

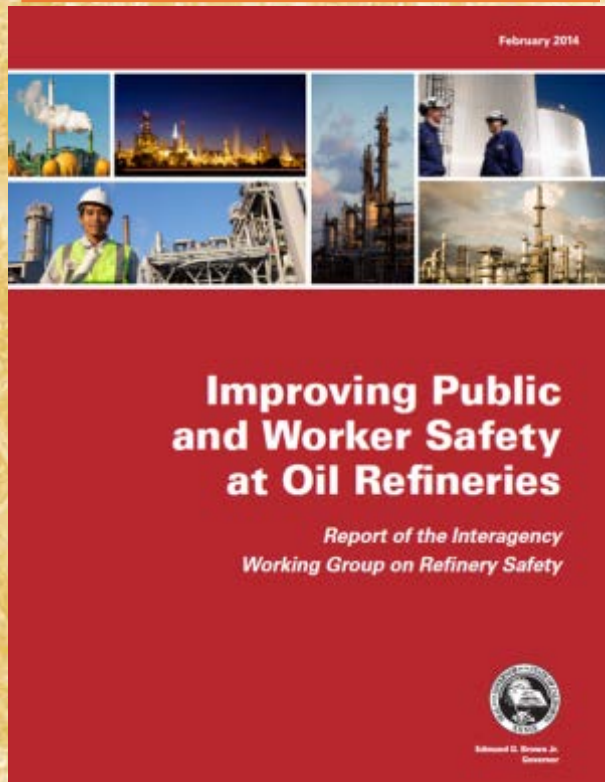
California Interagency Refinery
Task Force (IRTF)

Refinery Safety Forum
Torrance, California
April 23, 2018





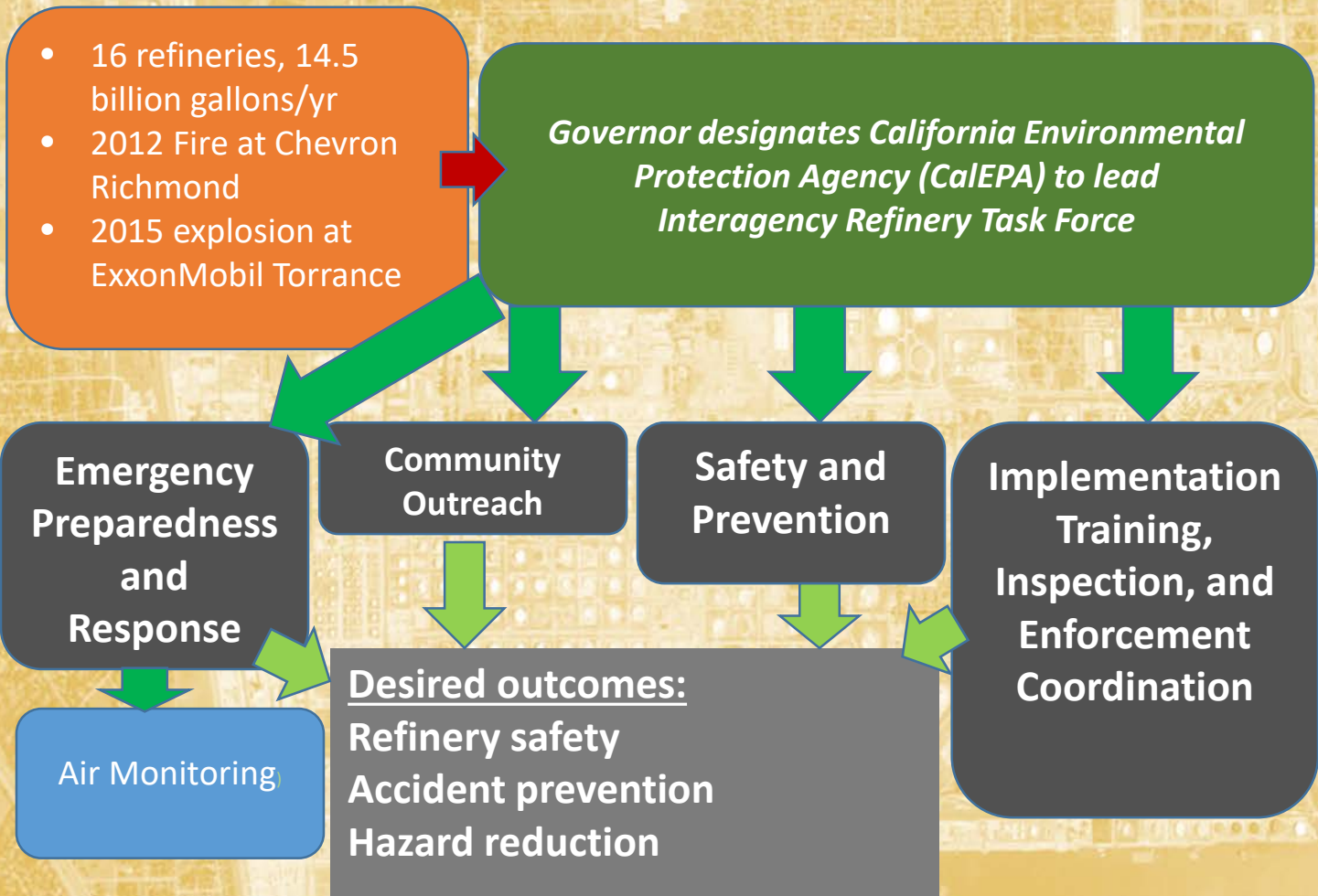
Interagency Refinery Task Force Background



California Environmental Protection Agency
California Air Resources Board
Department of Toxic Substances Control
State Water Resources Control Board
Department of Industrial Relations (CalOSHA)
Governor's Office of Emergency Services
California Department of Public Health
California Emergency Medical Services Authority
Office of the State Fire Marshal
U.S. Environmental Protection Agency Region 9
Certified Unified Program Agencies with refineries
Contra Costa County Environmental Health
El Segundo Fire
Kern County Environmental Health
Los Angeles County Fire (Torrance Fire)
City of Los Angeles Fire
San Luis Obispo County Environmental Health
Solano County Environmental Health
Local Air Pollution Control Districts with refineries
Bay Area Air Quality Management District
San Joaquin Valley Air Pollution Control District
San Luis Obispo County Air Pollution Control District
South Coast Air Quality Management District



California Interagency Refinery Task Force





**Improving Public
and Worker Safety
at Oil Refineries**

*Report of the Interagency
Working Group on Refinery Safety*



...refineries are highly complex environments ...

California refineries are aging; they are processing higher sulfur crude which increases corrosion; maintenance is often deferred; contractor training may not always be adequate; and regulatory agencies often do not have ready access to information they may need to assess safety. Ultimately, the goal is to incorporate principles of inherent safety more fully into the operations of California refineries; ...this is an ongoing process.”

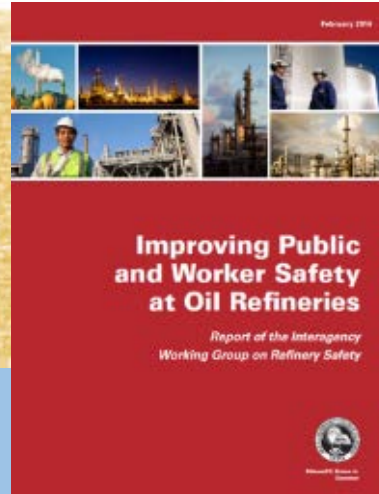


Community Outreach and Involvement

To date over 15 Safety Forums/Days/Summits on various topics and at various venues

Intended to:

- Demystify the issues
- Depoliticize the discussion
- Provide and exchange information
- Break down the institutional and organizational barriers
- Encourage meaningful dialogue



Intended Outcomes:

- Improving refinery safety is a goal strongly shared by government, industry, workers, and communities.
- Refineries should have a culture that fosters inherent safety, including stronger accident prevention and hazard reduction measures.
- Government agencies can improve interagency coordination, emergency response procedures, and communication and outreach to the public.
- The Interagency Refinery Task Force will guide California efforts to help achieve the highest possible level of safety and prevention in the California refinery sector.”

Refinery Emergency Air Monitoring Assessment Project



**Monitoring and Laboratory Division
Office of Emergency Response**

**Torrance
April 23, 2018**

Refinery Project Plan



Richmond 2012



Torrance 2015

Develop Project Plan - July 2013

- Objective 1: Inventory existing assets and resources - May 2015
- Objective 2: Evaluate capabilities and propose enhancements - Public Final Draft September 2017
- Objective 3: Develop statewide guidance to implement recommendations/best practices
- Objective 4: Improve ongoing training, coordination, and preparedness

Findings



Data Availability:

- Existing monitoring
- Deployed monitoring
- Modeling

Coordination and Communication



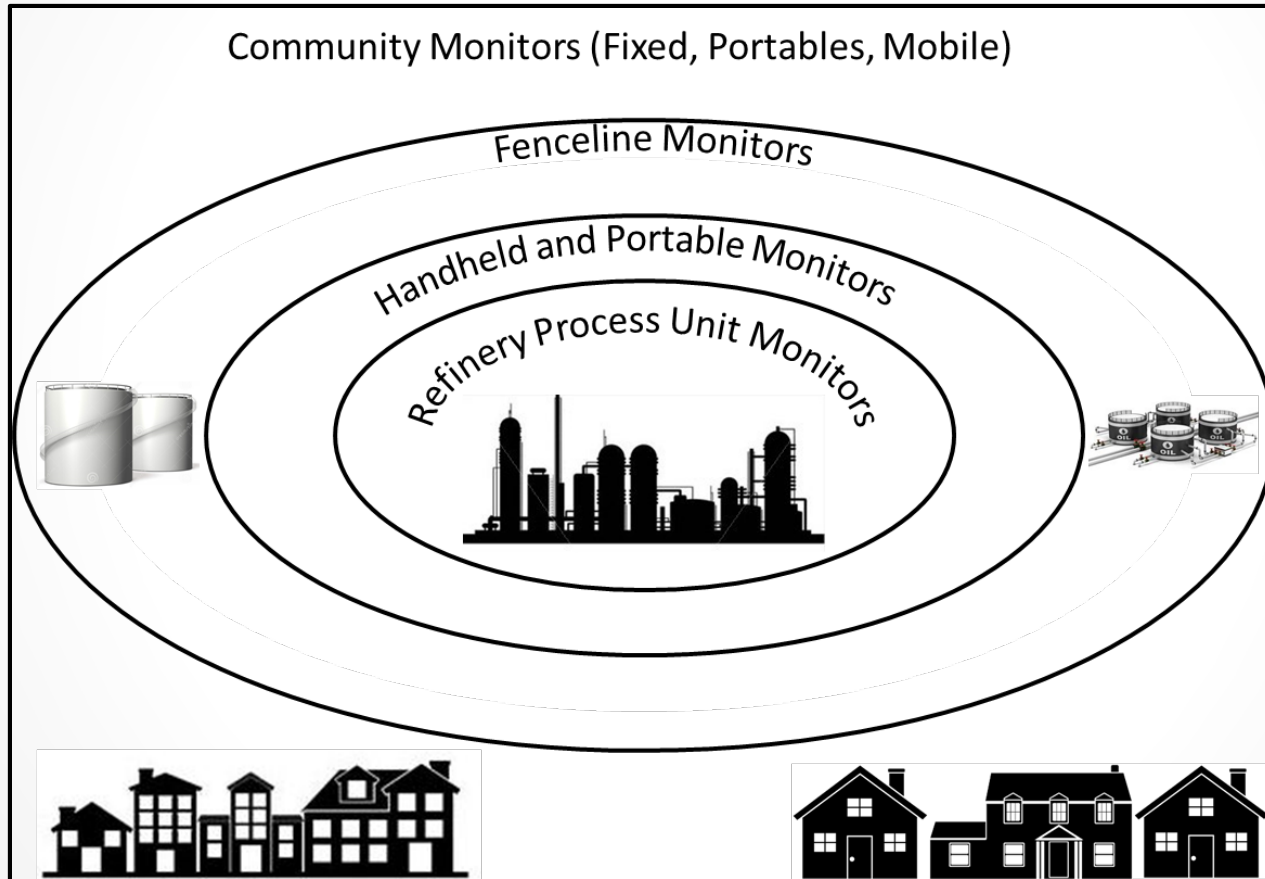
Overview of Recommendations

- Require multi-layered air monitoring around refineries
- Sponsor technical symposia to identify best practices and advancements in industrial modeling
- Coordinate better local emergency preparedness, response, and messaging
- Improve State and local coordination group via Refinery Monitoring Working Group (RMWG) – statewide guidance.

