Delhi Groundwater Community Outreach Meeting

Wednesday, March 29, 2023, 6:00 p.m.

Delhi Center – 505 E Central Avenue





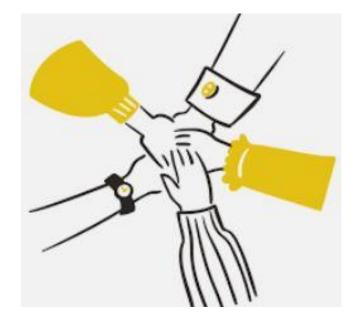






Ground Rules

- Start and end on time
- Silence mobile phone
- Participate fully and share your insights
- Listen to what others have to share
- Do not interrupt the speaker



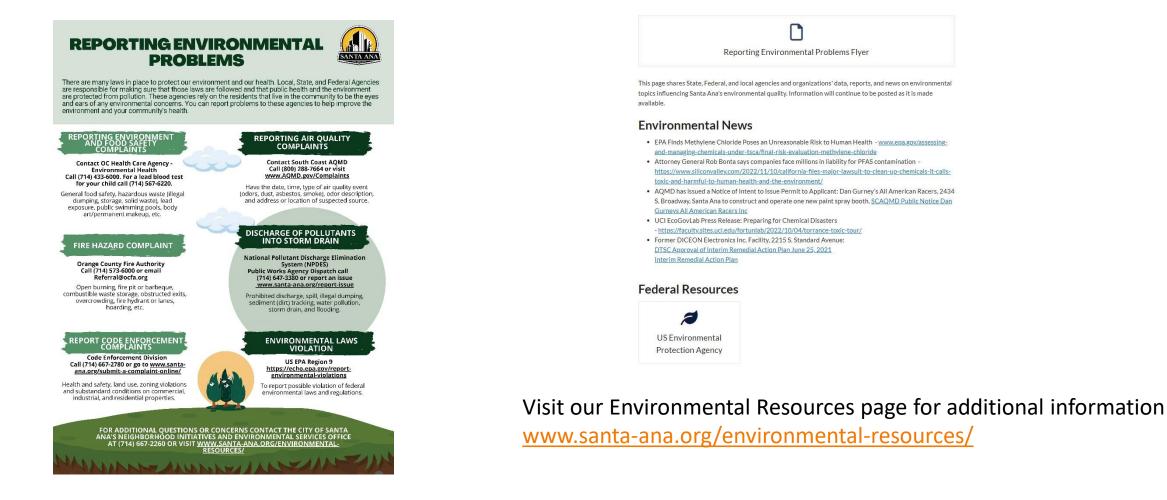
Moderator will redirect the conversation to keep focused on the meeting agenda

Agenda

- 1. Welcome, Introductions, and Ground Rules
- 2. Moderation By Amanda M. Bettinelli, Assistant U.S. Attorney
- **3. City of Santa Ana Neighborhood Initiatives and Environmental Services** Reporting Environmental Concerns
- 4. City of Santa Ana Public Works Agency Water Resources Division Clean and Safe Drinking Water
- 5. Orange County Water District Groundwater Quality Protection Project Update
- 6. Department of Toxic Substances Control Status Update on Industrial Sites within South Region Basin
- 7. Questions & Answers

Reporting Environmental Concerns

You can report Environmental Concerns to these agencies to help improve the environment and your community's health.



Environmental Resources

Gathering Information to Report Environmental Problems When it is Safe to Do So

Tips for Your Report

- Provide as much detail as possible, including the time and date of the problem, specific location, and any other details that could help an investigation.
- Give your name and contact information for follow up.
- If calling, ask for name and direct contact of person you are speaking to. Ask for details on follow up and if they can provide a complaint or record number. Note the date and time of the call.
- If using an online complaint form, note the complaint number and keep confirmation emails.
- If you are reporting again after not having the concern addressed, mention that to the representative and ask to speak to a supervisor.
- Ask to report in the language you are most comfortable using.
- Submit and keep copies of pictures taken to document the problem.

Source: <u>http://www.publichealth.lacounty.gov/eh/about/how-why-report-problems.htm</u>

Contact Information for Amanda M. Bettinelli



Assistant United States Attorney | Environmental Crimes and Community Safety Section Environmental Justice Coordinator United States Attorney's Office | Central District of California Telephone 213.894.0470 | Work Cell 213.393.5272 <u>amanda.bettinelli@usdoj.gov</u>



