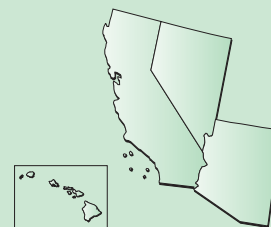




# Toxics Release Inventory 2007 California Report



U.S. EPA Region 9: California, Arizona, Nevada, Hawaii, the Pacific Islands, and Tribal Nations

## California's Releases

In 2007, 1,367 facilities reported a total of 56 million pounds of toxic chemical releases. California's total reported on-site and off-site releases increased 23% (10.5 million pounds), when compared to 2006 data.

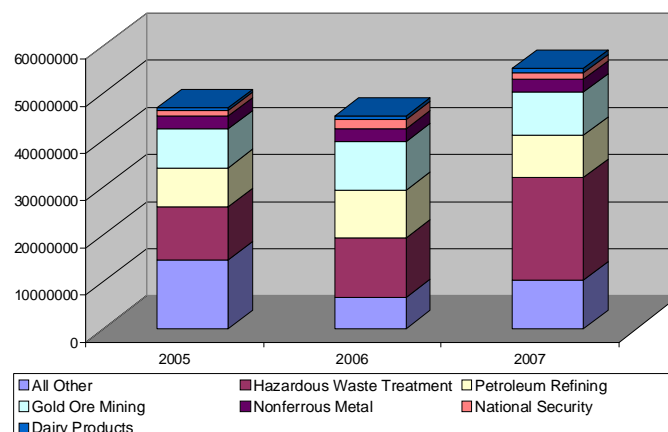
**Total Releases for Reporting Years 2005 – 2007**

Year	Air	Water	On-Site Land	Underground Injection	Off-Site
2005	17,336,234	3,563,375	15,586,820	18,432	10,143,191
2006	16,776,015	5,026,691	14,256,303	51,688	9,056,080
2007	15,329,874	4,058,713	27,208,293	69,922	8,877,455

## Industry Breakdown

Hazardous waste treatment, petroleum refinery, and nonferrous metal industries account for 60% of the releases in 2007.

**Total Releases: California Industry Sectors**



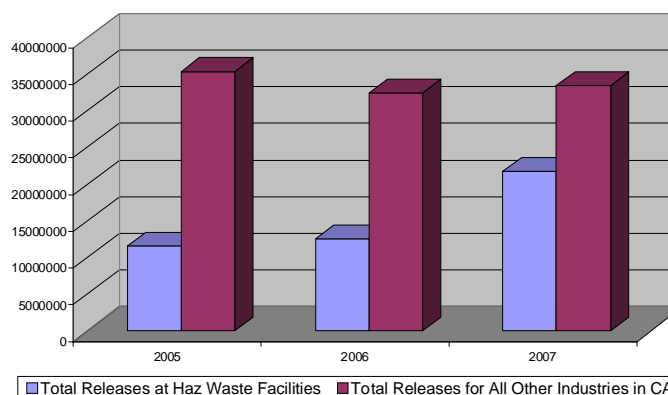
## Facilities with Largest Chemical Releases

The top ten facilities in California for total on-site and off-site releases of all chemicals are:

	Facility Name	City	Total Releases
1	CHEMICAL WASTE MANAGEMENT INC	KETTLEMAN CITY	18,478,063
2	WESTERN MESQUITE MINES INC.	BRAWLEY	3,896,855
3	EVERGREEN PULP ENTERPRISES	SAMOA	2,406,150
4	CLEAN HARBORS BUTTONWILLOW LLC	BUTTONWILLOW	2,096,259
5	QUEMETCO INC	CITY OF INDUSTRY	1,797,518
6	GE OSMONICS	VISTA	1,638,260
7	TESORO REFINING & MARKETING CO	MARTINEZ	1,618,301
8	VALERO REFINING CO - CALIFORNIA BENICIA REFINERY	BENICIA	1,580,697
9	EXXONMOBIL OIL CORP - TORRANCE REFINERY	TORRANCE	1,253,518
10	CHEVRON PRODUCTS CO. RICHMOND REFINERY	RICHMOND	926,873

The hazardous waste treatment industry reports the largest amount of TRI chemical releases in California.

