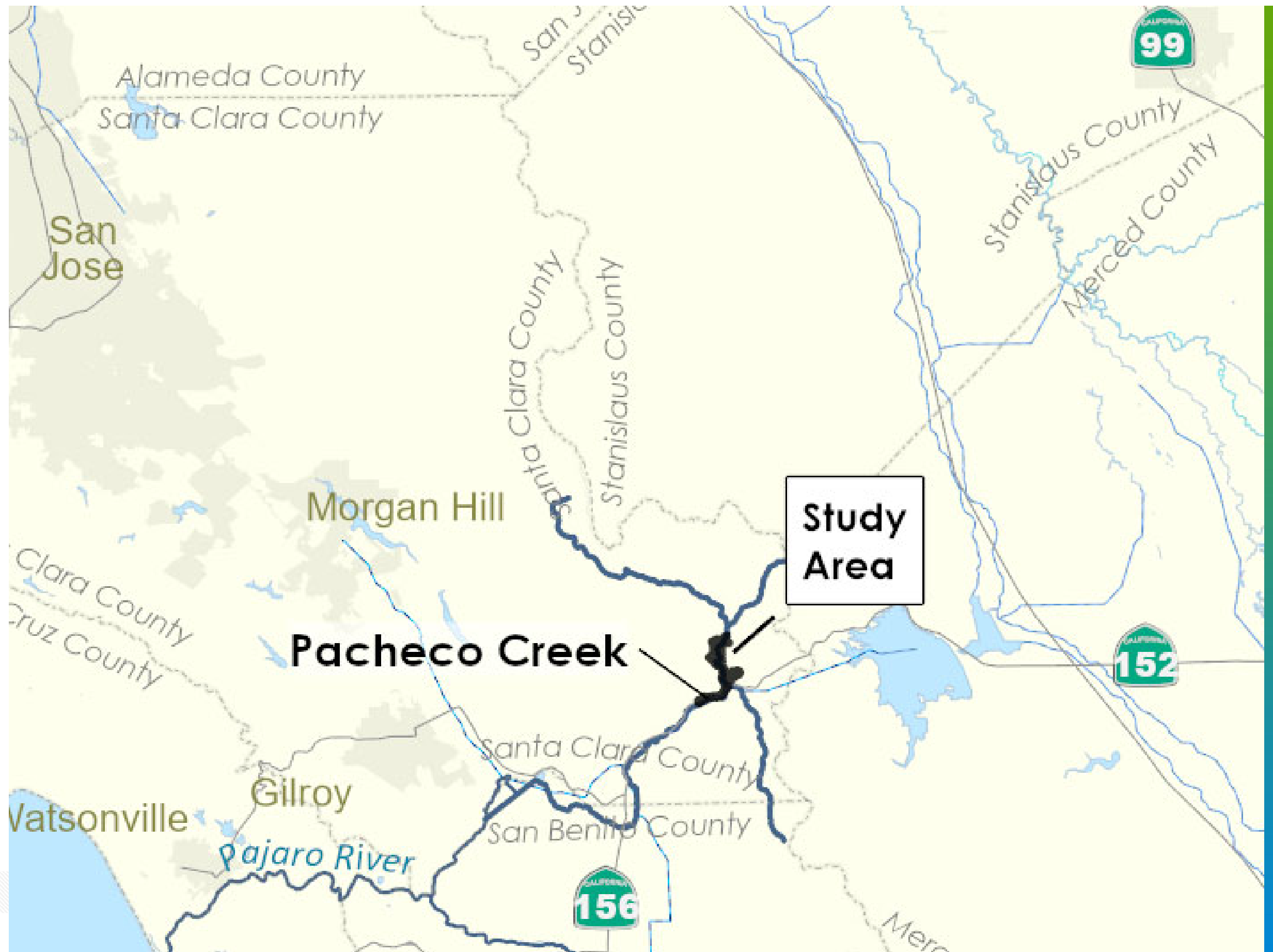


Existing Pacheco Reservoir

Project Location and Planning Objectives



Project Location



Project Objectives

The Proposed Project objectives are to provide additional geotechnical data for the design of PREP, including but not limited to:

