



Wastewater Treatment Plant Upgrade and Expansion Project

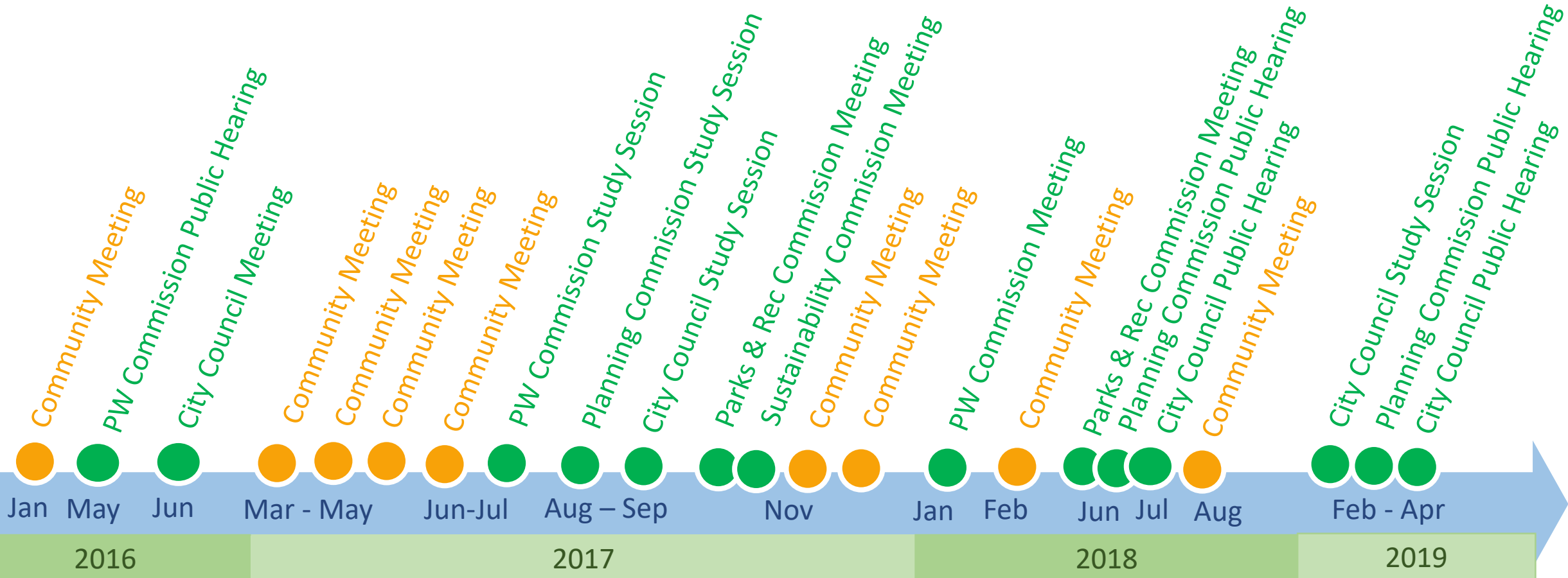
Neighborhood Meeting
May 2, 2019



Agenda

- Clean Water Program Overview
- Wastewater Treatment Plant (WWTP) Upgrade and Expansion Project Update
 - *Upcoming Construction*
 - Construction Phase 1: Site Preparation
 - *Future Construction*
 - Construction Phase 2: Build the Foundation
 - Construction Phase 3: Build the WWTP Facilities
- Q&A Session

Past Outreach Activities



Community Outreach Channels

Effectiveness Polling

- Postcard Mailing
- City or Clean Water Program Website & Events Calendar
- San Mateo Daily Journal Calendar
- Social Media
 - *Nextdoor, Facebook, Twitter*
- Email or E-Newsletter



