

# What happens to my garbage?

An online adventure in the bowels of the California Waste Stream Profiles

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# Want to know what happens to your garbage?

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It's not easy, but it's certainly possible.

California's regulatory agency for waste, California Integrated Waste Management Board, has got the information. In the following pages, I show you how you might get at it, using the town of Antioch as an example.

If you start counting once you visit the CIWMB's website, then it takes about 50 steps to figure out what happens to Antioch's garbage.

Don't be discouraged. It's worth the effort.

# Step 1: Start at CIWMB website (www.ciwmb.ca.gov)

The screenshot shows the homepage of the California Integrated Waste Management Board (CIWMB). At the top left is the CA.GOV logo and the CIWMB logo. Navigation tabs include Home, Recycle, Reduce Waste, Buy Recycled, Enforcement, Local Partners, Education, and About Us. A search bar is located at the top right. The main content area features a header for Governor Schwarzenegger, a title for the board, and a paragraph describing its mission. Below this are sections for News and Activities, with several news items listed, including one about electronics recycling. A right-hand sidebar contains a 'Resources' section with a list of links, where 'Directories/Databases' is circled in orange. Other sidebar elements include a board chair profile and logos for 'Recycle your electronic waste!' and 'Climate Action Team'. At the bottom, there are public service links and contact information.

CA.GOV California Integrated Waste Management Board

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GOVERNOR SCHWARZENEGGER Visit his Website

**The California Integrated Waste Management Board**

The Board promotes a **Zero Waste California** in partnership with local government, industry, and the public. This means managing the estimated 92 million tons of waste generated each year by reducing waste whenever possible, promoting the management of all materials to their highest and best use, regulating the handling, processing and disposal of solid waste, and protecting public health and safety and the environment.

**News and Activities**

[Consumers Encouraged To Reduce, Reuse And Recycle Old Electronics: Holiday purchases leave many consumers with old, unwanted electronics.](#) (CIWMB News Release, Jan 30, 2008)

[General Attitude and Behavior Survey Baseline Findings](#) (Jan 28, 2008)

[The Waste Board provides a basic outline of how current Board statutes and regulations apply to various types of conversion technologies](#) (Jan 16, 2008)

[New Website Educates Drivers About the 3,000 Mile Myth: Changing motor vehicle oil every 3,000 miles is not always recommended](#) (CIWMB News Release Jan 15, 2008)

[DTV Answers -- What you need to know about the switch to DTV](#) (Jan 10, 2008)

[Trashed Landowners Get Cleanup Relief for Christmas: State program aids rural areas affected by illegal dumping](#) (CIWMB News Release, Dec 12, 2007)

[Board Unanimously Adopted Strategic Directives: Going after the next 50 percent.](#)

[More News and Activities...](#)

[Reduce](#) | [Reuse](#) | [Recycle](#) | [Buy Recycled](#) | [Safe Disposal](#) | [Environmental Protection](#)

The Board is one of six boards, departments, and offices under the umbrella of the California Environmental Protection Agency.

[Cal/EPA](#) | [ARB](#) | [CIWMB](#) | [DPR](#) | [DTSC](#) | [OEHHA](#) | [SWRCB](#)

1001 I Street | P.O. Box 4025 | Sacramento, CA | 95812-4025 | (916) 341-6000 ([Directions...](#))

Last updated: January 31, 2008  
California Integrated Waste Management Board, <http://www.ciwmb.ca.gov>  
Public Affairs Office, [opa@ciwmb.ca.gov](mailto:opa@ciwmb.ca.gov) (916) 341-6300

**Resources**

- Publications
- Forms
- Library
- Logos & Clip Art
- Press Room/Media
- Broadcasts & Videos
- Global Climate Change
- Listservs
- **Directories/Databases**
- Contracts

BOARD CHAIR Margo Brown

Recycle your electronic waste! [eRecycle.org](http://eRecycle.org)

Climate Action Team Working to reduce climate change emissions in California.

