



Department of
Toxic Substances
Control



CalEPA
California Environmental
Protection Agency

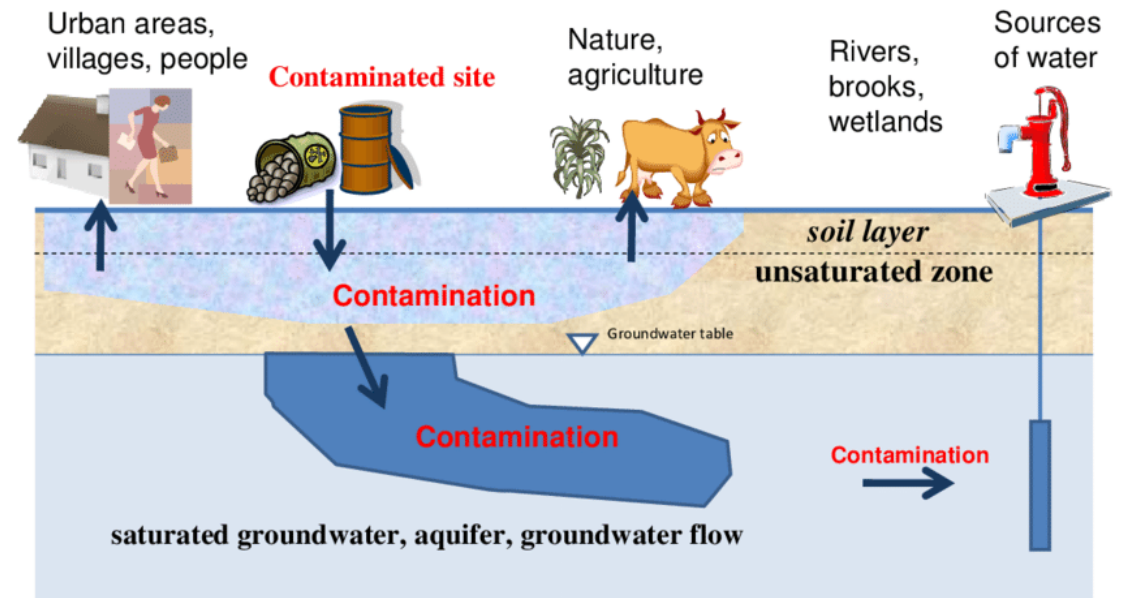
West Oakland Environmental Indicators Project - Shoreline Toxins and Water Quality Session

OCTOBER 23, 2021



Agenda

1. Warm Up
2. DTSC and cleanup overview
3. Example
4. EnviroStor
5. CalEnviroScreen, Tribal consultation, sea level rise



Source: https://www.researchgate.net/figure/Simplified-conceptual-model-for-spreading-of-contaminants-in-the-environment_fig4_292971859

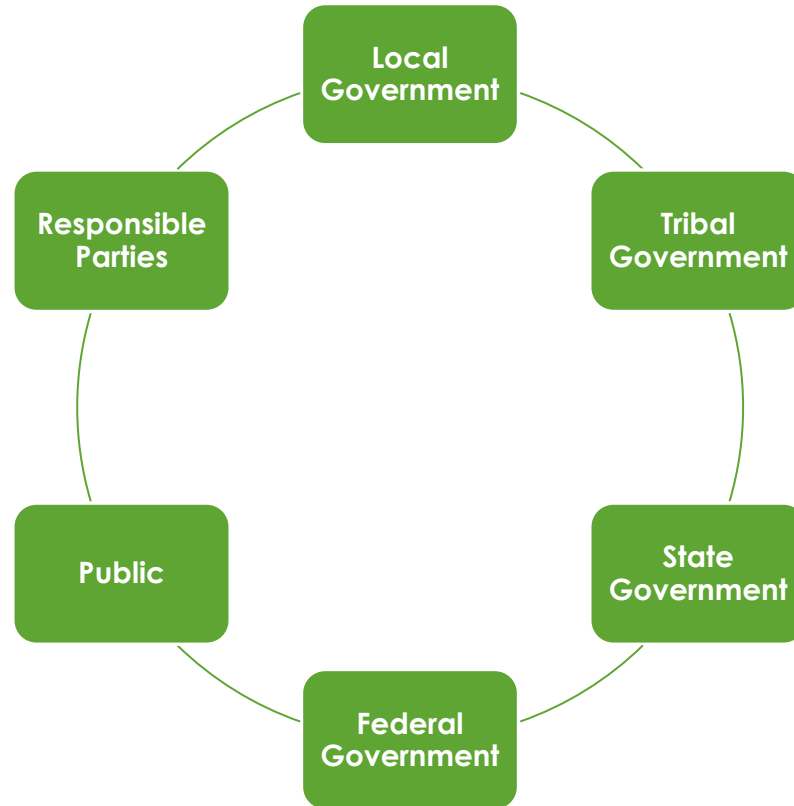
DTSC Warm Up (5 mins)

- What do you know about DTSC?
- Have you worked with DTSC?
- Do you know any nearby cleanup sites?
- How can the community get involved in cleanup?