Clean Water Program Overview

Existing Wastewater System

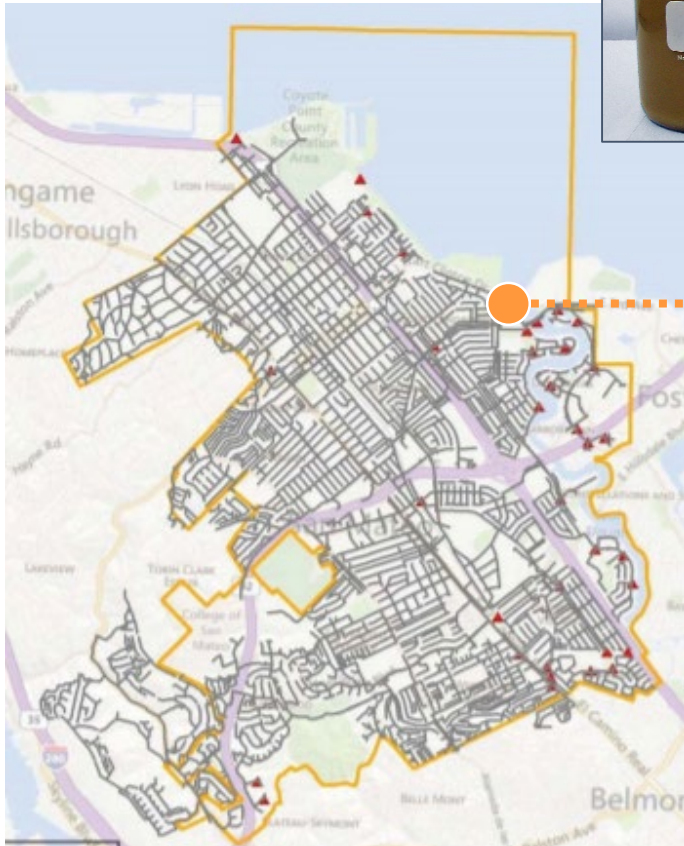
Collect Wastewater



Treat Wastewater



Discharge Treated Water to Bay

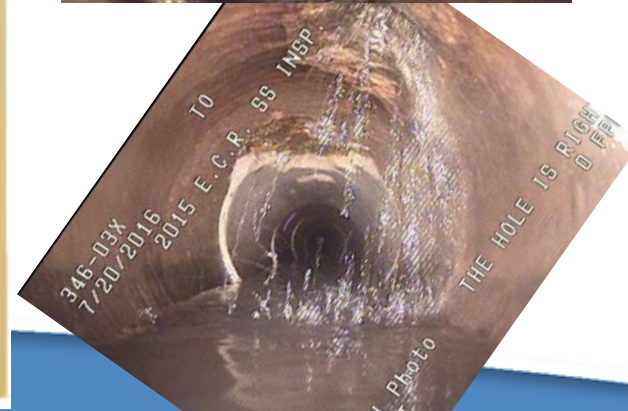
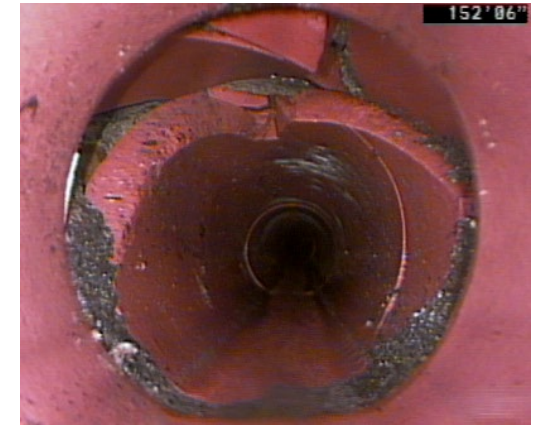
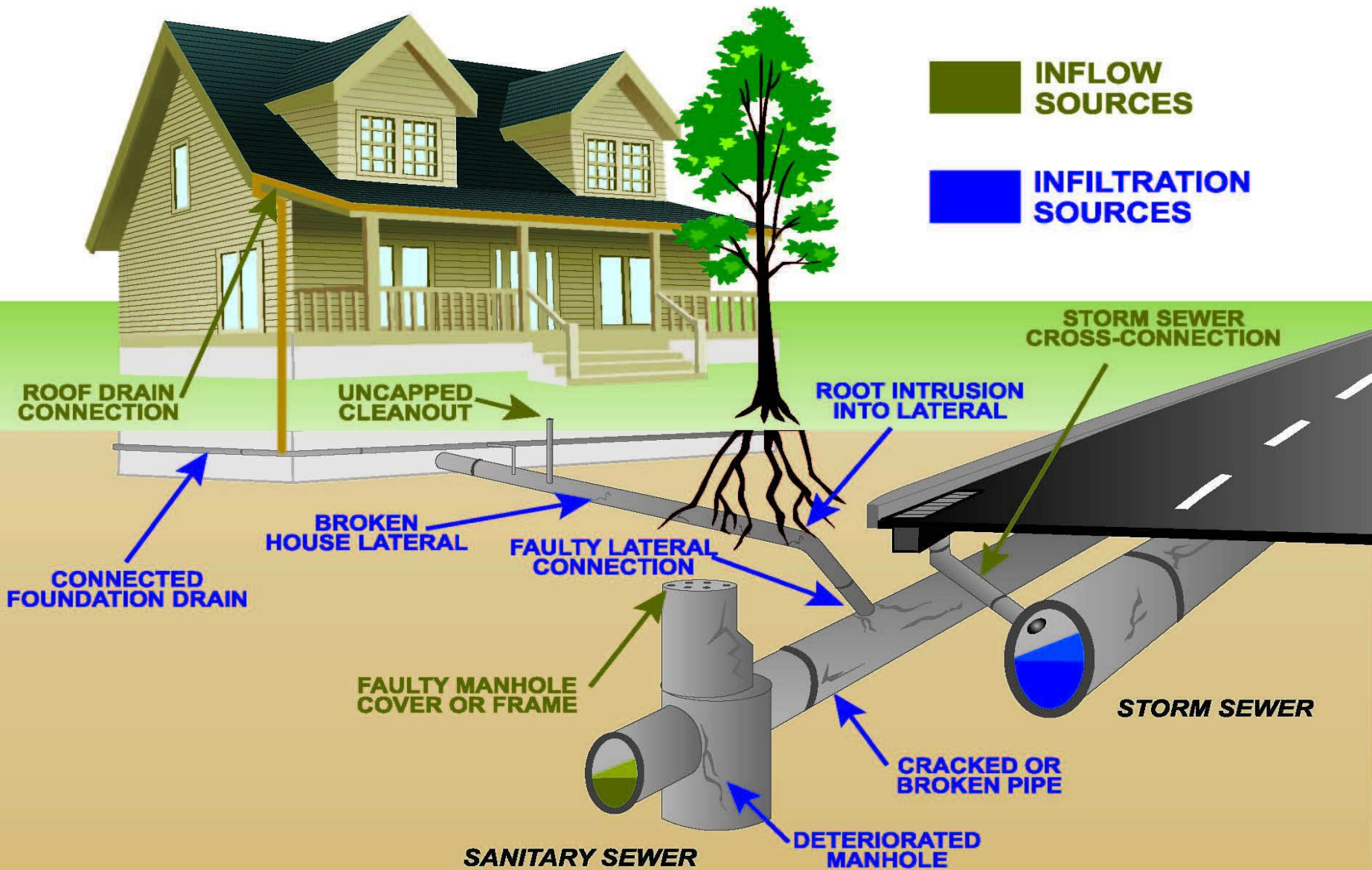