- Dam Foundation and Geological Conditions
- Borrow Material Sites
- Spillway, Inlet/Outlet Works
- Pipelines, Conduits and Pump Station
- Construction and Permanent Road Access
- Channel Restoration and Sediment Management



Proposed Project



Proposed Project

The Proposed Project includes a combination of surface and subsurface geotechnical investigations, including:

Surface Geotechnical Surveys:

- One (1) electrical resistivity imaging survey line
- 19 seismic-refraction survey lines

Subsurface Geotechnical Investigations:

- 32 exploratory test pits
- Up to 149 exploratory borings
(119 initial borings and 30 supplemental* borings)

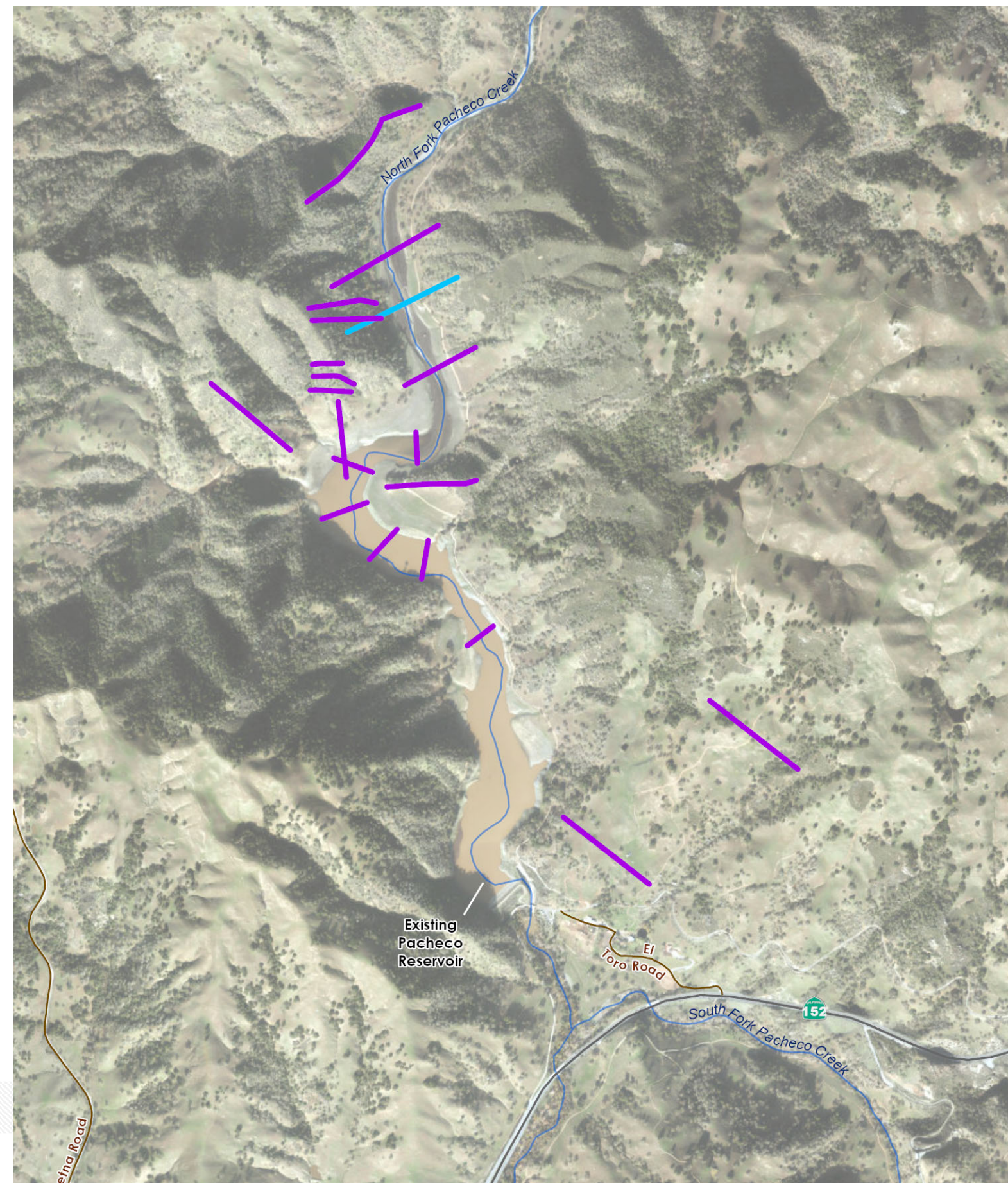
* Supplemental borings would only be implemented if the results of the non-supplemental borings and geophysical surveys indicate the need for additional data at these locations.