Public Service Links

Save energy, money and the environment. [FLEX YOUR POWER](#)

HELP SAVE A CHILD WITH AMBER ALERT

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To progress, select "Directories and Databases"

# Step 2: Land in Directories and Databases

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- Broadcasts & Videos
- Publications
- Press Room
- Laws/Regulations
- Grants/Loans
- About the Board

## Directories and Databases

**California Materials Exchange (CaIMAX)**  
Users can search the CALMAX catalog for Wanted or Available materials, by any of 15 different material types and by 15 different regions in California. Users may also post new listings for CMMB review and eventual addition to the catalog.  
Contact: [Frank Severson](#)

**California Waste Stream Profiles**  
The Profiles system allows users to access a wide array of information from multiple databases at one glance, such as Demolition, RCP, Board assistance (grants, loans, etc.), related Board actions, disposal and diversion rates, and facilities information. This system also has GIS mapping capabilities.  
Contact: [Eileen Nathaniel](#)

**Compost and Mulch Facilities Directory**  
Users can search by county and/or facility type for producers of compost and mulch in California.  
Contact: [Stephen Binning](#)

**Construction & Demolition Debris Recyclers Directory**  
Users can search by county and/or material type for California processors and/or recyclers of construction and demolition debris.  
Contact: [Gregory Dick](#)

**Disposal Reporting System**  
This database contains information on the amount of solid waste disposed by California jurisdictions. The user may obtain reports regarding disposal by facility and quarterly disposal amounts by jurisdiction.  
Contact: [Denise Hume](#)

**Electronic Product Management Directory**  
This database contains information on facilities that collect specific types of electronic equipment for reuse or recycling.  
Contact: [Diana Rivera](#)

**Electronic Waste Payment System Participants**  
Information on the approved participants in California's covered electronic waste (CEW) recovery and recycling payment system. This information is primarily used by CEW collectors and recyclers in the system to identify business partners or to verify approval status. General public information about reuse and recycling opportunities for unwanted electronic products can be found in the [Electronic Product Management Directory](#).  
Contact: [Jeff Hurts](#)

**Events Calendar**  
Provides a listing of upcoming and past events that the Board is hosting or involved with (including Board meetings). Users can link to additional detail about the event, as well as to subsets of the calendar organized by topic.  
Contact: [Public Affairs Office](#)

**Plastics Recyclers and Processors Directory**  
Users can search by county, facility name, and/or material type for California processors and/or recyclers of various plastics.  
Contact: [Edgar Rojas](#)

**Publications Catalog**  
This database provides information about all of the CMMB's available publications. Most are offered on line and/or downloads, or may be ordered in hard copy.  
Contact: [Public Affairs Office](#)

**Recycled-Content Products Directory**  
This directory has information on RCPs as well as manufacturers, distributors, reprocessors, mills, and converters who procure or produce these products or the recycled materials needed to make them. Searches of the over 10,000 materials, products, and businesses can be limited by product type, location, and percentage of recycled content. State agencies can search for items that meet their RCP purchasing requirements.  
Contact: [Rick Hicks](#)

**Recycling Market Development Zone Program Reports**  
Use the RMDZ database to search for businesses that receive or qualify for RMDZ assistance. Both loan and non-loan companies can be searched by RMDZ, city, county, feedstock, end product, and/or business name, and more.  
Contact: [James La Tanner](#)

**Solid Waste Landfilling Data**  
Information on tipping fees and tonnage of waste disposed of in California's landfills since 1990.  
Contact: [Skip Amerine](#)

**Staff Directory for CIWMB**  
Search CIWMB staff contact information by name, phone number, and functional assignment.  
Contact: [CIWMB Webmaster](#)