Routine and Emergency Air Monitoring

- Air monitoring systems designed for emergencies can provide information on routine operations
- Additional benefits include:
 - Information on air quality around industrial facilities
 - Status of routine industrial operations

Layered Air Monitoring Strategy



Building Air Monitoring Layers

**Personal and
Handheld Monitors**



**Process Unit
Monitors**



Building Air Monitoring Layers

Personal and Handheld Monitors



Process Unit Monitors



Fenceline Monitors



Building Air Monitoring Layers

Air Monitoring Stations



Personal and Handheld Monitors



Process Unit Monitors



Community Monitors



Fenceline Monitors



Building Air Monitoring Layers



Air Monitoring Stations



Personal and Handheld Monitors



Hazmat Vehicles and Mobile Labs



Community Monitors

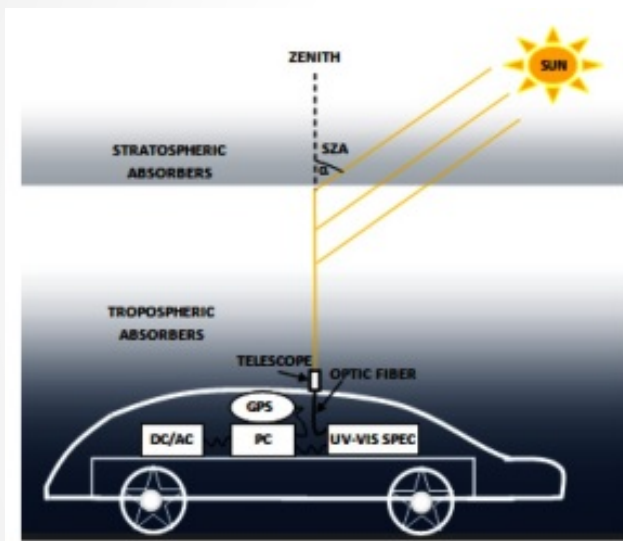
Process Unit Monitors



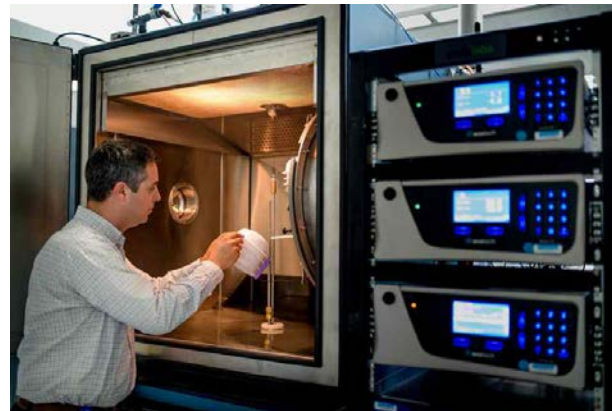
Fenceline Monitors

Technology Evaluations

Spectral Flux



South Coast Air Quality Management District's Air Quality Sensor Performance Evaluation Center



Modeling



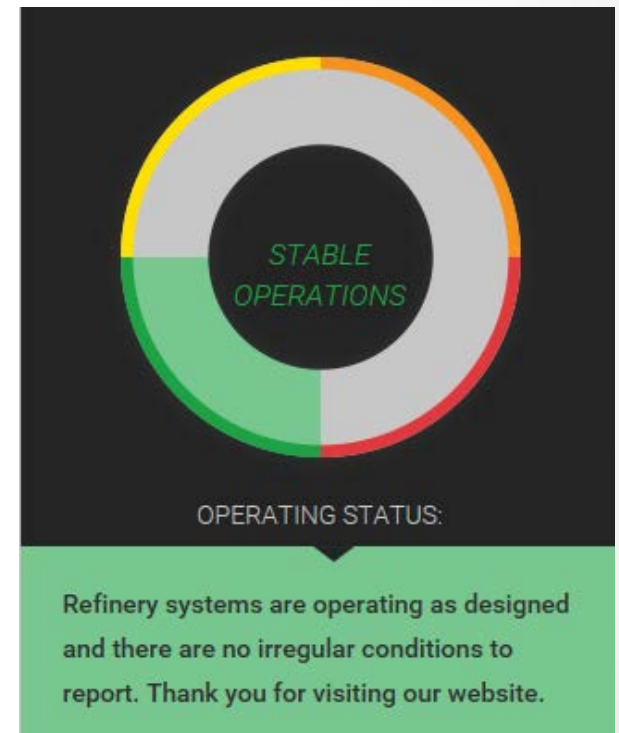
- Emergency preparedness
- Model evaluation
 - New technology
 - Application

Coordination and Communication

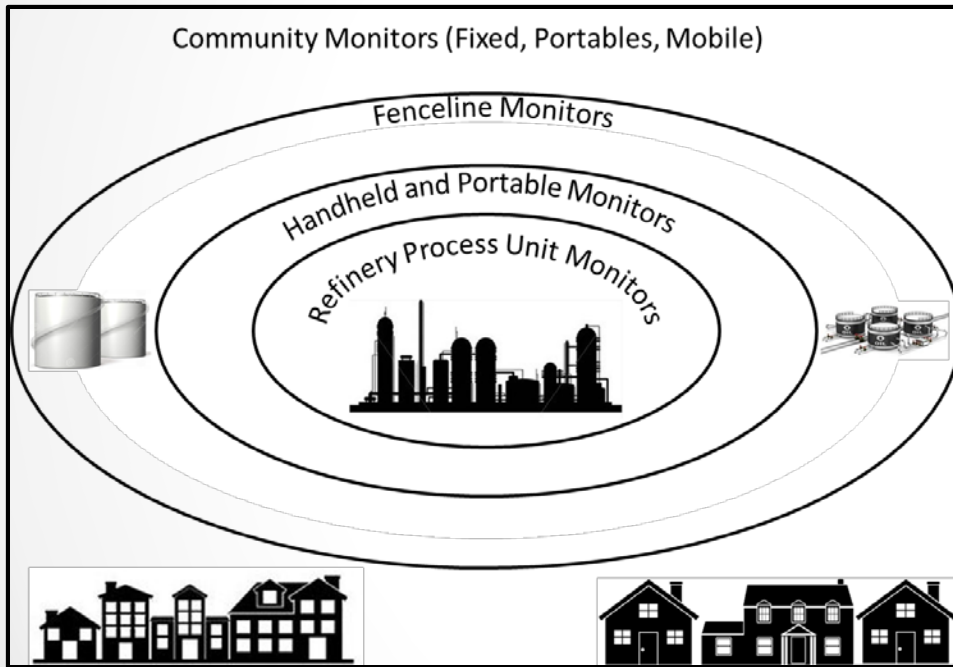
Prevention and Preparedness



Communications



Next Steps



- Outreach activities
- Feedback on report
- Finalize report
- Form RMWG
- District rules and State regulations

Further Information

- CARB refinery related air monitoring website:
www.arb.ca.gov/fuels/carefinery/crseam/crseam.htm
- Or web search: **CARB Refinery**

Russ Bennett

California Air Resources Board:
Office of Emergency Response



(916) 324-1149



Russ.Bennett@arb.ca.gov



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT: REFINERY RELATED AIR MONITORING EFFORTS

IRTF Safety Forum

April 23, 2018

Dr. Jason C. Low

Assistant Deputy Executive Officer

Monitoring and Analysis Division



OVERVIEW

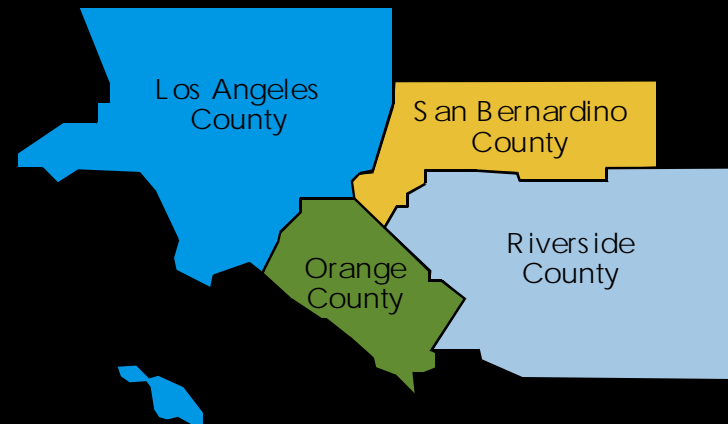
- South Coast Air Quality Management District (SCAQMD) Background
- Incident Response Program
- Current Air Monitoring Programs
 - Air Monitoring Network
 - AQ-SPEC Program
 - MATES V
- Upcoming Programs to Integrate Air Monitoring Strategies
 - AB 617
 - Rule 1180 Community Monitoring
 - Supplemental Environmental Project and Rule 1410 Update

WHO IS THE SCAQMD?

Regional Government Agency Responsible for Protecting Our Residents from the Health Effects of Air Pollution

What we do

- Develop **Air Quality Management Plan**
- Adopt air quality rules and regulations
- Issue **permits**
- Conduct **periodic inspections and respond** to air quality complaints
- Develop and deploy **clean technology**
- Conduct **air monitoring**
- **Engage** with all stakeholders
- **Public outreach and education**



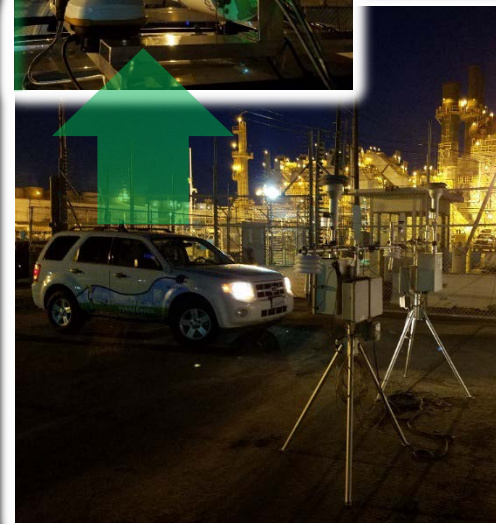
SCAQMD Incident Response Program

- Responds to emergencies such as fires, explosions, toxic spills, and toxic gas releases at industrial/commercial facilities and other sources
- Activation:
 - Notifications from Cal Emergency Management Agency, Cal EPA and Local Emergency Response Agencies, Local Fire Departments, CHP, wildfire events
 - **1.800.CUT.SMOG / www.aqmd.gov**

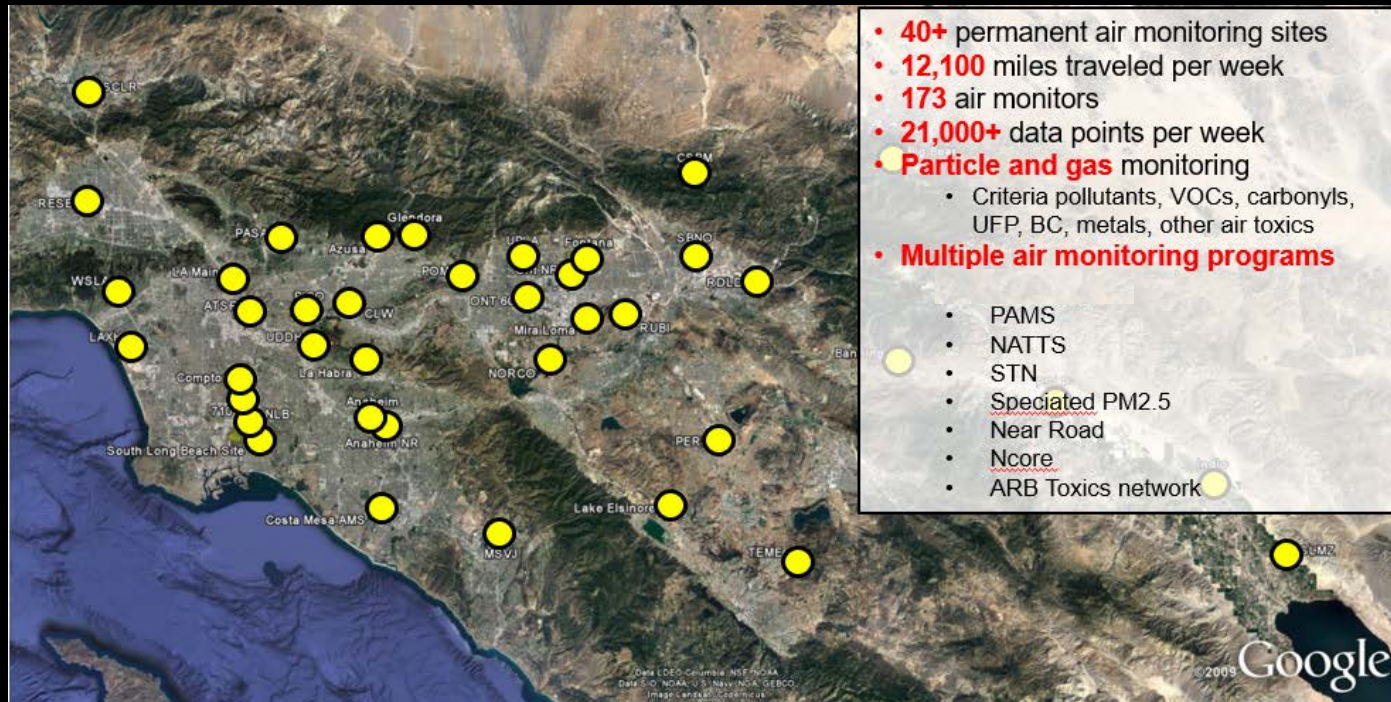


SCAQMD Incident Response Program

- Provides specialized technical support within the Incident Command System
 - Air quality sampling and analysis
 - ✓ On-site near real-time measurements
 - ✓ On-site sample collection for laboratory analysis
 - ✓ Capability for longer term monitoring
 - Facility inspection
 - Meteorological data, dispersion modeling, and forecasting



SCAQMD AIR MONITORING NETWORK





AQ-SPEC

Air Quality Sensor Performance Evaluation Center

- Most comprehensive sensor evaluation program in the Nation
- Recognition for:
 - Community education
 - Air toxics monitoring
 - Validation of satellite air quality data
- Pilot sensor network projects
- Next steps:
 - Statewide sensor network development
 - Sensor certification program



MATES V PROGRAM OVERVIEW

PURPOSE: To evaluate regional air toxics health risks in the South Coast Air Basin

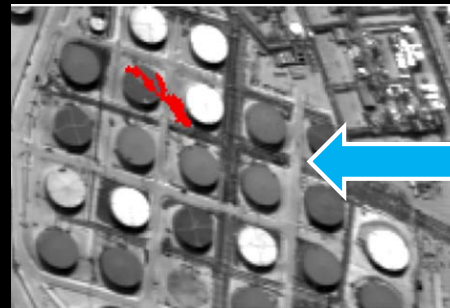
- Carcinogenic risk from exposure to air toxics
- Cumulative impacts approach
- Advanced monitoring component in areas near refineries



FLIGHT-BASED AIR TOXICS MEASUREMENT AEROSPACE CORPORATION



- Survey large areas, including refinery areas
- Detect plumes & emissions
- Guide ground-based efforts



MOBILE AIR TOXICS LABORATORY FLUXSENSE, INC.