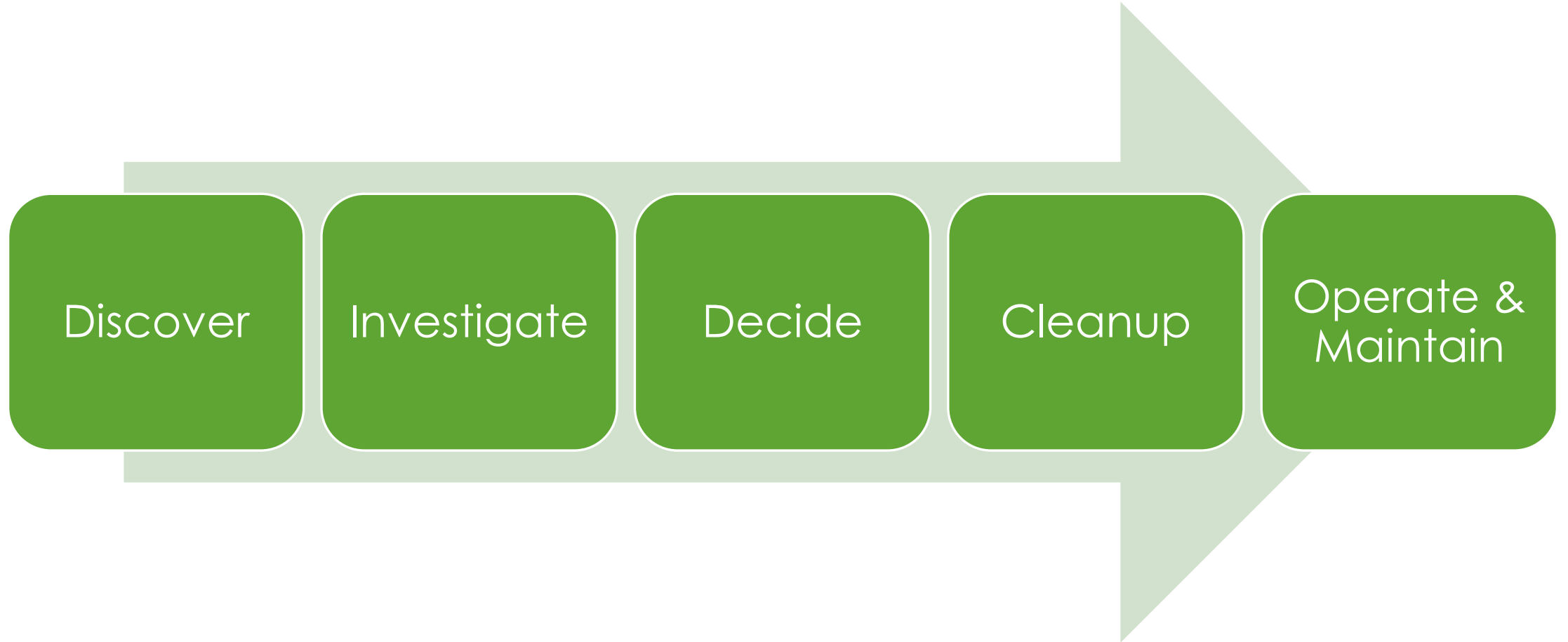
DTSC Site Mitigation & Restoration Program (10 mins)

- DTSC jurisdiction = hazardous substances and hazardous wastes.
- DTSC programs = safe products, permits, enforcement, & **cleanup**.
- **Cleanup** is needed when toxics end up in soil, water, air, or organisms above an “acceptable” concentration.
- **Cleanup** program sites are usually discovered after sampling, or public complaints, or permit closures, or real estate transactions.
- **Cleanup** program sites follow specific requirements to ensure consistency.

Everyone can be involved in cleanup projects.



The public can participate during all steps in cleanup.



DTSC makes cleanup decisions based on the “Nine Criteria.”

Options must meet these:	1. Overall protection of human health and the environment
	2. Compliance applicable or relevant & appropriate standards
Options are then be compared with these:	3. Long-term effectiveness and permanence
	4. Reduction of toxicity, mobility or volume
	5. Short-term effectiveness
	6. Implementability
Options are then informed using these:	7. Cost
	8. State acceptance
	9. Community acceptance ←



DTSC uses EnviroStor as its public database for each project.

envirostor.dtsc.ca.gov

The screenshot shows the EnviroStor website interface. At the top, there is a navigation bar with links for Home, Tools, Reports, Community Involvement, How to Use EnviroStor, ESI, and DTSC Web. A search bar contains the text 'zeneca'. Below the search bar, a dropdown menu displays search results under the heading 'Sites / Facilities'. The results are as follows:

Site Name	Address	Site Type	Status
STAUFFER CHEMICAL, CARSON (19280083)	2112 EAST 223RD STREET, CARSON, CA 90745	State Response or NPL	Active
ZENECA RICHMOND AG PRODUCTS (07280002)	1415 SOUTH 47TH STREET, RICHMOND, CA 94804	State Response or NPL	Active
ZENECA/CASTROL TRIBOL (19290309)	4801,4845 WEST 147TH STREET, HAWTHORNE, CA 90250	Voluntary Cleanup	No Further Action

A red arrow points to the 'ZENECA RICHMOND AG PRODUCTS' entry. Below the search results, there is a text box that reads: 'EnviroStor is the cleanup, permit known contamin To search for specific cleanup sites or hazardous waste facilities, use the [Site / Facility Search](#) tool. Need

EnviroStor has different tabs.

ZENECA RICHMOND AG PRODUCTS (07280002) [SIGN UP FOR EMAIL ALERTS](#)

1415 SOUTH 47TH STREET
RICHMOND, CA 94804
CONTRA COSTA COUNTY
[SITE TYPE](#); STATE RESPONSE OR NPL

PROJECT MANAGER: [IAN UTZ](#)
SUPERVISOR: [JULIE PETTIJOHN](#)
OFFICE: CLEANUP BERKELEY
PUBLIC PARTICIPATION SPECIALIST: [ALEJANDRO VIVAS](#)
PRESS CONTACT: [RUSS EDMONDSON](#)
CENSUS TRACT: 6013380000
CALENVIROSCREEN PERCENTILE SCORE: 81-85%

[Summary](#) | [Land Use Restrictions](#) | [Activities](#) | [Community Involvement](#) | [Site/Facility Docs](#) | [Sub-Areas](#) | [Map](#) | [Related Sites](#)
[CalEnviroScreen](#)

Site Information

CLEANUP STATUS
ACTIVE AS OF 11/6/2004

SITE TYPE; STATE RESPONSE OR NPL
NATIONAL PRIORITIES LIST; NO
ACRES; 86 ACRES
ALPN: 560-050-007, 560-050-016, 560-050-020, 560-050-021, 560-050-022, 560010046, 560010047, 560022019, 560023026, 560026002, 560027005, 560028007, 560050007, 560050008, 560050019, 560050021, 560050022, 560050023
CLEANUP OVERSIGHT AGENCIES:
DTSO - SITE CLEANUP PROGRAM - LEAD AGENCY

