

W-L2 ENFORCEMENT WITH REGULATED SITE PORTAL AND CALENVIROSCREEN

Nicholas Antilla, CalEPA Karen Riveles, OEHHA Session Code: (W-L/2) February 28, 2024 Wed 10-11:45 am



Background of the Regulated Site Portal

It combines data from environmentally regulated sites and facilities in California into an interactive map of the state.

Data is incorporated from numerous state and federal databases such as: Cal/OSHA, CERS, CIWIQS, EIS, EnviroStor, GeoTracker, SMARTS, and SWIS.

The portal provides an overview of regulated activities statewide for environmental programs.

Such activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface water, and toxic materials.





Data Sources

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.

EIS - US EPA's Air Emission Inventory System (EIS) that maintains an inventory of large stationary sources and voluntarily-reported smaller sources of air point pollution emitters. It contains information about sites and their physical location, emission units, emission processes, release points, control approaches, and regulations.

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

<u>CERS</u> - 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.

Cal/OSHA - Cal/OSHA inspection and enforcement information for specific higher hazard facilities, including refineries, reported to federal OSHA.





Data Sources Continued

<u>GeoTracker</u> - 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.

<u>SMARTS</u> - The Stormwater Multiple Application and Report Tracking System (SMARTS) was developed by the State Water Resources Control Board to collect permit and inspection information on industrial and construction storm water management.

<u>SWIS</u> - The Solid Waste Information System (SWIS) was developed by CalRecycle to collect information on solid waste facilities, operations, and disposal sites throughout the state.

<u>TRI</u> - 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 is collected from these facilities by the U.S. Environmental Protection Agency.



Regulated Site Portal

https://siteportal.calepa.ca.gov/nsite/map/help





Regulated Site Portal Continued

- Home page the "Getting Started" information.
- Use the search bar to enter identifying information of locations.
- Find a location as an example "SF Zoo".
- Manually manipulate the map through scrolling, zooming in and out, clicking, etc.
- Find a location by manually finding the location (SF Zoo).







Navigation and Features, Profile Tab

- Once you find a location you want to view more information, select "Show more information"
- Profile, Map, Regulatory Programs, Compliance, and Chemicals Tabs then become available regarding that location to look up.

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Map Tab





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Regulatory Programs Tab

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Chemicals Tab

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Layers

Base Layers – You can select your desired base layer with map preference. (Bing Hybrid is the default.)

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Map Layers – Choose from numerous layers to show Chemical, Enviro, Fire, Flood Risk FEMA, Other, Political, and Water layers. 3

Deselect current filters selected or click on the Clear button to reset.

Layers Location



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Different Base Layer Examples



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Different Map Layer Examples



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Criteria and Filters

Criteria – You can narrow your site search in the Criteria Tab (Advanced Search Criteria) by manually typing text in the text boxes. Filters – These boxes include Site Identifier, Site Name, Site Address, etc. to help target in on specific sites. 3

NOTE: Text box entries will only narrow the scope within the current screen view of the Regulated Site Portal.





SCalEPA CalEPA Regulated Site Portal

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Criteria Continued

 With text entered in the "SITE NAME" Text Box (Oracle Park/SF Giants), the specific location of Oracle Park was isolated in a search result.





Filters



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Different Map Filter Examples

• Available filters to select from include Regulatory Programs, Regulatory Agencies, Evaluation Type, Has Violation YN, Enforcement Type, Site County, Originating Data System, and CUPA Jurisdiction. More options become available for selection when one of the above-mentioned filters are chosen by clicking on the up arrow.



More Map Filter Examples



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Measure Tool

The Measure Tool allows users to draw a line, circle, or polygon to help identify a specific geographic area or measure particular distances.

Measurements can be displayed in either feet, miles, meters, or kilometers for distances.

This gives the user a visual aid when identifying sites within a customizable search area.





Measure Tool Location

- The Measure Tool can be found by clicking on the ruler icon on the left-hand side of the screen next to the other selectable buttons.
- Once opened, options for Line, Circle, and Polygon appear.