SERVING OUR COMMUNITY: Clean Water, Safe Water



CITY OF SANTA ANA

Public Works Agency Water Resources Division

WHAT WE DO FOR YOU



Deliver award-winning drinking water to your home or business



Respond to water and sewer emergencies



Continually monitor and protect our water sources and distribution system

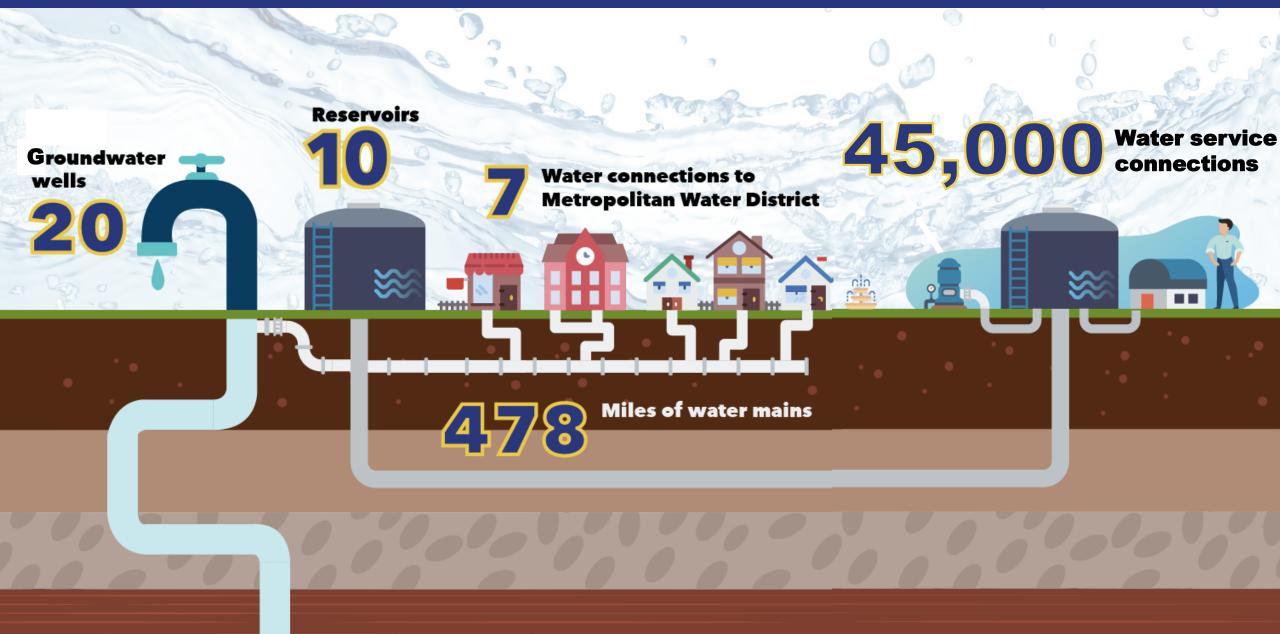


Conducts extensive sampling and testing to ensure your water meets all water quality standards



Keep our community clean, safe and enjoyable

WATER SYSTEM



ABOUT CITY OF SANTA ANA'S PUBLIC WORKS AGENCY

TOTAL WATER SUPPLIES





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GROUNDWATER **AQUIFER SYSTEM City's Main Source Of Groundwater Supply** The City of Santa Ana's wells extend nearly 1,000 feet down into the groundwater basin. **Groundwater Basin** Managed by Orange **County Water District**



City of Santa Ana's Water Quality Department

Provides a safe and reliable water supply and ensures that the City is in compliance with all Federal and State laws & regulations.

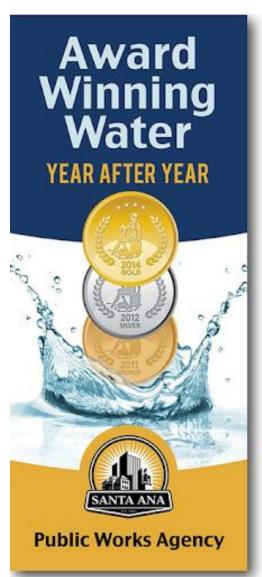
Maintains the highest standard of water quality by:

- Performing weekly, monthly, quarterly, and bi-annual basis sampling with a wide range of water quality parameters
- Releasing annual Consumer Confident Report (CCR) which details important information to help residents make health-based decisions about their drinking water
- Educating the community about water quality
- Collecting and analyzing over 10,000 samples annually for contaminants at various points in our water system; all of which are below state and federal maximum allowable levels

SANTA ANA'S AWARD WINNING WATER

Year after year, the City has earned international recognition for our award winning tap water.

- Version Service Ser
- Our City's water placed in the top 5 for the "Best Municipal Water in the USA" many times:
 - 2021 Silver Medal (MWD won Gold Medal)
 - 🔻 2018 Gold Medal
 - V 2014 Gold Medal
 - 2012 Silver Medal
 - 🔻 2011 Bronze Medal





Monday through Thursday – 7:00 AM to 5:00 PM And alternate Fridays – 7:00 AM to 4:00 PM