ENVIROSTOR ID :	07280002
SITE CODE :	201567, 201621, 201622, 201623, 201624, 202286, 202377, 201955
SPECIAL PROGRAM :	
FUNDING :	RESPONSIBLE PARTY
ASSEMBLY DISTRICT :	15
SENATE DISTRICT :	09

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, ILLEGAL DUMPING, MANUFACTURING - CHEMICALS, MANUFACTURING - PESTICIDES, RESEARCH - WEAPONS, WASTE - INDUSTRIAL TREATMENT FACILITY, WASTE WATER PONDS

POTENTIAL CONTAMINANTS OF CONCERN	POTENTIAL MEDIA AFFECTED
METALS	OTHER GROUNDWATER AFFECTED (USES OTHER THAN DRINKING WATER), SEDIMENTS, SOIL, SOIL VAPOR
ORGANOCHLORINE PESTICIDES (8081 OCPS)	
OTHER	
POLYCHLORINATED BIPHENYLS (PCBS)	
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)	
SULFURIC ACID	
VOLATILE ORGANICS (8260B VOCs)	

Site History

The Site is located south of Interstate 580, east of the University of California Berkeley Richmond Field Station (AKA Berkeley Global Campus at Richmond Bay) and along the San Francisco Bay shoreline. Historically, this site was divided into three main areas: the manufacturing plant area, the Western Research Center and the unimproved open space area. Stauffer Chemical Co., and later Zeneca Inc. manufactured sulfuric acid and pesticides at the site from the late 1800's until the late 1990's. Cherokee Simeon Ventures (CSV) purchased the 86 acre site from Zeneca Inc. in 2002 to develop the property. The property is divided into 6 areas, now known as Lots 1, 2, 3, East Stege Marsh (also referred to as the "marsh", habitat enhancement area 1 or Habitat Area 1), Habitat Enhancement Area 2 (or Habitat Area 2) and the Southeast Parcel. Lot 1 was developed into commercial space and is now known as the

1. Summary
2. Land Use Restrictions
3. Activities
4. Community Involvement
5. Site/Facility Docs
6. Sub-Areas
7. Map
8. Related Sites
9. CalEnviroScreen

The map tab links to a map of DTSC cleanup program sites.

ZENECA RICHMOND AG PRODUCTS (07280002) [SIGN UP FOR EMAIL ALERTS](#)



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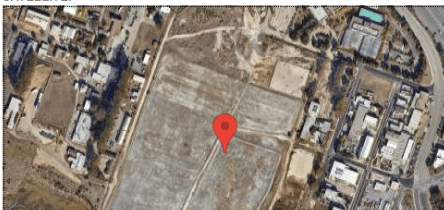

PROJECT MANAGER: IAN UTZ
SUPERVISOR: JULIE PETTI
OFFICE: CLEANUP BERKELEY

PUBLIC PARTICIPATION SPECIALIST: ALEJANDRO
PRESS CONTACT: RUSS EDMC
CENSUS TRACT: 6013380000
CALINFO SCREEN PERCENTILE SCORE: 81-85%

[Summary](#) [Land Use Restrictions](#) [Activities](#) [Community Involvement](#) [Site/Facility Docs](#) [Sub-Areas](#) [Map](#) [Related Sites](#) [CalEnviroScreen](#)

FOR AN INTERACTIVE MAP, CLICK ON AN IMAGE BELOW

OVERVIEW:  MAP VIEW: 

SATELLITE:  TERRAIN: 

ENVIROSTOR Enter an address [Map Address](#) [Map](#) [Satellite](#)

Sites and Facilities

- Cleanup Sites
 - Federal Superfund
 - State Response
 - Voluntary Cleanup
 - School Cleanup
 - Evaluation
 - School Investigation
 - Military Evaluation
 - Tiered Permit
 - Corrective Action
 - Historical
 - Field Points
- Permitted Sites
 - Operating
 - Post-Closure
 - Non-Operating
- Other Sites
 - GeoTracker LUST Cleanup
 - GeoTracker Cleanup Program
 - GeoTracker Military Cleanup
 - GeoTracker Field Points
 - Public Water Wells
 - Parcel Outlines
 - LUR Outlines (BETA)
- GIS Layers
 - CalEnviroScreen Layer
 - Assembly Districts
 - Congressional Districts
 - Senate Districts
 - Counties

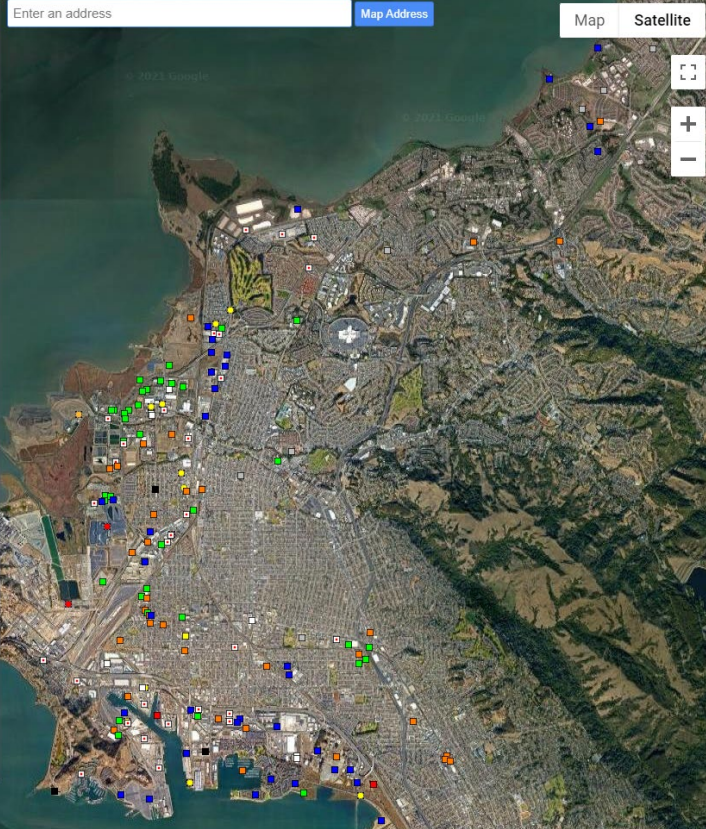
Tools

- Measure a Distance

Site Quick Search

Right-click or perform a long left-click on the map to access additional location specific tools

[TAKE A TOUR](#) [SHARE THIS MAP](#)



The community involvement tab links to a list of public notices.

