

Walnut Creek Water Treatment Plant Pretreatment Project



Welcome! We will begin shortly...

Call Information

Meeting ID: 856 0677 2397

Dial by phone: 1 669 900 6863

All attendees will be muted as they
join the meeting

Public questions and comments will
be taken after the presentation

**Walnut Creek
Water Treatment Plant
Pretreatment Project**



**Virtual Public Scoping Meeting
March 16, 2022**

Purpose of Meeting



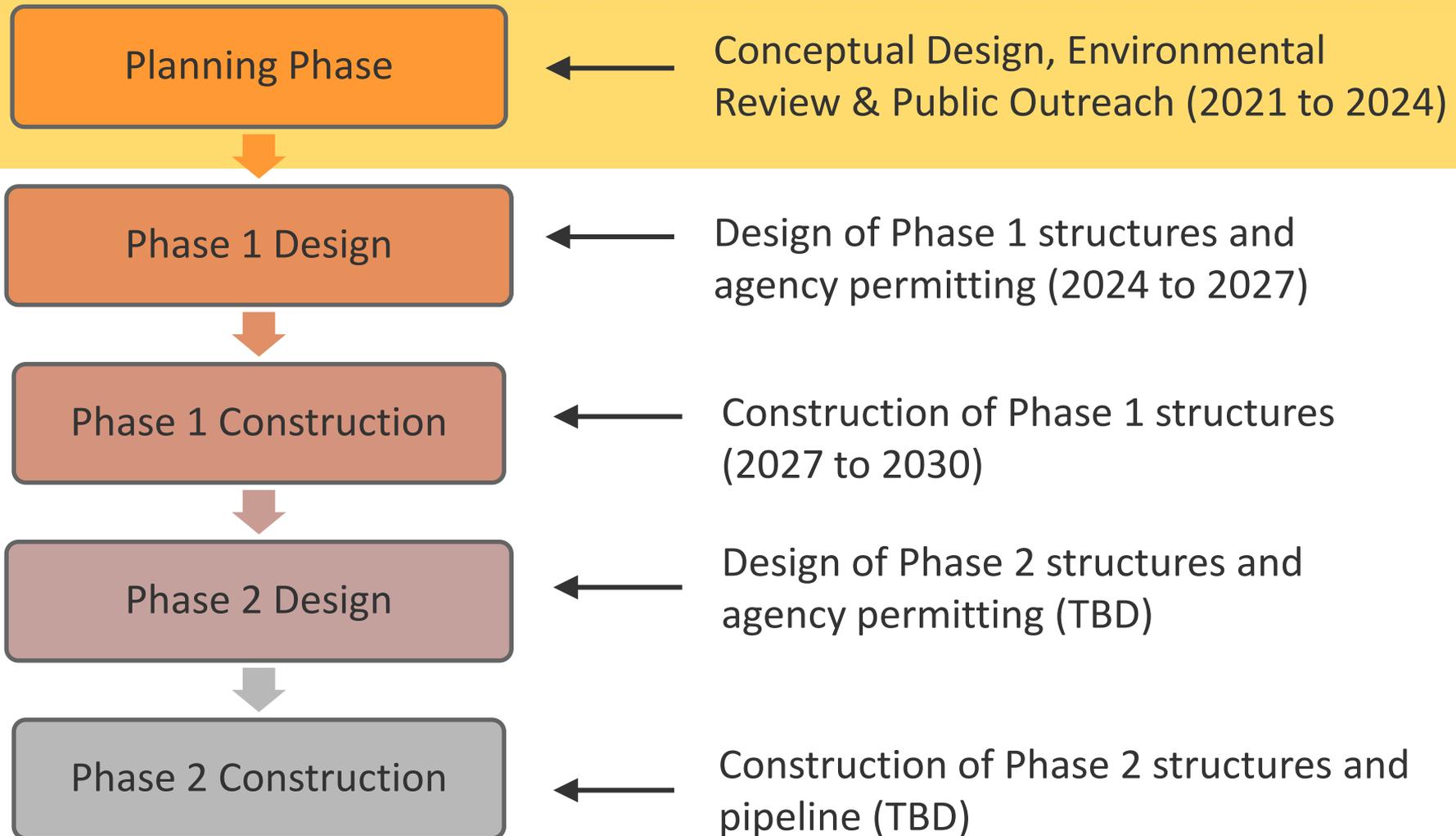
- Discuss need for project
- Describe project
- Explain public review process
- Receive community input

Meeting Agenda



- Project Phases and Team
- EBMUD Water Supply
- Need for Project
- Project Description
- Aesthetic and Landscape Design
- Environmental Review Process and Schedule
- Questions and Comments

Project Phases and Schedule



Planning Phase Project Team



- EBMUD
 - Tom Boardman, Project Manager
 - Bill Maggiore, Senior Civil Engineer
 - David Rehnstrom, Division Manager
 - Kathryn Horn, Community Affairs
- Consultants
 - Woodard & Curran Engineering
 - Siegel & Strain/Burks Toma Architects
 - RHAA Landscape Architects

