# North Richmond Shoreline Horizontal Levee Project Update February 26, 2021

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### **Presentation Overview**

- Review Project Setting & Goals
- Provide Project Status Update
- Oiscuss Collaborative Approach
- Review Recent History of Community Participation





China Camp (5.5 miles) Point San Pedro (3.05 miles)

Burdell Mountain (16.14 miles)

Point Pinole (2.6 miles)

Retention Pond

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#### WILDCAT MARSH & LANDFILL LOOP TRAIL

The story of this portion of the Bay Trail is one based **BayTrail** on the very essence of today's meaning of "green." Non-existent until now, the trail incorporates fantastic views of San Pablo Bay, Wildcat and San Pablo Creeks with remarkable examples of industrial water conservation and reuse, resource recovery, electrical generation, recycling and recreation.

Make sure to visit the many interpretive exhibits along the trail which tell the story of this formerly little-known part of Contra Costa County's shoreline.

#### Map Legend

<u>88785</u>	Bay Trail suitable for walking, biking roller skating & wheelchair access
5 # 50	Bay Trail of compacted aggregate
V	Distance markers and mileage between two markers
	Future Bay Trail
<u>*</u>	Connector Trail
Parking	Drinking Water
Picnic area	Restrooms

2 Kilometers approximate

2 Miles approximate

#### 516 Viewshed -----1.18m T Picnic Area Compost Power Crusher Generato **Garbage Mountain** Green (158' elevation) Transfer Waste Station Construction & Demolition

This new land form has attracted flora and fauna characteristic of the Bay Area shorelines.

Salt tolerant plants as well as marshbirds, shorebirds and raptors co-exist with mammals along the shoreline.



----- 1m

Landfill Loop Trail Head (in P OF - DE GEDER DE UDA

San

Pa

plo

Who Lives Here?

AWMP attreet **O**Wildcat Creek **Trail Head** 25 N. N. e

What to bring

Snack or picnic lunch

on the trail:

▶ Water

Binoculars

Birding book Camera

For school tour information call

PARR BLVD

\*\*\*\*\*\*

PITTSBURG AVE

San Pablo (

recyclemore 510-215-3125.

Wastewater

Treatment Plant

Design: © 2011 Spokewise

NORTH

# Sea Level Now

#### O' SLR @ MHHW (Adapting to Rising Tides data)

108"-

96"-

84"

77"

36"

24"

12"

WCWD

## **Sea Level Rise**

5.5' SLR + 2-Year Storm Flooding (84'') (Adapting to Rising Tides data)

108"-

52

24

12

Tota

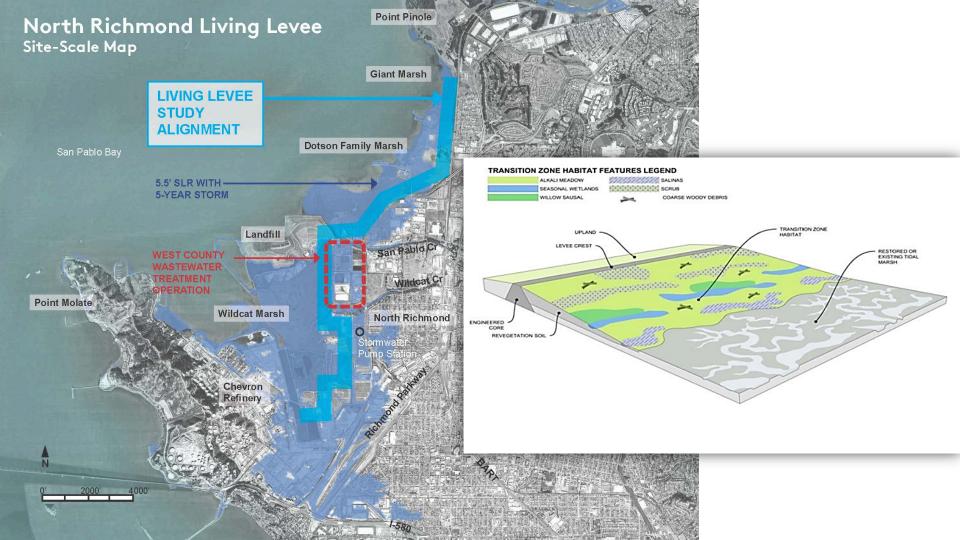
### Landfill (RSS)

