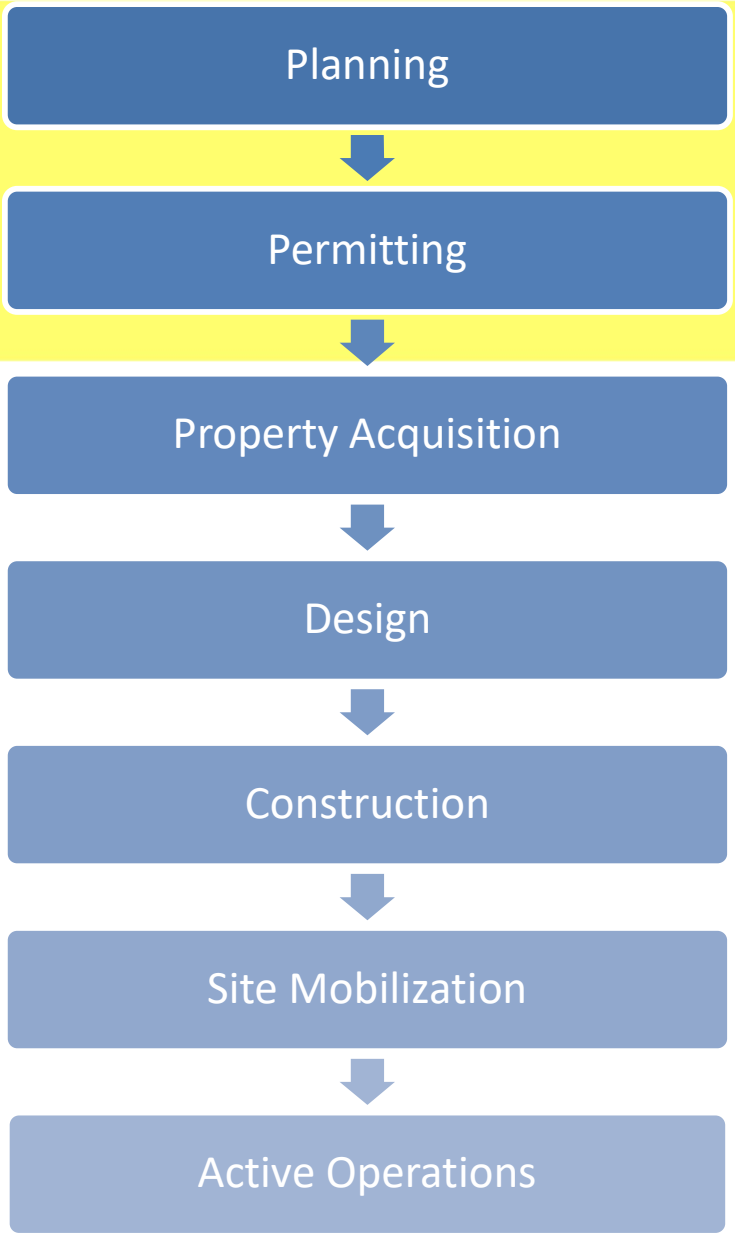
EAST BAY MUNICIPAL UTILITY DISTRICT

Quarry Site Restoration Project

City of San Leandro Facilities & Transportation Committee

February 1, 2023

Project Schedule - General

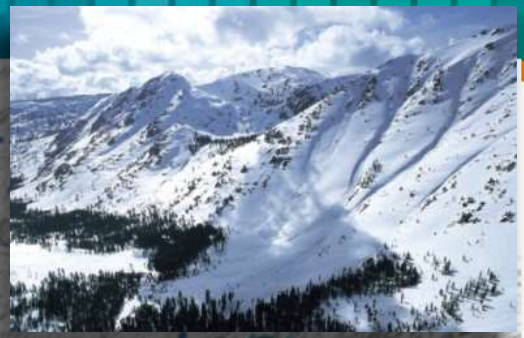


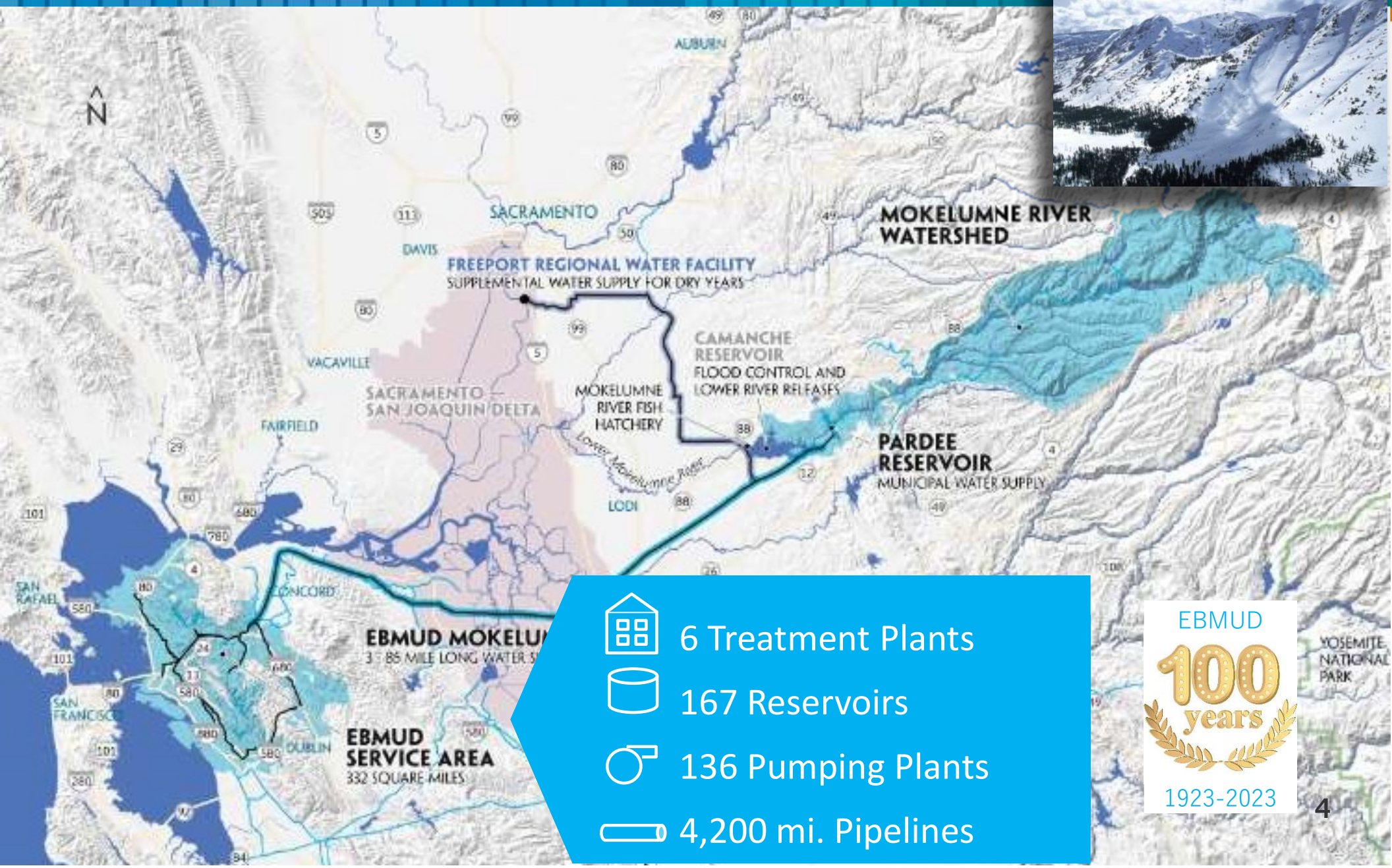
- Site Studies, Environmental Review & Public Outreach
- Conditional Use Permit, Stakeholder Agency Coordination & Regulatory Approvals
- Property is on private property – EBMUD needs to purchase the property to proceed
- Design of Site Operation Components
- Construction of Site Operation Components
- Site Preparation & Mobilization of Equipment
- Active Operations Begin

Agenda

- EBMUD Water System
- Project Purpose & Objectives
- Project Location
- Project Description
- Visual Simulations
- Environmental Review & Outreach
- Next Steps

EBMUD Water System





- 6 Treatment Plants
- 167 Reservoirs
- 136 Pumping Plants
- 4,200 mi. Pipelines

EBMUD 100 years 1923-2023

Project Purpose and Objective

EBMUD Pipeline Replacements and Trench Soils

- EBMUD is proactively replacing its pipelines to improve water service, reduce water loss, and decrease the number of pipeline breaks within its service area
- Trench soils are excavated soil and rock generated by pipeline construction and repair work

Current Trench Soils Management

Trench soils are:

- Double-handled
- Disposed at landfills
- Beneficially reused

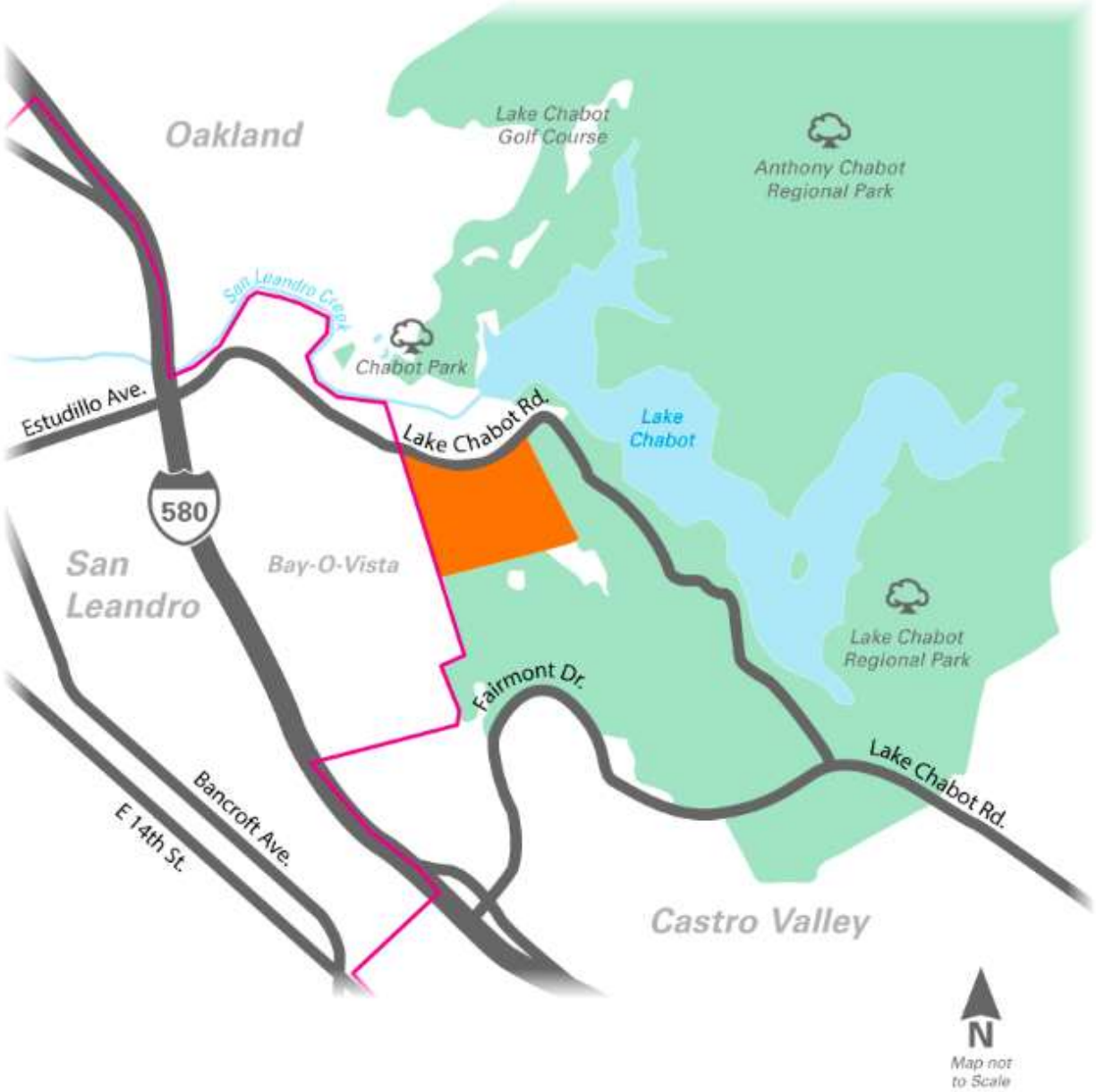
Project Purpose

The Quarry Site would provide:

- Long-term economical and sustainable management of EBMUD trench soils
- Beneficial reuse of EBMUD trench soils

Project Location

Quarry Site Restoration Project Location



Quarry Aerial

Project Description

Project Stages

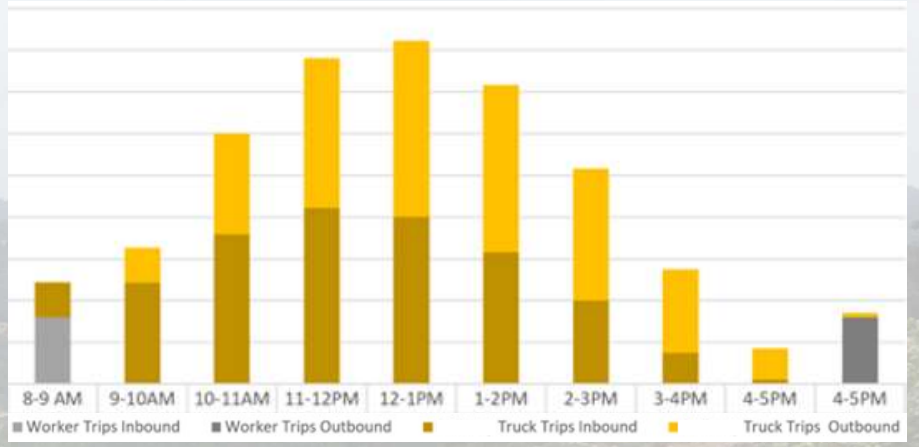
- Fill Operations
- Site Restoration
- Restored Site

Fill Operations Stage

- Place and compact clean trench soils, in phases
- Trench backfill materials would be delivered to and stored at the site and taken to jobsites when needed to backfill open trenches
- Hydro-slurry would be delivered and mechanically separated