WCWTP Pretreatment Project



EBMUD Water Supply

Water Supply – Sierra Snowpack



Walnut Creek WTP



**Gravity Filters
(typical conditions)**

Gravity Filters (dry)



WCWTP Pretreatment Project



Need for Project

Runoff from Melting Snow



Pardee Reservoir
(Typical
Conditions)

Runoff from Heavy Storms



Pardee Reservoir
After Heavy Storm

(February 28, 2017)



High Turbidity Slows Filtration



Runoff from Wildfire Burn Areas



Algae Blooms

Can lead to taste
and odor concerns
in drinking water



Drought Supply – Freeport Sacramento River



Freeport pumps
from the
Sacramento River

Project Need Summary



- The Walnut Creek WTP was designed to treat relatively high quality, Sierra snowmelt runoff
- Climate change has led to more frequent water quality events that slow down filtration
- This project will allow EBMUD to more reliably treat a broader range of water quality from its existing water supply
- Will make us more resilient against climate change in the future

WCWTP Pretreatment Project



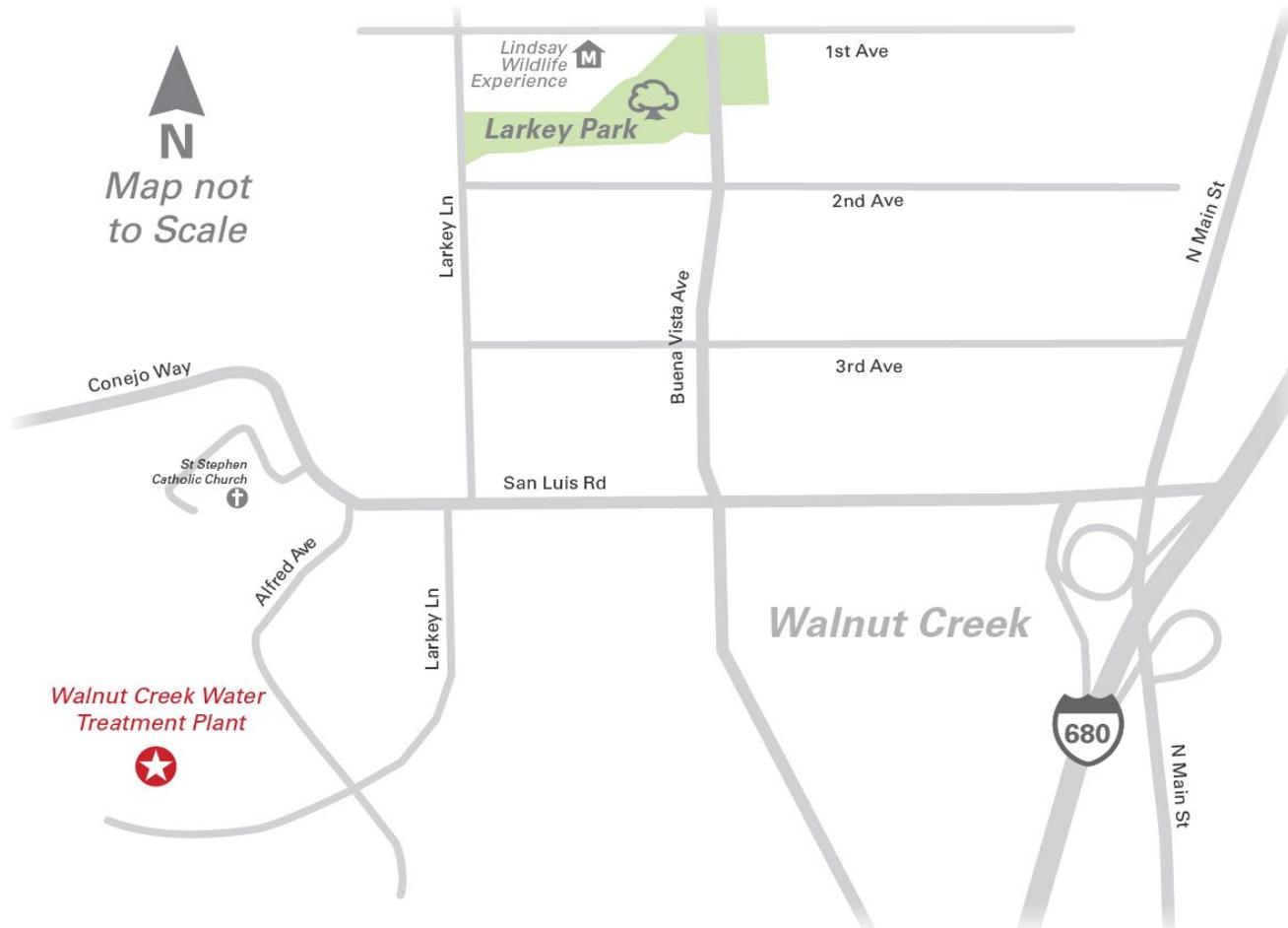
Project Description

Project Description



- Add pretreatment facilities at Walnut Creek WTP to reduce turbidity prior to gravity filters;
- Add ozone treatment disinfectant to improve water taste and odor; and
- Modify weir structures at Lafayette WTP to improve hydraulics at Walnut Creek WTP.
- Phase 1 will allow EBMUD to treat a broader range of water quality up to 125 MGD; Phase 2 up to planned capacity of 160 MGD.