ZENECA RICHMOND AG PRODUCTS (07280002) SIGN UP FOR EMAIL ALERTS

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CONTRA COSTA COUNTY
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PUBLIC PARTICIPATION SPECIALIST: ALEJANDRO VIVAS
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CENSUS TRACT: 6013300000
CALENVIROSCREEN PERCENTILE SCORE: 81-85%

Summary | Land Use Restrictions | Activities | **Community Involvement** | Site/Facility Docs | Sub-Areas | Map | Related Sites
CalEnviroScreen

Community Involvement Documents

DRAFT DOCUMENTS FOR REVIEW		HIDE DOCUMENTS = 1 YEAR OLD		
OU NAME	AREA	TITLE/DESCRIPTION	DOCUMENT TYPE	DOCUMENT DATE
PROJECT WIDE		Draft for Public Comment Feasibility Study & Remedial Action Plan for Lot 1, Lot 2 and Uplands Portion of Lot 3	Remedial Action Plan	7/9/2018
PROJECT WIDE		Lot 1, Lot 2 and Uplands Portion of Lot 3 Draft Negative Declaration	CEQA	7/5/2018
PROJECT WIDE		Lot 1, Lot 2 and Uplands Portion of Lot 3 Initial Study	CEQA	7/5/2018
Habitat Enhancement Area 2 (formerly known as fresh water lagoons)		Initial Study, Revision Letter	CEQA	8/24/2016
Habitat Enhancement Area 2 (formerly known as fresh water lagoons)		Draft Initial Study for FS/RAP for Lots 1, 2, 3 and FS/RAP for Habitat Area 2	CEQA	8/10/2016
Habitat Enhancement Area 2 (formerly known as fresh water lagoons)		Public Draft FS/RAP for HA-2	Remedial Action Plan	8/10/2016
PROJECT WIDE		Draft Negative Declaration - Lot 1 PCB/VOC Area Removal Action Workplan	CEQA	11/1/2007
PROJECT WIDE		Initial Study - Lot 1 PCB/VOC Area Removal Action Workplan	CEQA	11/1/2007
PROJECT WIDE		Draft Final Lot 1 PCB/VOC Removal Action Workplan	Removal Action Workplan	10/23/2007

FACT SHEETS		HIDE DOCUMENTS = 1 YEAR OLD		
OU NAME	AREA	TITLE/DESCRIPTION	DOCUMENT TYPE	DOCUMENT DATE
PROJECT WIDE		Draft FS/RAP Lot 1, Lot 2 and Uplands Portion of Lot 3 Comment Period Extension	Fact Sheet	8/8/2018
PROJECT WIDE		Community Update for Lots 1, 2 and Uplands Portion of Lot 3 FS/RAP	Fact Sheet	7/5/2018
Habitat Enhancement Area 2 (formerly known as fresh water lagoons)		Community Update for HA-2 FS/RAP	Fact Sheet	8/10/2016
Lot 3		Lot 3 Soil Gas Sampling Work Notice	Fact Sheet	12/24/2008
PROJECT WIDE		Human Health Risk Assessment Fact Sheet	Fact Sheet	10/2/2008
Lot 1		Lot 1 and 2 Remedial Investigation Fact Sheet	Fact Sheet	2/22/2008
Lot 2		Lot 3 and 2 Remedial Investigation Fact Sheet	Fact Sheet	2/22/2008
Lot 1 PCB/VOC Area		Lot 1 PCB/VOC Area Removal Action Workplan	Fact Sheet	10/31/2007
Habitat Enhancement Area 1 (formerly known as East Stege Marsh)		Zeneca/Former Stauffer Chemical Proposed Cleanup Plan Available for Review	Fact Sheet	10/10/2005
PROJECT WIDE		Fact Sheet	Fact Sheet	6/1/2005
PROJECT WIDE		Fact Sheet	Fact Sheet	2/1/2005
PROJECT WIDE		Zeneca Project History	Fact Sheet	1/1/2005

DTSC WORK NOTICE

August 2021

Department of Toxic Substances Control – Our mission is to protect the people, communities, and environment of California from harmful chemicals by cleaning up contaminated sites, enforcing hazardous waste laws, and compelling the development of safer products.

SOIL EXCAVATION WORK AT ZENECA RICHMOND AG PRODUCTS SITE

September to October 2021

WHAT IS HAPPENING?

The California Department of Toxic Substances Control (DTSC) is providing this work notice to inform the community about upcoming soil excavation work at the Zeneca Richmond Ag Products/Campus Bay cleanup site at 1415 South 47th Street in Richmond, California (site). Excavations will total less than one acre in area, and approximately 3,425 bank cubic yards in volume.

In late August 2021, preparation work will consist of non-intrusive activities, including marking and scanning the site surface to identify subsurface utilities, surveying the excavation boundaries, conducting a pre-construction biological survey, and conducting background air monitoring.

In September 2021, intrusive cleanup activities will include heavy equipment use associated with temporarily removing the utility poles, removing vegetation, and conducting excavations and backfill. This work is expected to start on September 7 and continue through October 2021.