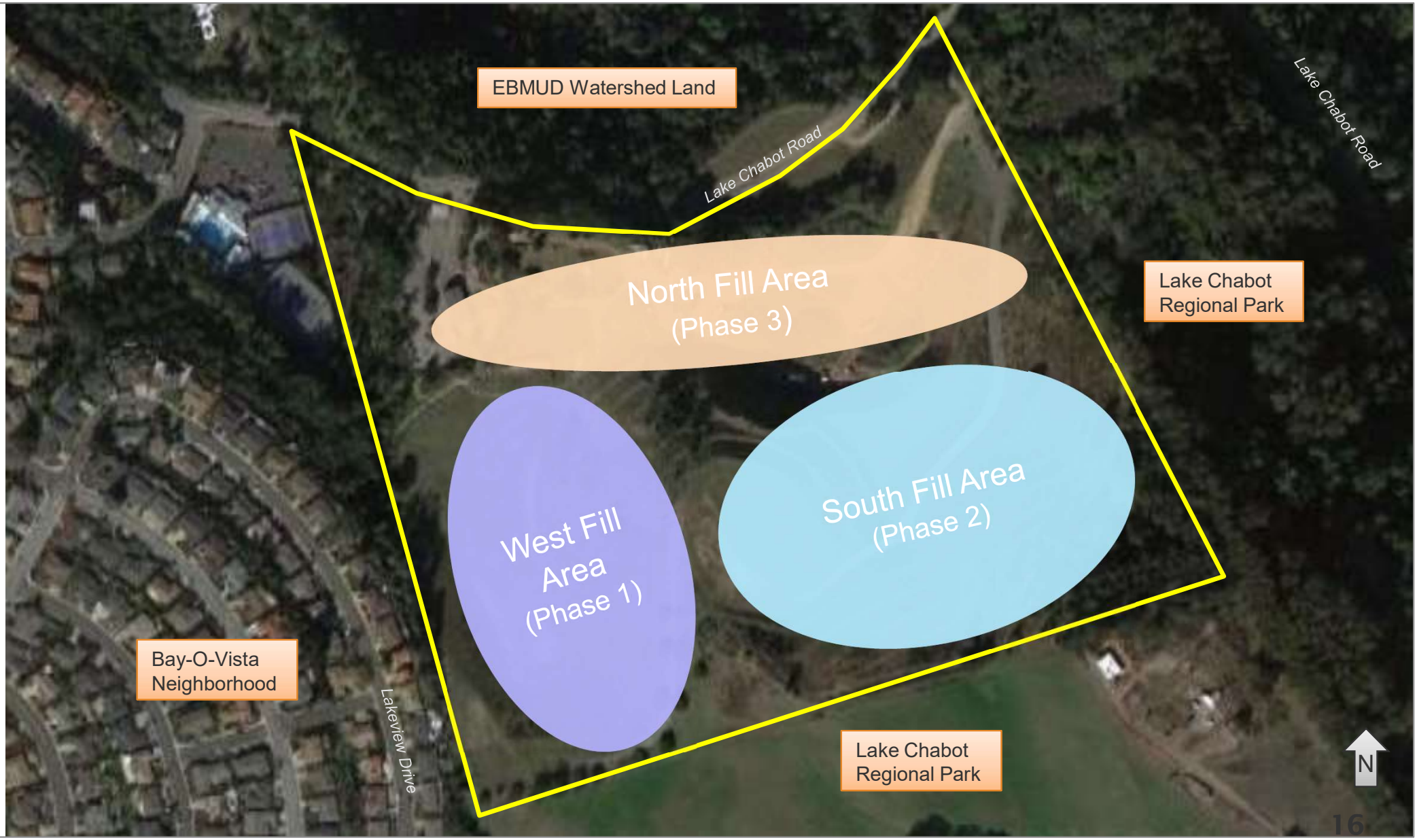
Fill Operations: Work Hours, Staffing, and Security

- Work Hours 7 am – 7 pm
- Trucks would typically enter and exit the site between 9 am – 3 pm

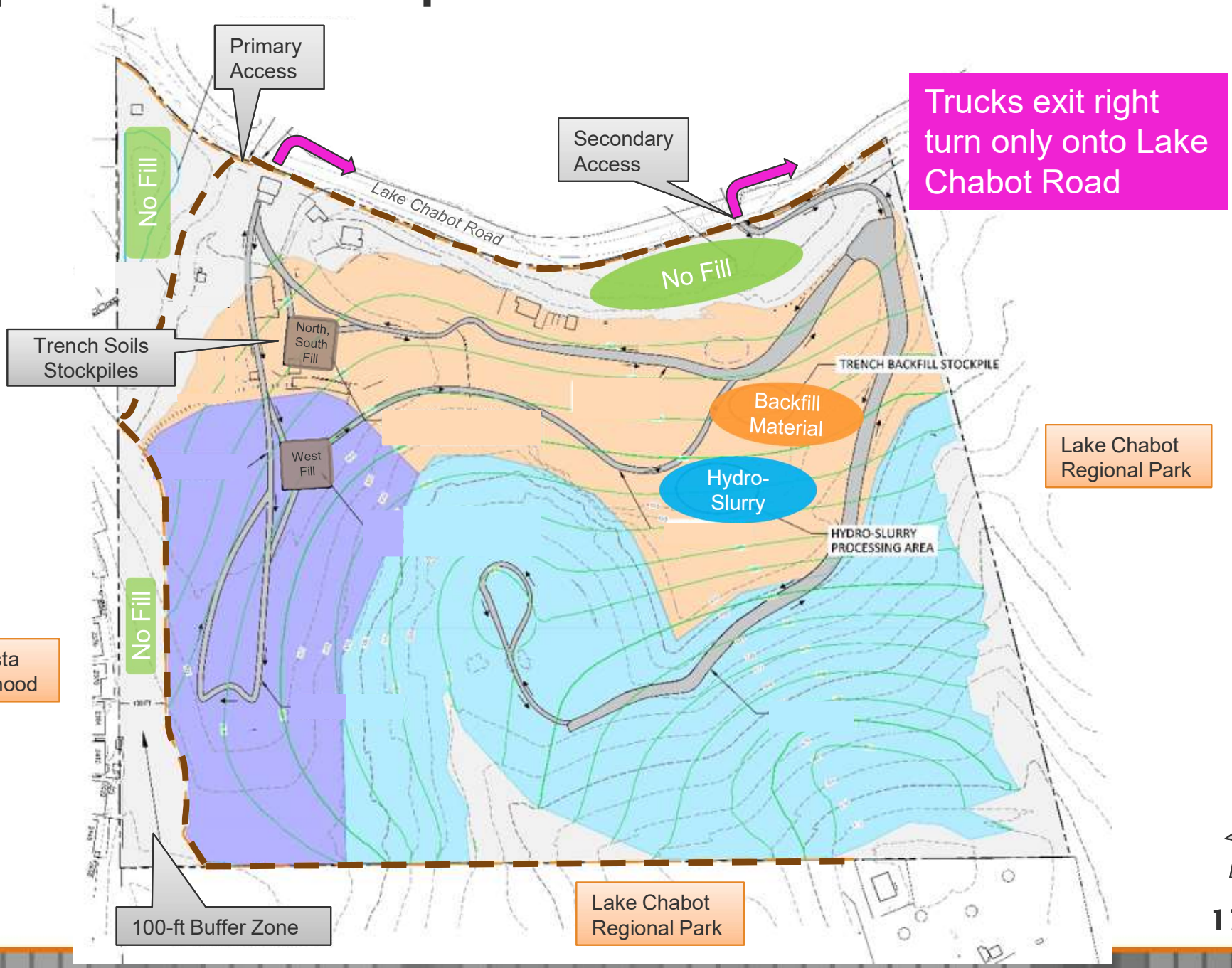


- Site Staffing:
  - Approximately 8 personnel onsite daily
- Site Security:
  - Automated vehicle gates with EBMUD badging requirements
  - Security cameras
  - Security fencing