**Total Releases: Hazardous Waste Facilities Compared with All Other Industries**



## Releases to the Environment

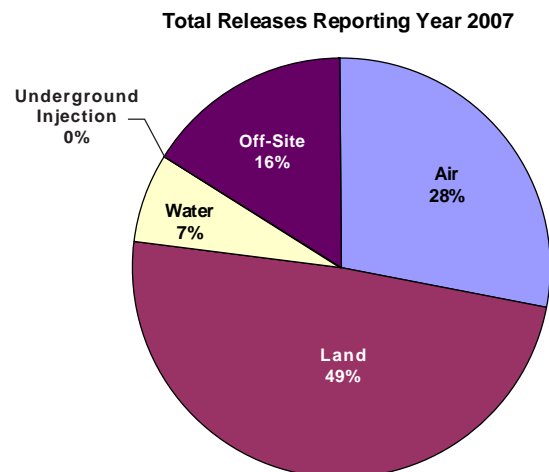
**Land:** The increase in 2007 was primarily due to a 91% increase (13 million pounds) in land releases. Chemical Waste Management, a hazardous waste treatment facility, in Kettleman City, had an increase of 111% from 2006 to 2007, approximately 9.7 million pounds.

**Air:** Air releases decreased by 9% (1.6 million pounds). Exxon Mobil Oil Corporation Refinery in Torrance reported the largest facility decrease of 24% (347 thousand pounds).

**Water:** Water releases decreased 960 thousand pounds, a 19% change. Chevron Products Co. Div. of Chevron USA in El Segundo reported a decrease of 63% (653 thousand pounds). Chevron Products Co. Richmond Refinery reported a 59% decrease (408 thousand pounds).

**Underground Injection:** Underground injection releases decreased 19 thousand pounds, (37%). Big West of California Refinery reported an increase of 1,100% (11 thousand pounds).

**Off-Site:** Off-site transfers increased by 98 thousand pounds, (1%). GE Osmonics, a water products manufacturing facility, in Vista, reported increases of 50% (542 thousand pounds).



## PBT Chemical Releases

*Releases of Persistent, Bioaccumulative and Toxic (PBT) chemicals are in pounds. Dioxin and dioxinlike compounds data are in grams, not in Toxicity Equivalence (TEQ).*

In California, 10 million pounds of total (on-site and off-site) releases of PBT chemicals were reported. This is an increase of 111% (5.3 million pounds) from the previous reporting year. The increase in releases reported by Western Mesquite Inc., a gold ore mining facility, drove the overall increase of PBT releases in the state.

In determining release quantities for metal compounds, facilities only consider the primary metal portion of the compound. For instance, a facility reporting lead compounds only reports the lead portion of the lead compounds released. The PBT chemicals are ranked by 2007 total releases.

Chemical	Total On-Site and Off-Site Releases		Percent Change
	2006	2007	
LEAD & LEAD COMPOUNDS	4,715,243	10,040,238	113%
MERCURY & MERCURY COMPOUNDS	44,371	43,832	-1%
POLYCYCLIC AROMATIC COMPOUNDS	18,007	31,477	75%
POLYCHLORINATED BIPHENYLS	26,333	22,091	-16%
HEXACHLOROBENZENE	114	3,414	2895%
BENZO(G,H,I)PERYLENE	1,597	3,406	113%
TETRABROMOBISPHENOL A	928	790	-15%
CHLORDANE	205	397	94%
HEPTACHLOR	19	35	84%
TRIFLURALIN	85	32	-62%
TOXAPHENE	3,386	13	-100%
METHOXYCHLOR	572	0	-100%
DIOXIN AND DIOXIN-LIKE COMPOUNDS	219	148	-32%

## Lead and Lead Compounds Releases

Approximately 10 million pounds of total lead releases were reported. The gold ore mining industry reported the largest amounts of lead, releases, 3.9 million pounds. Thirty-six percent of the lead reported was released to land (3.6 million pounds) in RCRA subtitle C Landfills.