Example of Surface Geotechnical Survey

Proposed Project

-Surface Geotechnical Surveys



Proposed Project

– Subsurface Geotechnical Surveys

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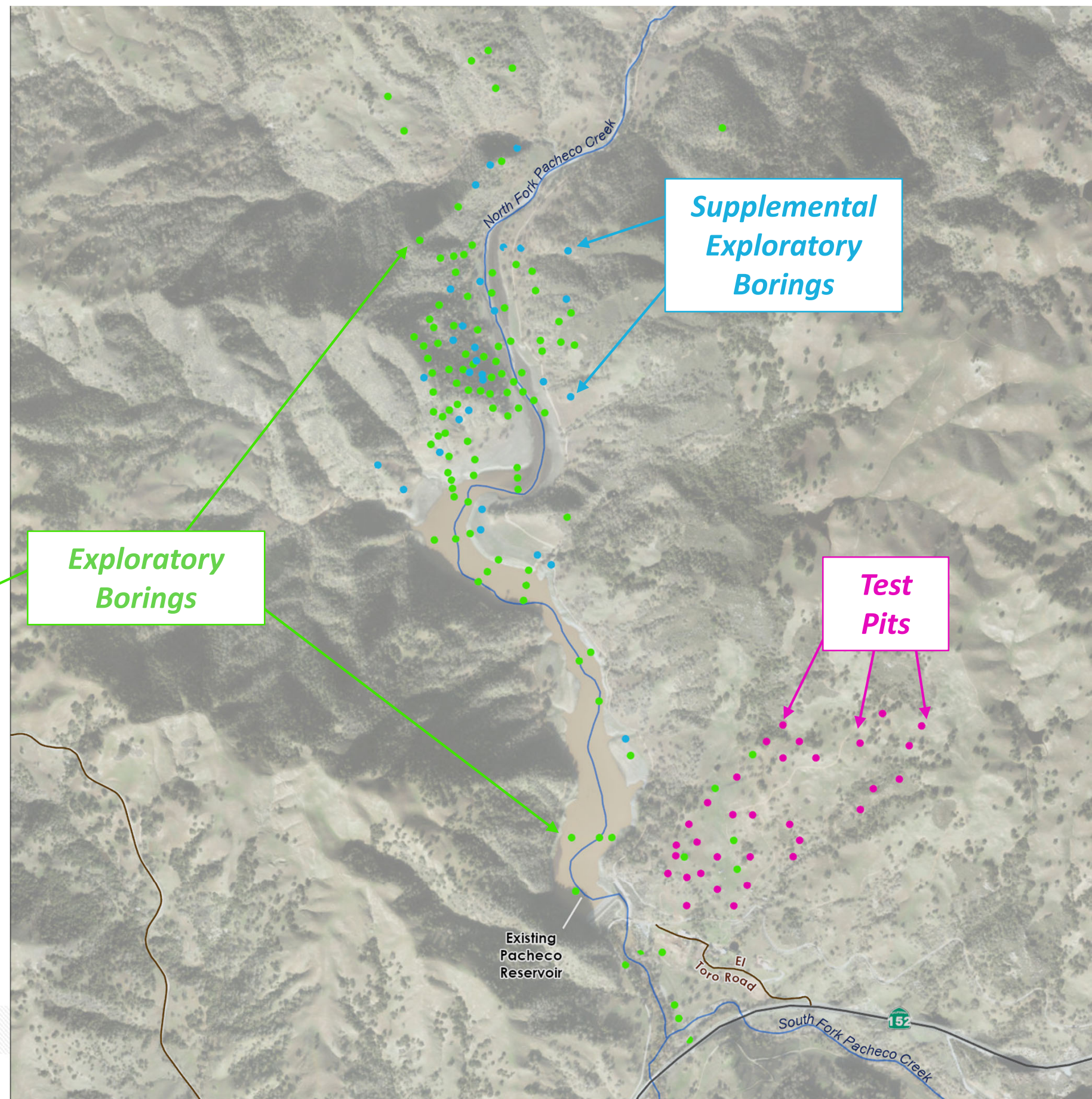
Exploratory Test Pits