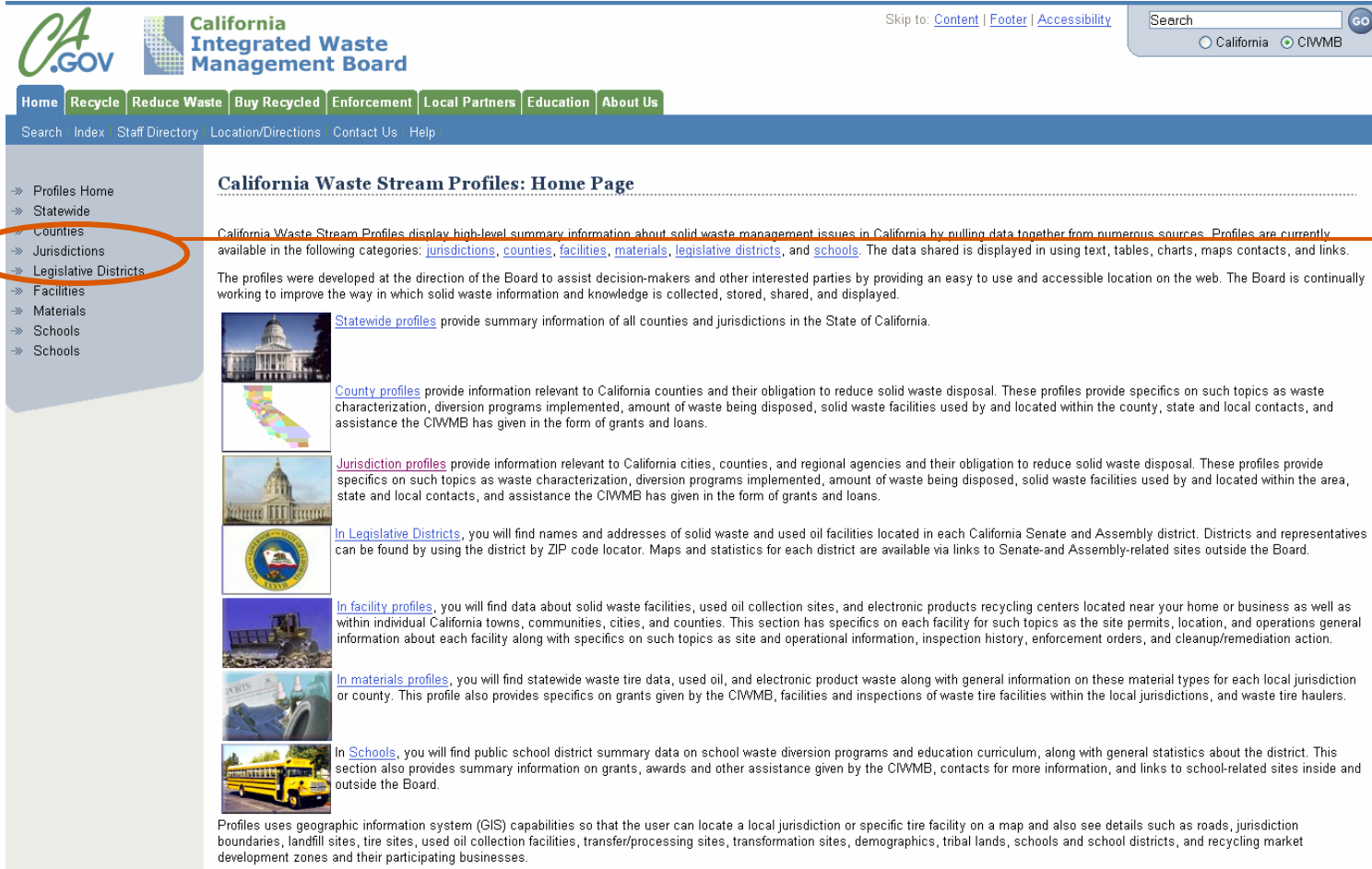
**State Agency and Organization Recycling Database (SOARD)**  
Search for a specific state agency or facility and review their integrated waste management plan and annual reporting information.  
Contact: [Kim Oakley](#)

**SWIS: California Waste Facilities, Sites, and Operations Database**  
Users can search and sort all records in the SWIS database using a variety of criteria, including county, SWIS number, facility type and regulatory status. Detailed information on each site includes location, operator, owner, activities, and waste types.  
Contact: [Skip Amerine](#)