There was a 224% (5.4 million pound) increase in lead land releases. Western Mesquite Mines Inc. in Brawley reported a 3.9 million pound change in lead releases to land.

## Mercury and Mercury Compounds

Total releases of mercury have decreased 539 pounds (1%) from 2006. This was driven by a 99.6% (11 thousand pounds) decrease in total releases at Clean Harbors San Jose LLC, a hazardous waste treatment facility.

On-Site land releases of mercury increased 41% (12 thousand pounds). Western Mesquite Mines Inc. reported a 10 thousand pound increase.

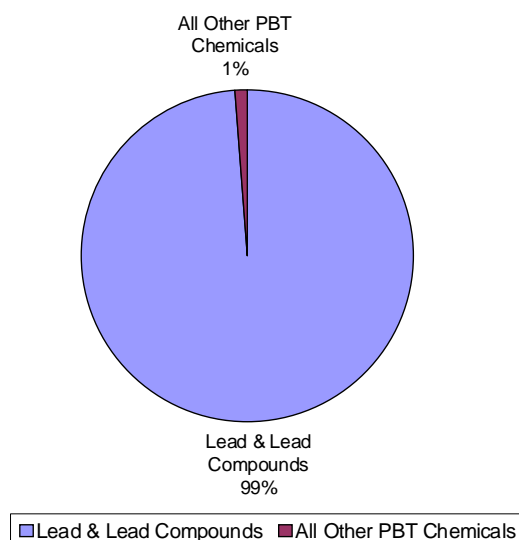
There was a reported 32%, (805 pound) decrease in mercury air releases. The largest decrease of 442 pounds occurred at Lehigh Southwest Cement Co., a cement manufacturing facility, in Redding. The majority of mercury air releases were reported by the cement manufacturing industry; they released 64% (1,080 pounds).

## Polychlorinated Biphenyls (PCBs) and Polycyclic Aromatic Compounds (PACs)

Chemical Waste Management, a hazardous waste treatment facility in Kettleman City, reported 99.7% of total PCBs releases. Approximately 22 thousand pounds were disposed on-site to land.

Chemical Waste Management reported the highest release of PACs (23 thousand pounds), and drove the state's PACs increase with a 12 thousand pound increase in releases. The reported increase in PACs releases was driven by Chemical Waste Management reporting 11.9 thousand pounds more on total land disposal in 2007.

**Total PBT Releases**



## Facilities with Largest PBT Releases

The top ten facilities in California for total on-site and off-site releases of PBT chemicals are:

	Facility Name	City	Total Releases
1	WESTERN MESQUITE MINES INC.	BRAWLEY	3,891,399
2	CHEMICAL WASTE MANAGEMENT INC	KETTLEMAN CITY	3,300,521
3	QUEMETCO INC	CITY OF INDUSTRY	1,167,353
4	EXIDE TECHNOLOGIES	LOS ANGELES	827,586
5	CLEAN HARBORS BUTTONWILLOW LLC U.S. MARINE CORPS MCB CAMP	BUTTONWILLOW	361,317
6	PENDLETON EQUILON ENTERPRISES LLC	CAMP PENDLETON	87,400
7	CARSON TERMINAL U.S. MARINE CORPS	CARSON	77,928
8	TWENTYNINE PALMS RANGE U.S. MARINE CORPS CHOCOLATE MOUNTAINS	TWENTYNINE PALMS	57,243
9	AERIAL GUNNERY RANGE	NILAND	48,474
10	TROJAN BATTERY CO	SANTA FE SPRINGS	22,152