Anderson Dam Seismic Retrofit Project Update

Morgan Hill Public Meeting | June 4, 2018
Agenda

► Project Status
► Project Components
► Project Schedule
► Q&A
Project Status

► 60% Design submitted

► 60% Construction Sequencing – June 2018

► Preparation of EIR underway

► On-going geotechnical investigations to support the design (March – September 2018)

► Test Fill Program complete

► Cultural Subsurface Investigation (Summer 2018)
Anderson Dam Existing Configuration

- Spillway
- Outlet Pipe
- Dam Crest
- Dam Embankment

Image Source: Google Earth
Project Components

Remove all liquefiable material; reconstruct embankment over the remaining dam; raise crest for additional freeboard
Coyote Creek Modifications – Erosion Protection

Erosion protection required along 1,300 feet of Coyote Creek

Construction Diversion Pipe releases into Coyote Creek
Post-Oroville DSOD/FERC Requirement

- DSOD and FERC mandated a detailed condition assessment of the Anderson Dam spillway.

- Spillway condition assessment was completed in October 2017.

- Results indicate the spillway is performing well; however, it does not meet current design standards and has a potential for an Oroville-type failure.
Spillway replacement to meet current design standards:

- New Concrete Walls
- New Right Concrete Buttress and Transition Wall
- New Chute Slab
- New Left Concrete Gravity Wall
- Repair Existing Crest Structure
Embarkment Construction Sequence

Existing Dam

EI 647 ft

Z1

Z2

Z3

Z4

Foundation
Embarkment Construction Sequence

Year 1 and 2

Existing Dam Dewatering

Dewater Reservoir

E1 647 ft

Z1 Z2 Z3 Z4

Foundation

Temporary Diversion During Construction

To Coyote Creek

Santa Clara Valley Water District
Embarkment Construction Sequence

Year 3
April - October
Stage 1 Excavation

El 570 ft

Z1 Z2 Z3 Z4
Foundation

Temporary Diversion During Construction
To Coyote Creek
Embankment Construction Sequence

Year 4
April - June
Stage 2 Excavation

Temporary Diversion During Construction
To Coyote Creek

Santa Clara Valley Water District
Embarkment Construction Sequence

Year 4
July - October
Stage 2 Fill

El 570 ft

Temporary Diversion During Construction
To Coyote Creek
Embarkment Construction Sequence

Year 5
April - October
Stage 3 Fill

Shell

Core

Foundation

El 656 ft

Temporary Diversion During Construction

To Coyote Creek
Embankment Construction Sequence

Year 5 →

Final Configuration

Fill Reservoir

Shell

Core

Foundation

Low Level Outlet Works

To Coyote Creek

El 656 ft
Staging, Temporary Stockpile, Borrow, and Disposal Areas

LEGEND

- Yellow: Staging Areas
- Cyan: Stockpile Areas
- White: Borrow Areas
- Red: Disposal Areas

CONVEYOR FROM STOCKPILE TO DAM

Santa Clara Valley Water District
Conveyor Impacts to Malaguerra Avenue

- Conveyor bridge over Sycamore Avenue
- Malaguerra Avenue westbound lane closed from Cochrane Road to Silverwings Court
Typical Conveyor
Cochrane Road Closure During Construction

Approximate Limits of Cochrane Road Closure
Post-Construction Roads and Parking

- Removed
- Permanently Closed to Vehicular Traffic
- Expanded Parking Lot
- Widened to Two Lanes

Image Source: Google Earth
*Start of construction dependent on permit acquisition.
Public involvement

- CEQA process
  - Draft Environmental Impact Report (EIR)
  - Response to comments and EIR revisions
  - Final EIR
  - District Board considers certifying EIR and approving Project

- Public involvement
  - EIR comment period – 45 days for public comment
  - Public comment meeting

- Dates:
  - September 2018
  - October 2018
  - Spring 2019
Stay Informed

https://www.valleywater.org/project-updates/dam-reservoir-projects/anderson-dam-seismic-retrofit

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Question and answers