Fill Operations Phasing



Fill Operations: Conceptual Site Plan



Fill Operations: Quarry Site Soil Management Plan

- A Soil Management Plan was developed and includes:
  - Trench soils
    - acceptance criteria
    - sampling and stockpiling methods
    - monitoring and reporting requirements
  - SF Bay Regional Water Quality Control Board approval and oversight

Fill Operations

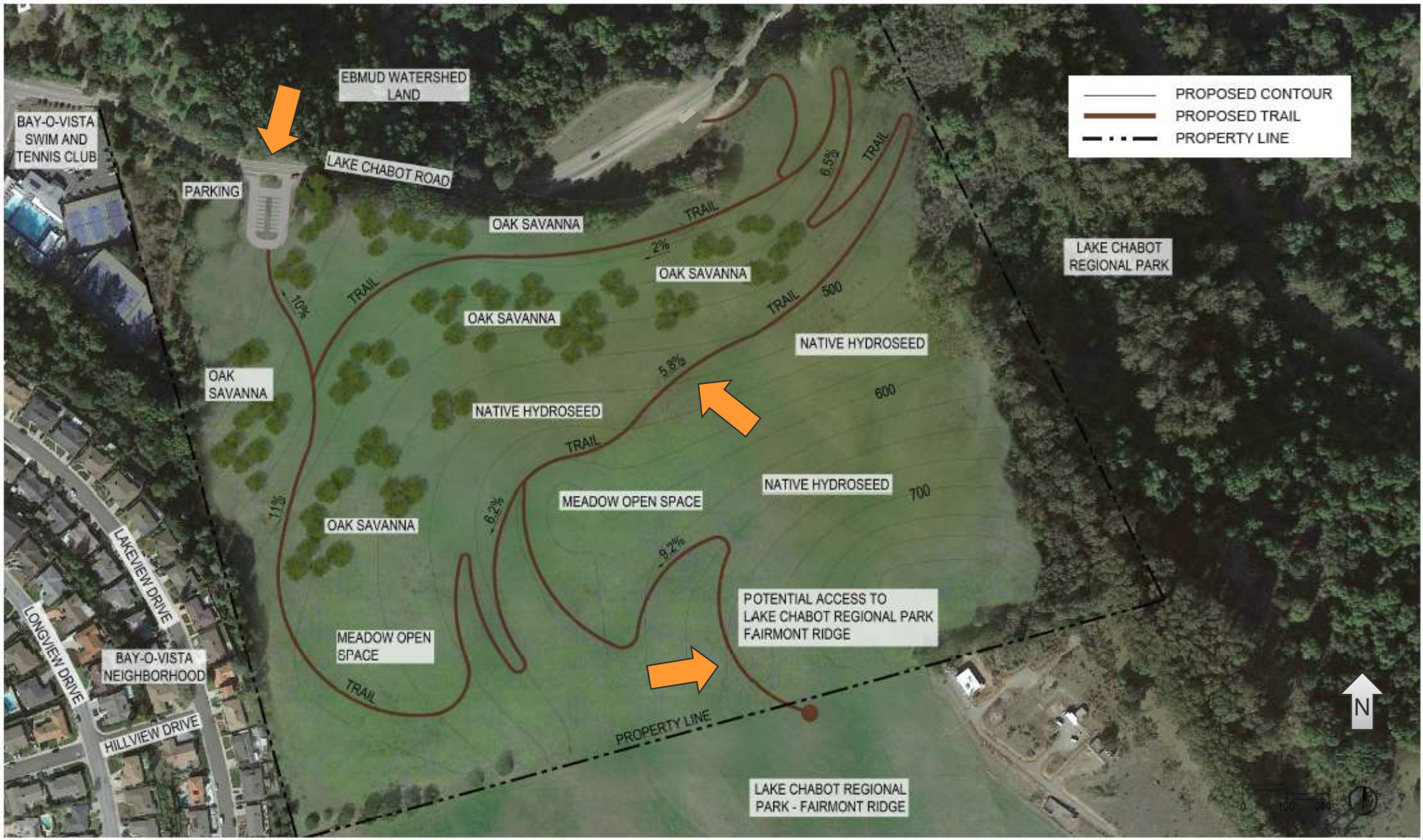
- The proposed Project Fill Operations would:
  - Restore the Quarry Site with approximately 3.4 million cubic yards of clean trench soils
  - Take approximately 40-80 years to fully restore the Quarry Site
  - Include interim phases to provide benefits before final restoration

West Fill Area: Interim access and trail

Site Restoration Stage

- Potential beneficial uses of the Quarry Site include:
  - Open space
  - Native plant restoration
  - Passive recreation (public trails)