Measure Tool Example (Line)

- A line is illustrated showing the distance from Golden Gate Park to Treasure Island is 6.75 miles.
- Connecting lines can be added with a singleclick and a double-click ends the line-making process.
- The distance will accumulate with lines that are added measuring the total distance.







Measure Tool Example (Circle)

- A circle was made here measuring a total of 49.52 square miles.
- Once the Circle tool is selected, click and start your circle generally in the middle of where you want it, then expand out.
- Click again to stop at desired size.





Measure Tool Example (Polygon)

- A polygon can be initiated by first selecting that button and clicking in the area you wish to start.
- Each following click will add additional angles to the polygon.
- A double-click will end the shape and display the total distance within the polygon (this one shows a total area of 20.51 square miles.)





Export Downloads

- The Regulated Site Portal provides the ability to download numerous reports and insightful information.
- Site downloads include Site, Site Regulated Programs, Affiliations, Coordinates, and Chemicals (top 2,000 chemicals.)
- Compliance downloads include Evaluations, Violations, and Enforcements.
- Any download that is run will be reflective of the current screen view of the map and what sites are shown at that moment.



Export Example (Site)

- First, click on the Download data to your computer button on the top blue bar.
- Then once you have a preferred geographic area on the map in which you want sites to appear in the download, click on the Download button.





Site Regulated Programs 🛛 🕹 DOWNLOAD

Export a CSV file containing all site regulated programs for the current sites.





Export Example (Site)

• Once the Site download report has downloaded, select it and open the CSV document. The report will have SiteID, SiteName, Address, City, ZIP, Longitude, and Latitude populated in columns.

	А	В	C	D	E	F	G
1	SiteID	SiteName	Address	City	ZIP	Latitude	Longitude
2	133	100 BUSH CORPORATION	100 BUSH ST	SAN FRANCISCO	94104	37.79157	-122.39997
3	134	100 California St LLC	100 CALIFORNIA ST	SAN FRANCISCO	94111	37.79362	-122.39778
4	137	100 Pine St Building	100 PINE ST	SAN FRANCISCO	94111	37.79265	-122.39897
5	146	101 California	101 CALIFORNIA ST STE 1050	SAN FRANCISCO	94111	37.79295	-122.3981
6	153	101 Lombard Street Homeowner Associati	101 LOMBARD ST	SAN FRANCISCO	94111	37.80387	-122.40348
7	194	100 Van Ness Associates, LLC	100 VAN NESS AVE	SAN FRANCISCO	94102	37.77672	-122.41918
8	201	101 mission st	101 MISSION ST	SAN FRANCISCO	94105	37.79243	-122.39415
9	202	101 Second Street, INC	101 2ND ST	SAN FRANCISCO	94105	37.78809	-122.39915
10	209	1028 Howard St Apartment	1028 HOWARD ST	SAN FRANCISCO	94103	37.77947	-122.40792
11	214	1080 Chestnut Corporation	1080 CHESTNUT ST APT 2B	SAN FRANCISCO	94109	37.80305	-122.42108
12	224	1101 Howard St Apartments	1101 HOWARD ST	SAN FRANCISCO	94103	37.77762	-122.40939
13	234	111 Pine St Building	111 PINE ST	SAN FRANCISCO	94111	37.79222	-122.39885



Export Example (Compliance, Evaluations)

- First, click on the Download data to your computer button on the top blue bar.
- Then once you have a preferred geographic area on the map in which you want Evaluations to appear in the download, click on the Download button.



Violations

🛃 DOWNLOAD

Export a CSV file containing facilities with violations for the current sites.



Export Example (Compliance, Evaluations)

• Once the Evaluation download report has downloaded, select it and open the CSV document. The report will have SiteID, SiteName, EvalDate, ViolationsFound, EvalGeneralType, EvalType, EvalNotes, Eval Division, EvalProgram, and EvalSource populated in columns.