Existing
Collection System



Existing WWTP

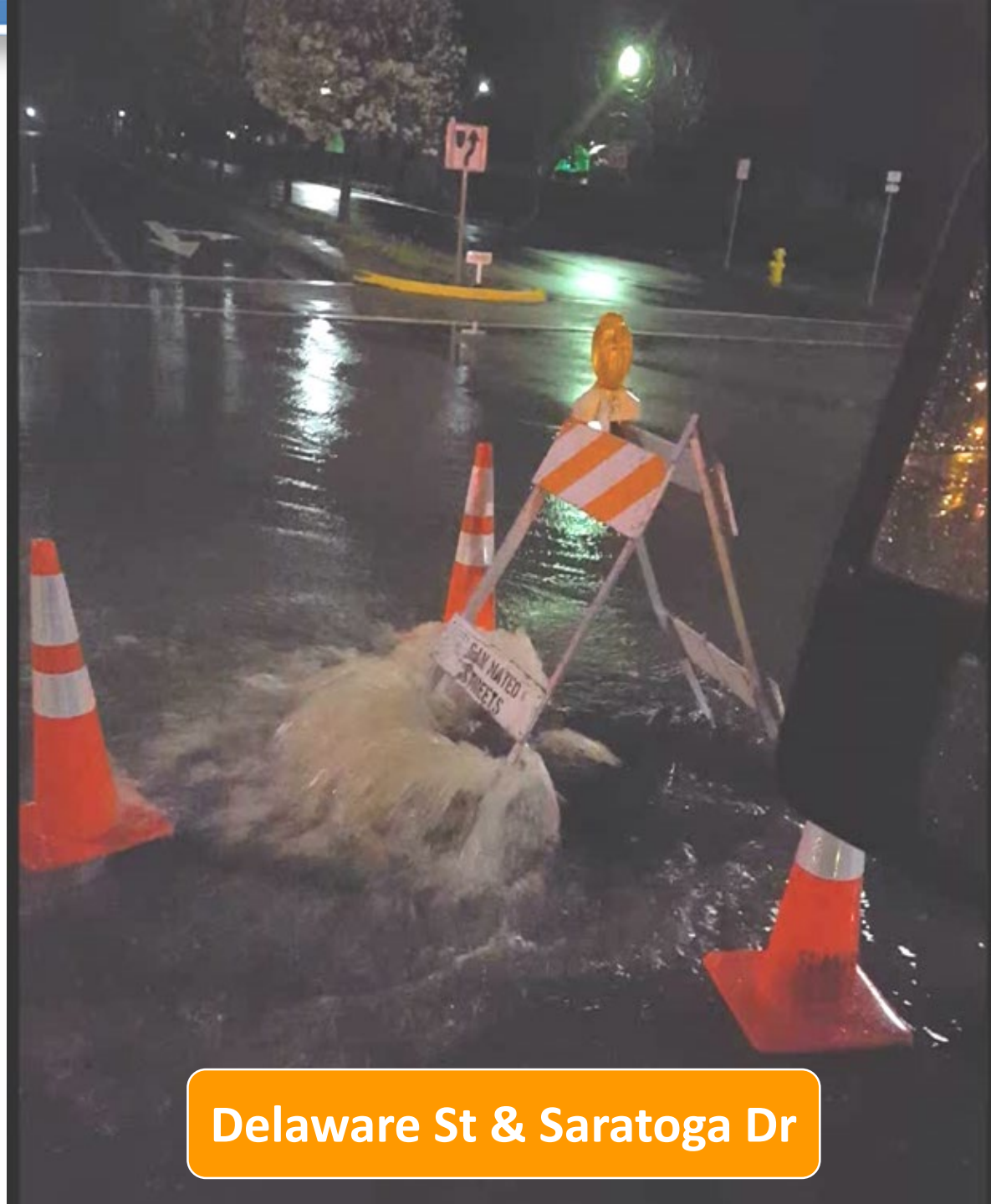
Sources of Infiltration and Inflow



Peak Wet Weather Conditions & Insufficient Capacity

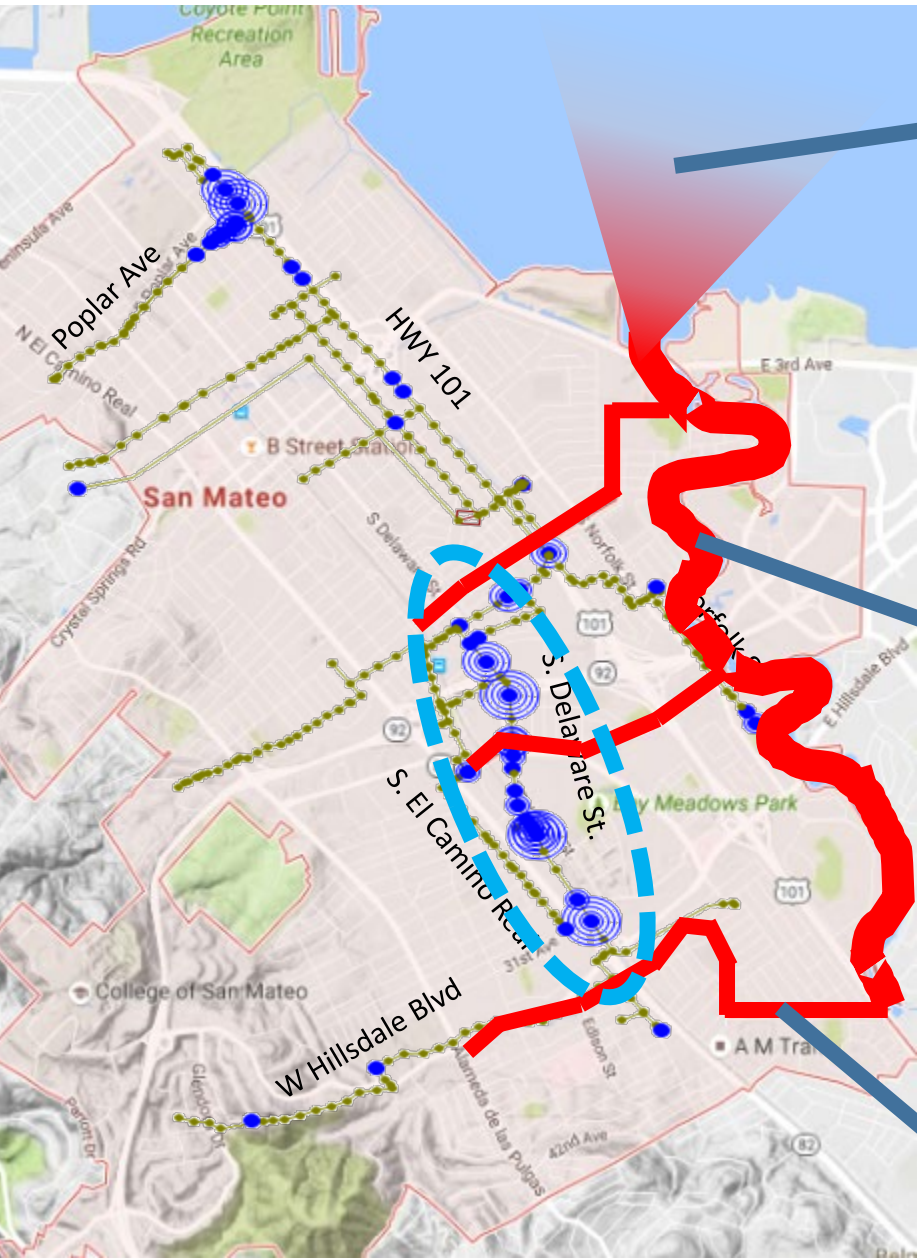
What Causes Sewer Overflows?

*Sewage PLUS
Infiltration/Inflow of Rain
Water Entering the System*

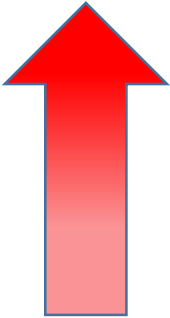


Delaware St & Saratoga Dr

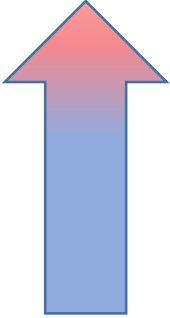
Sewer Overflow Impacts & Regulatory Violations



SF BAY



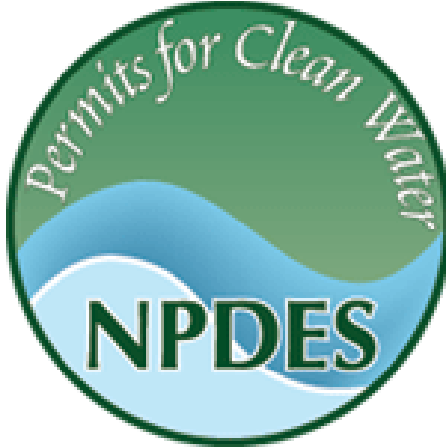
LAGOON



CREEKS



STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS



Clean Water Program Goals



Replace aging infrastructure and facilities



Build wet weather sewer system capacity assurance to prevent overflows



Meet current and future regulatory requirements



Align with the City of San Mateo and Foster City's sustainability goals

Protecting the Bay and our Community for a Sustainable Future



WWTP Upgrade & Expansion Project Update

WWTP Site Location and Vicinity



WWTP Site Location



San Francisco Bay

Detroit Drive Site

Wastewater Treatment Plant Upgrade and Expansion Site

Private Property




Private Property

Seal Slough

Existing Wastewater Treatment Plant

Leslie Creek

WWTP Site Layout

-  Aging Existing Facilities to be Replaced
-  New Facilities
-  Existing Facilities to be Rehabilitated/ Repurposed



WWTP Conceptual Renderings



Existing WWTP

Treatment Process Facility

Detroit Dr.

Administration Building

East 3rd Ave.