**Used Oil Certified Centers**

To progress, select “California Waste Stream Profiles”

# Step 3: Land in California Waste Stream Profiles



The screenshot shows the homepage of the California Integrated Waste Management Board. The navigation menu includes 'Home', 'Recycle', 'Reduce Waste', 'Buy Recycled', 'Enforcement', 'Local Partners', 'Education', and 'About Us'. A search bar is located in the top right corner. The main content area is titled 'California Waste Stream Profiles: Home Page'. A sidebar on the left contains a list of navigation options: 'Profiles Home', 'Statewide', 'Counties', 'Jurisdictions', 'Legislative Districts', 'Facilities', 'Materials', 'Schools', and 'Schools'. The 'Jurisdictions' item is circled in orange. The main content area provides an overview of the profiles and lists several categories with brief descriptions and icons: 'Statewide profiles', 'County profiles', 'Jurisdiction profiles', 'Legislative Districts', 'In facility profiles', 'In materials profiles', and 'In Schools'.

**California Waste Stream Profiles: Home Page**

California Waste Stream Profiles display high-level summary information about solid waste management issues in California by pulling data together from numerous sources. Profiles are currently available in the following categories: [jurisdictions](#), [counties](#), [facilities](#), [materials](#), [legislative districts](#), and [schools](#). The data shared is displayed in using text, tables, charts, maps contacts, and links.

The profiles were developed at the direction of the Board to assist decision-makers and other interested parties by providing an easy to use and accessible location on the web. The Board is continually working to improve the way in which solid waste information and knowledge is collected, stored, shared, and displayed.

[Statewide profiles](#) provide summary information of all counties and jurisdictions in the State of California.

[County profiles](#) provide information relevant to California counties and their obligation to reduce solid waste disposal. These profiles provide specifics on such topics as waste characterization, diversion programs implemented, amount of waste being disposed, solid waste facilities used by and located within the county, state and local contacts, and assistance the CIWMB has given in the form of grants and loans.

[Jurisdiction profiles](#) provide information relevant to California cities, counties, and regional agencies and their obligation to reduce solid waste disposal. These profiles provide specifics on such topics as waste characterization, diversion programs implemented, amount of waste being disposed, solid waste facilities used by and located within the area, state and local contacts, and assistance the CIWMB has given in the form of grants and loans.

[In Legislative Districts](#), you will find names and addresses of solid waste and used oil facilities located in each California Senate and Assembly district. Districts and representatives can be found by using the district by ZIP code locator. Maps and statistics for each district are available via links to Senate and Assembly-related sites outside the Board.

[In facility profiles](#), you will find data about solid waste facilities, used oil collection sites, and electronic products recycling centers located near your home or business as well as within individual California towns, communities, cities, and counties. This section has specifics on each facility for such topics as the site permits, location, and operations general information about each facility along with specifics on such topics as site and operational information, inspection history, enforcement orders, and cleanup/remediation action.

[In materials profiles](#), you will find statewide waste tire data, used oil, and electronic product waste along with general information on these material types for each local jurisdiction or county. This profile also provides specifics on grants given by the CIWMB, facilities and inspections of waste tire facilities within the local jurisdictions, and waste tire haulers.

[In Schools](#), you will find public school district summary data on school waste diversion programs and education curriculum, along with general statistics about the district. This section also provides summary information on grants, awards and other assistance given by the CIWMB, contacts for more information, and links to school-related sites inside and outside the Board.

Profiles uses geographic information system (GIS) capabilities so that the user can locate a local jurisdiction or specific tire facility on a map and also see details such as roads, jurisdiction boundaries, landfill sites, tire sites, used oil collection facilities, transfer/processing sites, transformation sites, demographics, tribal lands, schools and school districts, and recycling market development zones and their participating businesses.