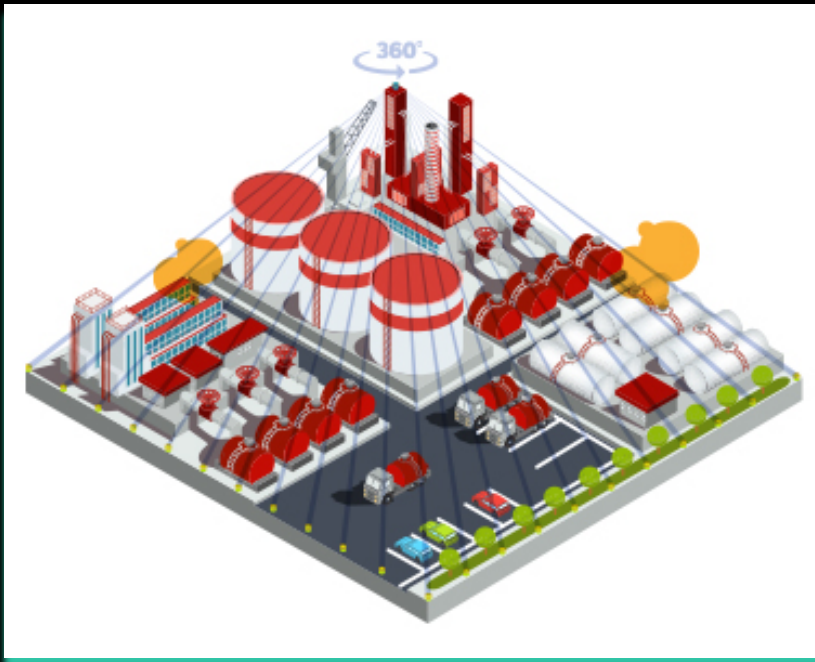
- Survey major refineries and other petroleum facilities

- Fenceline and community mobile monitoring
- Identify sources and community levels



OPTICAL TENT (FACILITY-BASED AIR TOXICS MONITORING)

UCLA

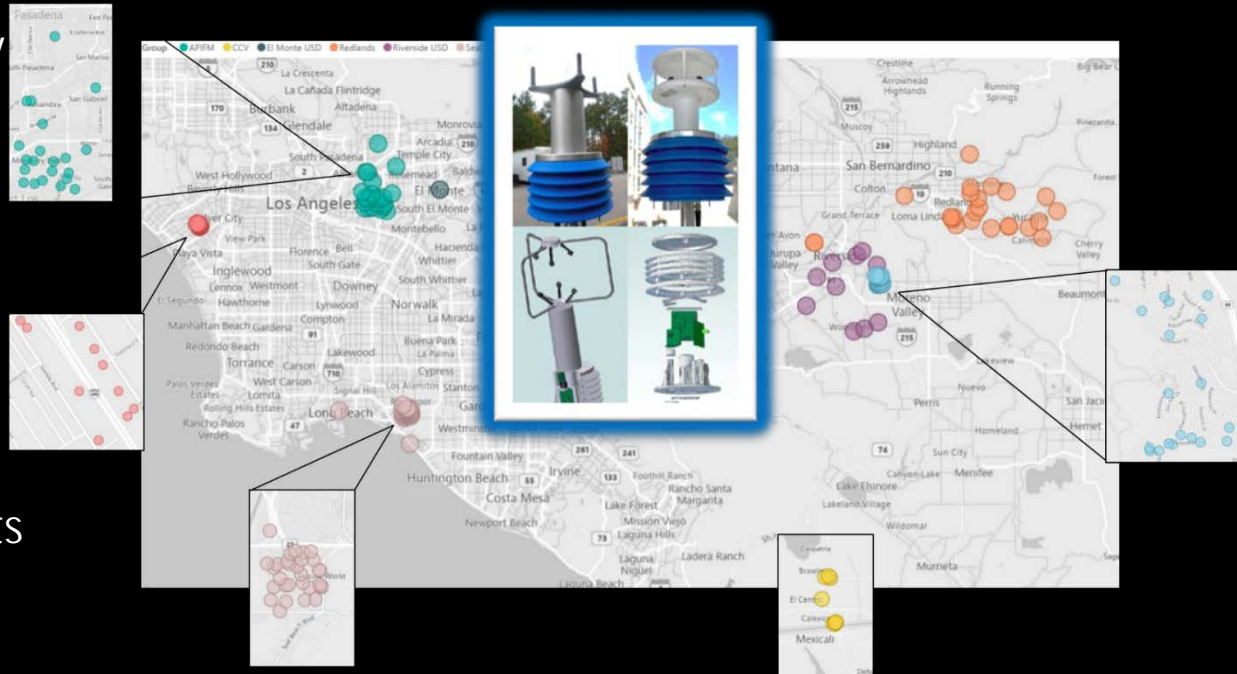


- Continuous facility monitoring
- Real-time leak detection
- Quantify long-term emissions

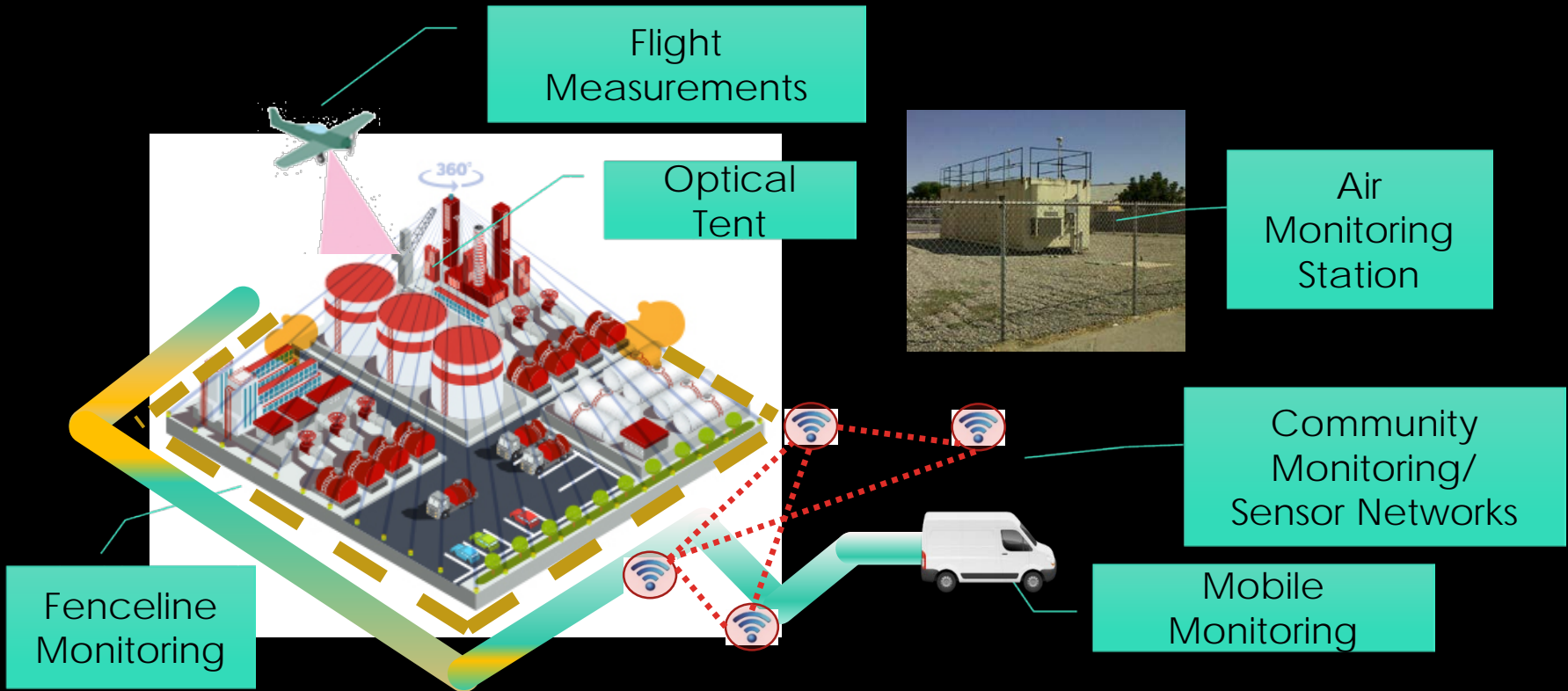
SENSOR NETWORKS & COMMUNITY ENGAGEMENT

QSENSE AND SCAQMD

- Detailed local data
 - PM: 2 communities
 - VOCs: 1 near-refinery community
- Community engagement
 - Air quality & sensor training
 - Needs assessment
 - Inform air quality improvement projects

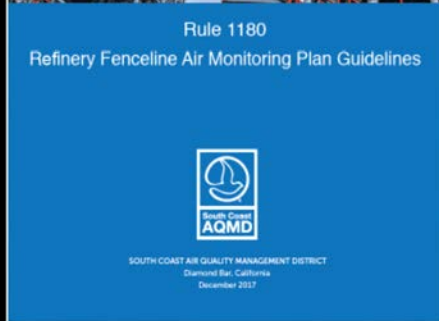


COMPLEMENTARY APPROACHES TO REFINERY MONITORING

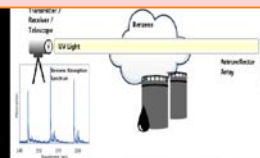


SCAQMD RULE 1180

- Fenceline air monitoring system required to be installed
- SCAQMD will deploy community monitoring



Fenceline Coverage



Equipment & Quality Assurance



Notification System



AB 617 Goals



2018

2019

2020

2021

**District
Initiatives**



MATES V

AB 617



**Rule 1180
AB 1647**



SUPPLEMENTAL ENVIRONMENTAL PROJECT

- **Torrance refinery explosion
February 2015 & restart in May 2016**
- **Settlement funds received totaling
\$2,771,250 to be used in or to benefit the
City of Torrance**
- **Community air monitoring and alerting
system to be implemented**



PROPOSED RULE 1410 – HYDROGEN FLUORIDE STORAGE AND USE AT PETROLEUM REFINERIES

- Initial rule concepts include different tiers of mitigation and phase-out of MHF technology
- Stakeholder input through working group and Refinery Committee meetings having presentations provided by manufacturers of emerging technologies, affected refineries, community groups, CalOSHA, and the California Energy Commission
- The third Refinery Committee Meeting scheduled for **Saturday, April 28, 2018** at **9:00** a.m. at:

Torrance City Council Chambers
3031 Torrance Blvd
Torrance, CA 90503



Questions?



Analysis of Refinery Chemical Emissions and Health Effects

Karen Riveles, PhD MPH

Office of Environmental Health Hazard Assessment (OEHHA)

California Environmental Protection Agency (CalEPA)

Karen.Riveles@oehha.ca.gov



OEHHA's Mission

- ▶ To protect and enhance public health and the environment by scientific evaluation of risks posted by hazardous substances

In an Emergency OEHHA assists

- ▶ Emergency responders and managers
- ▶ Local, State, and Federal air, environmental, and public health officials
- ▶ To assess health effects and characterizing risk to public health and the environment from toxic releases in the environment

Outline

- ▶ Timeline
- ▶ Background: Why did we create this report?
- ▶ What does this report do?
- ▶ What is the source of the information?
- ▶ Overview of information in report
- ▶ Regulatory health values
- ▶ Common process units and emission points at California refineries
- ▶ Routine and nonroutine emissions data
- ▶ Toxicity-weighted emissions
- ▶ Selecting candidate chemicals to recommend for air monitoring
- ▶ Key findings and conclusions

Timeline

Aug
2012

- Chevron refinery fire in Richmond
- Concerns about refinery safety and emergency response in California

July
2013

- Governor Brown's report on "Improving Public and Worker Safety at Oil Refineries" recommends formation of Interagency Refinery Task Force (IRTF)

Aug
2013

- CalEPA forms IRTF in response to Governor's directive
- Develop findings, recommendations, proposed implementation measures

Dec
2014-
June
2015

- Public meetings: California Safety Forums

May
2015

- ARB and CAPCOA report on "Refinery Emergency Air Monitoring Assessment: Delineation of Existing Capabilities"

June
2015

- OEHHA charged with assessing health effects, regulatory health values of CA refinery chemicals

Background

- ▶ **Interagency Refinery Task Force (IRTF)**
 - ▶ Tasked to improve public and worker safety around California refineries and strengthen emergency preparedness
- ▶ **Air Resources Board (ARB) and California Air Pollution Control Officers Association (CAPCOA) Air Monitoring Committee**
 - ▶ Tasked with writing a report to assess existing emergency air monitoring capabilities and potential improvements to California's current air monitoring system for refineries
- ▶ **Office of Environmental Health Hazard Assessment (OEHHA)**
 - ▶ California Environmental Protection Agency (CalEPA) tasks OEHHA with writing a report to summarize health effects of refinery chemicals

What does this report do?