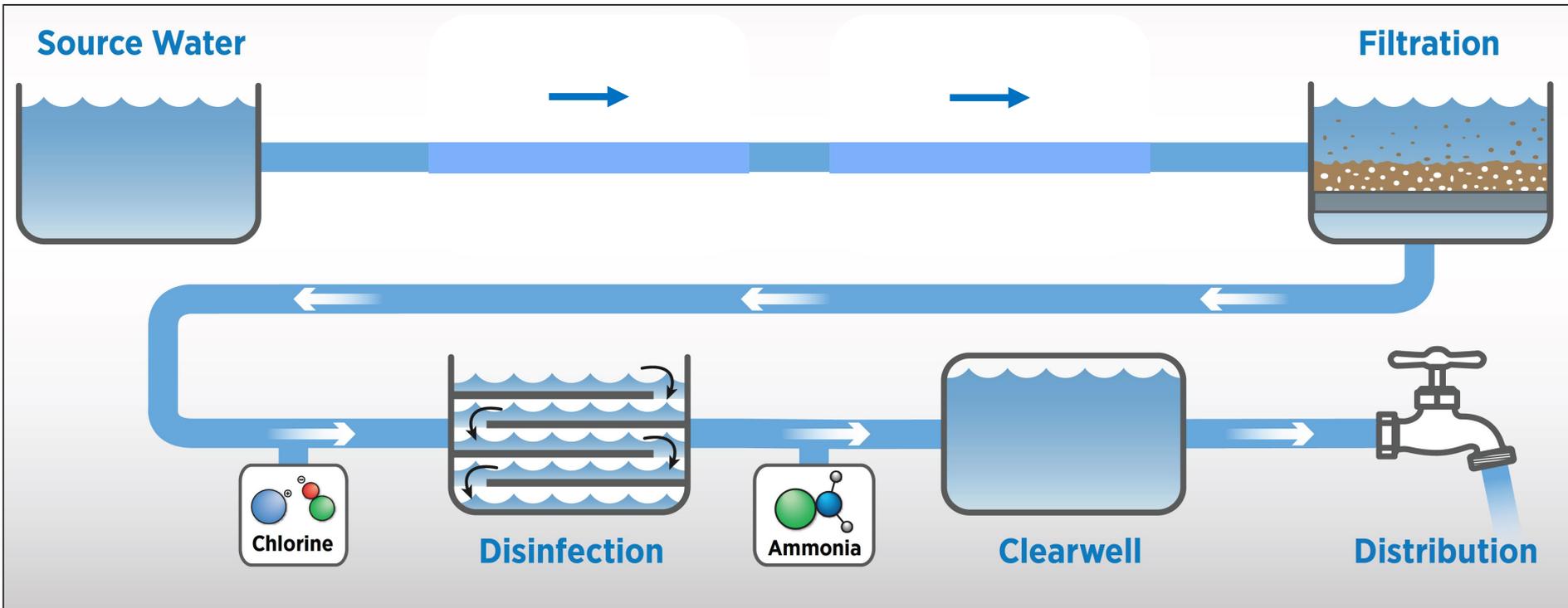
Walnut Creek WTP Location



Walnut Creek WTP (current)