Groundwater Quality Protection Project Update

Bill Leever, PG, CHg Principal Hydrogeologist



March 29, 2023

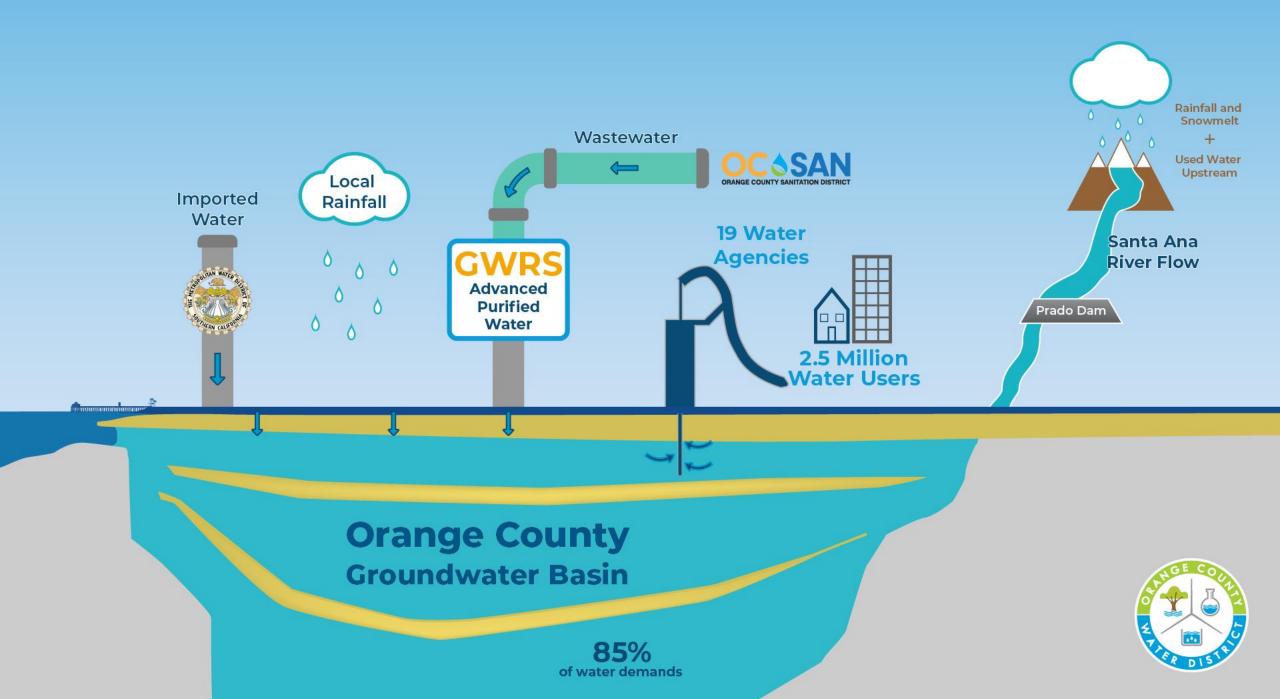
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Orange County Water District

- Manages and replenishes the groundwater basin
- Ensures water reliability and quality
- Prevents seawater intrusion
- Protects Orange County's rights to Santa Ana River water