SF Bay

WWTP Entry View From East 3rd Avenue



Pedestrian & Bike Path with Interpretive Landscape

Administration Building with Entry Plaza & Educational Area

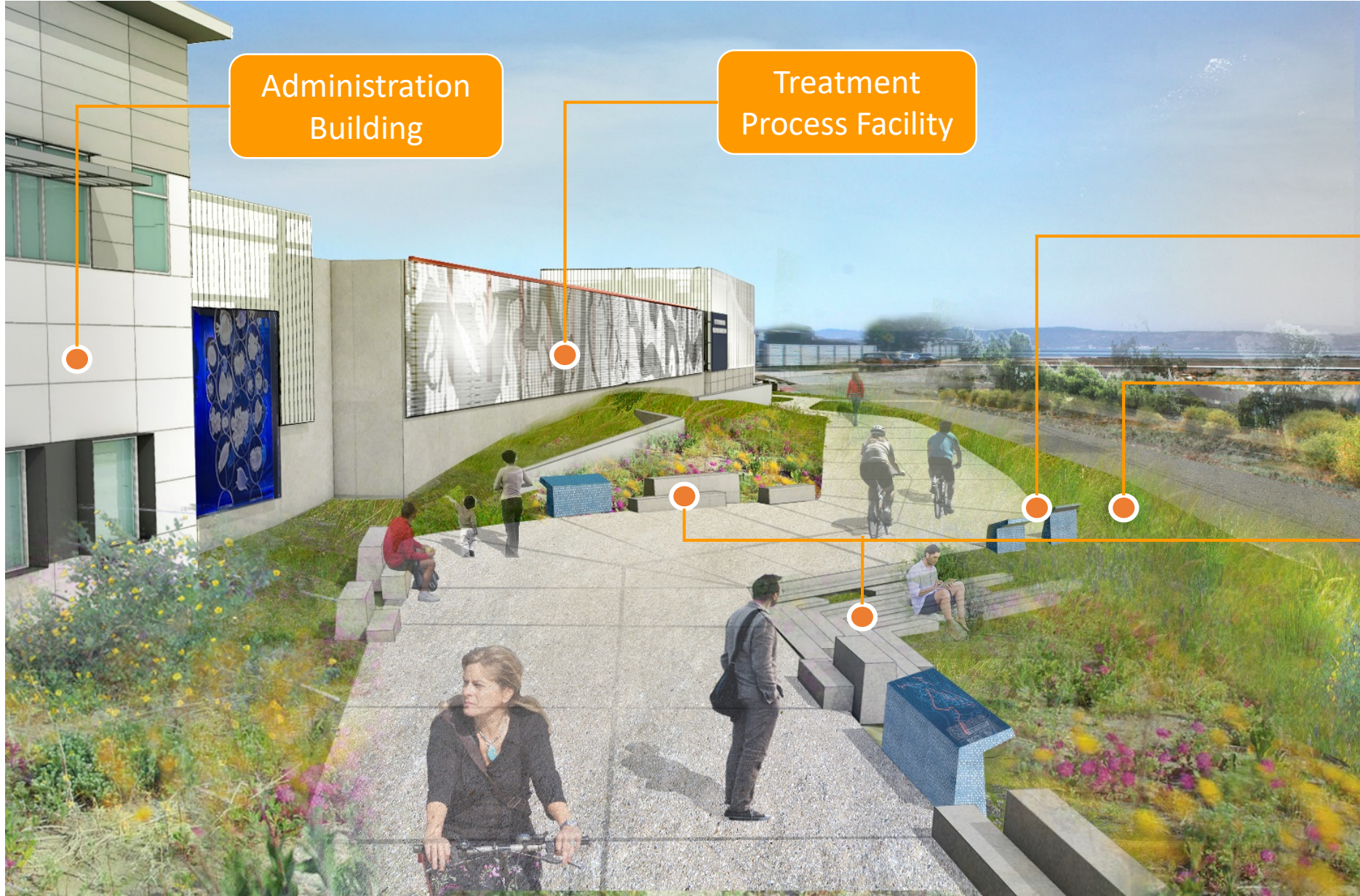
Metal Fabric Screen with Estuary Graphic

Educational Signage

East 3rd Ave.

Detroit Dr.

Pedestrian & Bike Path with Landscape Features



Administration Building

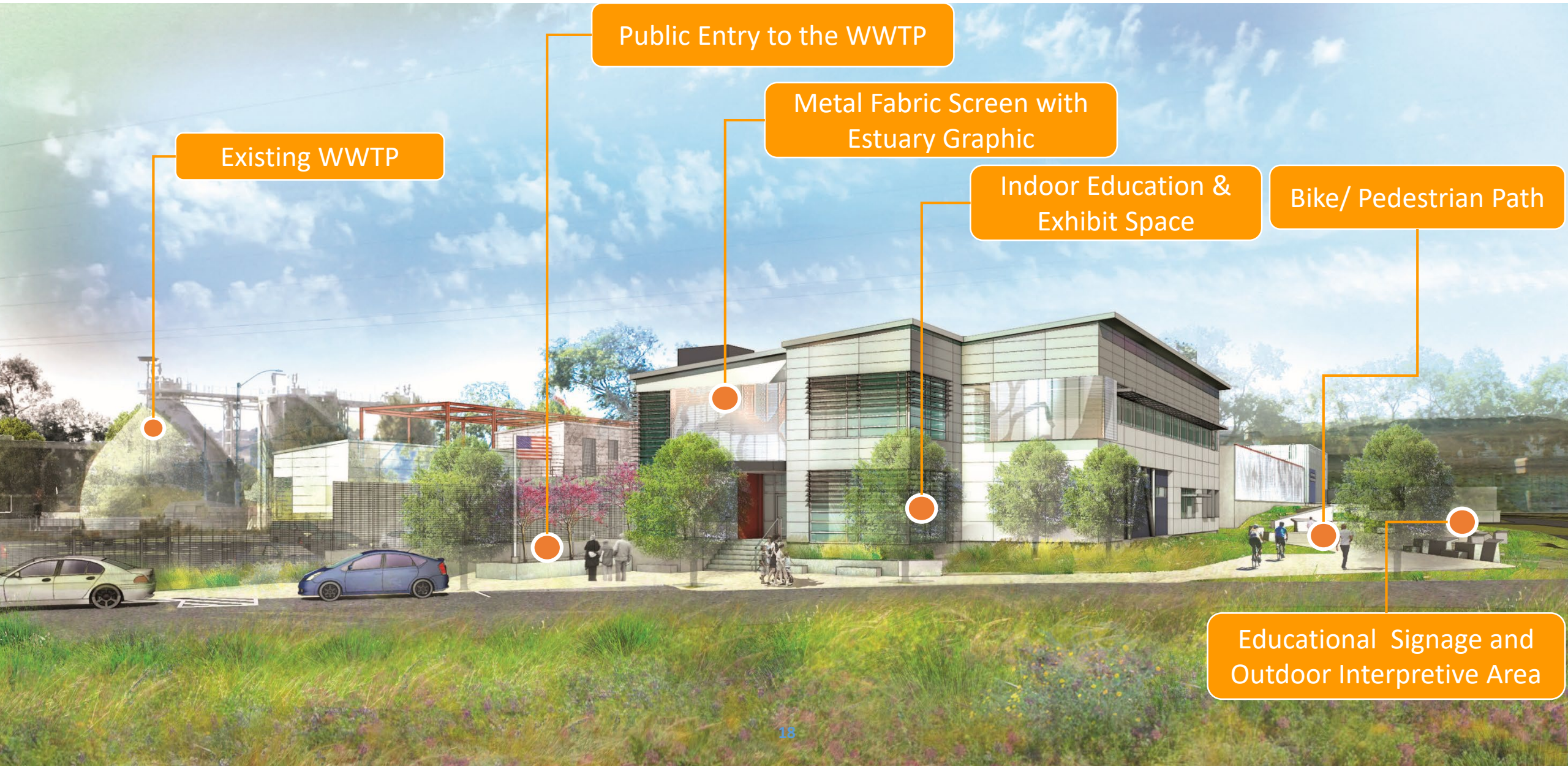
Treatment Process Facility

Educational Signage with Site History and Treatment Process

Stormwater Treatment using Landscape

Seating Along the Path Provide Areas to Rest

Public Interface At Administration Building



Existing WWTP

Public Entry to the WWTP

Metal Fabric Screen with Estuary Graphic

Indoor Education & Exhibit Space

Bike/ Pedestrian Path

Educational Signage and Outdoor Interpretive Area

Construction – Phase 1

Site Preparation

What You Should Expect During Phase 1 Construction Activities

- Construction Hours
- Informational Signage
- Site Safety and Security (Pathway Closure and Parking Restrictions)
- Construction Trailer Setup
- Demolition and Vibration Mitigation
- Excavation and Shoring
- Dewatering
- Control of Traffic, Dust & Dirt, and Noise
- Construction Hot Line - Tell Us How We Are Doing! **(650)727-6870**

Existing Project Site - Aerial View



Phase 1 – Site Preparation

- Work includes:
 - Demolish Facilities
 - Construction Trailers Setup
 - Excavation, Shoring and Dewatering
- Schedule:
 - Construction work to start July 2019