High turbidity slows down filtration, with reduced treatment capacity



Walnut Creek WTP Pretreatment Project

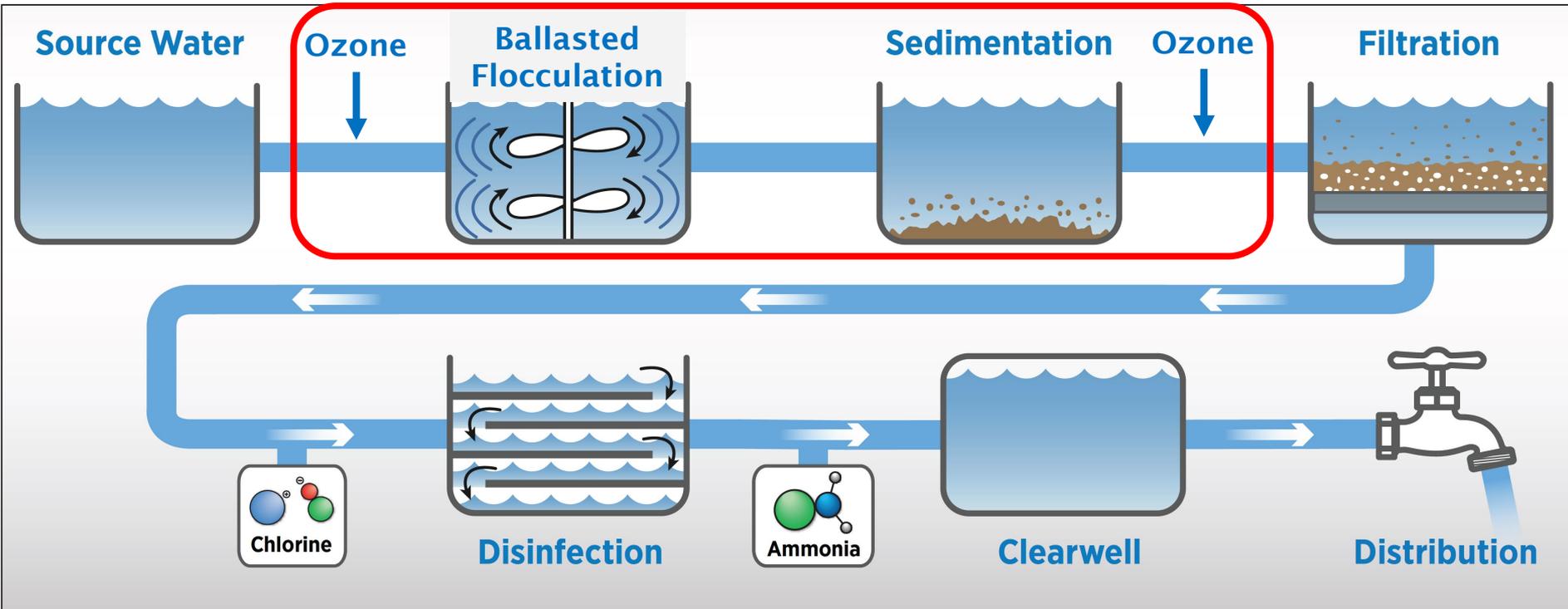


Walnut Creek WTP Pretreatment

Ozone
for taste
and odor

Reduce
turbidity

Filters can operate
at design capacity



Walnut Creek WTP (current)