Restored Site Stage



Visual Simulations

Quarry Site Public Viewpoints

1. Public Gun Range Road
2. Lost Ridge trail at Quail Trail
3. West Shore Trail at Spillway
4. East Lake Chabot Road Entrance
5. West Lake Chabot Road Entrance
6. Hillview Drive at Lakeview Drive
7. Bass Cove Trail
8. Sheffield Village
9. Jeep Trail

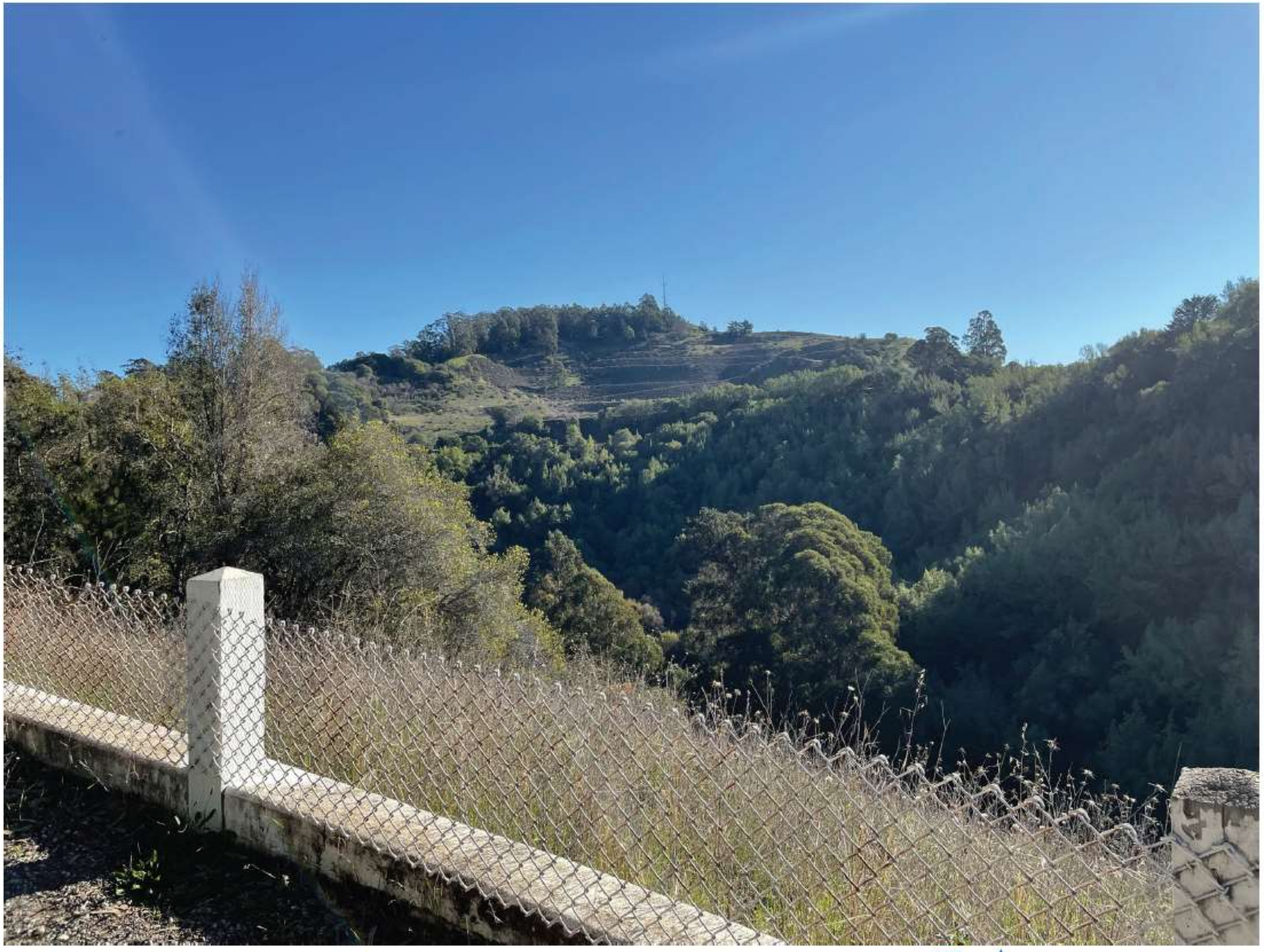
2022-07-27 EBMUD QUARRY - **VIEW LOCATIONS**

NORTH

EBMUD terraphase engineering rhaa

WEST SHORE TRAIL SPILLWAY

37°43'49.22"N
122° 7'35.34"W



3 EXISTING*

WEST SHORE TRAIL SPILLWAY

37°43'49.22"N
122° 7'35.34"W

3 FINAL*

2022-07-27 EBMUD QUARRY - **VIEW LOCATIONS** *Reflects fully restored site with planted native oak trees at approximately 15-20 years old and same season as original photo

EBMUD WOODARD & CURRAN terraphase engineering rhaa

EAST LAKE CHABOT ROAD ENTRANCE

37°43'39.46"N
122° 7'18.18"W

4 EXISTING*

EBMUD WOODARD & CURRAN terraphase engineering rhaa

EAST LAKE CHABOT ROAD ENTRANCE

37°43'39.46"N
122° 7'18.18"W

4 FINAL*

2022-10-18 EBMUD QUARRY - **VIEW LOCATIONS** *Reflects fully restored site with planted native oak trees at approximately 15-20 years old and same season as original photo