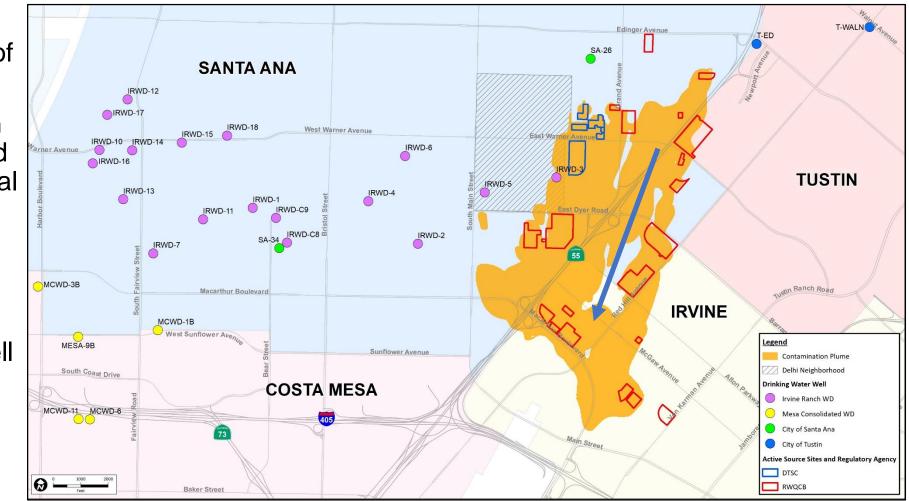


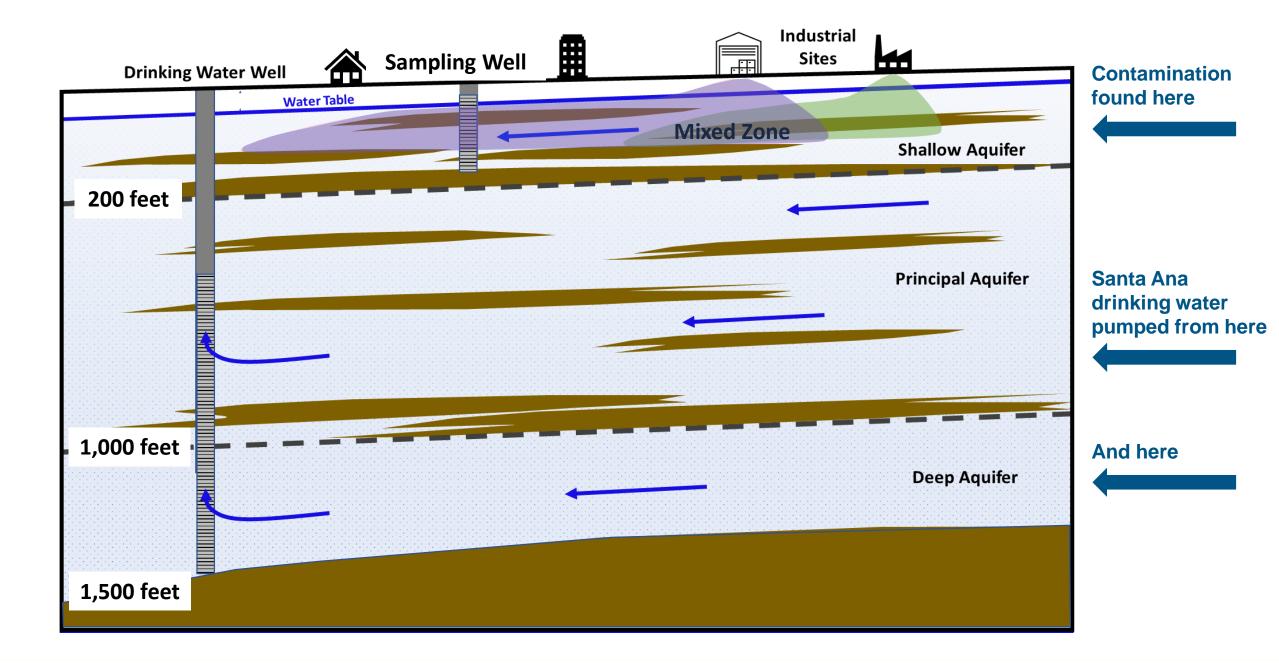
OCWD's mission is to provide a reliable, high-quality water supply in a cost-effective and environmentally responsible manner to the 19 cities and 2.5 million people it serves



Shallow Aquifer Groundwater Contamination

- Industrial chemicals have impacted 2-mile² portion of the shallow groundwater
- Developing plans to clean up the pollution in a united effort with state and federal regulatory agencies
- We are monitoring all Santa Ana drinking water wells
- Only one water supply well has been removed from service.
- NO Santa Ana wells are impacted





Your Drinking Water is Safe

- Groundwater contamination is in shallow aquifer layers
- Santa Ana's drinking water comes from layers much deeper that are **not** contaminated
- OCWD samples and performs drinking water testing
- OCWD tests for more than 500 chemicals (far more than what is required by the state)
- OCWD analyzes more than 20,000 samples and reports more than 400,000 results each year
- Your water meets all state and federal drinking water standards



OCWD Taking Action

- Developing comprehensive plan to control and remove chemicals
- Will pump contaminated water out of the aquifer and remove the chemicals using extraction wells
- Testing to confirm where extraction wells should be located
- Design and construction expected to begin in 2024
- Clean up estimated to begin within 3 to 5 years



OCWD is committed to working with the community to solve threats to groundwater. Together, we can ensure a clean and reliable water supply, protect ratepayers and protect long-term property values.



Bill Leever, PG, CHg Principal Hydrogeologist

Orange County Water District 18700 Ward Street, Fountain Valley, CA 92708 (714) 378-3200 info@ocwd.com www.OCWD.com

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Department of Toxic Substances Control

Status update on Industrial Sites within South Region Basin Santa Ana



MARCH 29, 2023 @ 6PM

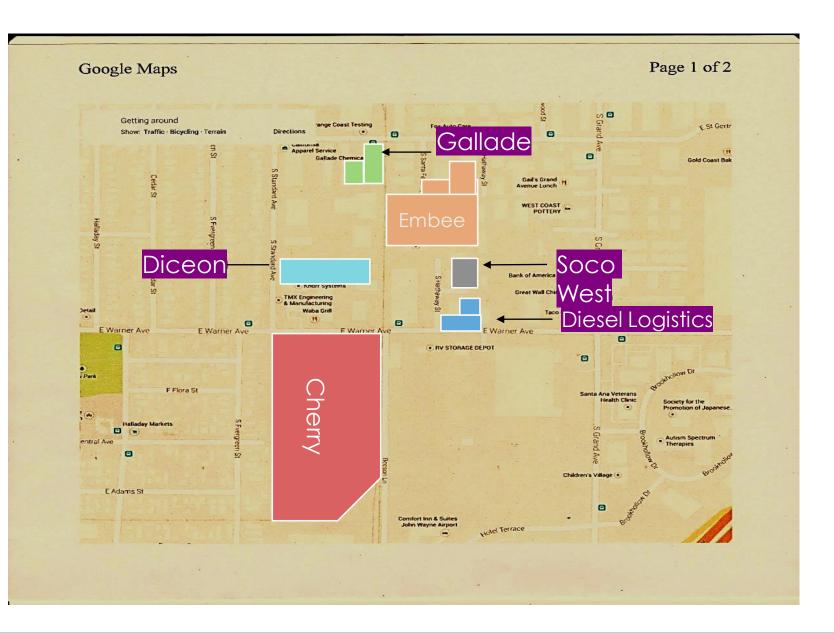


DTSC is a State Agency

- DTSC is a State Agency that is part of California EPA
- DTSC Regulates:
 - Hazardous Wastes
 - Issues Permits, Tracks Hazardous Wastes Shipments, and conducts
 Inspections
 - Promotes Pollution Prevention & Safer Consumer Products
 - Conducts and oversees cleanup of
 - Soil and Groundwater