Excavation will be limited to the Lot 3 Subarea. Excavation will NOT extend into South 49th Street, northwest into the treated cinder area, or to the south into the habitat areas. Excavation will not extend to groundwater, native soil, or deeper than 10 feet below the ground surface.

WHY IS THIS HAPPENING?

DTSC, after significant public involvement, approved this work in 2019 and 2020. This focused soil excavation work is one component of the selected remedy being used to clean up the greater Zeneca site. The purpose of this work is to remove soils contaminated with hazardous substances (e.g., arsenic, lead, and polycyclic aromatic hydrocarbons) at the Lot 3 Subarea.

HOW LONG WILL THIS TAKE?

Excavation will take approximately one month. However, additional time may be necessary to off-haul soils. Work will occur between 7:00 AM and 7:00 PM on weekdays, or 9:00 AM to 8:00 PM on weekends and holidays. Work will generally include:

- Removing soil with an excavator;
- Sampling excavation pit bottoms and sidewalls to confirm cleanup goals are met;
- Backfilling excavation pits with clean fill;
- Loading and off-site transportation of the excavated soil to an appropriate landfill; and
- Monitoring of air at the site perimeter to demonstrate protection of the community.

Department of Toxic Substances Control

Work areas will be monitored by contractor personnel. Air quality control measures will include, but are not limited to, spraying water and binding agents, as necessary, to reduce dust emissions; covering stockpiles with plastic sheeting; and stopping work when sustained wind speeds exceed 15 miles per hour (mph). Vehicles will maintain site speeds of less than 10 mph.

CAN I FIND ADDITIONAL INFORMATION?

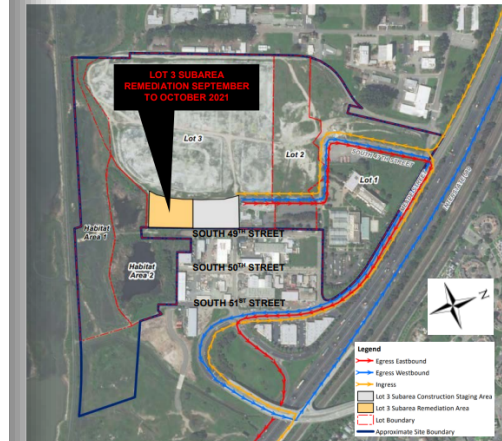
For more records about the site at the following website:

www.envirostor.dtsc.ca.gov/public/profile_report?global_id=07280002

Soil excavation work is discussed in greater detail in the following report:

www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=07280002&doc_id=6016670

If you have any questions, please contact Ian Utz/Project Manager (ian.utz@dtsc.ca.gov) and 510-709-7000 or Alejandro Vivas/Public Participation Specialist (alejandro.vivas@dtsc.ca.gov).



Hearing impaired individuals may use the California Relay Service at 711 or 800-735-2929 TTY/VCO/HCO to voice.



Additional information on DTSC sites can be found through our **EnviroStor**. (rev. 5-2020)

DTSC Cleanup Project Example: Zeneca, Richmond (15 mins)



- ✓ Community Advisory Group
- ✓ Public Participation Plan
- ✓ Public Comment Periods
- ✓ Public Meetings
- ✓ Public Notices
- ✓ Community Updates
- ✓ Work Notices
- ✓ Public Participation Specialist
- ✓ Public Record Requests
- ✓ EnviroStor Database
- ✓ Tribal Affairs Coordinator

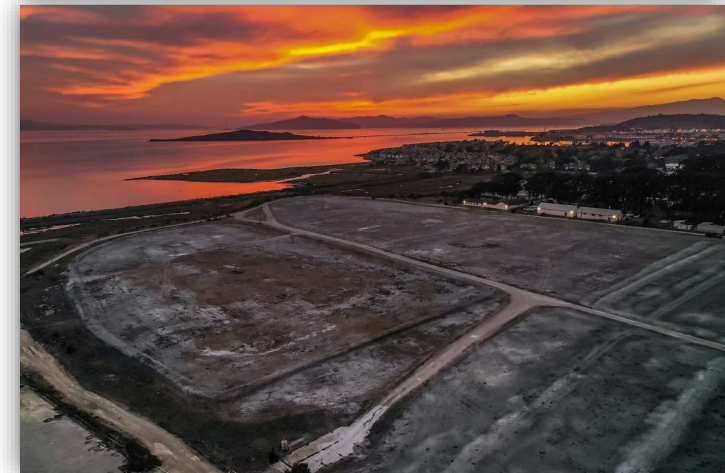


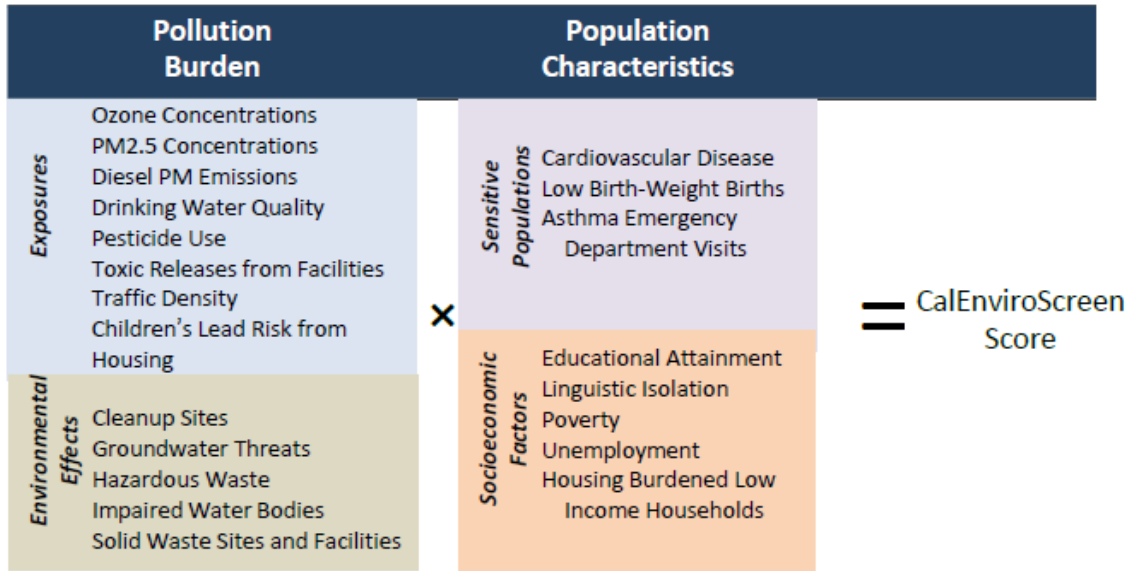
Image Sources: San Francisco Chronicle; East Bay Times

Demonstration of EnviroStor?