- ▶ Provides a compendium of information on chemicals emitted from refineries in California
 - ▶ Regulatory health values and health effects
 - ▶ Common process units and emission points
 - ▶ Routine emissions in daily operations
 - ▶ Accidental emissions
 - ▶ Other non-routine emissions
 - ▶ Information on emissions levels and toxicity
 - ▶ Selects potential candidates for air monitoring

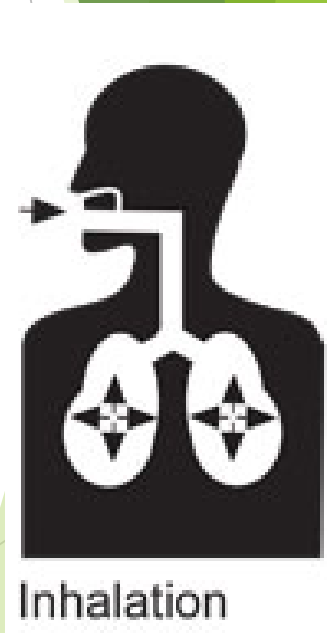
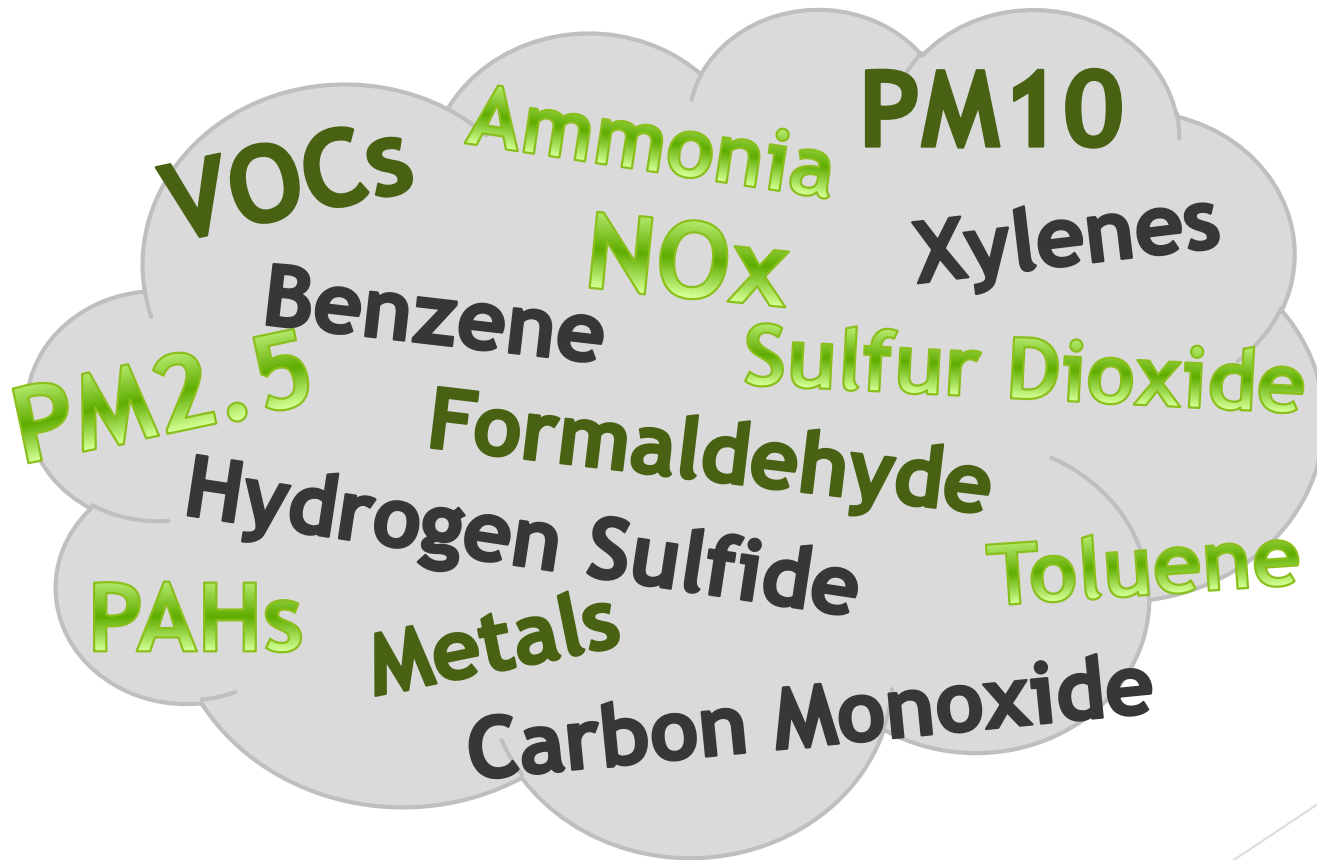
- ▶ This report does not:
 - ▶ Actually measure exposure or risk in communities

- ▶ OEHHA's report is a companion report to California Air Resources Board (CARB) report on air monitoring strategies

- ▶ The OEHHA report contains useful information for considering:
 - ▶ Which chemicals to monitor near facilities
 - ▶ Community air monitoring efforts
 - ▶ Fence-line air monitoring at refineries
 - ▶ Emergency response and preparedness



- ▶ Knowing what is being emitted from refineries can help determine which chemicals should be monitored, as a way of reducing exposure.



What is the source of the information?

OEHHA used publicly available information to compile the list of chemicals and their emissions.

- ▶ **California Air Resources Board's (CARB)**
 - ▶ California Emissions Inventory Development and Reporting System (CEIDARS) Facility Search Tool
 - ▶ Routine emissions from all refineries in California
 - ▶ First Query: 2009-2012
 - ▶ Second Query: 2014
- ▶ **US EPA**
 - ▶ Routine and non-routine emissions from all California refineries
 - ▶ Data for 2010
- ▶ **Additional sources**
 - ▶ Literature searches, internet databases, government reports, peer-reviewed journal articles, and incident databases.

Overview of Information in the Report

- ▶ List of chemicals emitted from California refineries
- ▶ Health guidance values
 - ▶ OEHHA Reference Exposure Level (REL)
 - ▶ U.S. EPA Reference Concentration (RfC)
 - ▶ Cancer Slope Factors, Unit Risk Values, Prop 65
- ▶ Emergency exposure levels
 - ▶ U.S. EPA Acute Exposure Guideline Level (AEGL-1, 2)
 - ▶ NIOSH Immediately Dangerous to Life and Health (IDLH)
 - ▶ Lower Explosive Limits (LEL)

Overview continued

- ▶ Chemical health effects
 - ▶ Acute, chronic
- ▶ California refinery incident history
- ▶ California refinery process units and emission points
- ▶ Routine and nonroutine chemical emissions by California refineries
- ▶ Data analysis compares multiple variables to develop list of chemicals recommended for air monitoring

Regulatory Health Values and Refinery Chemicals in California

- ▶ 107 chemicals have at least one health guidance value from OEHHA or US EPA.
- ▶ 94 chemicals have at least one emergency exposure value to evaluate the harm of large unanticipated releases.
- ▶ 33 chemicals do not have any health guidance value. These chemicals are generally released in much lower quantities than those with guidance values.

Health Effects

- ▶ Information and acute and chronic health effects for a select group of refinery chemicals
- ▶ Summary table of health effects in report
- ▶ Longer health summaries in appendix

Common Process Units and Emission Points Self-Reported by CA Refineries (2010)¹

Release Type		
Fugitive	Point	Fugitive and Point
Hydrogen plant	Boiler	Alkylation unit
Product loading	Flare	Cogeneration unit
Wastewater treatment	Heater	Coker
	Hydrotreater	Cooling tower
	Thermal oxidizer	Crude unit
	Vent	Fluid catalytic cracking unit
		Hydrocracker
		Incinerator
		Stack
		Storage tank

¹ The process units listed above represent those most commonly found in OEHHA's research of California refineries based on U.S. EPA (2012a, 2012b) data for 2010. Note that the processes listed above do not reflect all refinery processes at California refineries.

Selecting Candidate Chemicals to Recommend for Air Monitoring

- ▶ Based on:
 - ▶ Highest routine and nonroutine emissions
 - ▶ Low Reference concentrations
 - ▶ RELs & RfCs
 - ▶ Carcinogenicity
 - ▶ Low emergency exposure values
 - ▶ AEGLs (1,2)
 - ▶ In the most processes
 - ▶ Involved in reported refinery incidents
 - ▶ Toxicity-weighted emissions

Toxicity-Weighted Totals for Chemicals Released From California Refineries (2014)

Chemical	Total lbs. released ¹	Toxicity weights ²	Toxicity-weighted lbs. released ³
Formaldehyde	91681.92638	46000	4217368613
Nickel	1337.784985	930000	1244140036
Arsenic	64.78463609	17000000	1101338814
Cadmium	155.0871108	6400000	992557509.1
Benzene	20313.40527	28000	568775347.6
PAHs, total w/o individ components	711.0177817	710000	504822625
Chromium (hexavalent & compounds)	9.908684445	43000000	426073431.1
Benzo[a]pyrene	500.3090086	710000	355219396.1
Phenanthrene	279.8511702	710000	198694330.8
Beryllium	12.42167051	8600000	106826366.4
Ammonia	2517005.139	35	88095179.87
1,3-Butadiene	740.0423961	110000	81404663.57
Naphthalene	6313.022494	12000	75756269.93
Hydrogen Sulfide	12321.35516	1800	22178439.29
Acetaldehyde	1392.032749	7900	10997058.72
Manganese	474.3317752	12000	5691981.302
Diethanolamine	1777.82487	1200	2133389.844

1 Total amount of chemical released across California refineries

2 Proportional numerical weight given to each chemical based on chronic adverse health outcomes

3 Total chemical release multiplied by the toxicity weight

<https://www.epa.gov/rsei/rsei-toxicity-weights>

Candidates for air monitoring based on both emissions and toxicity considerations

Acetaldehyde

Ammonia

Benzene

1,3-butadiene

Cadmium

Diethanolamine

Formaldehyde

Hydrogen fluoride

Hydrogen sulfide

Manganese

Naphthalene

Nickel

Nitrogen oxides

PAHs

PM (10 and 2.5)

Sulfur dioxide

Sulfuric acid

Toluene

Conclusions

- ▶ The report identifies 188 chemicals emitted from California refineries, although there are large variations in the frequency, amounts and toxicity of the emitted chemicals.
- ▶ There is generally good information for understanding the toxicity of the identified emitted chemicals
- ▶ All of the chemicals with routine emissions greater than 10,000 pounds per year statewide (14 chemicals) have an OEHHA Reference Exposure Level (REL)*
- ▶ OEHHA did not attempt to determine whether or how often these exposure levels may have been exceeded in areas near refineries.

*OEHHA does not have a REL for particulate matter (PM) or for categories of chemicals (VOCs, PAHs, etc)

Conclusions cont.

- ▶ With respect to accidental releases, OEHHA has identified several emitted chemicals of particular concern: benzene, formaldehyde, hydrogen sulfide, PM, sulfur dioxide, sulfuric acid, and toluene.
 - ▶ These chemicals have several health guidance values and emergency exposure levels, with low acute RELs indicative of relatively high acute toxicity.
 - ▶ Several of these chemicals are also involved in multiple refinery processes, increasing the chance that exposure could occur because of an accident or process upset.
 - ▶ These chemicals are also of interest for potential air monitoring because they all have high routine emissions (greater than 10,000 lbs/year).

Conclusions cont.

- ▶ California criteria air pollutants with high routine and non-routine emissions are: **sulfur dioxide, nitrogen oxides, and particulate matter (PM)**.
- ▶ **Hydrogen fluoride** is a highly toxic chemical of serious concern; it is used at two refineries in California.
- ▶ The total amount released of hexavalent chromium, arsenic, and beryllium from all California refineries are all less than 100 pounds annually, making it likely very difficult to detect these in air.

Conclusions cont.

- ▶ The release of these chemicals from refineries does not necessarily mean that local communities face a significant health risk or substantial exposures, but it does **increase the likelihood of exposure** for nearby communities.
- ▶ Air monitoring of these chemicals may **inform decisions** that could reduce exposure.
- ▶ The top candidates for air monitoring are not ranked or prioritized further. An important consideration for air monitoring is that emissions of individual chemicals will vary among refineries.

THANK YOU!

Karen.Riveles@oehha.ca.gov

Report on OEHHA's webpage:

<https://oehha.ca.gov/air/analysis-refinery-chemical-emissions-and-health-effects>

CARB report:

<https://www.arb.ca.gov/fuels/carefinery/crseam/crseam.htm>

Interagency Refinery Task Force:

<https://calepa.ca.gov/refinery/>

Hydrogen Sulfide

Physical/Chemical Properties: Colorless gas with a pungent rotten egg odor. Corrosive and highly flammable.