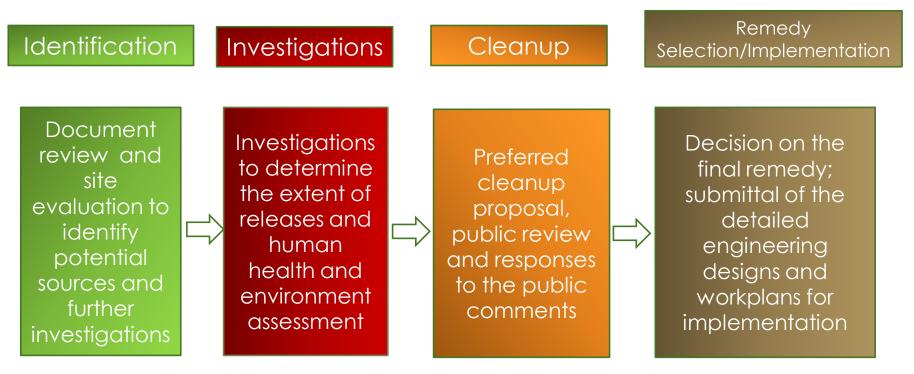


DTSC's Roles in Cleanup Oversight



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Cleanup Process



Interim measures to control the movement of contaminants can be applied at anytime

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Information Access

• DTSC Main Website: <u>https://www.dtsc.ca.gov</u>



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EnviroStor : https://envirostor.dtsc.ca.gov/public/
 EnviroStor : https://envirostor.dtsc.ca.gov/public/
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Information Access – DTSC Website

DTSC	A A	e i i	<u>∲</u> ⊘ Q
	Hazardous Waste 👻 Site Mitigation 👻 Safe	r Consumer Products - Chemistry - Get Involve	ed - Laws & Regulations - About DTSC - Search
Accessing Public Records	DTSC Calendar	Environmental Justice	EnviroStor
Office of Civil Rights	Office of Environmental Equity	Public Meetings	Public Notices
Public Participation	Report an Environmental Concern	Sign Up for an E-List	Supplemental Environmental Projects
Tribal Affairs			

How to use EnviroStor

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		Tools	Reports	Community Involvement	How to Use EnviroStor	ESI	DTSC Web	R
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				Basic Search	<mark>/ Map View</mark>			
	Env	iroStor						
EnviroStor is the Department of Toxic Substances Control's data management system for tracking our cleanup, permitting, enforcement and investigation efforts at hazardous waste facilities and sites with known contamination or sites where there may be reasons to investigate further.								
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Department of Toxic Substances Control

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			Hazardous Waste Facilities	SELECT ALL / DESELECT ALL				
			 Permitted - Operating Post-Closure Permitted Historical Non-Operating 					
			Inspection, Compliance and Enforcement					
			 Permitted Facilities with Inspections / E Non-Permitted Facilities with Inspection 					
			Get Report	🛛 🖛 🛛 Click 🤇	Sec	irch		

ENVIROSTOR

How to use EnviroStor Advanced Search

EnviroStor Result View

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Department of Toxic Substances Control

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DTSC Contact's

		SoCo West / Diesel Logistics	OCWD GW
Project Manager	Manjul Bose (818) 717-6560	Farah Itani (714) 484-5471	Nicholas Ta (714) 484-5381

Environmental Justice Coordinator: Todd Sax



Glossary

- PCE Perchloroethylene (degreaser solvent, drycleaning solution)
- TCE Trichloroethylene (degreaser solvent)
- SVE Soil Vapor Extraction System (technology for cleanup solvents in vapor)
- DPE Dual Phase Extraction (soil vapor and groundwater cleanup)
- ERH Electrically Resistive Heating (heat soil to help cleanup soil vapor)
- ISCO In-Situ Chemical Oxidation (inject chemicals to cleanup groundwater)
- EISB Enhanced In-Situ Bioremediation (inject bacteria to cleanup groundwater)
- PRB Permeable Reactive Barrier, ZVFe Zero Valent Iron is one technology



Cherry Aerospace / Textron Inc.