Walnut Creek WTP Pretreatment Project



Phase 1 - Construction 2027 to 2030

Phase 2 - TBD

PHASING LEGEND

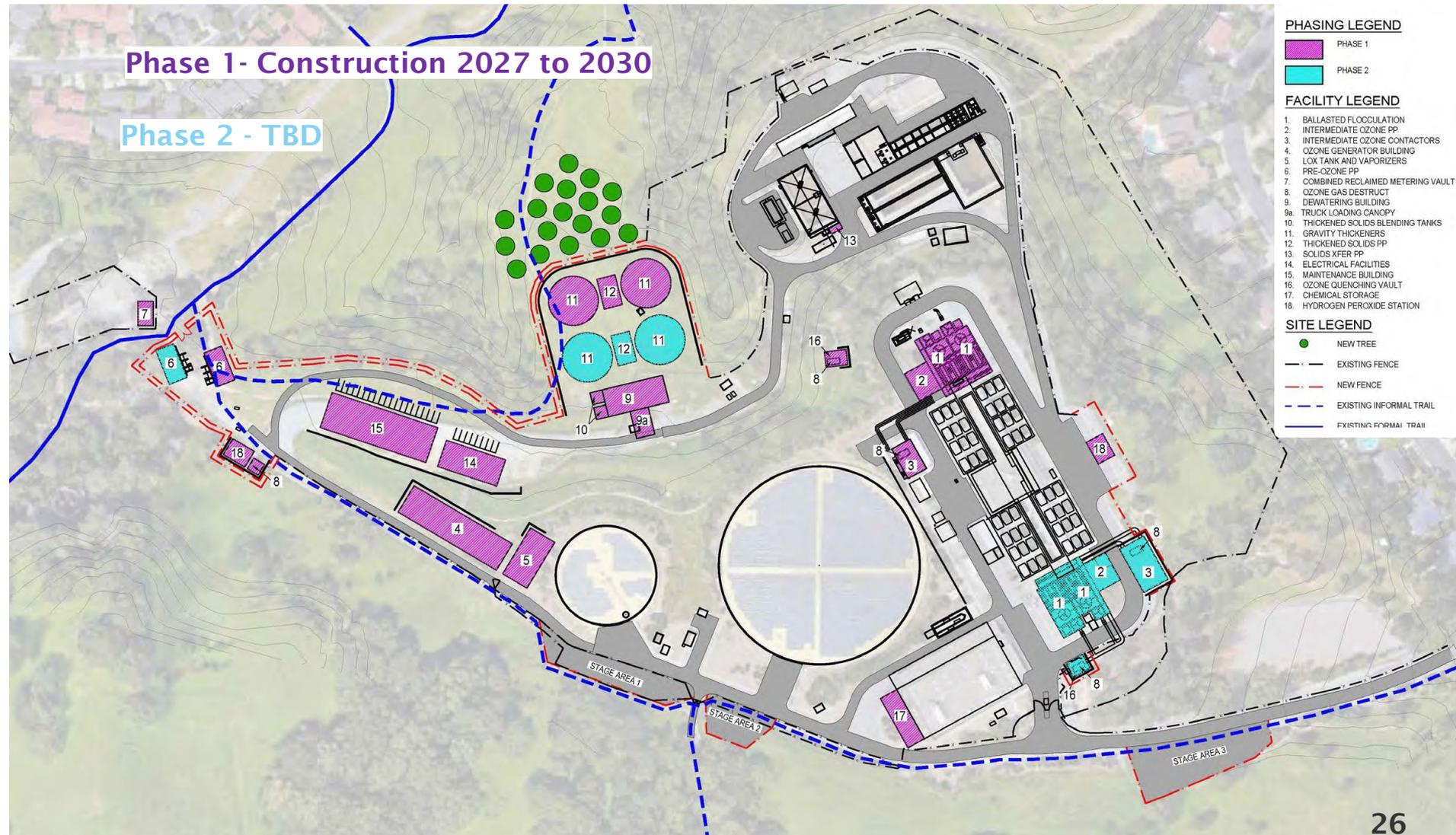
- PHASE 1
- PHASE 2

FACILITY LEGEND

1. BALLASTED FLOCCULATION
2. INTERMEDIATE OZONE CONTACTORS
3. INTERMEDIATE OZONE CONTACTORS
4. OZONE GENERATOR BUILDING
5. LOX TANK AND VAPORIZERS
6. PRE-OZONE PP
7. COMBINED RECLAIMED METERING VAULT
8. OZONE GAS DESTRUCT
9. DEWATERING BUILDING
- 9a. TRUCK LOADING CANOPY
10. THICKENED SOLIDS BLENDING TANKS
11. GRAVITY THICKENERS
12. THICKENED SOLIDS PP
13. SOLIDS XFER PP
14. ELECTRICAL FACILITIES
15. MAINTENANCE BUILDING
16. OZONE QUENCHING VAULT
17. CHEMICAL STORAGE
18. HYDROGEN PEROXIDE STATION