Acute Health Effects: headache; nausea; irritation of the skin, eyes, mucus membranes, and respiratory tract; conjunctivitis with ocular pain, lacrimation, and photophobia; death from respiratory arrest

Chronic Health Effects: nasal inflammation (mice); low blood pressure, headache, nausea, loss of appetite, weight loss, ataxia, eye membrane inflammation, chronic cough

Hydrogen fluoride

– Acute 240 $\mu\text{g}/\text{m}^3$ – Respiratory system; eyes

– Chronic 14 $\mu\text{g}/\text{m}^3$

Inhalation: Bone and teeth, respiratory system;

Oral: Bone and teeth

Oral RFL 2 ($\mu\text{g}/\text{kg}/\text{day}$)

x. Hydrogen Fluoride

Hydrogen fluoride is a colorless fuming liquid or gas with a strong, pungent odor. Dissolution in water forms corrosive hydrofluoric acid, a systemic poison. Although it will not burn under typical fire conditions, this acid emits highly irritating and poisonous vapors that are corrosive to metals and body tissues when heated. Because it is corrosive to metals, hydrogen fluoride may yield hydrogen and may thus indirectly create a fire hazard. Hydrogen fluoride in air is normally found in the water vapor and particulate phases. The general population may be exposed to hydrogen fluoride in the ambient environment from industrial process emissions and coal combustion. In refineries, this chemical is used as a catalyst during alkylation or cracking and has been detected in refinery emissions and around crude units and cokers.

Short-term inhalation of hydrogen fluoride can lead to severe respiratory damage (irritation and fluid accumulation in the lung), lacrimation (tearing), sore throat, cough, chest tightness, and wheezing. Due to the ability of the fluoride ion to penetrate tissues, some health effects may be delayed for one to two days after exposure. Breathing high levels of the gas or in combination with dermal exposure may be fatal due to pulmonary edema (fluid accumulation in the lung) and bronchial pneumonia. People with cardiopulmonary disease may be particularly vulnerable to lower airway irritation at high concentrations. The most sensitive endpoint for short-term inhalation exposure to hydrogen fluoride is eye, nose, and throat irritation, which was observed in an inhalation study of healthy, male volunteers after one hour of exposure to concentrations of 0.20.6 mg/m³. After time and dose adjustments and consideration of uncertainties, OEHHA established an acute REL of 240 µg/m³ to protect individuals from these effects.

Long-term exposure to low levels of hydrogen fluoride has been linked to congestion and irritation of the nose, throat, and bronchi. Liver and kidney damage has also been noted. Exposure to higher levels has been associated with increased bone density (skeletal fluorosis). This was observed in a study on fertilizer plant workers chronically exposed to an average of 0.14 mg/m³ hydrogen fluoride. In this study, OEHHA determined the point of departure for increased bone density to be 1.13 mg/m³, which served as the basis of the chronic REL of 14 µg/m³. Because fluorides may contaminate food and drinking water, OEHHA has also developed a chronic oral REL for hydrogen fluoride, based on the dental fluorosis observed in the inhabitants of several US cities exposed via drinking water. A point of departure of 0.82 mg/m³ at which the incidence of moderate to severe dental fluorosis was considered to be rare among the population was used to calculate the chronic oral REL of 40 µg/kg-day. Dental fluorosis has additionally been noted in children after maternal exposure to high levels during pregnancy.



CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY REGULATED SITE PORTAL

Thanks to: Jim Bohon, Project Sponsor
Retired Assistant Secretary

<https://siteportal.calepa.ca.gov/nsite/>

- Combines data about environmentally regulated sites and facilities in California into a single, searchable database and interactive map

- Combines a variety of state and federal databases across the spectrum of environmental programs for any given location in California.
 - *Including hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials.*

Map Based Viewer



About Site Portal Manager

CalEPA Regulated Site Portal

Enter keywords...

Home 233971 sites found

Results Filter Export Legend

Getting Started

To find the site you're looking for, you can:

Use the Search Bar above

Enter any identifying information into the search bar above, and both the Results list and the map will populate with any relevant results.

OR

Manipulate the Map

Focus in on a specific location using the move and zoom tools, and you will see both a visual representation, and items in the Results list, for all sites in the area you specify.

Additional Help

Simple Search

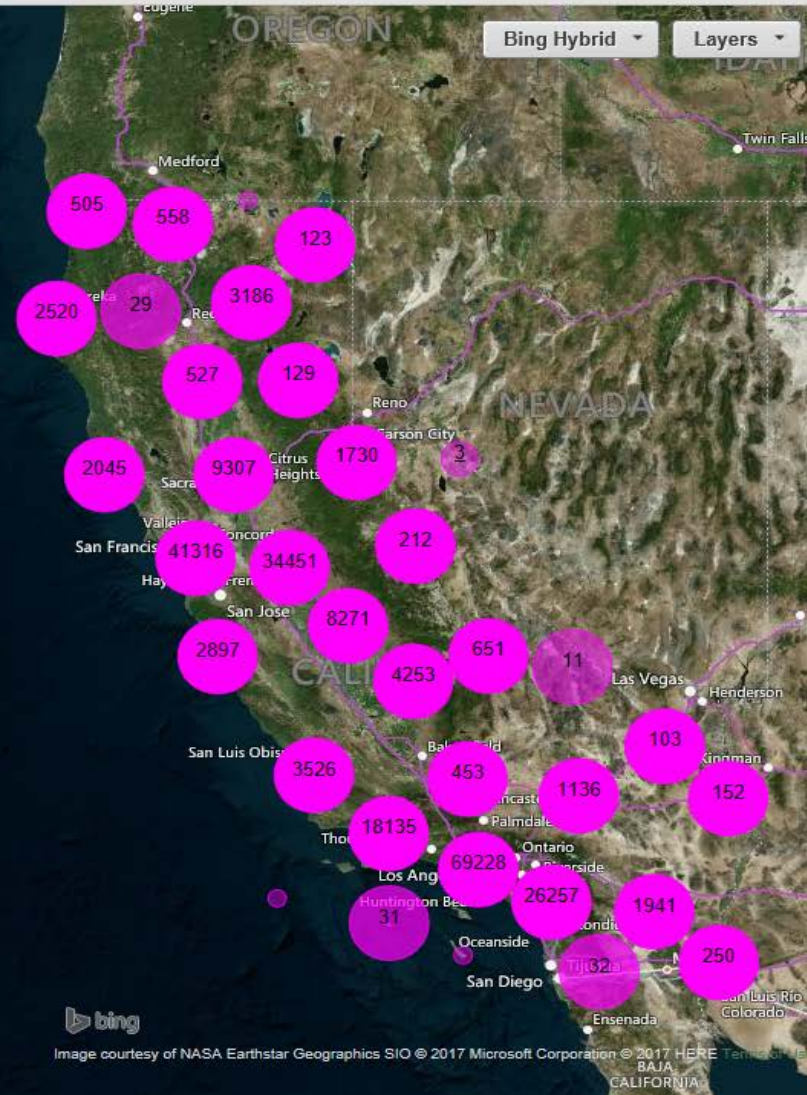
Enter any text into the keyword search, or use the map and/or filters to find sites and environmental interests.

Filter

Items listed under the Filter tab limit your search results to the selected items. Filtering is applied in addition to the search string you define in the search box.

Export

Use the export function to download data



About Tab



About

Site Portal

Manager

CalEPA Regulated Site Portal

Background

The CalEPA Regulated Site Portal is a website that combines data about environmentally regulated sites and facilities in California into a single, searchable database and interactive map. The portal was created to provide a more holistic view of regulated activities statewide. By combining data from a variety of state and federal databases, the portal provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials. ([More](#))

Data Sources

The portal combines information from the databases listed below. Additional data sources may be added in the future.

CERS - The California Environmental Reporting System was developed by CalEPA to support the reporting of information by regulated businesses and Certified Unified Program Agencies (CUPAs) pertaining to hazardous materials and hazardous waste throughout the state.

EnviroStor - This system is used by the Department of Toxic Substances Control to track permitting, enforcement and cleanup activities at hazardous waste facilities and sites with known or suspected contamination.

GeoTracker - Developed for the State Water Resources Control Board, this database contains information about impacted groundwater sites within the state, such as leaking underground storage tanks, cleanup sites, and permitted facilities such as landfills and operating underground storage tanks facilities.

CIWQS - The California Integrated Water Quality System (CIWQS) was developed by the State Water Board to manage permitting, compliance and enforcement activities related to sites which discharge to surface water (or otherwise affect surface water quality) throughout the state.

TRI - The Toxics Release Inventory (TRI) is a federal database that contains detailed information on nearly 650 chemicals and chemical categories that over 1,600 industrial and other facilities in the state manage through disposal or other releases, recycling, energy recovery, or treatment. The data are collected from these facilities by the U.S. Environmental Protection Agency

Report an Issue or Error

CalEPA and its agencies work together to ensure the information on this website is accurate and up to date. If you believe that you have identified an error or if data appears to be missing, please let us know by following the steps below. We are grateful for your feedback. If you would like a response, please be sure to include your name and phone number or email address.

1. Go to the facility where you first identified the problem.
2. Look at the detail under Regulatory Programs to identify the Source System.
3. Find that Source System contact information below.
4. If you are communicating by email, please include the facility name, a screen shot, or any other information that you believe will help research the problem.

California Environmental Reporting System:

cers@calepa.ca.gov

California Integrated Water Quality System:

[1-866-79-CIWQS](tel:1-866-79-CIWQS) or ciwqs@waterboards.ca.gov

EnviroStor Cleanup:

[1-877-7TOXICS \(1-877-786-9427\)](tel:1-877-7TOXICS) or envirostor@dtsc.ca.gov

EnviroStor Hazardous Waste:

[1-877-7TOXICS \(1-877-786-9427\)](tel:1-877-7TOXICS) or envirostor@dtsc.ca.gov

GeoTracker:

[1-866-480-1028](tel:1-866-480-1028) or geotracker@waterboards.ca.gov

Toxic Release Inventory:

<http://www.epa.gov/toxics-release-inventory-tri-program>

Frequently Asked Questions

Warehouse Statistics

Show Statistics For:

Aboveground Petroleum Storage	1626
Agriculture Discharge	68
Animal Wastewater Discharge	101
Chemical Storage Facilities	14157
Cleanup Program Site	159
Corrective Action	22
Forestry & Silviculture	135
Hazardous Chemical Management	373
Hazardous Waste	42
Hazardous Waste Generator	9883
Hazardous Waste Onsite Treatment	225
Household Hazardous Waste Collection	44
Land Disposal	49
Land Disposal Site	25
Leaking Underground Storage Tank Cleanup Site	303
Military Cleanup Site	193
Military Privatized Site	3
Military Underground Storage Tank Site	71
NPDES Wastewater and Stormwater	96
RCRA LQ HW Generator	690
School Cleanup	1
School Investigation	7
Sewager Spills	4
State Response	26
Tanks & Ground Water Clean Up	2
Toxic Release Inventory	53
Underground Storage Tank	2454
Unregulated	28
Waste Discharge Requirements	75
Wetlands - Fill and Dredge Material	137

Data Sources



CERS: The California Environmental Reporting System was developed by CalEPA to support the reporting of information by regulated businesses and Certified Unified Program Agencies (CUPAs) pertaining to hazardous materials and hazardous waste throughout the state.



EnviroStor: Developed for DTSC by EcoInteractive, this database contains information pertaining to state and federally listed cleanup sites, along with hazardous waste permitted and corrective action facilities.



GeoTracker: Developed for the Water Board by EcoInteractive, this database contains information pertaining to impacted groundwater sites within the state, such as leaking underground storage tanks, cleanup sites, and permitted facilities such as landfills and operating underground storage tanks facilities.

Data Sources



California Integrated Water Quality
System Project (CIWQS)

CIWQS: California Integrated Water Quality System was developed by the Water Board to manage permitting, compliance and enforcement activities related to sites which discharge to surface water (or otherwise affect surface water quality) throughout the state.



TRI: The Toxics Release Inventory is a federal database that contains detailed information on nearly 650 chemicals and chemical categories that over 1,600 industrial and other facilities in the state manage through disposal or other releases, recycling, energy recovery, or treatment. The data are collected from these facilities by US EPA. The collected data is exchanged to CalEPA and updated automatically through the CalEPA exchange node.

General Searching

The screenshot displays the CalEPA Regulated Site Portal interface. At the top left, the CalEPA logo is visible. Below it, there are navigation tabs for 'About' and 'Site Portal', with a red arrow pointing to the 'Site Portal' tab. The main search area contains a search bar with the text 'Powder Coating' and a magnifying glass icon. Below the search bar, it indicates '654 sites found'. There are buttons for 'Results', 'Filter', 'Export', and 'Legend'. Below the search area, there is a yellow bar with the text 'Show sites with no location'. The left sidebar contains a list of search results, including:

- APMD Powder Coating
- PORTER POWDER COATING INC
- Progressive powder coating
- DAYTEC POWDER COATING
- Santa Clara Powder Coating, Inc
- Maas Brother Powder Coating
- HotCoats Powder Coating
- American Powder Coating Company
- POWDER TECHNOLOGY
- Pac Powder Inc - dba Pacific Powder Coating
- WEST COAST POWDER COATING
- US POWDER COATING, INC
- MODULAR OFFICE SYSTEM POWDER COATING
- RAINBOW POWDER COATING
- AR Powder Coating
- PRECISION POWDER COATING
- J R POWDER COATING
- Rainbow Powder Coating
- Champion Powder Coating
- A&I POWDER COATING

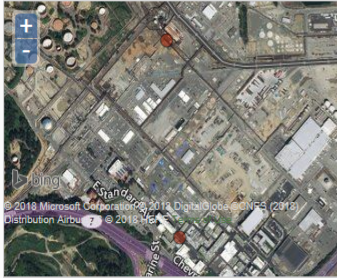
The main map area shows a satellite view of California with numerous pink circular markers indicating the locations of the search results. The markers are labeled with numbers, such as 28, 7, 3, 11, 10, 120, 261, and 45. The map includes various geographical features, cities, and highways. The top right corner of the map area shows 'CalEPA Regulated Site Portal', 'Bing Hybrid', and 'Layers'.