<https://www.envirostor.dtsc.ca.gov/public/>

CalEnviroScreen helps DTSC prioritize sites and communicate with public.

Figure 1. CalEnviroScreen 4.0 Indicator and Component Scoring



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RICHMOND, CA 94804
CONTRA COSTA COUNTY
SITE TYPE: STATE RESPONSE OR NPL

PROJECT MANAGER: IAN UTZ
SUPERVISOR: JULIE PETTJOHN
OFFICE: CLEANUP BERKELEY

PUBLIC PARTICIPATION SPECIALIST: ALEJANDRO VIVAS
PRESS CONTACT: RUSS EDMONDSON
CENSUS TRACT: 6013380000
CALENVIROSCREEN PERCENTILE SCORE: 81-85%

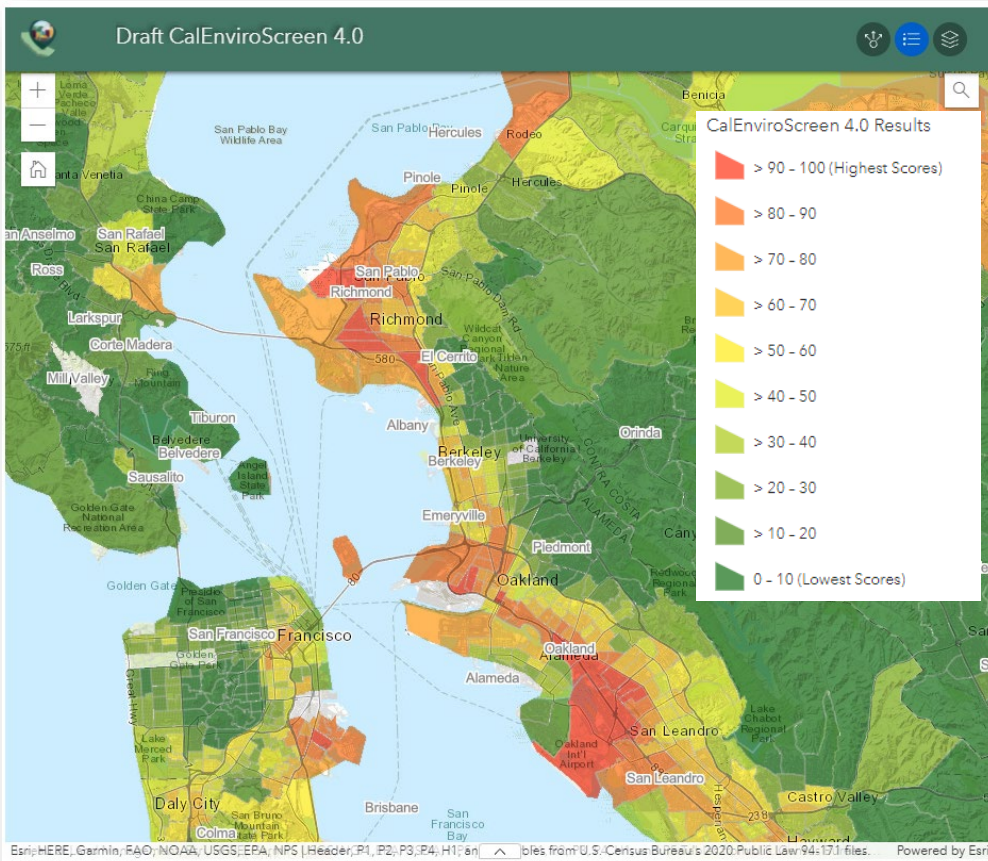
Summary | Land Use Restrictions | Activities | Community Involvement | Site/Facility Docs | Sub-Areas | Map | Related Sites

CalEnviroScreen

CalEnviroScreen 3.0
CalEnviroScreen data is provided by the Office of Environmental Health Hazard Assessment (OEHHA). To learn more about CalEnviroScreen please go to www.oehha.ca.gov.

CalEnviroScreen Score		Population Characteristics	
Census Tract:	6013380000	Sensitive Population Indicators	Percentile
Population:	5706	Asthma:	99%
CalEnviroScreen Percentile Score:	81-85%	Low Birth Weight:	87%
Pollution Burden Percentile:	80%	Cardiovascular Rate:	84%
Population Characteristics Percentile:	78%	Socioeconomic Factor Indicators	Percentile
Pollution Burden	Percentile	Education:	42%
Exposure Indicators	Percentile	Linguistic Isolation:	58%
Air Quality - Ozone:	8%	Poverty:	53%
Air Quality - PM 2.5:	31%	Unemployment:	44%
Diesel Particulate Matter:	95%	Housing Burden:	35%
Pesticide Use:	0%		
Toxic Releases:	59%		
Traffic Density:	71%		
Drinking Water Contaminants:	4%		
Environmental Effects Indicators	Percentile		
Cleanups Sites:	100%		

CalEnviroScreen helps DTSC prioritize sites and communicate with public.