SITE LEGEND

- NEW TREE
- EXISTING FENCE
- NEW FENCE
- EXISTING INFORMAL TRAIL
- EXISTING FORMAL TRAIL



WCWTP Pretreatment Project

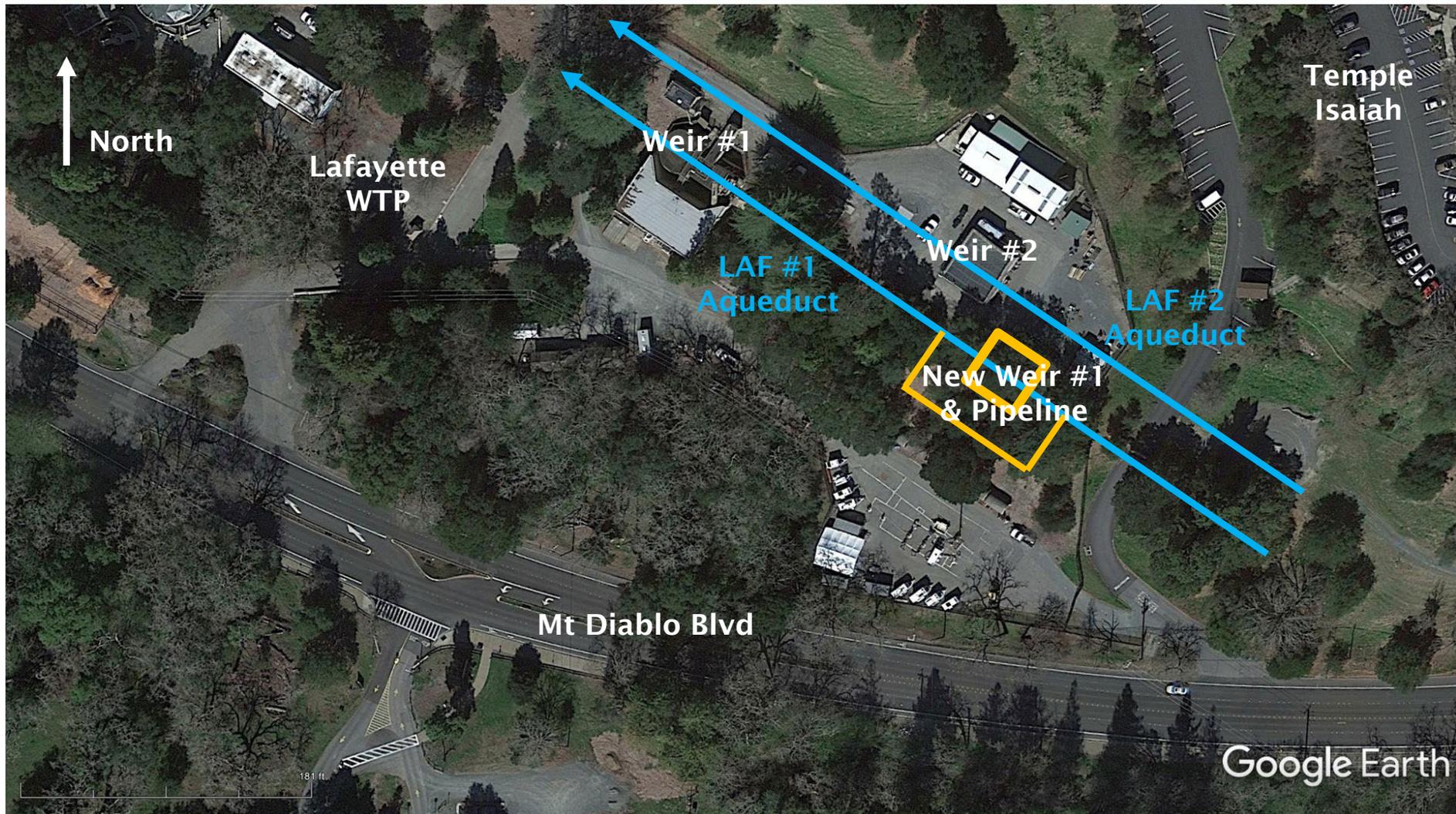


Work at Lafayette WTP

Lafayette WTP Location



Lafayette WTP (current)



Lafayette WTP Work



Raising weir heights 10-ft
to increase water pressure
In LAF #1 and #2 aqueducts

Weir #2



WCWTP Pretreatment Project



Aesthetic & Landscape Design





Curved with Eave



Louvers



Metal Canopy at Chemical Building



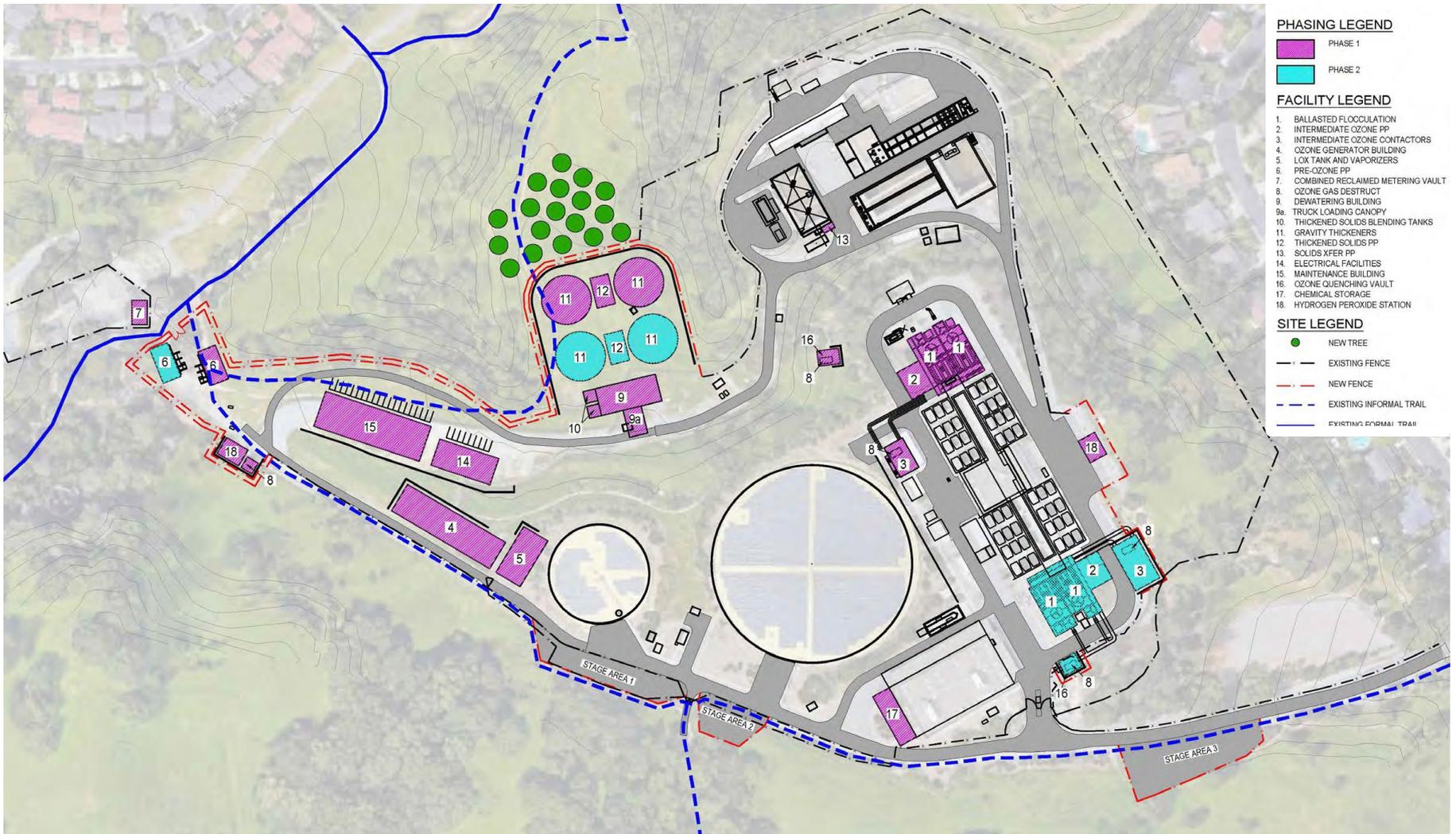
Flat with Parapet



Metal Roll-Up Door



Door Canopy and Window



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
 EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: SITE PLAN
 MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW LOCATIONS
MARCH 16, 2022