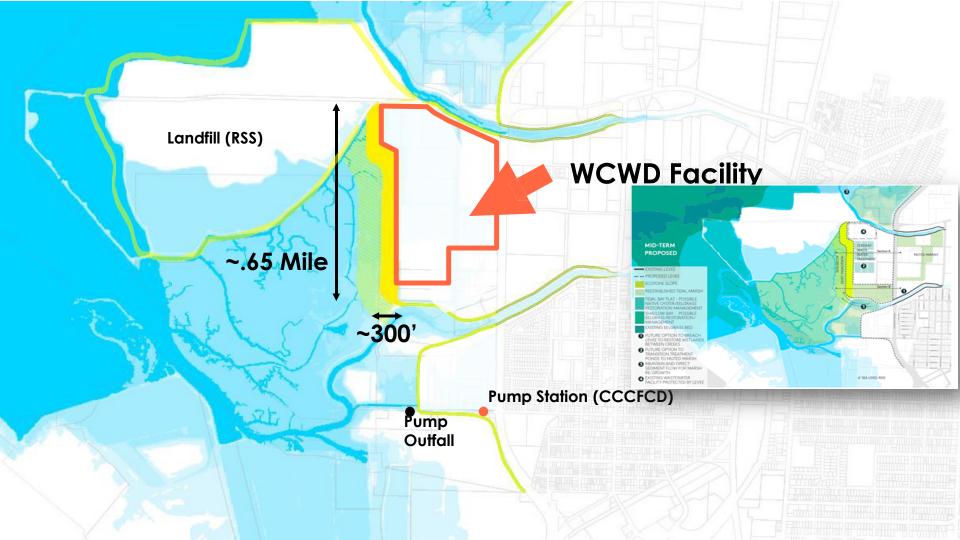
WCWD

Chevron

### Richmond Parkway (MTC)

### Neighborhood (CCCFCD)





### **SF Bay Restoration Authority Project Status**

LIL

#### Grant Executed

- Work Plan Submitted
- Request for Proposals
- In-kind Contributions from WCWD/Stakeholders
- Stakeholder Charter

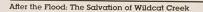
# **Community Participation in Shoreline & Watershed Planning**



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### WILDCAT-SAN PABLO CREEKS

#### WATERSHED COUNCIL



WILDCAT-BAN PABLO CREEKS

DESIGN TEAM - WATERSHED COUNCIL

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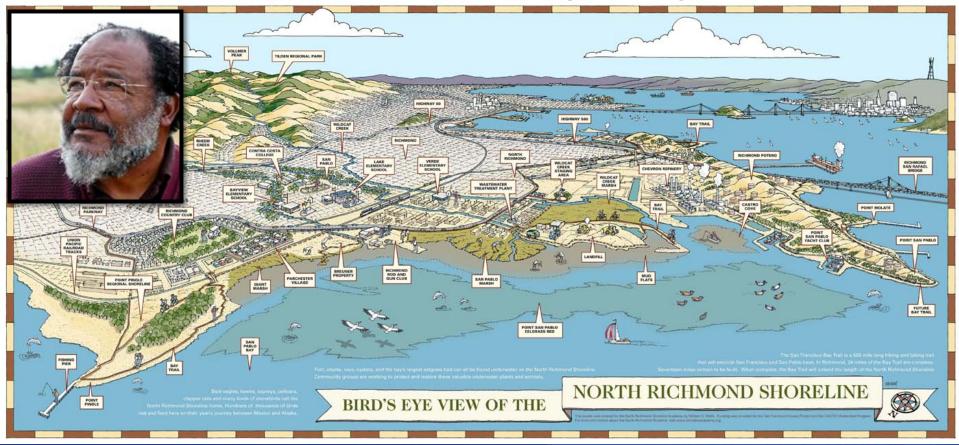


iv. These is all increase enough to particular the inner (1) food them. Forget roots suckers you don't the inner that is such that the inner that thei

orking together, the RNCC and a Urban Creeks. Coancil put gether an alternative proposal, se that provided for flood introl, a creekside trail, better ggineering, cleanup of the creek, d the restoration of marshes



### North Richmond Shoreline Open Space Alliance





### Regional Transition Zone Mapping & Community Adaptation Strategy Pilot Project, 2016-17

Phase 1: Develop upland transition zone mapping methodology

Phase 2: Apply methodology locally & partner with a vulnerable community to create a vision for sea level rise resiliency focusing on opportunities

### San Francisco Estuary Partnership: Climate Ready Estuaries

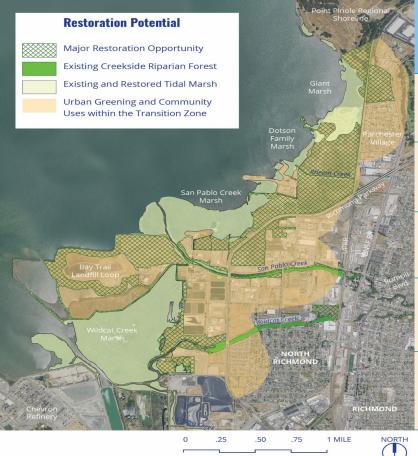


### **North Richmond Community Shoreline Vision Project**

- Community stakeholder meetings
- Informational interviews with public agencies, community-based organizations, and service providers
- 284 Resident Surveys



### San Francisco Estuary Partnership: Climate Ready Estuaries



#### North Richmond Shoreline Vision Strategies and Actions

Strategy #1: Protect and Conserve Open Space

Strategy #2: Improve & increase shoreline public access and understanding

Strategy #3: Dynamic shoreline uses with compatible community needs

Strategy #4: Restore & enhance a diversity of habitats and living resources

Strategy #5: Build capacity for equity, environment, and economic development among stakeholders

### San Francisco Estuary Partnership: Climate Ready Estuaries

#### **Near Term Opportunities**

As we adapt to sea level rise in the Transition Zone, there are a number of near-term implementable actions and specific projects outlined in the Vision that are already in various planning stages but have further project development needs (such as community input, funding, final design documents, permits) to advance to implementation.



oint Pinole

#### Horizontal levee and Interpretive Center at West County Wastewater District

Explore planning, design, and construction of nature-based shoreline infrastructure, and an associated Environmental Center supporting environmental education and public outreach programs. The effort is looking at placing a horizontal levee at Wildcat Marsh, adjacent to the Bay Trail in particeship with the District and SEET.