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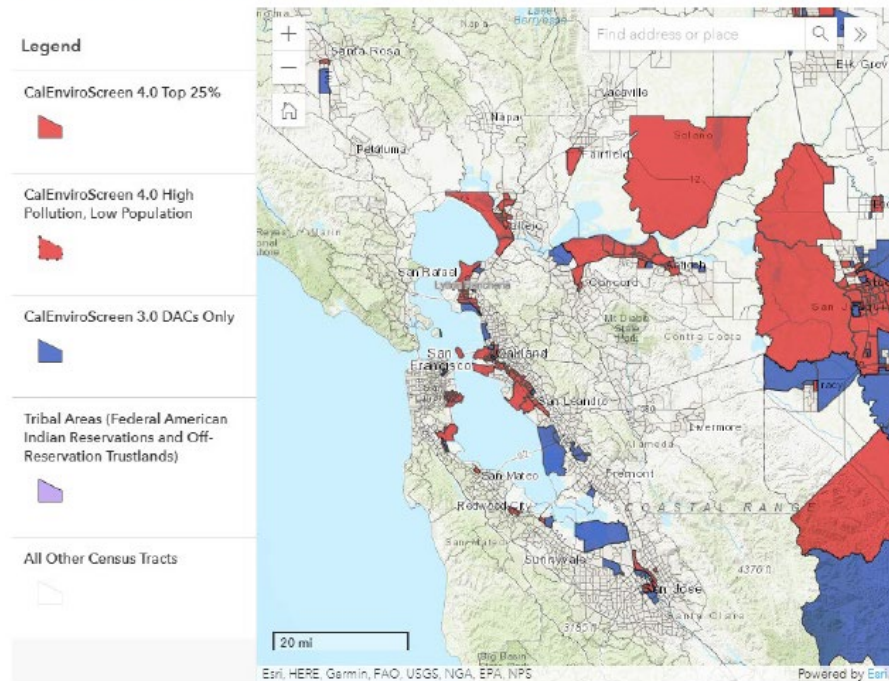
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Cleanups Sites:	100%		

CalEnviroScreen helps DTSC prioritize sites and communicate with public.

An interactive map of the proposed disadvantaged communities is available at <https://arcg.is/P4LPG0>

Figure 4. Map of the proposed disadvantaged communities in the San Francisco Bay Area region



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[CalEnviroScreen](#)

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Drinking Water Contaminants:	4%		
Environmental Effects Indicators	Percentile		
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Tribal consultation policy applies to cleanup program projects.

Department of Toxic Substances Control Policy

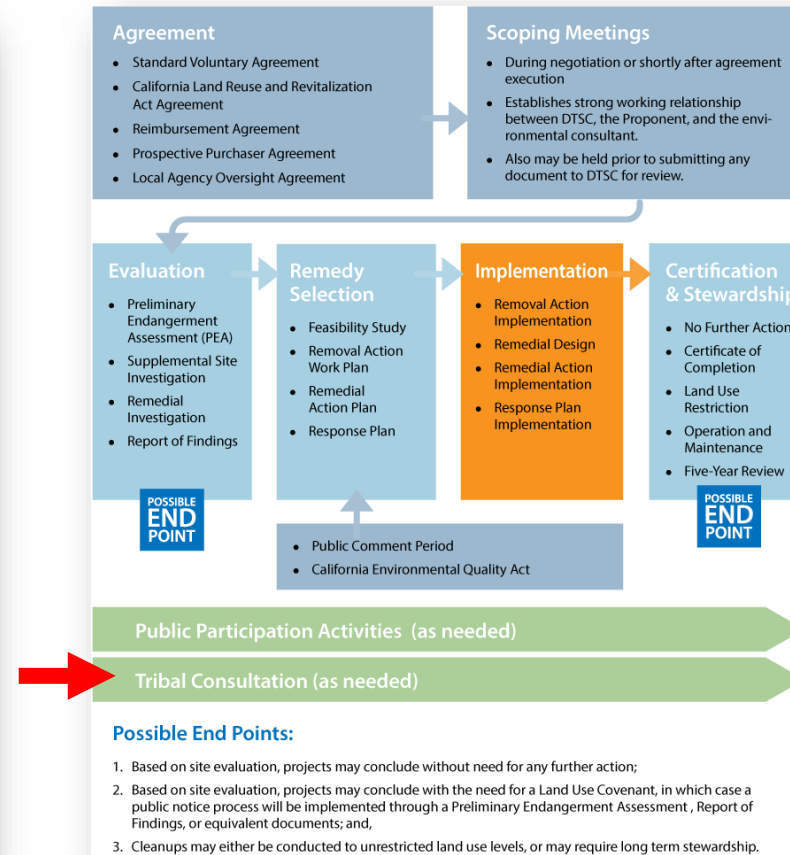
<i>POLICY TITLE</i>	<i>SUPERCEDES</i>	<i>POLICY NUMBER</i>
Tribal Consultation Policy	None	DTSC-20-038
<i>POLICY OWNER</i>	<i>EFFECTIVE DATE</i>	<i>PAGE</i>
Office of Environmental Equity, Tribal Affairs Program	March 6, 2020	1 OF 11
<i>DISTRIBUTE TO</i>	<i>APPROVED BY</i>	
All Staff	(Original signed by Francesca Negri, Chief Deputy Director)	
<i>ISSUE DATE</i>	Meredith Williams, Director	
March 6, 2020		

POLICY STATEMENT The Department of Toxic Substances Control (DTSC) seeks to foster effective communication and consultation between DTSC and California Native American Tribes. This policy memorializes DTSC's commitment to strengthening and sustaining government-to-government relationships between the State and California Native American Tribes.

PURPOSE This policy establishes guiding principles to consult with California Native American Tribes in a government-to-government relationship. DTSC will continually seek meaningful engagement and consultation with tribes through recognizing each tribe's individual cultural beliefs, traditions, stewardship, sovereign status, and significant connections to ancestral lands throughout California.