To progress,  
select  
“Jurisdictions  
”

# Step 4: Land in California Waste Stream Profiles

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## California Waste Stream Profiles: Jurisdictions

### Jurisdiction Search

Locate a jurisdiction by selecting a county:

main County  
Mariposa County  
Mendocino County  
Merced County  
Modoc County  
Mono County

Submit

OR

Locate a jurisdiction by entering its name (e.g., San Francisco):

antioch

Submit

Waste Stream Information Profiles <http://www.ciwmb.ca.gov/Profiles/>  
CIWMB Webmaster: [webmaster@ciwmb.ca.gov](mailto:webmaster@ciwmb.ca.gov) (916) 341-6141 [Disclaimer Information](#)

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To progress, enter “Antioch” in the jurisdiction search field and hit “Submit”.

A reasonable alternative is to search by county, which would add a few steps to the process.

# Step 5: Find Antioch

The screenshot shows the website for the California Integrated Waste Management Board. At the top left is the CA.GOV logo and the board's name. A search bar at the top right contains the text 'Search' and has radio buttons for 'California' and 'CIWMB'. Below the search bar is a navigation menu with links: Home, Recycle, Reduce Waste, Buy Recycled, Enforcement, Local Partners, Education, and About Us. A secondary menu includes Search, Index, Staff Directory, Location/Directions, Contact Us, and Help. On the left side, there is a vertical list of links: Profiles Home, Statewide, Counties, Jurisdictions, Legislative Districts, Facilities, Materials, Schools, and Help. The main content area is titled 'California Waste Stream Profiles: Jurisdictions' and contains a 'Jurisdiction List' section. Below this title, it says 'Select one of the following jurisdictions that match your query of **antioch**'. The word 'Antioch' is underlined and circled in orange. Below it is a link that says 'Select a new jurisdiction'. At the bottom of the main content area, there is contact information: 'Waste Stream Information Profiles <http://www.ciwmb.ca.gov/Profiles/>' and 'CIWMB Webmaster: [webmaster@ciwmb.ca.gov](mailto:webmaster@ciwmb.ca.gov) (916) 341-6141 [Disclaimer Information](#)'. A footer at the very bottom contains links for 'Back to Top', 'Help', 'Contact Us', and 'Site Index', followed by 'Conditions of Use | Privacy Policy' and the copyright notice '©1995, 2008 California Integrated Waste Management Board. All rights reserved.'

To progress,  
select  
“Antioch.”

# Step 6: Land in Antioch profile

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## Jurisdiction Profile for City of Antioch

Overview Profile New Jurisdiction Help

Overview Waste Flows Planning Assistance Contacts Map Charts

**General Information**

Jurisdiction: Antioch  
 County: Contra Costa  
 Size: 20.0 Sq./Miles  
 Geographic Area: Bay Area  
 Rural/Urban: Urban  
 (L)EA: [CIWMB](#)

**State Representatives**

1 Senate District(s) [View...](#)  
[Torlakson, Tom \(D\)](#) Senate District [7](#)  
 2 Assembly District(s) [View...](#)  
[DeSaulnier, Mark \(D\)](#) Assembly District [11](#)  
[Houston, Guy \(R\)](#) Assembly District [15](#)

[US Senate Information](#) [US Representative Information](#)  
[County Information](#) [City Information](#)

**Household Materials Generators (2004)**

	Amount	Rank (of 530)
Population:	84,500	100
Population Density:	4,225 /sq mile	
Single Family Units:	23,288	77
Multi-Family Units:	5,628	131
Mobile Home Units:	372	254

**Business Materials Generators**

Taxable Sales (2000):	\$712,720,000
Employment (2000):	21,706
Businesses (2000):	2,408

**Household Materials Collection**

Household Diversion (2004)  
 Residential Curbside Recyclable Collection: **Yes**  
 Residential Curbside Greenwaste Collection: **Yes**  
 Residential Curbside HHW Collection: **Yes**

**Business Materials Collection**

Business Diversion (2004)  
 Commercial On-Site Recyclable Pickup: **Yes**  
 Commercial On-Site Greenwaste Pickup: **Yes**

**Top 4 Specific Materials in Household Disposal (Based on 1999 Statewide Estimates)**

Specific Material Type	%	Tons
Food	20.0%	6,294

**Top 4 Specific Materials in Business Disposal (Based on 1999 Statewide Estimates)**

Specific Material Type	%	Tons/Yr
Food	17.4%	5,712

To progress, select "Waste Flows."