- Approved a SVE Pilot Study workplan (2017)
- Soil Vapor Extraction (SVE) system running under an extended pilot test in the south western part of the facility since 2019.
- SVE system is effective and continues to protect the community from chemicals in soil vapor from extending off property.
- Construction of combined on-site and off-site interim measures estimated to start Fall 2023 – subject to final permitting approvals



Cherry Aerospace



Source: GoogleEarth Pro (Image Date: April, 2014). Basemap provided by Cherry Aerospace. Project: 1727-241511



novice. . PCE Residential Risk Based Screening Level: 230 µg/m³ . PCE Industrial / Commercial Risk Based Screening Level: 2,000 µg/ . Concentrations in vapor monitoring probes to West (Alonn S: Evenne Vapor Monitoring Probe Location are all below the residential Risk-Based Scr SVE system installed June 2017 Tetrachloroethene (PCE) contours, dashed where inferre (110) PCE results in micrograms per cubic meter (µg/m³) 5. U - Nondetect result at a resporting limit 5. J - Estimated Value 7. Historical SVE PCE pume trends are shown in Appendix G, Figures G-1 through Figure G-4.

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CDM Smith

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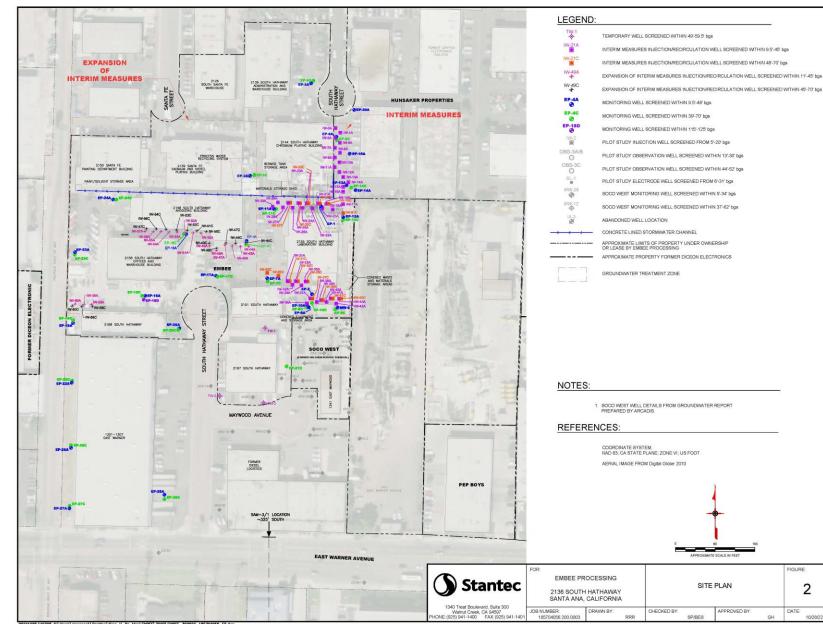
Embee Processing, Inc.

- Proposed Interim Measure (IM) cleanup
 - Bioremediation cleanup it is the use of small naturally occurring microorganisms to cleanup contaminated soil and groundwater.
 - ERH with SVE Cleanup use of Electrically heated soils in conjunction with soil vapor extraction to remove solvents from soils and groundwater.
- Next Steps: Interim Measures for ERH + SVE cleanup for public comment period soon.

Department of Toxic Substances Control

Embee Plating

Figure shows Bioremediation Injection wells on property





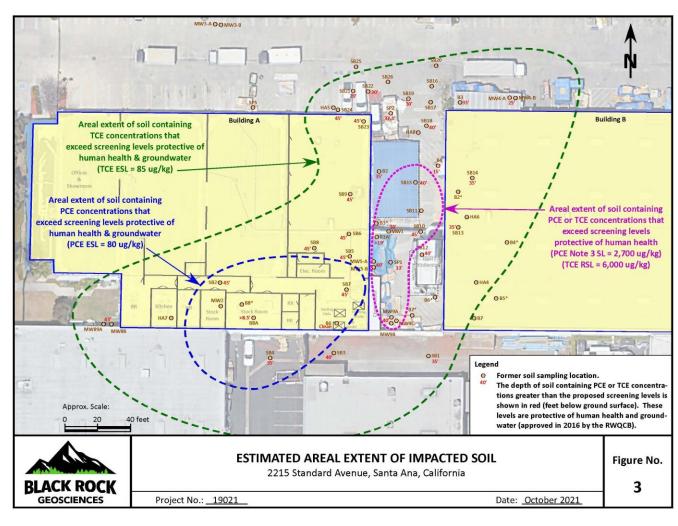
Former Diceon Electronics

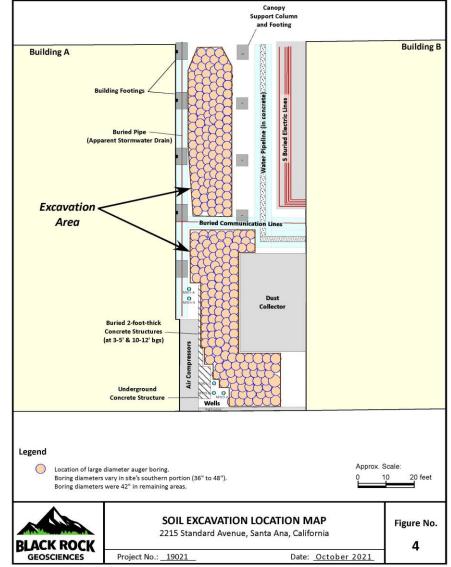
- Groundwater monitoring wells installed offsite March 2019.
- Interim Remedial Action Plan (IRAP) approved in June 2021. Plan includes excavation of 5 areas, and ISCO ZVFe groundwater injection – in separate phases
- Phase 1 excavation of area between Bldg A & Bldg B. Approved remedial action in January 2022.
- DTSC working with property owner on next phase of IRAP