- Test pits are proposed to explore a potential borrow area for dam core zone material for the design and construction of PREP
- Average of 400 square feet of disturbance per exploratory test pit

Exploratory Borings

- To assist with the design and construction of PREP, borings are proposed to obtain essential information on subsurface geologic and geotechnical conditions
- Approximately 4 square feet of disturbance per bore
- At select boring locations (up to 25), permanent subsurface monitoring equipment called piezometers would be installed to better understand changes in subsurface groundwater depth over time
- Inclined meters would be installed at four boring locations at suspected landslides to detect subsurface movement in soil and/or rock over time.

Proposed Project – Subsurface Geotechnical Surveys



Project Impacts to be Assessed in the Environmental Impact Report (EIR)



Effects of Project Activities

Electrical Resistivity Imaging Survey

- Temporary: Minimal disturbance from cable and electrode placement.

Seismic Refraction Survey Lines

- Temporary: Minimal disturbance from survey cable geophone placement.

Exploratory Test Pits

- Temporary: All test pits would be backfilled and compacted to pre-existing grade/conditions.

Exploratory Borings

- Temporary: Minimal shrub trimming and up to 17 trees would be trimmed. Increased noise levels (field equipment and helicopter) during exploratory work.
- Permanent: Removal of up to 30 small to medium diameter trees.

Personnel and Equipment Access

- Temporary: Temporary overland access routes through grasslands and woodlands (use of existing topography; no grading activities)