#### 2 Interpretive Center at Point Pinole Regional Shoreline

Engage the public through a new 9,000 sf visitor center that will serve as the primary point of contact for park visitors, with interpretive and educational functions, community facilities, and a regional recreational resource center for the Park District. Site developments include multiple interpretative gathering areas, an amphitheater, trail links, bus drop off, and parking.

#### Bay Trail Gap closures and Richmond Parkway Overpass on Wildcat Creek Trail

Improve access through closing 2.1 miles of Bay Trail gaps on the northern shoreline including: Parkway/Wildcat Marsh Trail on south side of San Pablo Creek; Parkway/ Goodrick Avenue; Goodrick Avenue; and Atlas Road/Richmond border.

#### 4 Giant Marsh Living Shorelines

Enhance living resources, including the multi-habitat San Francisco Bay Living Shorelines Project (LSP). The project integrates subtidal habitat restoration of native oyster and native eelgrass beds with designs that test the use of natural structures to buffer and protect adjacent tidal wetland sites, as well as areas of the San Francisco Bay shoreline that are vulnerable to sea level rise and shoreline erosion.

#### Develop and construct renewable energy pilot projects

Generate renewable energy, through a special district that is exploring producing renewable energy in the area. Goals of the project are for the special district to become more carbon neutral and test out a new method of green energy production. The pilot project would use green waste from the area to produce renewable energy at the Green Waste Recycle Yard.

#### 6 Wildcat Creek Fish Ladder Improvements

Realign portions of the environmental lowflow channel of Wildcat Creek (downstream of Verde Elementary School), improve function of the sediment basin, and replace dysfunctional fish ladder immediately upstream of sediment basin.

#### Fred Jackson First Mile, Last Mile Green Street / Watershed Connections Project

Provide urban greening through the North Richmond Watershed Connection, which will serve to create a healthy, walkable, green connection between the San Pablo and Wildcat Creeks in North Richmond. The project will implement coordinated urban greening elements on streets, parks, creek trails, and an urban farm to enhance the health of the creeks and watershed while improving the community's access to their environment.

#### 8 Rheem Creek Realignment though Dotson Family Marsh

Realign and restore about 1/2 mile of Rheem Creek, and connect it with restored Dotson Family marsh to create improved aquatic habitat through the marsh.

#### PROJECT SITES





# **Resilient by Design**

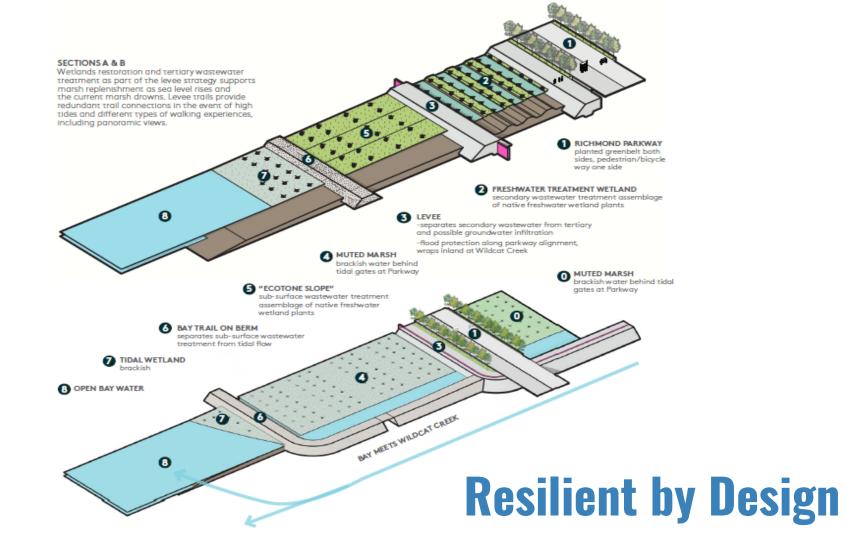
Goal: connect international expertise with local communities to inspire innovative designs and collaboration

#### Process (2017-2018):

- Public call for vulnerable sites
- Design Team selection
- Collaborative Research Phase
- Assign Teams to sites
- Collaborative Design Phase
- Final Designs



**Resilient by Design** 

















- Meets monthly since September 2019.
  - Reach shared understanding of desired benefits, alignment, and extent of potential horizontal levee system.
- Position Horizontal Levee Conceptual Design for external funding opportunities.
  - Provide information, support, and guidance to WCW Project Management Team throughout conceptual design process

### North Richmond Horizontal Levee Stakeholder Group

# THANKS!

### Any questions?

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