Conceptual Rendering of Phase 1 Construction Work

Phase 1 – Construction Hours

- Construction Site open from Monday to Friday, 7 am – 7 pm
- Typical construction day is expected to be 8-10 hours
- Construction work is not planned for weekends
 - *Exceptions may be needed, but only with City approval*

Upcoming Informational Signage

Wastewater Treatment Plant Upgrade and Expansion

Construction Begins 2019



The wastewater treatment plant is being upgraded and expanded to protect public and environmental health and to comply with state and federal regulations. To find out more about this vital improvement to San Mateo's infrastructure, please visit our website or call:

(650) 727-6870

www.CleanWaterProgramSanMateo.org



Several signs to be posted around the project site

YOUR SEWER RATES AT WORK Wastewater Treatment Plant Upgrade and Expansion Construction Begins Summer 2019

Alternative Route to Parks

The wastewater treatment plant is being upgraded and expanded to protect public and environmental health and to comply with state and federal regulations. To find out more about this vital improvement to San Mateo's infrastructure, please visit our website or call: (650) 727-6870



For project information, visit:
www.CleanWaterProgramSanMateo.org



Phase 1 – Path Closure for Safety and Ped/Bike Access Route Alternatives



Phase 1 - Establish Parking Restrictions for Safety

 No Public Parking during Construction (starting July 2019)

 Alternative Parking & Facilities

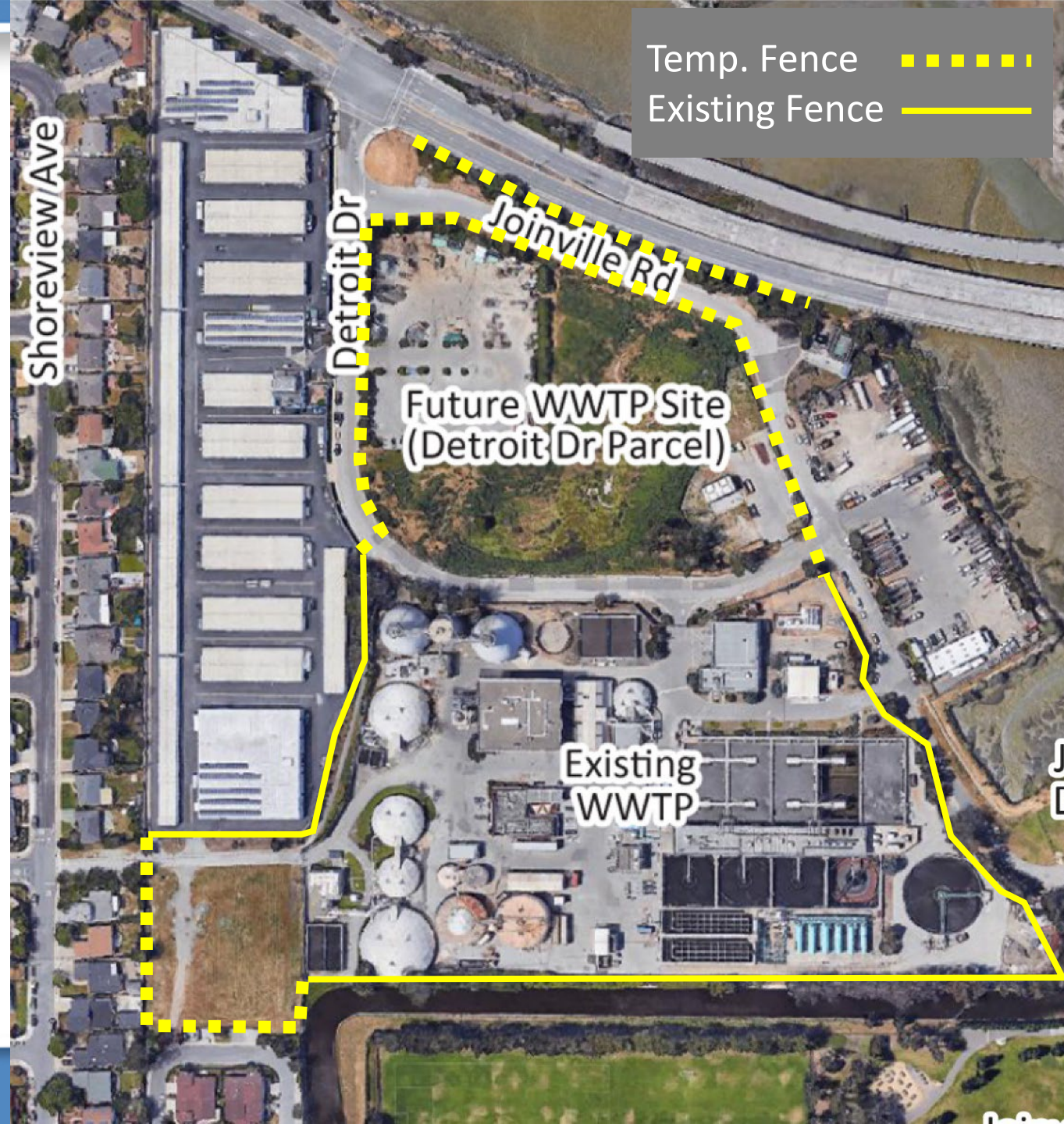


Joinville Park Parking Lot 

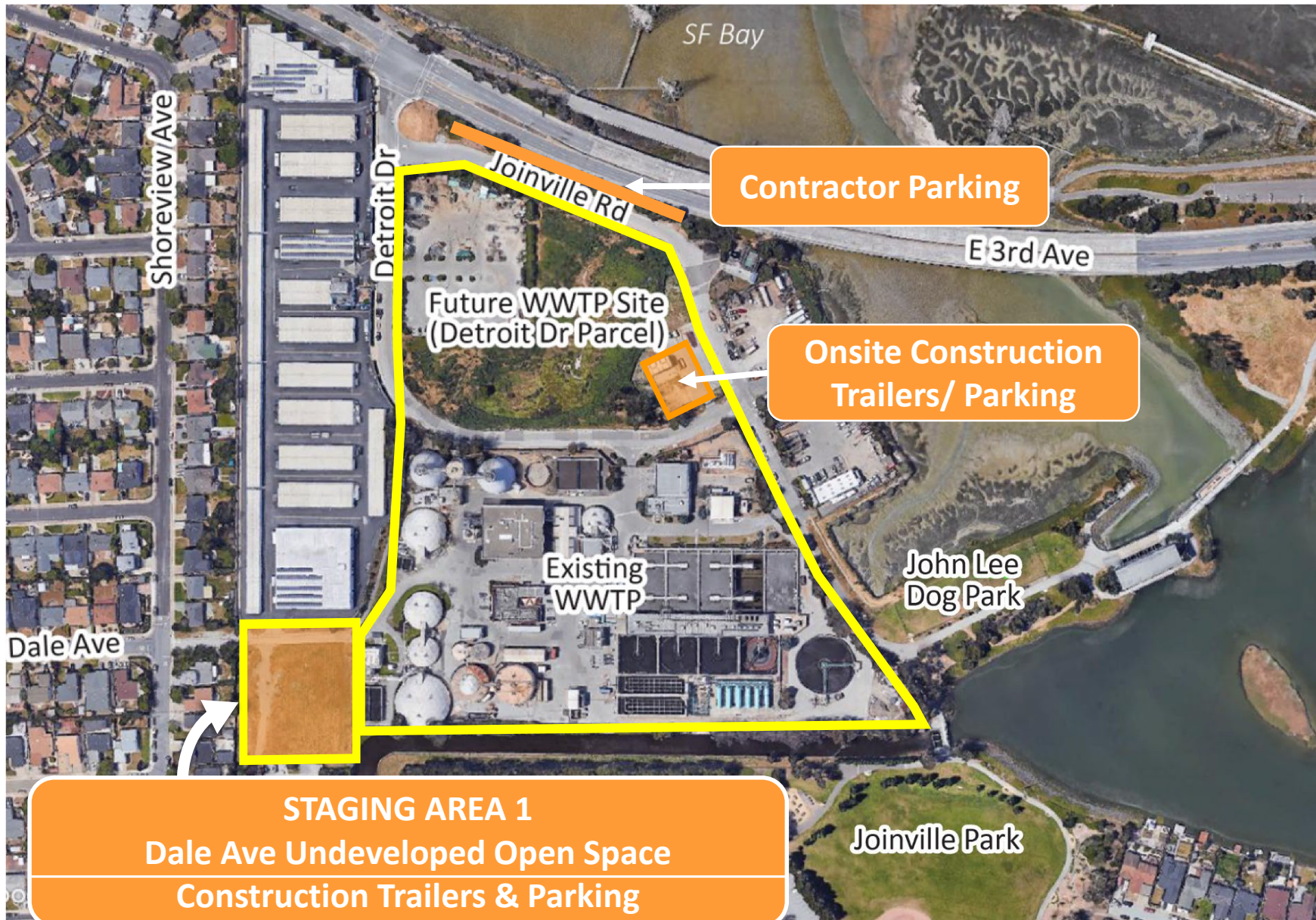
Phase 1 - Temporary Construction Fencing to Secure the Site