	Α	В	С	D	E	F
1	SiteID	SiteName	EvalDate	ViolationsFound	EvalGeneralType	EvalType
2	133	100 BUSH CORPORATION	3/11/2016	Yes	Compliance Evaluation Inspection	Routine done by local agency
3	133	100 BUSH CORPORATION	5/15/2014	Yes	Other/Unknown	Other, not routine, done by local agency
4	133	100 BUSH CORPORATION	12/12/2019	Yes	Compliance Evaluation Inspection	Routine done by local agency
5	134	100 California St LLC	4/27/2016	Yes	Compliance Evaluation Inspection	Routine done by local agency
6	134	100 California St LLC	4/27/2016	Yes	Compliance Evaluation Inspection	Routine done by local agency
7	134	100 California St LLC	11/22/2013	No	Compliance Evaluation Inspection	Routine done by local agency
8	134	100 California St LLC	11/22/2013	No	Compliance Evaluation Inspection	Routine done by local agency
9	134	100 California St LLC	12/16/2019	No	Compliance Evaluation Inspection	Routine done by local agency
10	134	100 California St LLC	12/16/2019	No	Compliance Evaluation Inspection	Routine done by local agency
11	137	100 Pine St Building	2/24/2021	No	Compliance Evaluation Inspection	Routine done by local agency
12	137	100 Pine St Building	2/24/2021	No	Compliance Evaluation Inspection	Routine done by local agency
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Regulated Site Portal Recap

- A public-facing website that is accessible to anyone.
- An interesting and useful layer of the Regulated Site Portal is the CalEnviroScreen layer showing an area's Enviroscreen's range. For more information about CalEnviroScreen in a comprehensive way, here is Karen.
- A visual tool to look up information on facilities within the state.
- Capabilities to find information related to chemicals, evaluations, violations, and more.





CalEnviroScreen 4.0

Office of Environmental Health Hazard Assessment (OEHHA) CUPA Conference 2024

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CalEnviroScreen 4.0

- Environmental Justice Screening Method and Tool: Cumulative analysis of relative burdens in California communities from pollution and population vulnerability
- Geographic focus: 21 indicators combined into a single score at the census tract scale
- Identifies California communities that are most affected by many sources of pollution, and where people are especially vulnerable to the effects of pollution
- Version 4.0 was released in 2021



What are cumulative impacts?

"Cumulative impacts means exposures, public health or environmental effects from the combined emissions and discharges, in a geographic area, including environmental pollution from all sources, whether single or multi-media, routinely, accidentally, or otherwise released. Impacts will take into account sensitive populations and socioeconomic factors, where applicable and to the extent data are available."

CalEPA Interagency Working Group on Environmental Justice (2005)





Exposures

Contact with pollution

Sensitive Populations

Populations with physiological traits or health status that may magnify the effects of pollutant exposures

Environmental Effects Adverse environmental

KEEP OUT

CONTAMINATED WATER

ALA LA LA

ISITORS

SIGN IN

AT THE

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conditions caused by pollutants

Socioeconomic Factors

Community characteristics that result in increased vulnerability to pollutants





CalEnviroScreen 4.0 Indicators



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Data Sources & Support

- California Environmental Protection Agency's Boards and Departments
 - California Air Resources Board
 - State Water Resources Control Board
 - Department of Toxic Substances Control
 - Department of Pesticide Regulation
 - CalRecycle
- US Environmental Protection Agency
- California Department of Health Care Access & Information
- California Department of Public Health & Tracking California
- US Census Bureau
- University of California



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Indicator Example Particulate Matter 2.5

- Indicator represents the annual mean PM2.5 concentration for 2015-2017 by census tract
- Satellite data used in combination with monitor data
- PM2.5 estimates generated from a 1km square grid layer,
- Census tract results calculated by taking the average of each grid cell value within the tract

Indicator Scoring

- Each census tract's raw indicator score is assigned a percentile value based on where it falls among values state-wide
- Percentiles represent relative scores for each of the 21 indicators



 Census Tract: 6037203300 (Population: 1,982)
 Image: Comparison of the comp



For example, this Los Angeles area census tract is in the 92nd percentile for PM2.5, meaning its value is higher than 92% of all other census tracts in California.

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San Francisco Bay Area





Greater Los Angeles Area

CalEnviroScreen 4.0 Results

Scores represent a relative ranking of the burden of combined pollution and population vulnerability.

Disproportionate high scores in Greater Los Angeles Area and the San Joaquin Valley.