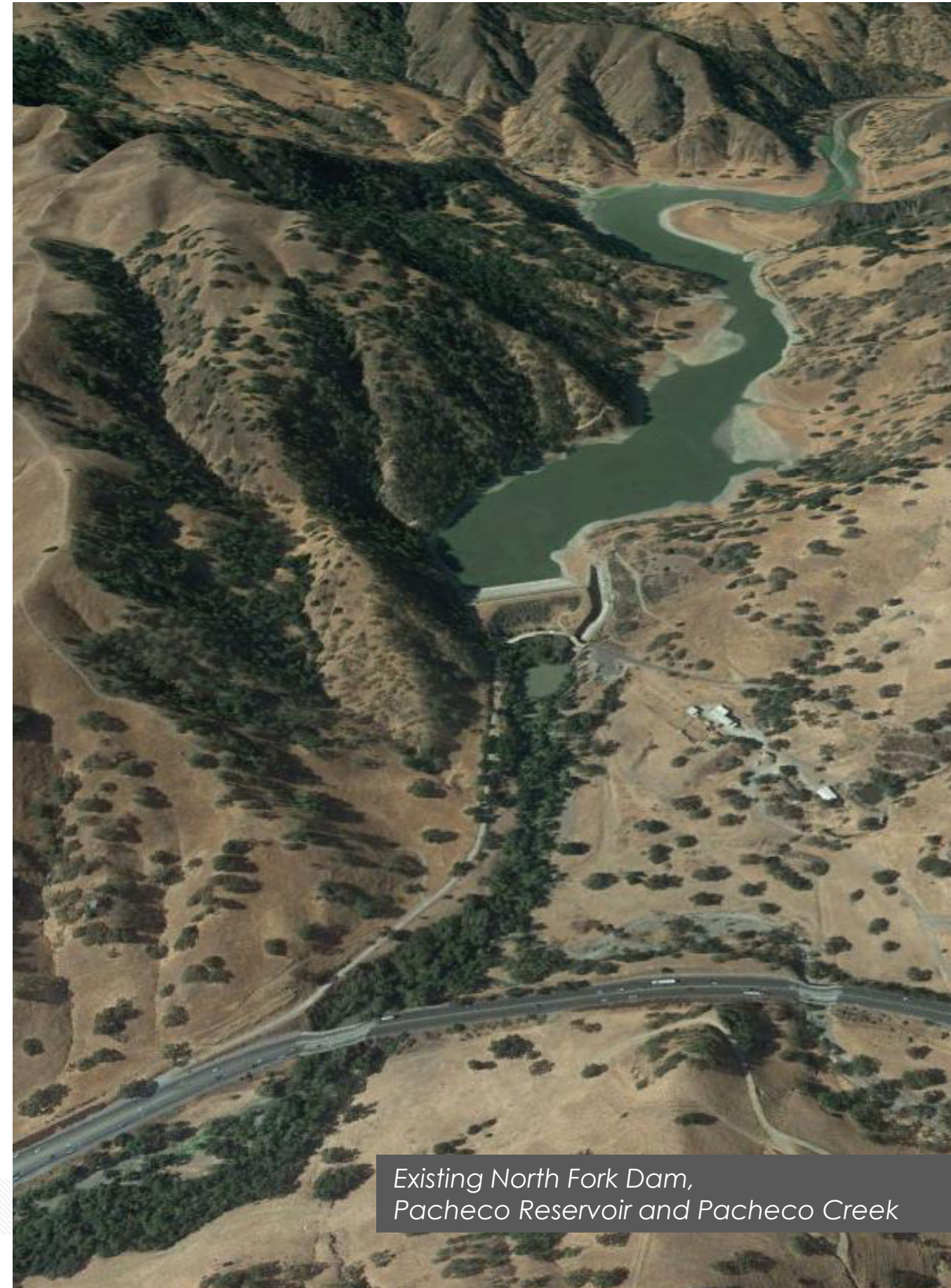


Truck-mounted drill rig

Physical Environment

- Air Quality
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials*
- Hydrology and Water Quality
- Mineral Resources
- Wildfire*

* Mitigation anticipated for resource as result of IS/MND



Existing North Fork Dam,
Pacheco Reservoir and Pacheco Creek

Biological Resources

- Special-Status Plants*
- Special-Status Wildlife Species*
- Sensitive Natural Communities*
- Aquatic Resources*