***6 to 8 ft High Chain Link Fence
w/ Fabric Mesh Screening***



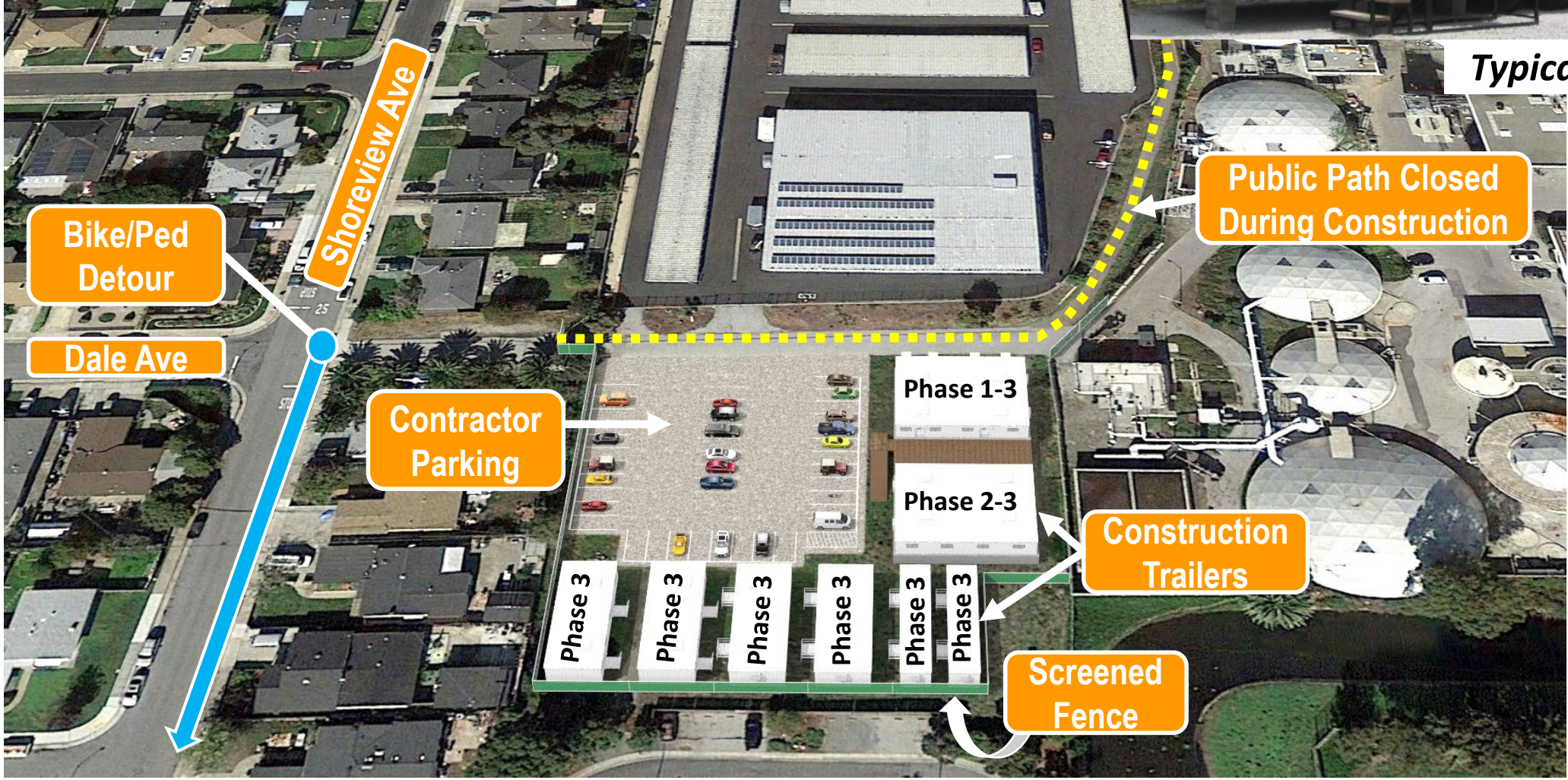
Phase 1 - Staging of Construction Trailers & Contractor Parking