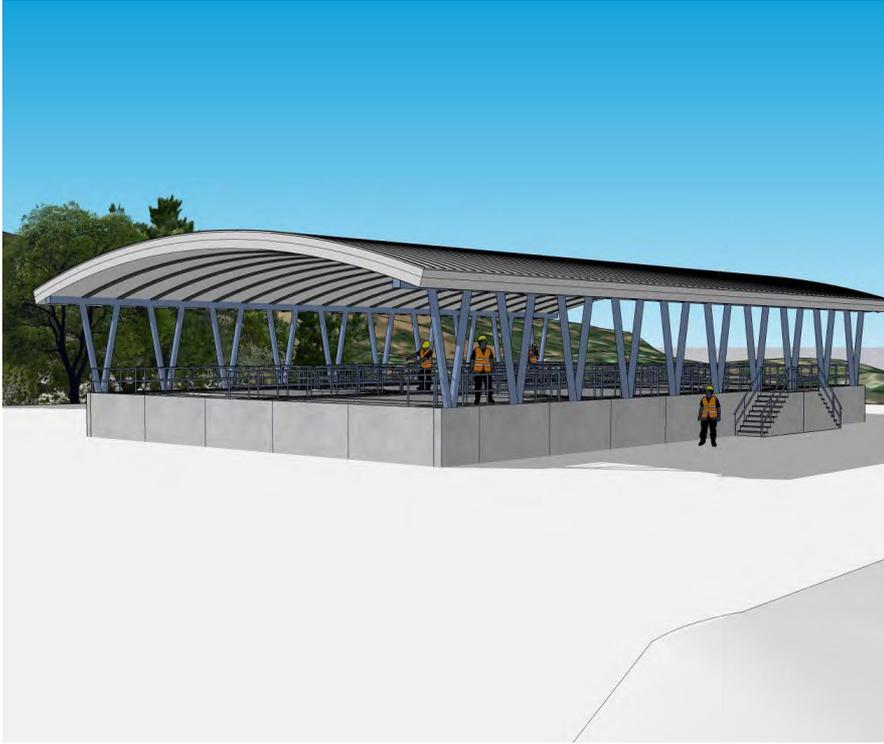
EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: OZONE GENERATOR BUILDING AND LOXTANK AND VAPORIZERS
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW 1: INFORMAL TRAIL_BEFORE
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW 1: INFORMAL TRAIL_AFTER
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: BALLASTED FLOCCULATION CANOPIES AND OZONE GAS DESTRUCT CANOPIES
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW2: SOUSATRAIL_BEFORE
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW2: SOUSATRAIL_AFTER
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW3: SOUSATRIL_BEFORE
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: MEW3: SOUSATRIL_AFTER
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: MAINTENANCE BUILDING AND PRE-OZONE PP
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW4: YARROWTRAIL_BEFORE
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW4: YARROWTRAIL_AFTER
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: GRAVITY THICKENERS, THICKENED SOLIDS PP, AND DEWATERING BUILDING
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW 5: BRIONES MT. DIABLO TRAIL_BEFORE
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW5: BRIONES MT. DIABLOTRAIL_AFTER
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: VIEW 6: GREEN VALLEY DRIVE_BEFORE
MARCH 16, 2022



EBMUD WCWTP | CONCEPTUAL AESTHETIC PLAN
EAST BAY MUNICIPAL UTILITY DISTRICT
DESIGN: MEW6: GREENVALLEY DRIVE_AFTER
MARCH 16, 2022

Walnut Creek Pretreatment Project



Environmental Review Process and Schedule

What is an EIR?



- Environmental Impact Report (EIR)
- Purpose:
 - To inform the public of potential environmental consequences of projects
- EIR is required under CEQA:
 - When there is potential that a project may have significant environmental impacts