Diceon Electronics





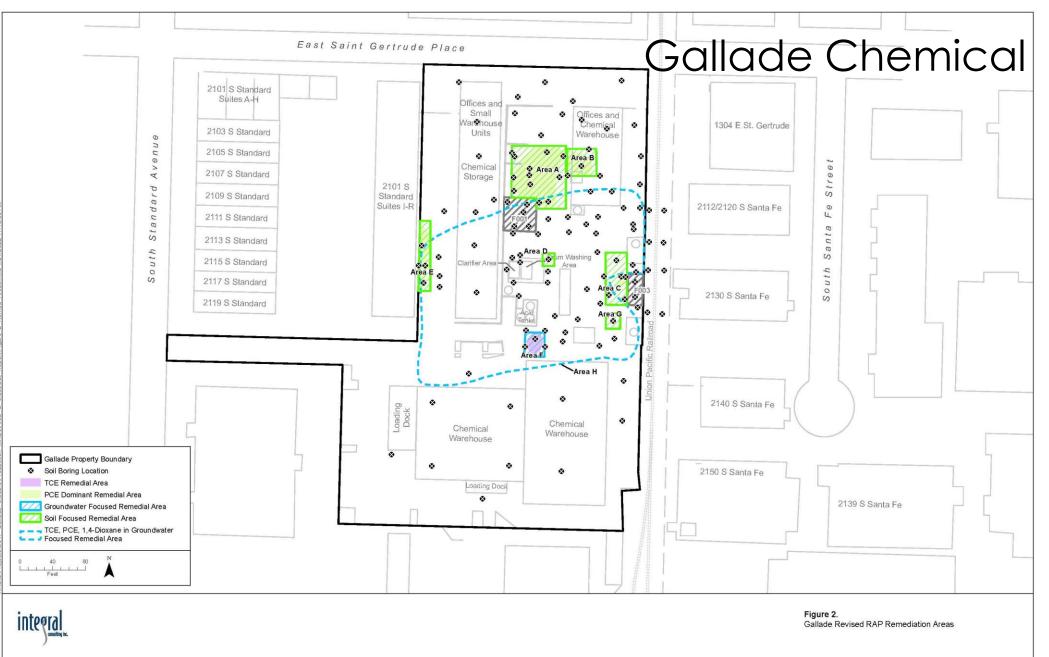




Gallade Chemical, Inc.

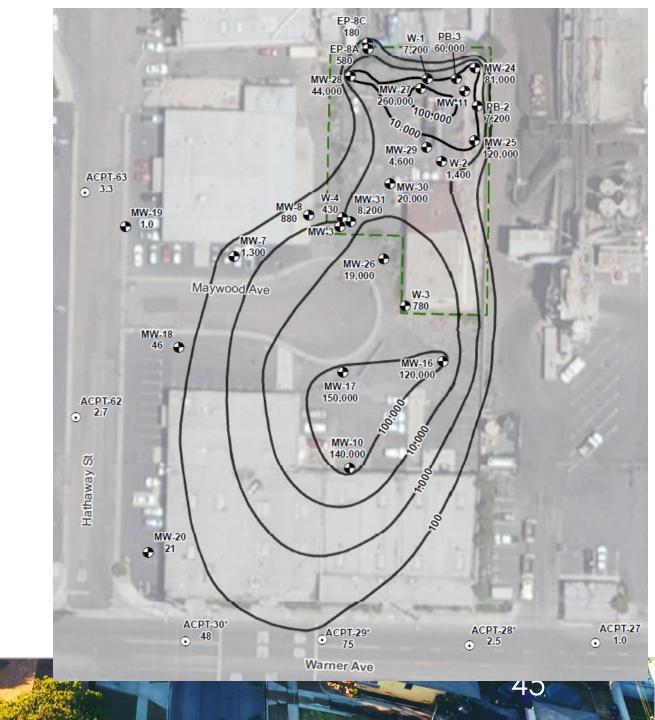
- RAP approved by RWQCB in 2016 planned phases in 15 years.
- Focus areas divided into areas A through H
- Area A : Completed, 1,300 cubic yards of soil removed completed September 2019, Approved May 2020.
- Area C : Completed, 203 tons of VOC impacted soil removed. Area C approved by DTSC in May 2021.
- Current Status : Area G Approval in process.