Facility Profile



Profile | Map | Compliance (65) | Chemical Storage (951)

CHEVRON RICHMOND REFINERY 841 CHEVRON WAY, RICHMOND, CA 94802



Alternate IDs

Dun & Bradstreet Number: 009114919
Facility Identifier: 07-000-770937
Regional Water Board Case Number: 07S0151
Facilities Explorer ID: 104873
EPA Identifier: CAD009114919

Industry Codes

SIC: 2911 - Petroleum refining
NAICS: 32411 - Petroleum Refineries

Geopolitical Data

County: Contra Costa County
CalEnviroScreen 2.0 Percentile Range: 61-65%

Regulatory Programs

Chemical Storage Facilities 1

Environmental Interest Start Date: 7/10/2013
Last Inspected: 1/24/2018
Source System: California Environmental Reporting System
Source System ID: 10010575

Underground Storage Tank 1

Hazardous Waste Onsite Treatment 1

Aboveground Petroleum Storage 1

Hazardous Chemical Management 1

Cleanup Program Site 1

Hazardous Waste Generator 1

RCRA LQ HW Generator 1

Affiliates

Filter By: All Regulatory Programs

Regional Board Caseworker: ALAN FRIEDMAN - SAN FRANCISCO BAY RWQCB (REGION 2)

Contact Details

Operator: CHEVRON PRODUCTS CO

Contact Details

Search: chevron richmond
22 sites found

Map Location
Chevron Richmond Refinery, CA

Show sites with no location

- Chevron Richmond Technology Center, Bldg #35
- CHEVRON RICHMOND REFINERY - Land Disposal Areas
- CHEVRON RICHMOND REFINERY**
- CHEVRON RICHMOND TECHNOLOGY CENTER
- Chevron Richmond Refinery - RCRA/LNDISP/TANKS/TPCA/SLIC/Long Wharf Dredging
- CHEVRON PRODUCTS CO RICHMOND REFINERY
- CHEVRON RESEARCH & TECH COMPANY
- Chevron Pipeline Company - Richmond Pump Station
- CHEVRON GLOBAL LUBRICANTS/RICHMOND PLANT
- Richmond-SR Bridge Retrofit
- Chevron Products Company - Richmond Terminal
- CHEVRON USA INC RICHMOND REFINERY
- POINT RICHMOND GAS HOLDER (FORMER)

Chemical Storage

Search chevron richmond
Home 22 sites found

Results Filter Export Legend

Map Location

Chevron Richmond Refinery, CA

Show sites with no location

Chevron Richmond Technology Center, Bldg #35

CHEVRON RICHMOND REFINERY - Land Disposal Areas

CHEVRON RICHMOND REFINERY

CHEVRON RICHMOND TECHNOLOGY CENTER

Chevron Richmond Refinery - RCRA/LN/ISP/TANKS/TPCA/SLIC/Long Wharf Dredging

CHEVRON PRODUCTS CO RICHMOND REFINERY

CHEVRON RESEARCH & TECH COMPANY

Chevron Pipeline Company - Richmond Pump Station

CHEVRON GLOBAL LUBRICANTS/RICHMOND PLANT

Richmond-SR Bridge Retrofit

Chevron Products Company - Richmond Terminal

CHEVRON USA INC RICHMOND REFINERY

POINT RICHMOND GAS HOLDER (FORMER)

CHEVRON RICHMOND REFINERY 841 CHEVRON WAY, RICHMOND, CA 94802

Profile

Map

Compliance (65)

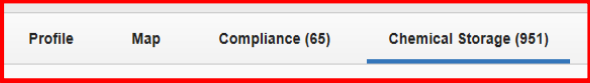
Chemical Storage (951)

There are too many results to display, the top 100 records are shown below, use the Search Chemicals text box below to refine your search results.

butane Search Chemicals

REPORT PERIOD: 2017
SUBMITTED 3/7/2018

CHEMICAL NAME	CAS NUMBER	HAZARD LABEL	AVERAGE DAILY AMOUNT RANGE
▶ BUTANE	undefined		> 10000000 Pounds
▶ Butane blending stock	undefined		1000-4999 Pounds
▶ BUTANE-BUTYLENE (UNODORIZED)	undefined		600-1199 Gallons
▶ Flammable Gas Mixture Carbon Dioxide / Ethane / Hexane / Isobutane / Isopentane / Methane / N-Butane / N-Pentane / Neopentane / Nitrogen / Propane	undefined		0-2599 Cubic Feet
▶ Isobutane	undefined		1000000-9999999 Pounds
▶ ISOBUTANE	75-28-5		9000-11999 Gallons
▶ Isobutane,n-Butane, propane,n-pentane	undefined		0-2599 Cubic Feet
▶ Mixed Butane (Unodorized)	undefined		0-99 Pounds
▶ Normal Butane (Unodorized)	undefined		1000000-9999999 Pounds



Compliance History

site_name:"sac cogeneration" 2 sites found

Results Filter Export Legend

- Regulatory Agencies
- Originating Data System
- Regulatory Programs
- Evaluation Type
- Enforcement Type
- Site County
- CUPA Jurisdiction
- Has Violation YN

SAC COGENERATION AUTHORITY II 5000 83RD ST, SACRAMENTO, CA 95826

Profile Map **Compliance (12)** Chemical Storage (1)

Time Frame: All years Expand/Collapse All

Evaluations

10/22/2014 California Accidental Release Prevention (CalARP) - Compliance Evaluation Inspection

Type: Routine done by local agency
Notes: OBSERVATION: Maintenance procedures have been prepared and implemented for the covered process, however, a select number of the maintenance procedures were observed to be vague and lacking detail. RECOMMENDATION: Revise the select number of maintenance procedures identified during the inspection to include added detail.

11/1/2013 Aboveground Petroleum Storage Act (APSA) - Other/Unknown

Type: Other, not routine, done by local agency

11/1/2013 Hazardous Materials Release Response Plans (HMRRP) - Compliance Evaluation Inspection

11/1/2013 Hazardous Waste Generator - Compliance Evaluation Inspection

Violations

11/1/2013 Hazardous Waste Generator - Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten huma...

Citations:
• 22 CCR 15 66265.31: California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31

Notes: Returned to compliance on 11/07/2013. OBSERVATION: Spent blast media was observed on the floor under the parts blaster unit in the maintenance shop. Metal fines were observed on the floor around the metal grinding unit in the maintenance shop. Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. CORRECTIVE ACTION: Submit photos/documentation demonstrating the wastes observed above have been properly removed, characterized, and managed.

11/1/2013 Hazardous Waste Generator - Failure of the generator to adequately complete, and maintain for review, the following requirements of the source reduction report (SB-14): 1) The name and location of the site, 2) Telephone number, 3) Identification Number, 4) The SIC Code, 5) L...

11/1/2013 Hazardous Waste Generator - Failure of the generator to prepare a summary progress report (Form # 1262 titled, "Summary Progress Report") and submit it to the Department of Toxic Substances Control every four years thereafter.

11/1/2013 Hazardous Materials Release Response Plans (HMRRP) - Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.

Citations:
• 19 CCR 4 2729.2(a)(2): California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(2)
• HSC 6.95 25504(a): California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)

Notes: Returned to compliance on 11/05/2013. OBSERVATION: The business failed to complete and submit chemical inventory forms for gear oil and used stored on site. CORRECTIVE ACTION: The chemical inventory forms were completed and submitted online through the EMD portal at the time of the inspection. No further action is required.

11/1/2013 Hazardous Waste Generator - Failure of the generator to prepare a hazardous waste management performance report every four years. The report shall contain sufficient detail to convey an understanding of the hazardous waste management approaches used at the site, using narratives,...

11/1/2013 Hazardous Waste Generator - Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.

Enforcement Actions

11/1/2013 Hazardous Materials Release Response Plans (HMRRP) - Notice of Violation

Type: Notice of Violation (Unified Program)

11/1/2013 Hazardous Waste Generator - Notice of Violation

Filtering Display

- Regulatory Programs

The screenshot shows the CalEPA website interface. At the top, there is a search bar with the text "Enter keywords...". Below the search bar, it says "Home" and "236205 sites found". There are four buttons: "Results", "Filter", "Export", and "Legend". The "Filter" button is highlighted in green. Below the buttons, there is a dropdown menu for "Originating Data System". Underneath, there is a list of checkboxes for various regulatory programs, including "California Environmental Reporting System", "California Integrated Water Quality System", "EnviroStor Cleanup", "EnviroStor Hazardous Waste", "GeoTracker", "Toxic Release Inventory", "Aboveground Petroleum Storage", "Agriculture Discharge", "Animal Wastewater Discharge", "Chemical Storage Facilities", "Cleanup Program Site", "Corrective Action", "Department Of Defense", "Forestry & Silviculture", "Hazardous Chemical Management", "Hazardous Waste", "Hazardous Waste Generator", "Hazardous Waste Onsite Treatment", "Household Hazardous Waste Collection", "Land Disposal", "Land Disposal Site", "Leaking Underground Storage Tank Cleanup Site", "Military Cleanup Site", and "Military Privatized Site".

- Evaluation Type

The screenshot shows the CalEPA website interface. At the top, there is a search bar with the text "Enter keywords...". Below the search bar, it says "Home" and "203648 sites found". There are four buttons: "Results", "Filter", "Export", and "Legend". The "Filter" button is highlighted in green. Below the buttons, there is a dropdown menu for "Evaluation Type". Underneath, there is a list of checkboxes for various evaluation types, including "AGT SPCC Inspection", "Complaint Inspection", "Compliance", "DTSC Case Development Inspection", "DTSC Compliance Evaluation Inspection", "DTSC Financial Records Review", "DTSC Focused Compliance Inspection", "DTSC Follow-up Inspection", "DTSC Groundwater Monitoring Evaluation", "DTSC Non-financial Record Review", "DTSC Operation and Maintenance Inspection", "Facility Self Disclosure to DTSC", "Field Oversight", "Follow-up inspection (enforcement)", "Follow-up Inspection (noncompliance)", "Miscellaneous Inspection", "Municipal Storm Sewer Audit", "Notice of Termination Inspection", "Other, not routine, done by local agency", "Pre-harvest Inspection", "Pre-project Timber Program Inspection", "Prerequisite inspection", "Pretreatment compliance", "Routine done by local agency", "RWQCB Type A compliance inspection", and "RWQCB Type B compliance inspection".

- Enforcement Type

The screenshot shows the CalEPA website interface. At the top, there is a search bar with the text "Enter keywords...". Below the search bar, it says "Home" and "236205 sites found". There are four buttons: "Results", "Filter", "Export", and "Legend". The "Filter" button is highlighted in green. Below the buttons, there is a dropdown menu for "Enforcement Type". Underneath, there is a list of checkboxes for various enforcement types, including "Administrative Enforcement with Penalty", "AEO - Local Ordinance", "AEO - Unified Program", "Cease and Desist Order", "Clean-up and Abatement Order", "Compliance Order with a Schedule", "Criminal Conviction", "Enforcement Dismissed", "Enforcement Letter (Formal)", "Enforcement Order issued", "Expedited Payment Letter", "Federal Consent Order for Multiple Sites", "Federal Consent Order with Enforcement and Settlement", "Final Administrative Settlement", "Final Civil / Judicial Action", "Formal Refer to Attorney Gen", "Imminent/Substantial Endangerment Order", "Initial Civil Filing with Attorney General", "Injunctive Relief", "Notice of Violation (Unified Program)", "Notice of Violation (Water)", "Notice to Comply (Minor Violations)", "Oral Communication", "Referral to County Council or City Attorney", "Referral to District Attorney", "Referral to Federal Agency", "Referral to Other", "Referral to Other Agency", "Referral to State Agency", and "Referral to State Attorney General".

Export

The screenshot shows a web browser window with the URL <https://sitepo>. The page header includes the CalEPA logo and navigation tabs for "About" and "Site Portal". A search bar contains the text "chevron richmond r". Below the search bar, it indicates "Home" and "22 sites found". A navigation menu includes "Results", "Filter", "Export" (highlighted in green), and "Legend".

The main content area is divided into two sections: "Site" and "Compliance".

Site

- Sites** [Export](#)
Export a CSV file containing information for the current sites.
- Site Regulated Programs** [Export](#)
Export a CSV file containing all site regulated programs for the current sites.
- Affiliations** [Export](#)
Export a CSV file containing all affiliations (i.e., contacts and organizations) for the current sites.
- Coordinates** [Export](#)
Export a CSV file containing all sites containing multiple coordinates. This does not include facilities with their primary coordinate.

Compliance

- Evaluations** [Export](#)
Export a CSV file containing facilities with evaluations (e.g., inspections) for the current sites.
- Violations** [Export](#)
Export a CSV file containing facilities with violations for the current sites.
- Enforcements** [Export](#)
Export a CSV file containing facilities with enforcement actions for the current sites.