* Mitigation anticipated for resource as result of IS/MND

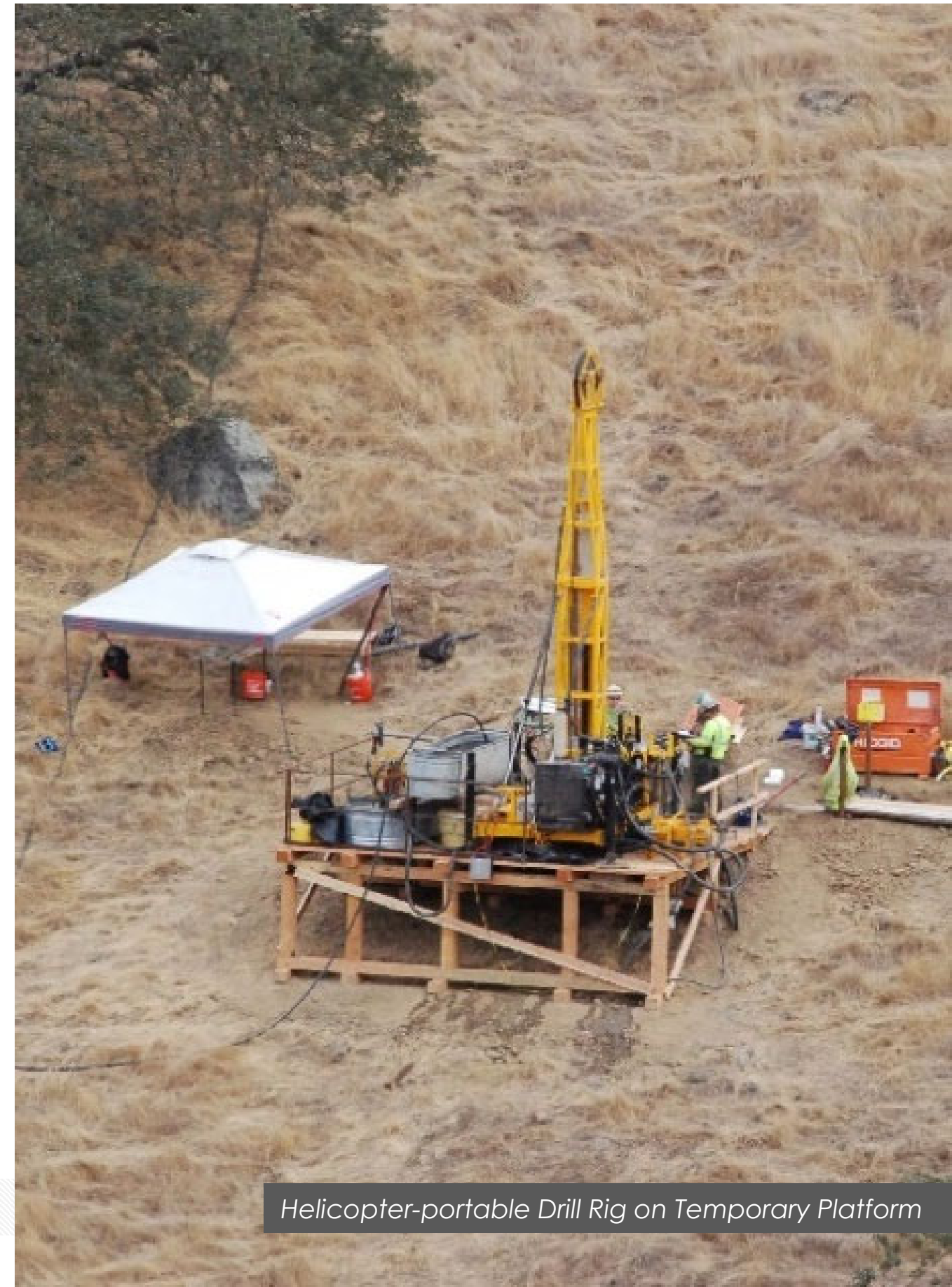


Existing Pacheco Reservoir

Human Environment

- Aesthetics
- Agriculture and Forestry
- Land Use and Planning
- Noise*
- Population and Housing
- Public Services
- Recreation
- Transportation*
- Utilities and Service Systems