Phase 1 – Setup Staging Area Conceptual Rendering



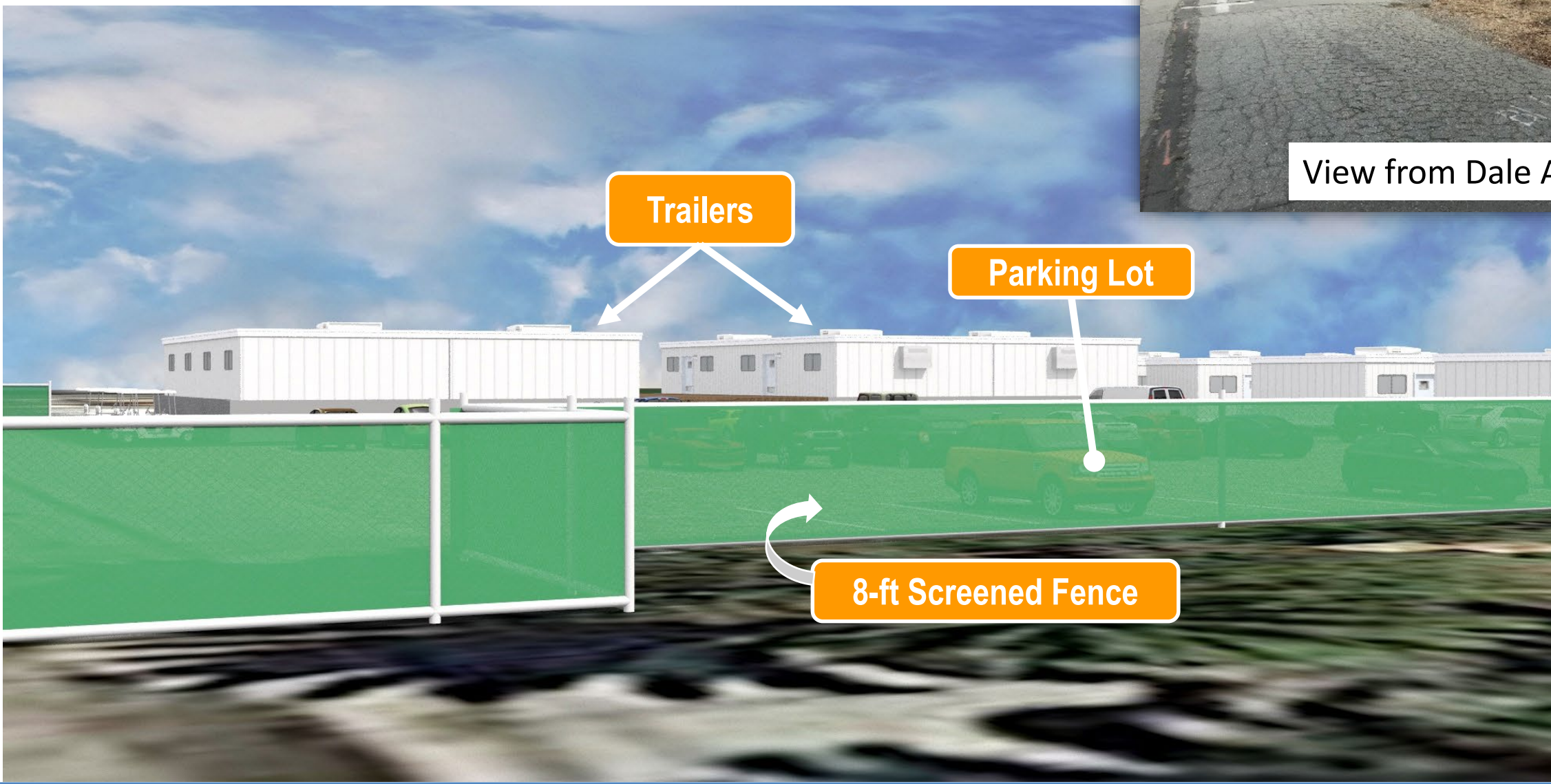
Typical Construction Trailer



Phase 1 – Setup Staging Area Conceptual Rendering



View from Dale Ave



Trailers

Parking Lot

8-ft Screened Fence

Phase 1 – Demolition and Vibration Mitigation

- Potential minor vibrations during demolition activities
- Contractor will use low-impact demolition methods
- Demolition of existing facilities will take approximately 3-4 months



Existing Digesters

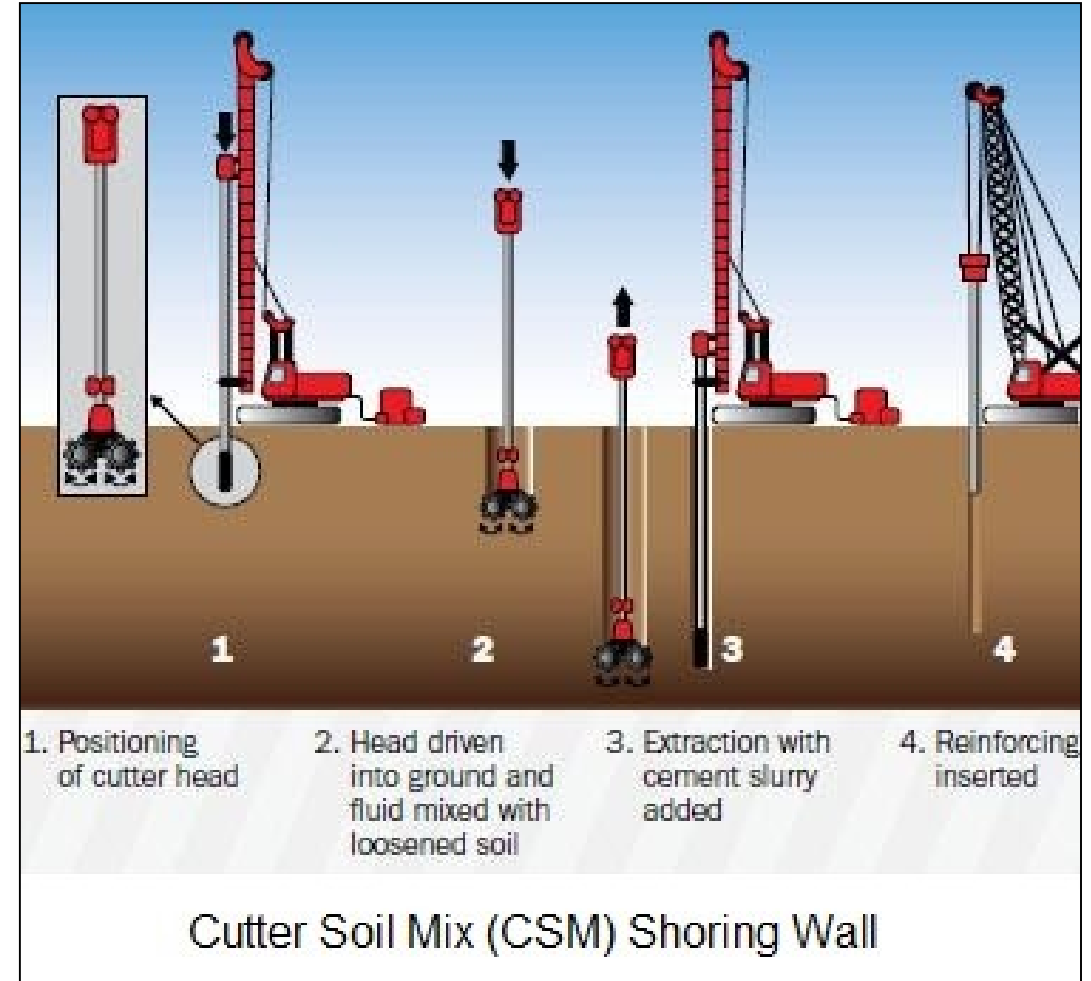


Existing Filters

Phase 1 – Excavation and Shoring



- Cutter Soil Mix Shoring System
 - Uses two sets of counter rotating cutter wheels
 - Cuts the soil while injecting cement slurry to form soil cement panels
 - Good for challenging soils



Phase 1 - Construction Site Dewatering

- Construction dewatering starting in Fall 2019 until 2022
- Subsidence monitoring stations located on the perimeter of construction site to monitor groundwater levels



**Example Dewatering Treatment System
(Will be located inside construction site)**

Phase 1 – Construction Traffic Mitigation

- Use City approved haul routes
- Enforce Traffic Management Plan
 - No trucks waiting on East 3rd Ave
 - Right turn into site from East 3rd Ave
 - Left turn from Detroit Drive
 - Minimize construction traffic during commute hours
 - Trucks in & out quickly during excavation
- Anticipated truck traffic (Phase 1: 4 months):
 - Per the General Plan, E. 3rd Ave has 10,000 to 50,000 daily vehicles
 - Phase 1 will add \approx 130 to 175 trucks per day (**less than 1%** of the road capacity)



Phase 1 - Dust and Dirt Control

Construction Areas

Streets



**Wet Sweeping on
Detroit Dr & 3rd Ave around
Construction Site**



Demolition




**Water Spraying
during Demolition**



**Covered Trucks, Site Watering,
and Rumble Strips**

Phase 1 – Noise Control

- General/typical construction noise is expected starting in July 2019 and excavation noise starting in December 2019 to April 2020.
 - Trucks, demolition activities, excavation equipment
 - Duration for demolition activities (3 - 4 months)
- Implement noise reduction measures
 - Daytime only operations (8 – 10 hours per day)
 - Trucks, excavation and demolition equipment adequately muffled
 - Temporary sound wall on the western boundary in preparation for subsequent phases of construction
 - Operate a construction noise hotline to receive questions and concerns: **650-727-6870** 