Multiple Regulatory Programs

site_name:"carlmont"
Home 2 sites found

Results Filter Export Legend

- Regulatory Agencies
- Originating Data System
- Regulatory Programs
- Evaluation Type
- Enforcement Type
- Site County
- CUPA Jurisdiction
- Has Violation YN

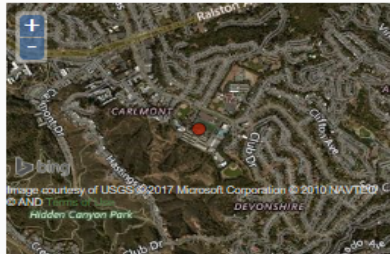
CARLMONT HIGH SCHOOL 1400 ALAMEDA DE LAS PULGAS, BELMONT, CA 94002

Profile

Map

Compliance (5)

Chemical Storage (5)



Alternate IDs

APN: 045-071-020
APN: 045071020
Facilities Explorer ID: 179873
Regional Water Board Case Number: 41-0112
Local Agency Case Number: 770020
EPA Identifier: CAD981984927
Facility Identifier: FA0055774

Industry Codes

NAICS: 611110 - Elementary and Secondary Schools

Geopolitical Data

County: San Mateo County
CalEnviroScreen 2.0 Percentile Range: 11-15%

Regulatory Programs

- Leaking Underground Storage Tank Cleanup Site
- School Investigation
- Hazardous Waste Generator
- Chemical Storage Facilities

Affiliates

Filter By: All Regulatory Programs

Parent Corporation: CARLMONT HIGH SCHOOL [Contact Details](#)

Lead Project Manager: HAROLD (BUD) DUKE [Contact Details](#)

Local Agency Caseworker: JACOB MADDEN - SAN MATEO COUNTY LOP [Contact Details](#)

Document Preparer, Environmental Contact, Identification Signer, Primary Emergency Contact: Jerome Harris [Contact Details](#)

Supervisor: JUAN KOPONEN [Contact Details](#)

Facility Mailing Address: Mailing Address [Contact Details](#)

Regional Board Caseworker: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2) [Contact Details](#)

Live Link to Source System



STATE WATER RESOURCES CONTROL BOARD GEOTRACKER



Tools

Reports

UST Case Closures

Information



CARLMONT HIGH SCHOOL (T0608100106) - [\(MAP\)](#)

[SIGN UP FOR EMAIL ALERTS](#)

1400 ALAMEDA DE LAS PULGAS
BELMONT, CA 94002
SAN MATEO COUNTY
LUST CLEANUP SITE

[PRINTABLE CASE SUMMARY](#) / [CSM REPORT](#)

CLEANUP OVERSIGHT AGENCIES

SAN MATEO COUNTY LOP (**LEAD**) - CASE #: 770020

CASEWORKER: [JACOB MADDEN](#)

SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 41-0112

CASEWORKER: [Regional Water Board](#)

[Summary](#) [Cleanup](#) [Action Report](#) [Regulatory Activities](#) [Environmental Data \(ESI\)](#) [Site Maps / Documents](#) [Community Involvement](#) [Related Cases](#)

Regulatory Profile

[PRINTABLE CASE SUMMARY](#)

CLEANUP STATUS - [DEFINITIONS](#)

COMPLETED - CASE CLOSED AS OF 1/28/2000 - [CLEANUP STATUS HISTORY](#)

POTENTIAL CONTAMINANTS OF CONCERN

GASOLINE

FILE LOCATION

LOCAL AGENCY WAREHOUSE

DWR GROUNDWATER SUB-BASIN NAME

Santa Clara Valley - San Mateo Plain (2-9.03)

POTENTIAL MEDIA OF CONCERN

OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)

USER DEFINED BENEFICIAL USE

GW - GROUNDWATER RECHARGE

DESIGNATED BENEFICIAL USE(S) - [DEFINITIONS](#)

MUN

CALWATER WATERSHED NAME

South Bay - San Mateo Bayside (204.40)

Site History

No site history available

Live Link to Source System

CARLMONT HIGH SCHOOL MUSIC BUILDING (60001056)

[SIGN UP FOR EMAIL ALERTS](#)

1400 ALAMEDA DE LAS PULGAS
BELMONT, CA 94002
SAN MATEO COUNTY
SITE TYPE: SCHOOL

PROJECT MANAGER: [HAROLD \(BUDD\) DUKE](#)
SUPERVISOR: JUAN KOPONEN
OFFICE: NORTHERN CALIFORNIA SCHOOLS & SANTA SUSANA
SCHOOL DISTRICT: SEQUOIA UNION HIGH SCHOOL DISTRICT

[Summary](#) [Activities](#) [Map](#) [Related Sites](#)

Site Information

CLEANUP STATUS
INACTIVE - ACTION REQUIRED AS OF 10/6/2010

SITE TYPE: SCHOOL
NATIONAL PRIORITIES LIST: NO
ACRES: 1.74 ACRES
APN: 045-071-020, 045071020
CLEANUP OVERSIGHT AGENCIES:
DTSC - SITE CLEANUP PROGRAM - **LEAD**

SCHOOL DISTRICT: SEQUOIA UNION HIGH SCHOOL DISTRICT
ENVIROSTOR ID: 60001056
SITE CODE: 204230
SPECIAL PROGRAM:
FUNDING: SCHOOL DISTRICT
ASSEMBLY DISTRICT: 22
SENATE DISTRICT: 13

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
SCHOOL - HIGH SCHOOL

POTENTIAL CONTAMINANTS OF CONCERN
CHLORDANE
DDT
UNDER INVESTIGATION
NATURALLY OCCURRING ASBESTOS (NOA)

POTENTIAL MEDIA AFFECTED
UNDER INVESTIGATION

Site History

The district is planning to construct a new music and art building at the location of the current music building, which is scheduled for demolition. The new building will be an approximate 7,600 square foot three story building. It will be located on the west side of the newly constructed performing arts building.

During the review of the Phase I, the District contacted DTSC with plans to demolish the building, prior to the completion of the Phase I review by DTSC. The DTSC Project Manager advised the consultant on sampling requirements before and after building demolitions. The District elected to conduct limited sampling under a Phase I Addendum, prior to DTSC's review of the Phase I.

Following receipt of the Phase I Addendum Data, DTSC contacted the District to notify them that, although the Phase I addendum addressed concerns for OCPs and lead around the building, a PEA would be required for potential Naturally Occurring Asbestos. On April 7, 2009, the District elected to withdraw from the DTSC process, forego the PEA for NOA, and drop the project.

In September of 2009, the District decided to re-open the project, and entered into an EOA with DTSC on September 16, 2009. DTSC agreed to use geotech boring samples along with one additional location for NOA analysis.

On March 3, 2010, the District requested DTSC to drop the site as it decided not to pursue State funds for the project. Consequently, DTSC issued a Inactive Status letter on March 4, 2010, and closed the project as Inactive - Action Required.

A CRU was mailed on 9/29/10

Live Link to Source System

[Search](#) [Map](#) [List](#) [Legend and Info](#)

FACILITY REPORT



CHEVRON PRODUCTS CO RICHMOND REFINERY

Toxics Release Inventory ID = 94802CHVRN841ST

841 CHEVRON WAY, RICHMOND, CALIFORNIA 94801

Industry: Petroleum

CONTEXT

County

26% of TRI releases in CONTRA COSTA, CA

33 TRI facilities in CONTRA COSTA, CA

National

Ranks 30 out of 602 TRI facilities in Industry: Petroleum

(Rank 1 = highest releases)

ON SITE RELEASES TOTALS

Information Security Issues

Worked With:

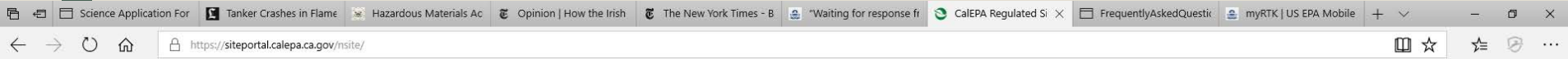
- Department of Homeland Security
 - *Critical Infrastructure Directorate*
 - *Chemical Facility Anti-Terrorism Standards (CFATS)*
- CalOES Infrastructure Protection
- Chemical Industry Council of California
- Dow Chemical
- AT&T
- CCEEB
- California Cable & Telecommunications Association
- Metropolitan Water District of Southern California

Live Demo

<https://siteportal.calepa.ca.gov>

For Example...

Start Here



Enter keywords...

Home 214569 sites found

Results Filter Export Legend

Getting Started

To find the site you're looking for, you can:

Use the Search Bar above

Enter any identifying information into the search bar above, and both the Results list and the map will populate with any relevant results.

OR

Manipulate the Map

Focus in on a specific location using the move and zoom tools, and you will see both a visual representation, and items in the Results list, for all sites in the area you specify.

Additional Help

Simple Search

Enter any text into the keyword search, or use the map and/or filters to find sites and environmental interests.

Filter

Items listed under the Filter tab limit your search results to the selected items. Filtering is applied in addition to the search string you define in the search box.

Export

Use the export function to download data for the sites in your search results.

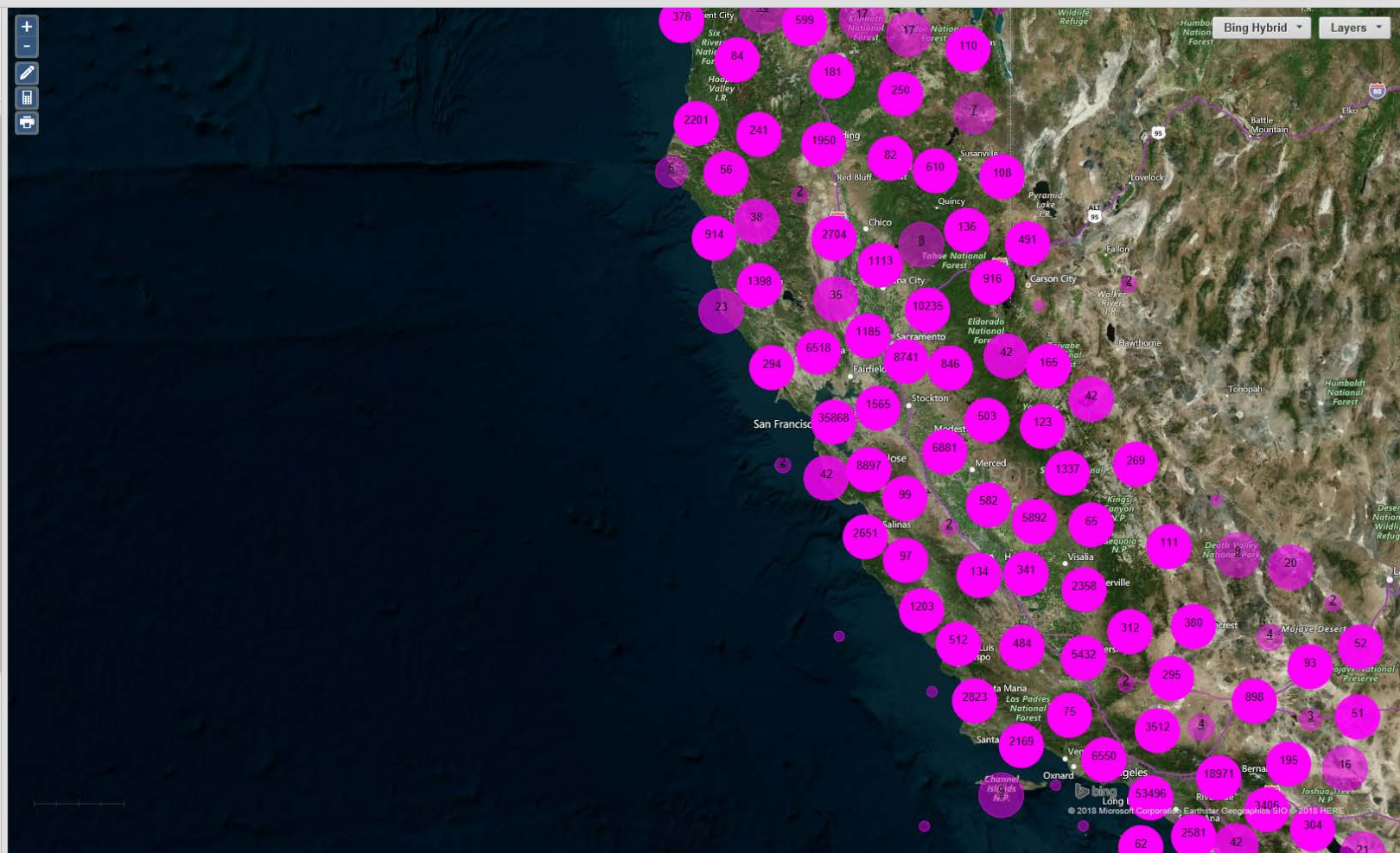
Advanced Search

Use the drop down menu in the search box for advanced search capabilities.

Enter keywords...

Advanced Search (Help?)