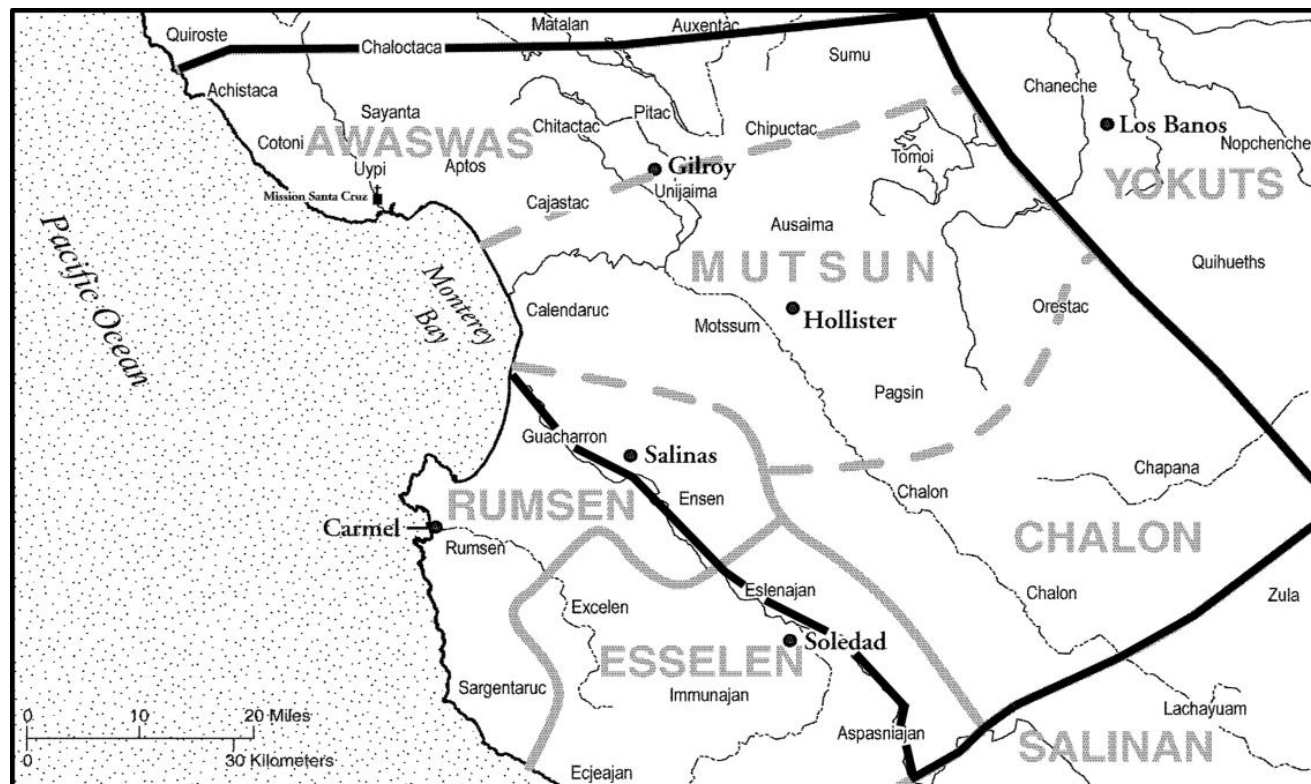
* Mitigation anticipated for resource as result of IS/MND



Helicopter-portable Drill Rig on Temporary Platform

Cultural and Tribal Cultural Resources

- Cultural Resources
- Tribal Cultural Resources



Existing Pacheco Reservoir and North Fork Dam

Scoping Comment Process



Scoping Comments

*Identification of information
to be included in EIR:*

- Environmental impacts,
including cumulative analysis
- Range of alternatives
- Mitigation measures



Written Scoping Comments

Letters

Santa Clara Valley Water District
Attn: Todd Sexauer
5750 Almaden Expressway
San Jose, CA 95118

Email

Subject Line: DLGI Scoping Comments
Tsexauer@valleywater.org

Scoping Comment Period

Comments due by

October 30, 2024

Additional Info

Questions?