WEST LAKE CHABOT ROAD ENTRANCE

37°43'37.57"N
122° 7'31.07"W

5 EXISITNG*

2022-07-27 EBMUD QUARRY - **VIEW LOCATIONS** *Photo taken March 2021

WEST LAKE CHABOT ROAD ENTRANCE

37°43'37.57"N
122° 7'31.07"W

5 FINAL*

2022-07-27 EBMUD QUARRY - **VIEW LOCATIONS** *Reflects fully restored site with planted native oak trees at approximately 15-20 years old and same season as original photo

EBMUD WOODARD & CURRAN terraphase engineering rhaa

HILLVIEW DRIVE AT LAKEVIEW DRIVE

37°43'24.41"N
122° 7'35.39"W

6 EXISTING*

HILLVIEW DRIVE AT LAKEVIEW DRIVE

37°43'24.41"N
122° 7'35.39"W

6 PHASE 1*

2022-07-27 EBMUD QUARRY - **VIEW LOCATIONS** *Reflects nearing completion of Phase 1 Fill Operations (West Fill Area) and same season as original photo

HILLVIEW DRIVE AT LAKEVIEW DRIVE

37°43'24.41"N
122° 7'35.39"W

6 PHASE 2*

2022-07-27 EBMUD QUARRY - **VIEW LOCATIONS** *Reflects nearing completion of Phase 2 (South Fill Area) and same season as original photo

HILLVIEW DRIVE AT LAKEVIEW DRIVE

37°43'24.41"N
122° 7'35.39"W

6 FINAL*

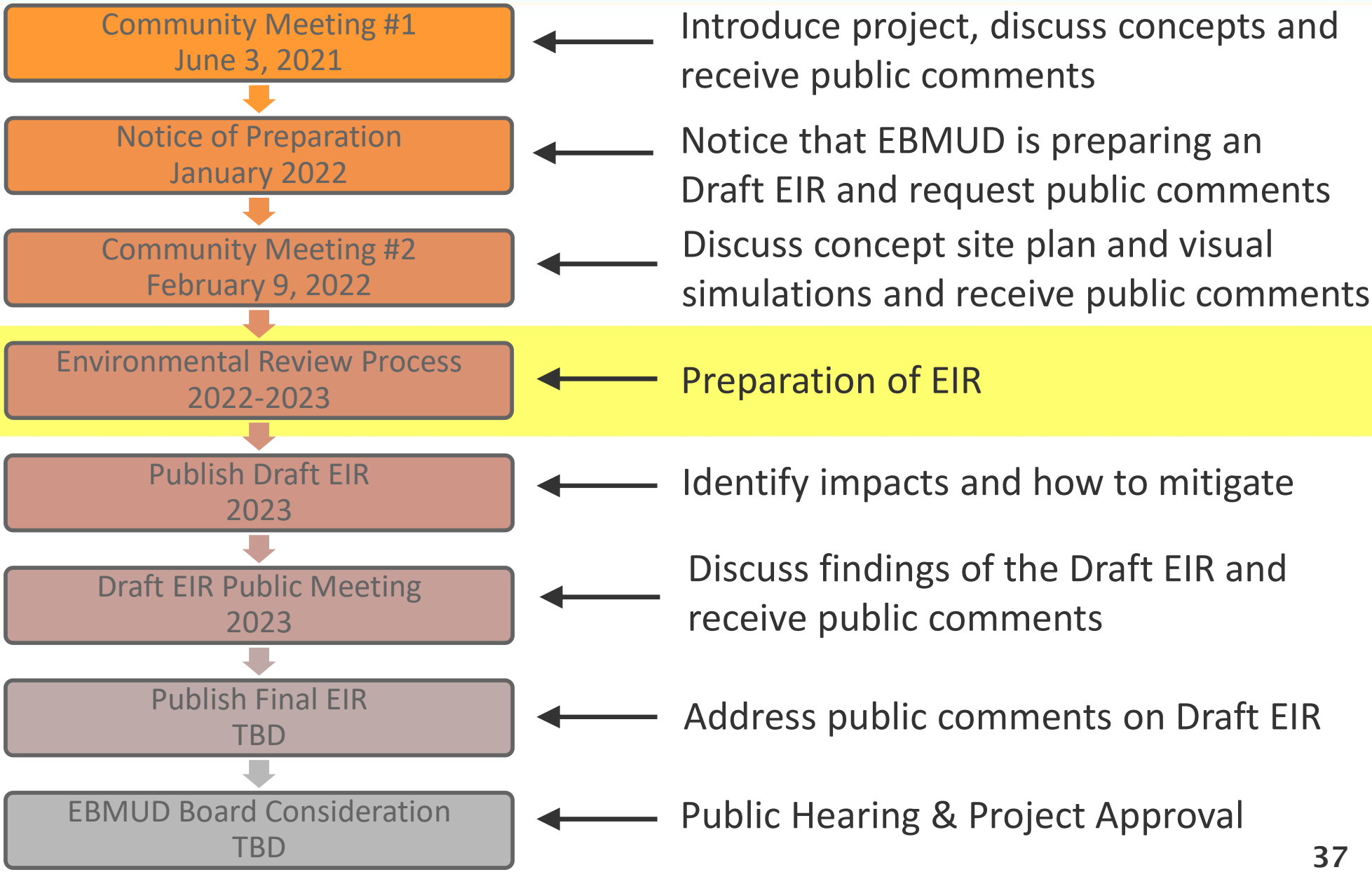
 *Reflects fully restored site with planted native oak trees at approximately 15-20 years old and same season as original photo

Environmental Review and Outreach

Environmental Impact Report (EIR)