Site Identifier



Find the Right Location

Torrance Refinery

Home 1268 sites found

Results Filter Export Legend

Map Location
Torrance, CA

Show sites with no location

ExxonMobil Corporation, Torrance Refinery

Torrance Refinery Company LLC

FORMER MOBIL TORRANCE REFINERY

Torrance Refinery

TEXACO REFINERY & MK

TEXACO REFINERY & MKTG/BAKERSFIELD REF

Torrance City CS

Ultramar Inc, Wilmington Refinery

PHILLIPS 66 LOS ANGELES REFINERY WILMINGTON PLANT

Torrance Pipeline Company LLC - Torrance Meters

ALON PETROLEUM BAKERSFIELD REFINERY AREA 3

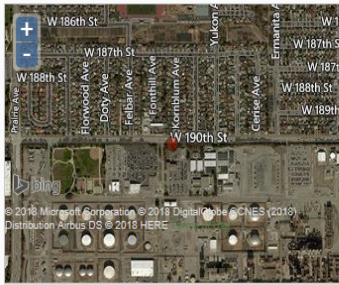
GOLDEN WEST REFINERY

VALERO REFINING CO-CALI FORNIA BENICIA REFINERY

PHILLIPS 66 CO-SANTA MARIA REFINERY

REFINERIES SERVICE/BAKERSFIELD

TORRANCE REFINERY 3700 W 190TH ST # 1, TORRANCE, CA 90504 Profile Map Compliance (29) Chemical Storage (837)



Alternate IDs

Dun & Bradstreet Number: 080210798
Facilities Explorer ID: 404158
EPA Identifier: CAD008354052
Facility Identifier: LACoFA0034377

Industry Codes

SIC: 2911 - Petroleum refining
NAICS: 324110 - Petroleum Refineries

Geopolitical Data

County: Los Angeles County

Regulatory Programs

Chemical Storage Facilities

Hazardous Waste Onsite Treatment

Aboveground Petroleum Storage

Hazardous Chemical Management

Hazardous Waste Generator

RCRA LQ HW Generator

Affiliates

Filter By: All Regulatory Programs

Secondary Emergency Contact: ALEX HOLT

Contact Details

Onsite Treatment Unit Owner Operator: C. Brian Ablett

Contact Details

Document Preparer, Onsite Treatment Unit Owner Operator: Diane Lynch

Contact Details

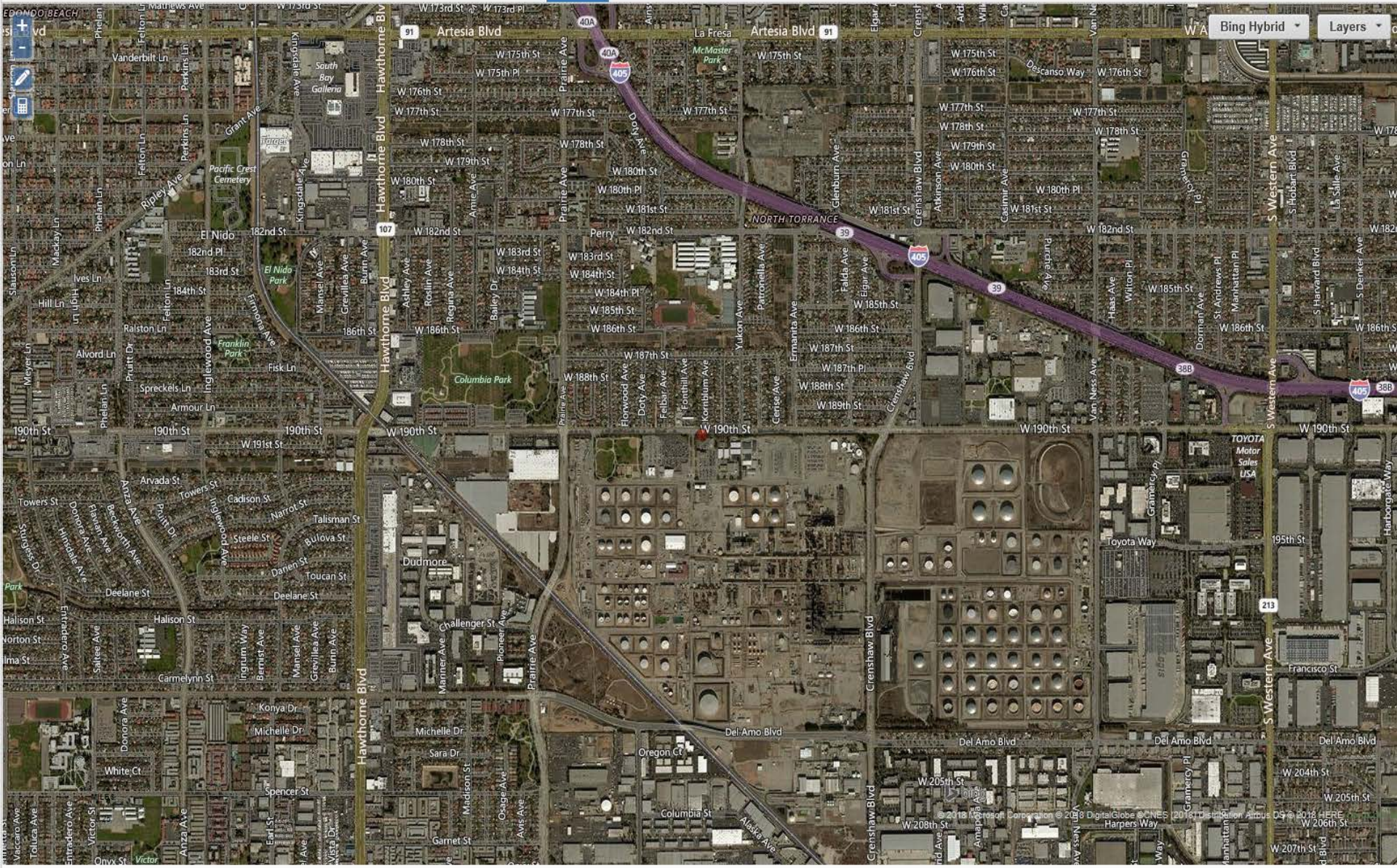
Onsite Treatment Unit Owner Operator: E Pablo Borgnino

Contact Details

Identification Signer, Primary Emergency Contact: JOE ALVAREZ

Contact Details

Visualize



What Do You Want To Know?

TORRANCE REFINERY 3700 W 190TH ST # 1, TORRANCE, CA 90504

Profile

Map

Compliance (29)

Chemical Storage (837)



There are too many results to display, the top 100 records are shown below, use the Search Chemicals text box below to refine your search results.

REPORT PERIOD: 2016
SUBMITTED 10/4/2017

CHEMICAL NAME	CAS NUMBER	HAZARD LABEL	AVERAGE DAILY AMOUNT RANGE
▶ 80/20 OCTANE/HEPTANE			0-11 Gallons
▶ ACID SOLUBLE OIL AND RESIDUAL HF (UN-NEUTRALIZED ASO)		Fire	500-999 Pounds
▶ AER-O-LITE 3% COLD FIRE FIGHTING FOAM (AFFF)			6000-8999 Gallons
▶ ALKYLATION ACID REGENERATOR OVERHEAD		Fire	1000-4999 Pounds
▶ ALKYLATION UNIT HYDROCARBON RECYCLE MIXTURE		Fire	500000-999999 Pounds
▶ ALKYLATION UNIT MAIN ACID RECYCLE MIXTURE		Fire, Sudden Release of Pressure, Reactivity	100000-499999 Pounds
▶ ALL PURPOSE CLEANER			12-59 Gallons
▶ AMMONIUM CITRATE DIBASIC 40% AQUEOUS SOLUTION			12000-59999 Gallons
▶ AMMONIUM CITRATE DIBASIC 40% AQUEOUS SOLUTION			12000-59999 Gallons
▶ BLEND ENVIREX SOLUTION ENVIREX NUTRIENT BLEND #4			600-1199 Gallons
▶ BUFFER SOLUTION PH 7.00			600-1199 Gallons
▶ CAT HYDRAULIC OIL SAE 10W			12-59 Gallons
▶ CATALYST, H2 REFORMER			1200-2999 Gallons
▶ CD-200 DEGREASER			12-59 Gallons
▶ CHEMSTAR CONCENTRATE R (FL11537)			12-59 Gallons
▶ COKE FROM COKER			120-599 Gallons
▶ COMPRESSED GAS - NITROGEN, HYDROGEN SULFIDE		Fire, Sudden Release of Pressure	0-2599 Cubic Feet
▶ COOLING TOWER WATER (NON-CHROMATE)			120000-1199999 Gallons
▶ COOLING TOWER WATER (NON-CHROMATE)			>1200000 Gallons
▶ CP 6000-220			120-599 Gallons
▶ CP 6000-220 SILICONE OIL (1002093)			0-11 Gallons
▶ DELVAC 1230			120-599 Gallons
▶ DELVAC 1230 (1176467)			0-11 Gallons
▶ DELVAC MOTOR OIL			12-59 Gallons

Is This What You Are Seeking?

TORRANCE REFINERY 3700 W 190TH ST # 1, TORRANCE, CA 90504

[Profile](#)

[Map](#)

[Compliance \(29\)](#)

[Chemical Storage \(837\)](#)

There are too many results to display, the top 100 records are shown below, use the Search Chemicals text box below to refine your search results.

Hydrogen Fluoride

REPORT PERIOD: 2016
SUBMITTED 10/4/2017

No Results were found, reset tab?

TORRANCE REFINERY 3700 W 190TH ST # 1, TORRANCE, CA 90504

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[Chemical Storage \(837\)](#)



There are too many results to display, the top 100 records are shown below, use the Search Chemicals text box below to refine your search results.

Fluoride

REPORT PERIOD: 2016
SUBMITTED 10/4/2017

CHEMICAL NAME	CAS NUMBER	HAZARD LABEL	AVERAGE DAILY AMOUNT RANGE
▶ ALUMINA FLUORIDE	13596128		1000000-9999999 Pounds
▶ SPENT CAUSTIC / FLUORIDE MIX	undefined	Reactivity	60000-119999 Gallons

Or This?

TORRANCE REFINERY 3700 W 190TH ST # 1, TORRANCE, CA 90504

[Profile](#)

[Map](#)

[Compliance \(29\)](#)

[Chemical Storage \(837\)](#)

There are too many results to display, the top 100 records are shown below, use the Search Chemicals text box below to refine your search results.

REPORT PERIOD: 2016

SUBMITTED 10/4/2017

CHEMICAL NAME	CAS NUMBER	HAZARD LABEL	AVERAGE DAILY AMOUNT RANGE
▾ FRESH MODIFIED HYDROFLUORIC ACID (FRESH ACID STORAGE DRUM)	undefined	Fire, Reactivity	75000-99999 Pounds

Common Name	FRESH MODIFIED HYDROFLUORIC ACID (FRESH ACID STORAGE DRUM)
Hazard Type(s)	Fire, Reactivity
Avg Daily Amount / Unit	75000-99999Pounds
Days Onsite	undefined
Physical State(s)	Liquid, Mix
Health Effect(s)	Delayed Health, Acute Health

Chemical Mixes	
Component	HYDROFLUORIC ACID
CAS Number	7664393
Percentage by Weight	85.00
Is EHS	
Component	SULFOLANE
CAS Number	126330
Percentage by Weight	15.00
Is EHS	

How About Inspections?

TORRANCE REFINERY 3700 W 190TH ST # 1, TORRANCE, CA 90504

Profile

Map

Compliance (29)

Chemical Storage (837)



Time Frame: All years

Expand/Collapse All

Evaluations

10/20/2017 Hazardous Materials Release Response Plans (HMRRP) - Compliance Evaluation Inspection

10/20/2017 California Accidental Release Prevention (CalARP) - Compliance Evaluation Inspection

9/14/2016 Hazardous Waste RCRA Large Quantity Generator (RCRA LQG) - Compliance Evaluation Inspection

9/14/2016 Conditionally Exempt (CE) - Compliance Evaluation Inspection

9/14/2016 Conditionally Authorized (CA) - Compliance Evaluation Inspection

10/1/2015 Hazardous Materials Release Response Plans (HMRRP) - Compliance Evaluation Inspection

11/7/2014 Hazardous Materials Release Response Plans (HMRRP) - Compliance Evaluation Inspection

7/14/2014 California Accidental Release Prevention (CalARP) - Compliance Evaluation Inspection

6/11/2014 California Accidental Release Prevention (CalARP) - Compliance Evaluation Inspection

1/20/2014 California Accidental Release Prevention (CalARP) - Compliance Evaluation Inspection

11/25/2013 Hazardous Materials Release Response Plans (HMRRP) - Compliance Evaluation Inspection

11/25/2013 California Accidental Release Prevention (CalARP) - Compliance Evaluation Inspection

5/8/2013 Aboveground Petroleum Storage Act (APSA) - Compliance Evaluation Inspection

5/8/2013 Hazardous Waste RCRA Large Quantity Generator (RCRA LQG) - Compliance Evaluation Inspection

1/19/2011 California Accidental Release Prevention (CalARP) - Compliance Evaluation Inspection

11/3/2010 California Accidental Release Prevention (CalARP) - Compliance Evaluation Inspection

9/29/2010 Underground Storage Tank (UST) - Compliance Evaluation Inspection

7/22/2009 Hazardous Waste RCRA Large Quantity Generator (RCRA LQG) - Other/Unknown

6/19/2009 Hazardous Waste RCRA Large Quantity Generator (RCRA LQG) - Compliance Evaluation Inspection

6/15/2009 Hazardous Waste RCRA Large Quantity Generator (RCRA LQG) - Compliance Evaluation Inspection

6/12/2009 Hazardous Waste RCRA Large Quantity Generator (RCRA LQG) - Compliance Evaluation Inspection

Look for Enhancements in 2018/2019

■ New Data Sources

- *Storm Water Multiple Application and Report Tracking System (SMARTS) database*
- *Solid Waste Information System (SWIS)*
- *Facility Registry Services (via US EPA FRS Inbound)*
- *CalOSHA inspection, violation and enforcement information*

Look for Enhancements in 2018/2019

■ Improved Search Capabilities

- *Regulated Site Portal optimized for display on mobile devices*
- *RESTFul API services for sharing Regulated Site Portal data with interested State, Federal and public entities*
- *GIS Layers, Geospatial Services, Web Map Service (WMS) & Web Feature Service (WFS) for GIS professionals and enthusiasts*

<https://siteportal.calepa.ca.gov/nsite/>

Thank You –

Paul Penn

Emergency Management and Refinery Safety Program Manager

California Environmental Protection Agency

Paul.Penn@calepa.ca.gov

916-718-0751 (c)

916-327-9558 (o)