Email:

Subject Line: DLGI Questions

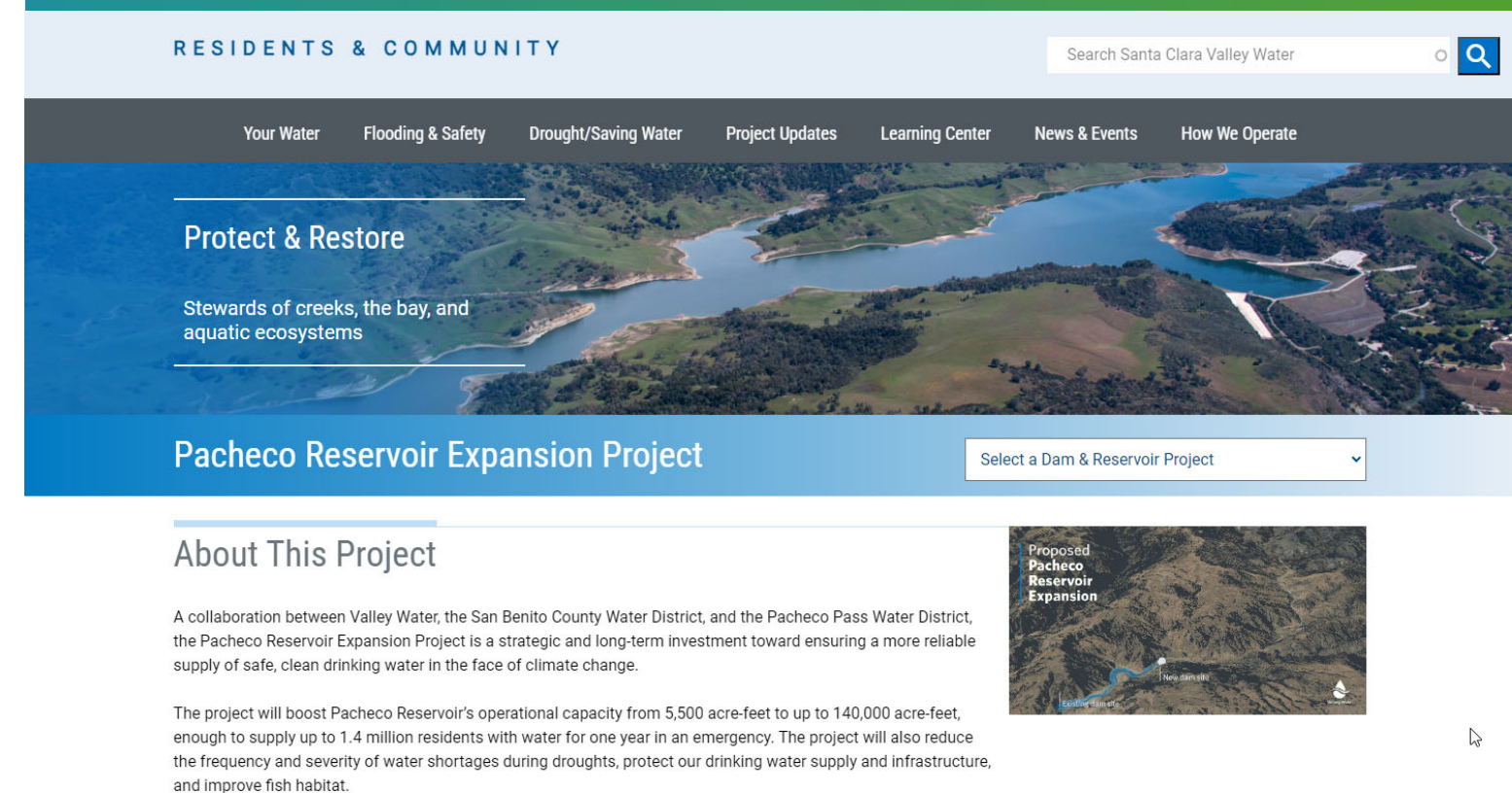
Tsexauer@valleywater.org



Website



*[https://www.valleywater.org/
project-updates/a1-pacheco-
reservoir-expansion-project](https://www.valleywater.org/project-updates/a1-pacheco-reservoir-expansion-project)*





Questions?