- Purpose:
  - To inform the public of the environmental consequences of projects
- EIR is required:
  - When there is potential that a project may have significant impacts

Environmental Review Schedule



EIR Analysis Results

Environmental Resource Category	Less than Significant	Less than Significant with Mitigation	Significant and Unavoidable
Aesthetics	√		
Air Quality	√		
Biological Resources		√	
Cultural Resources	√		
Energy	√		
Geology and Soils	√		
Greenhouse Gas Emissions	√		
Hazards and Hazardous Materials	√		
Hydrology and Water Quality	√		
Land Use and Planning	√		
Mineral Resources	√		
Noise	√		
Recreation		√	
Transportation	√		
Tribal Cultural Resources	√		
Utilities and Service Systems	√		
Wildfire	√		

Biological Resources & Recreation

- Mitigation Measures:
  - Pre-construction training and surveys
  - Habitat avoidance, buffers and monitoring
  - Wildlife encounter procedures

Dusky-footed woodrat

Air Quality and Greenhouse Gas Emissions

- Incorporated EBMUD standard specifications and practices
  - Trench soils trucks will be required to be covered
  - Bay Area Air Quality Management District measures, including
    - daily dust control watering
    - limiting diesel engine idling times
  - Conformance to current, stringent U.S. EPA diesel engine standards

Transportation

RANGING FROM:

- Approximately 60 to 100 trench soils and backfill materials trucks per day over 40 years (Exclusive Use scenario)

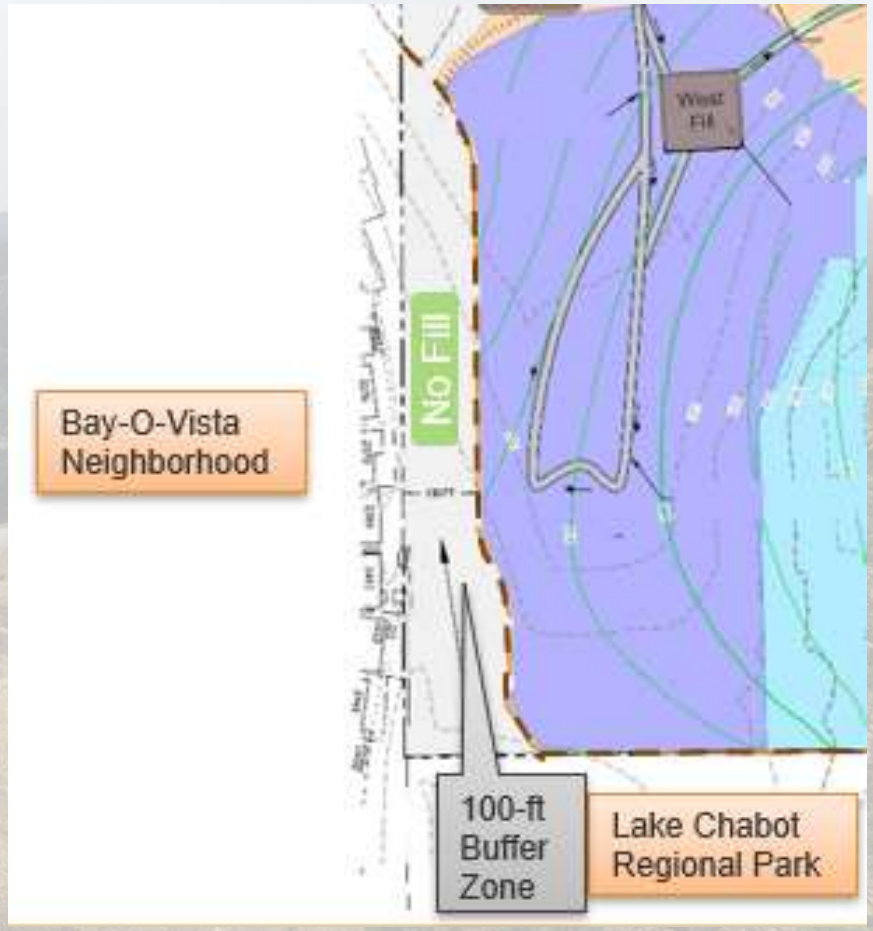
TO:

- Approximately 30-40 trench soils and backfill materials trucks per day over 80 years (Non-Exclusive Use scenario)

Project traffic would not worsen wait times at study intersections and would not exceed roadway capacities

Noise

- Noise reduction components:
  - 100-foot buffer zone adjacent to Bay-O-Vista
  - Looped access roads
  - Right turn only for exiting trucks
  - Location of backfill material stockpiles and hydro-slurry operations



Alameda County Conditional Use Permit

- EBMUD applied for a Conditional Use Permit from Alameda County May 2022
- EBMUD presented at a Castro Valley Municipal Advisory Council meeting in September 2022 and at a Bay-O-Vista Improvement Association in October 2022

Key Takeaways

- The Draft EIR includes results of the analyses of environmental resource areas and discussion of any potential impacts
- The Quarry Site Restoration Project will *not* be a landfill
  - No trash or debris will be placed at the Quarry Site
  - Only clean trench soils generated from within EBMUD service area from EBMUD activities will be placed at the Quarry Site
  - All trench soils will be placed at stable slopes per an approved grading plan and will be planted with native landscaping and restored at the end of each fill phase

Next Steps

Next Steps

- Continue outreach with the public and local stakeholder agencies
- Continue to coordinate with Alameda County on the Conditional Use Permit process
- Release a Draft Environmental Impact Report in 2023

Questions and Comments