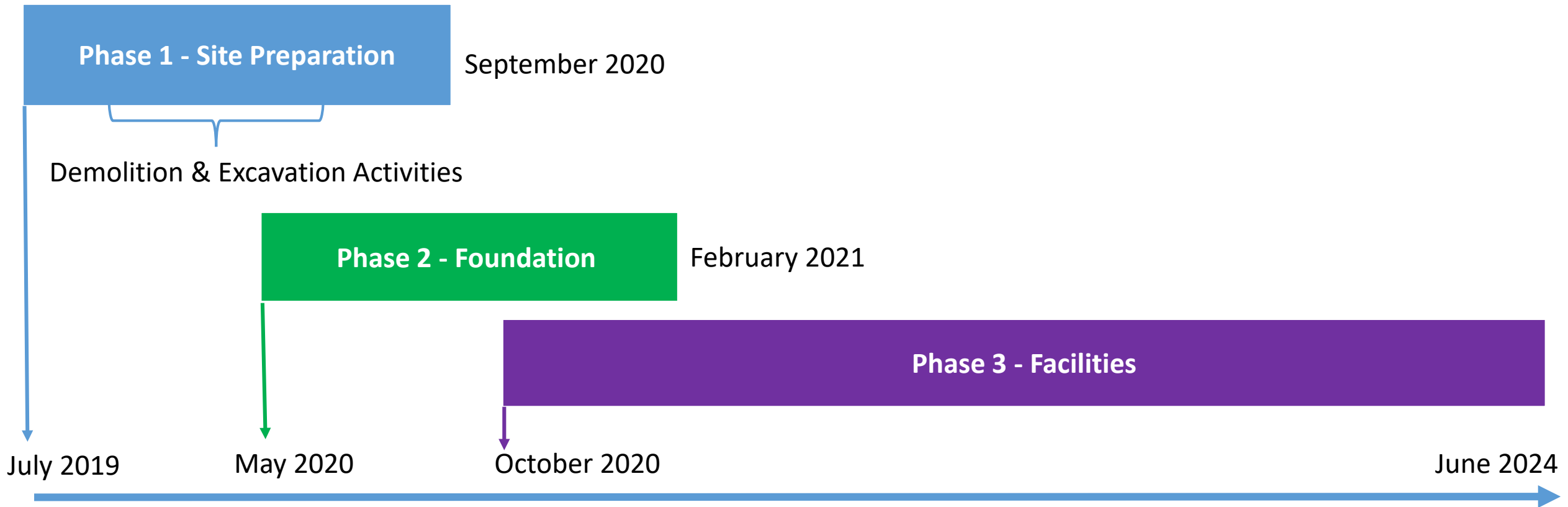
Excavation Noise



Demolition Noise

Future Construction Phases 2 and 3

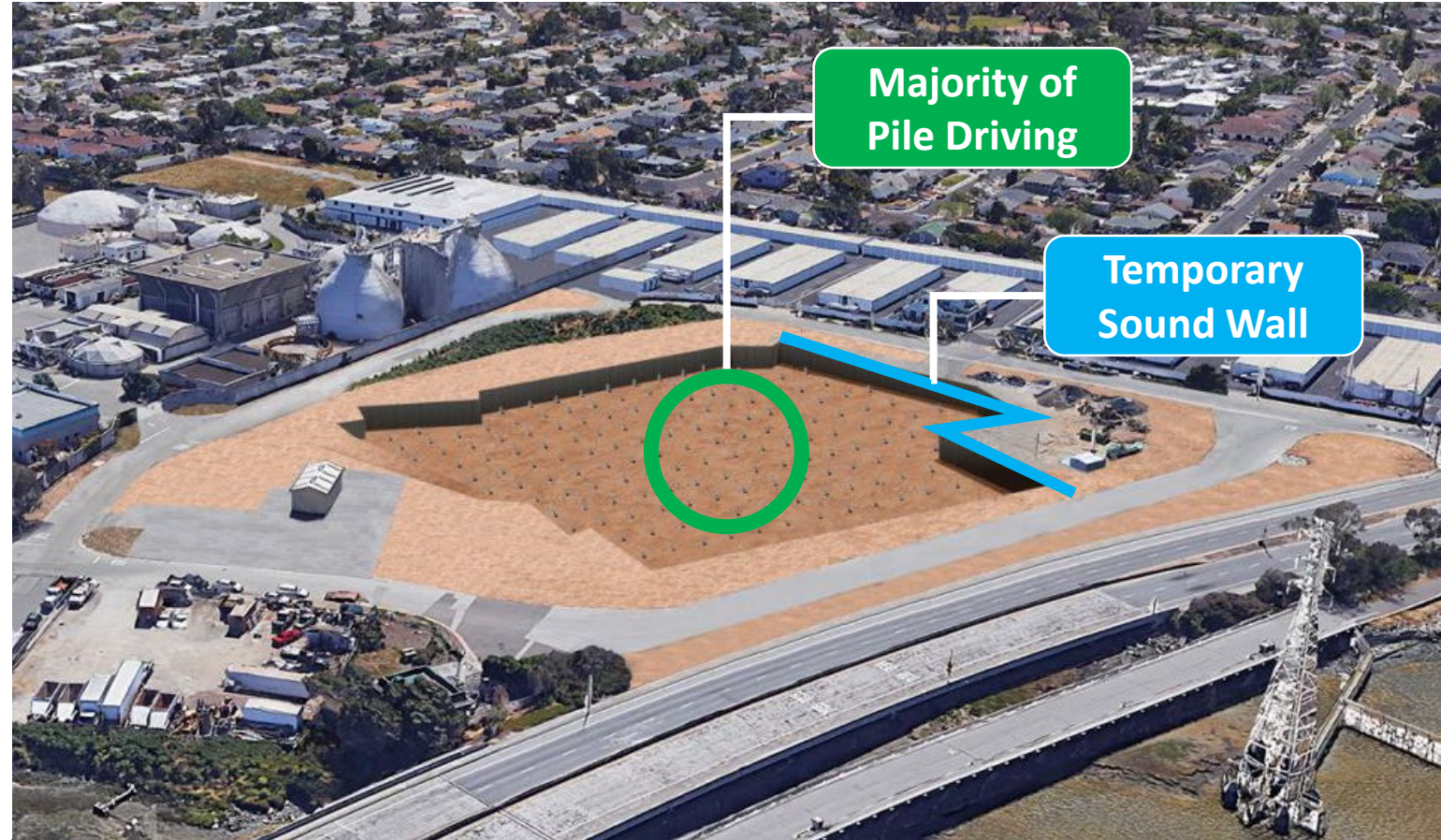
Construction Schedule Overlaps (Phases 1-3)



Construction duration for all three phases is approx. 5 years total

Phase 2 – Build the Foundation

- Work includes:
 - Majority of Pile Driving
 - Underground Utilities and Pipes
- Temporary Sound wall on the western boundary to mitigate noise impact to public during pile driving.
- Schedule:
 - Planned to start late Spring 2020
 - Work overlaps with the Phase 1
- Additional community meetings will be conducted prior to start of Phase 2.



Conceptual Rendering of Phase 2 Construction Work

Phase 3 – Build the WWTP Facilities

● Work includes:

- Additional Pile Driving
- New Treatment Facilities
- Administration Building
- Street and Landscape Improvements
- Demobilization

● Schedule:

- Planned to start Fall 2020
- Work overlaps with Phase 2



Conceptual Rendering of Completed Project



Q&A Session

How to Stay Informed and Provide Input

Contact Us

info@CleanWaterProgramSanMateo.org

Communication Hotline: 650-727-6870

Sign Up for Email Updates

www.CleanWaterProgramSanMateo.org

Register for Private Neighborhood Updates

www.NextDoor.com