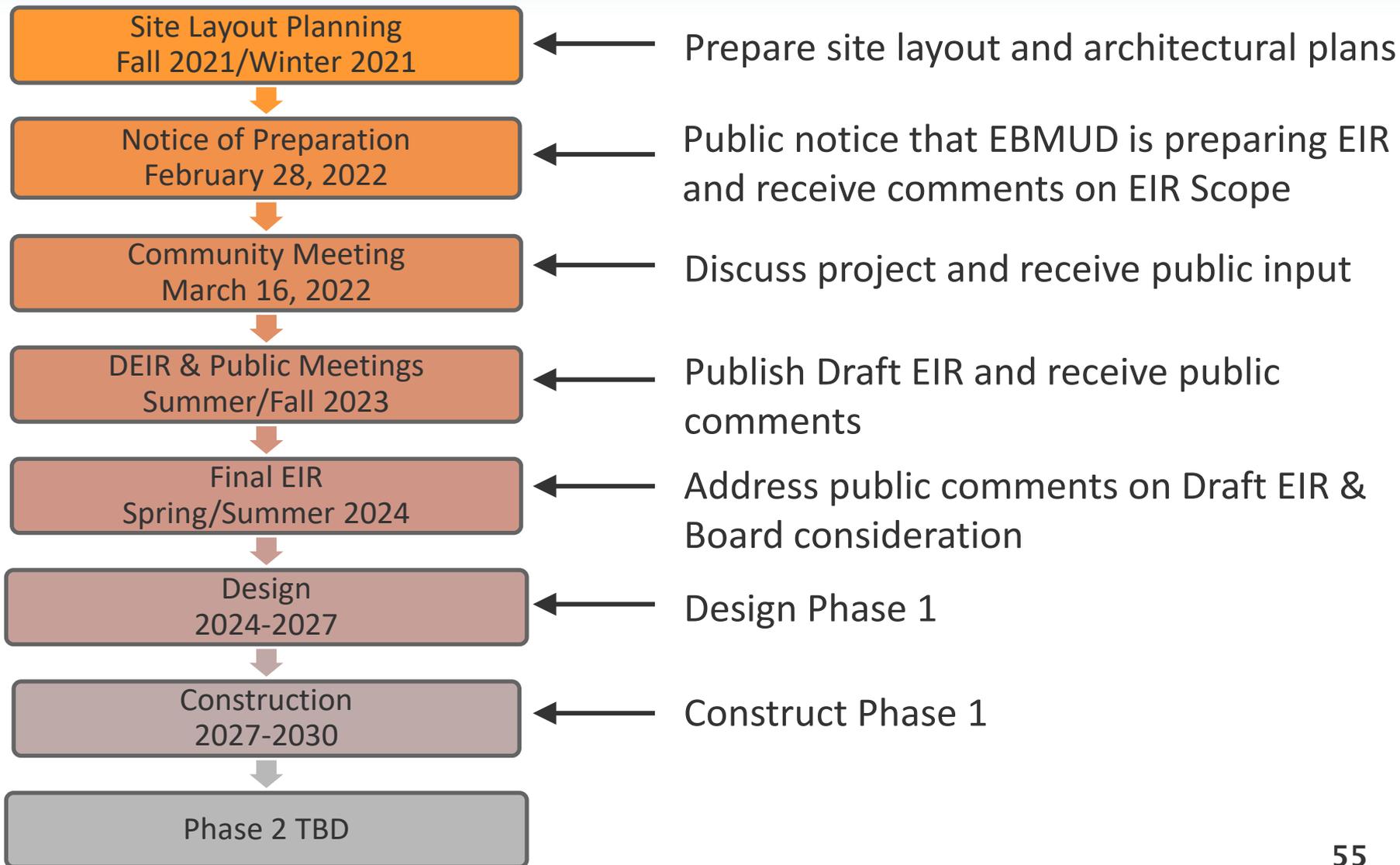
EIR Analysis of Impacts



Environmental Resource Category	Less than Significant	Less than Significant with Mitigation	Significant and Unavoidable
Aesthetics			
Air Quality			
Biological Resources			
Cultural Resources			
Energy			
Geology			
Greenhouse Gases			
Hazardous Materials			
Hydrology/Water Quality			
Noise			
Recreation			
Traffic			
Tribal Cultural Resources			
Wildfire			

To be analyzed in the EIR

Environmental Review Schedule



Next Steps



- Continue to perform environmental studies in support of the EIR
- Continue outreach with stakeholder agencies
- Consider NOP feedback for scoping the project
- Start preparing the Draft Environmental Impact Report to be released ~ Summer/Fall 2023

Thank you for your participation!



More information and tonight's presentation can be found at the
Project Website:

www.ebmud.com/wcwtppretreatment

Contact for Project Questions:

wcwtp.pretreatment@ebmud.com

Or by mail:

Tom Boardman, Project Manager
East Bay Municipal Utility District
375 Eleventh Street, MS 701
Oakland, CA 94607-4240

Send written NOP comments by March 30, 2022

Contact for General EBMUD Questions:

Kathryn Horn, Community Affairs Representative
kathryn.horn@ebmud.com

Questions and Comments



- To participate, please click “Raise Hand” at the bottom of your screen.
- A member of staff will prompt you to speak.
- Please first state your full name.
- When you are done speaking, click “Lower Hand.”

A dark grey rectangular button with rounded corners. On the left side, there is a yellow hand icon with fingers spread. To the right of the icon, the text "Raise Hand" is written in a white, sans-serif font.

 Raise Hand