Soco West Inc./Former Holchem Facility

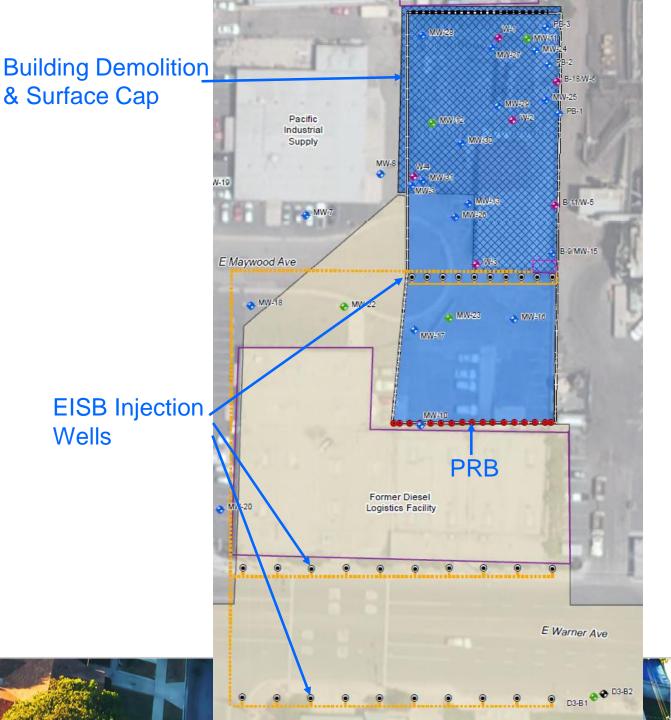
- Chemicals of concern include volatile organic compounds in soil, soil vapor, and groundwater.
- Interim corrective measures 1997 – 2009:
 - Soil vapor extraction
 - Dual phase (vapor and groundwater) extraction.



Department of Toxic Substances Control

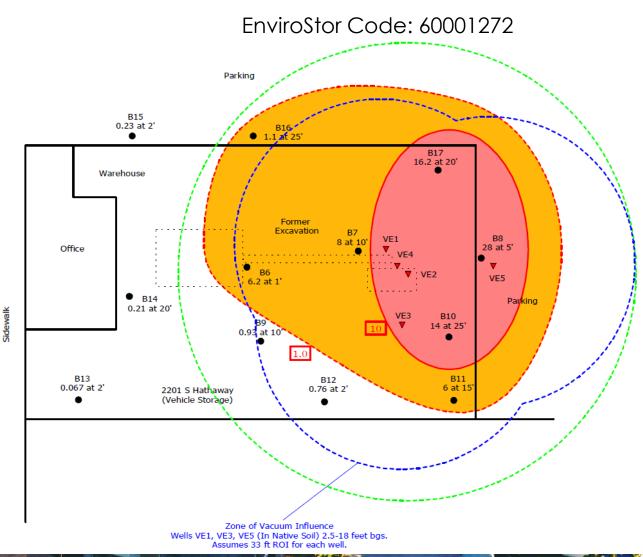
Soco West Inc./Former Holchem Facility

- Remedial Action Plan approved in August 2015:
 - Building demolition and surface cap
 - Groundwater treatment by enhanced in-situ bioremediation (EISB)
 - Permeable reactive barrier (PRB)
 - Land use covenant



Diesel Logistics

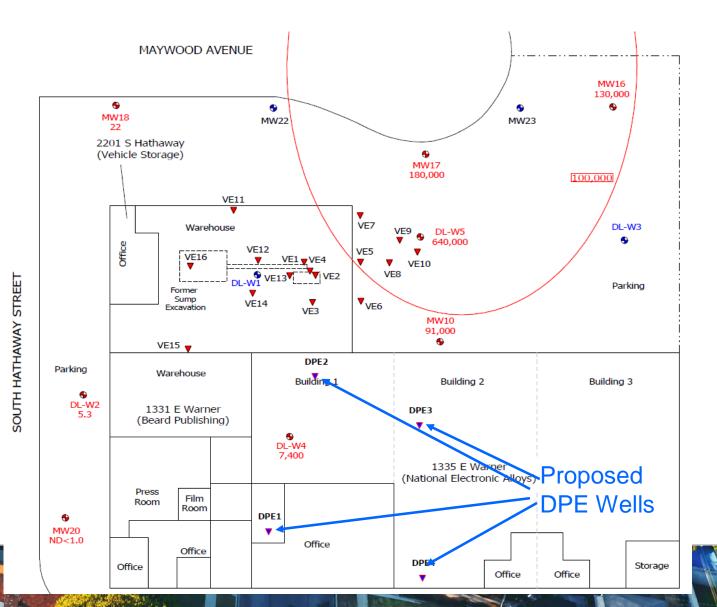
- Chemicals of concern include volatile organic compounds in soil, soil vapor, and groundwater.
- Interim Removal Actions:
 - vapor intrusion mitigation measures including air purifiers and building ventilation fans installed in 2015
 - soil vapor extraction (SVE) started in 2018



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Diesel Logistics

- Interim Groundwater
 Removal Action Workplan
 approved in December,
 2022, proposed
 - Dual phase extraction (DPE), to enhance SVE performance, and control groundwater contamination.



Questions?