Broad similarity across versions of CalEnviroScreen.

CalEnviroScreen Interactive Products



Inequitable Distribution of Burden CalEnviroScreen 4.0 Data

Race in the least and most impacted census tracts by CalEnviroScreen 4.0 decile



https://storymaps.arcgis.com/stories/f555670d30a942e4b46b18293e2795a7

Racial Makeup of Each Decile of CalEnviroScreen 4.0 Score.





Uses of CalEnviroScreen

- In State Government
 - Training opportunities
 - To designate disadvantaged communities (DACs)* for investments Greenhouse Gas Reduction Fund
 - D To support identification of enforcement priorities
 - To consider cumulative impacts in DTSC permitting hazardous waste facilities (SB 673)
 - **D** To support CARB's identification of communities for air pollution reduction (AB 617)
 - **D** Public Utilities Commission and Energy Commission: funding prioritization tool
 - CA Natural Resources Agency: equity decision support layer
 - Local use: integrating EJ element into city general plans (SB 1000)





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SB 535 Disadvantaged Communities (2022 Update)

- Census tracts receiving the highest 25 percent of overall scores in CalEnviroScreen 4.0
- Census tracts lacking overall scores in CalEnviroScreen 4.0, but receiving the highest 5 percent of CalEnviroScreen 4.0 cumulative pollution burden scores
- Census tracts identified in the 2017 DAC designation as disadvantaged, regardless of their scores in CalEnviroScreen 4.0
- Lands under the control of **federally** recognized tribes.



Tahoe

amento

Salinas

Santa Rosa

Napa

Other Uses of CalEnviroScreen

As a model for developing EJ tools in the US, other states, local and regional governments

As a teaching tool in schools and other settings

□ As a tool to evaluate EJ issues by communities







Different DAC definitions

- California has different legal definitions of 'disadvantaged' communities
- Disadvantaged communities using CalEnviroScreen
 - SB 535 (California Health and Safety Code section 39711)
 - Priority populations are the CalEnviroScreen DACs and AB 1550 communities:
 - Together with AB 15150 communities (9713 of the Health and Safety Code), which are communities with incomes either at or below 80 percent of the statewide median or below a threshold designated as low-income by the Department of Housing and Community Development.
- Disadvantaged communities (Prop 1, Water Code)
 - 80% Statewide Median Household Income
 - <u>https://gis.water.ca.gov/app/dacs/</u>







in the state, including in disadvantaged and low-income communities. A minimum of 25 percent of the proceeds be invested in projects that are located within and benefiting individuals living in disadvantaged communities;

An additional minimum of 5 percent be invested in projects that are located within and benefiting individuals living in low-income communities or benefiting low-income households statewide; and

An additional minimum of 5 percent that are located within and benefiting individuals living in low-income communities, or benefiting low-income households, that are within a ½ mile of a disadvantaged community.

Demonstration of CES 4.0 and CES Data Dashboard

Relevant Links

- CalEnviroScreen | OEHHA
- CalEnviroScreen 4.0 | OEHHA
- Ten Years of CalEnviroScreen Story Map: <u>CalEnviroScreen 10th</u> <u>Anniversary (arcgis.com)</u>
- SB 535 Disadvantaged Communities | OEHHA (ca.gov) page
- CES 4.0 Data Dashboard: <u>CalEnviroScreen 4.0 Data Dashboard</u> (arcgis.com)



Indicator Maps and Data Sources and Explanations



Click outside window to close

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CES 4.0 Data Dashboard:

CalEnviroScreen 4.0 Data Dashboard (arcgis.com)

Welcome to the CalEnviroScreen 4.0 Data Dashboard





This data dashboard can be used to filter, visualize, and download CalEnviroScreen 4.0 data along with geographic boundaries and demographic information.

For guidance on how to use this data dashboard, *click the images above* to view the <u>Data Dashboard User Guide</u> or the <u>Data Dashboard How-To</u> <u>Video</u>.

Don't show this again



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CES 4.0 Data Dashboard Demonstration

CalEnviroScreen 4.0 Data Dashboard (arcgis.com)



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Any Questions?

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