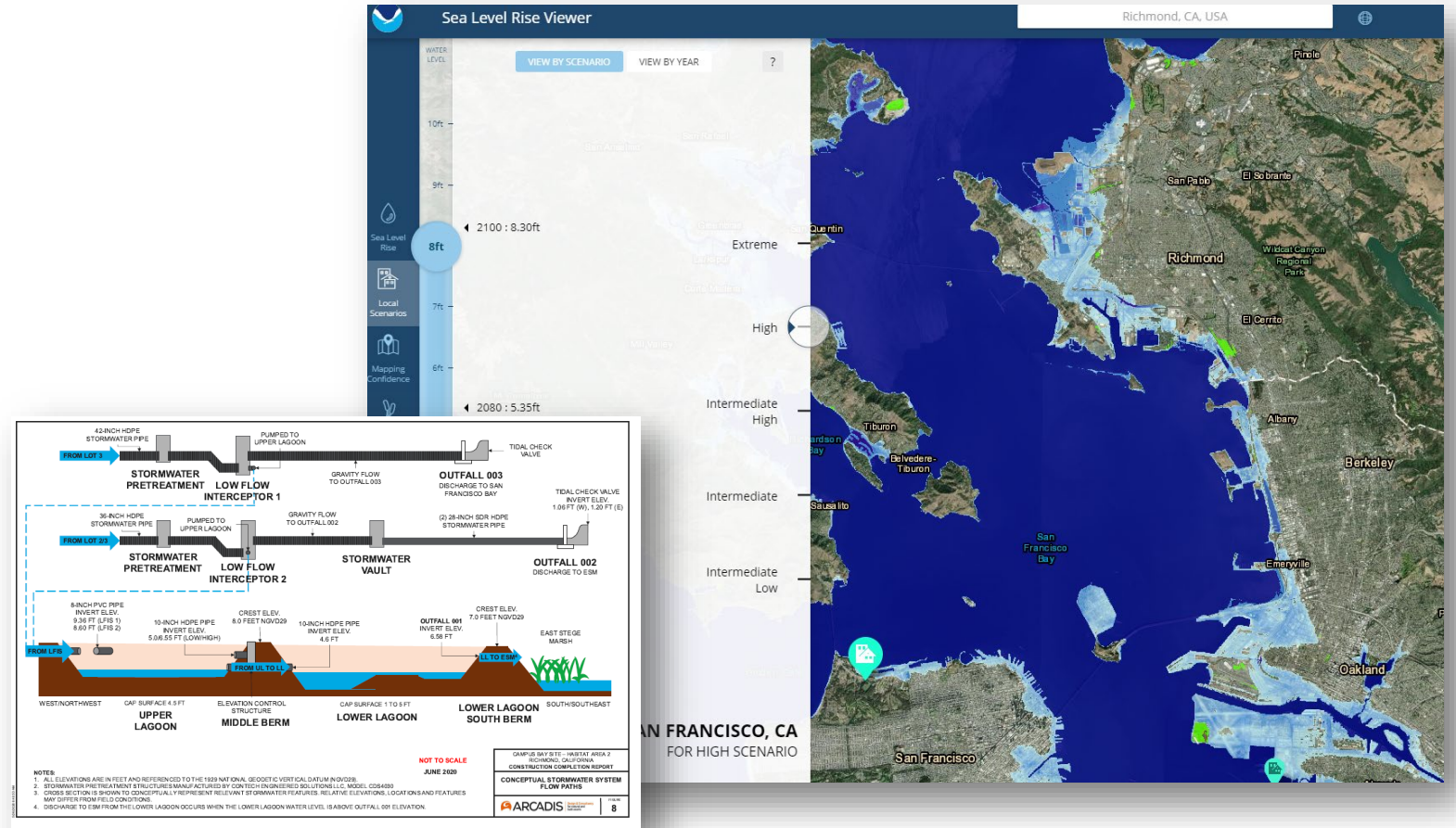
The fundamental goal of this policy is to engage tribes in a timely and interactive process by respectfully seeking, discussing, and considering tribal perspectives and expertise on matters within the purview of DTSC's activities.

Through this process, DTSC hopes to meaningfully incorporate tribes in the development of policies, rules,



Sea level rise is expected to impact some DTSC projects.

- DTSC relies on outside experts for sea level rise predictions.
- DTSC cleanup decisions and designs and operations recognize sea level rise where applicable.
- DTSC continues to monitor for changes in best available science, from OPC, NOAA, BCDC, and others.



DTSC hosts quarterly public forums at dtsc.ca.gov/publicforums

2021 Quarterly Public Forums

Upcoming: November 17, 2021 at 5:30pm

More information regarding the November Quarterly Public Forum is forthcoming.

August 31, 2021 Meeting

View the Meeting

[View the video from our YouTube site.](#)

Meeting Materials

- [Presentation](#)
- [Presentación - Español - Trituradoras de Metal](#)
- [Presentación - Español - Subvenciones equitativas para la revitalización de la comunidad](#)

May 19, 2021 Meeting

View the Meeting

[View the video from our YouTube site.](#)

Get Involved Links

- [Get Involved Home](#)
- [DTSC Calendar](#)
- [DTSC E-Lists](#)
- [DTSC Laws & Regulations](#)
- [Environmental Justice](#)
- [Office of Civil Rights](#)
- [Office of Environmental Equity](#)
- [Public Meetings](#)
- [Public Notices](#)
- [Public Participation](#)
- [Tribal Affairs](#)

Public Meetings E-List

- [Sign up for DTSC's Quarterly Public Meetings E-List](#)

Get Involved Related Links

- [Civil Rights and Language Access Policies](#)
- [Public Participation Policies & Procedures](#)

Regulatory questions?

DTSC's Regulatory Assistance Officers are here to help.

+1 800-728-6942 in CA

+1 916-324-2439 outside CA

RAO@dtsc.ca.gov

Toxics complaints?

DTSC's Regulatory Assistance Officers are here to help.

+1 (800) 698-6942

RAO@dtsc.ca.gov

<https://calepacomplaints.secure.force.com/complaints/>

Parting Thoughts?

- How might the public be better involved in cleanups?
- What is your vision for cleanup projects in the Bay Area?

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