# Step 7: Land in waste flows

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## Jurisdiction Profile for City of Antioch

Overview **Waste Flows** Planning Assistance Contacts Map Charts

Profiles Home Diversion Profile **New Jurisdiction** Help

### Overall Waste Stream: Diversion

County Disposal and Trends **Diversion Facilities used by Jurisdiction**

[Jurisdiction Trends](#) [Certified Used Oil Centers: 2](#)

Board Reviewed Diversion Rates for Antioch **Graph**

Annual Diversion Rates  
[Preliminary Rates for later years...](#)

Diversion Programs Summary for Antioch in 2004 [More...](#) **Graph**

	Number of Programs Operating	Average Jurisdiction
Composting	6	2
Facility Recovery	3	2
HHW	5	3
Policy Incentives	2	1
Public Education	4	3
Recycling	9	5
Source Reduction	7	4
Special Waste Materials	7	4
Transformation	1	0

### Overall Waste Stream: Disposal (2005)

	Amount (Tons)	Integrated Waste Management Fees Paid (\$)
Solid Waste Landfilled (buried):	91,414	122,495
Solid Waste Transformed/Recovered/Reused (buried):	0	--

To progress, scroll down.

# Step 8: Find list of landfills

Overall Waste Stream: Disposal (2005)		
	Amount (Tons)	Integrated Waste Management Fees Paid (\$)
Solid Waste Landfilled (buried):	91,414	122,495
Solid Waste Transformed/Waste-to-Energy (burned)	0	--
Solid Waste Exported from the State for Disposal	0	--
<b>Total Disposed</b>	<b>91,414</b>	<b>122,495</b>

[Disposal Rank](#): 125 out of 418 jurisdictions (70 percentile)

Disposal Facilities Used By Antioch in 2005	
Landfills:	<a href="#">ACME LANDFILL</a> (Contra Costa) , <a href="#">ALTAMONT LANDFILL - RESOURCE RECY'RY</a> (Alameda) , <a href="#">B - J DROPBOX SANITARY LANDFILL</a> (Solano) , <a href="#">BAKERSFIELD S.L.F. (BENA)</a> (Kern) , <a href="#">FOOTHILL SANITARY LANDFILL</a> (San Joaquin) , <a href="#">FORWARD, INC</a> (San Joaquin) , <a href="#">GUADALUPE SANITARY LANDFILL</a> (Santa Clara) , <a href="#">KELLER CANYON LANDFILL</a> (Contra Costa) , <a href="#">NORTH COUNTY LANDFILL</a> (San Joaquin) , <a href="#">POTRERO HILLS LANDFILL</a> (Solano) , <a href="#">SACRAMENTO COUNTY LANDFILL (KIEFER)</a> (Sacramento County/City of Citrus Heights Regional Agency) , <a href="#">VASCO ROAD SANITARY LANDFILL</a> (Alameda)
Transformation Facilities (Waste-to-Energy):	[none]

To progress, click on landfill name.

Disposal Facilities Located Within Antioch in 2005	
Landfills:	[none]
Transformation Facilities (Waste-to-Energy):	[none]

**Disposal Destination**

This disposal desination data shows the total amount and percentages of waste from the selected county disposed within its boundaries, in other counties, and/or exported out of state.

[Disposal OutFlow Destination\(s\)](#) The disposal outflow destination maps show the total amount and percentages of waste from the selected county that this jurisdiction is a portion of disposed outside its boundaries, in other counties, and/or exported out of state.

[Disposal InFlow Destination\(s\)](#) The disposal inflow destination maps show the total amount and percentages of waste the selected county that this jurisdiction is a portion of received within its boundaries from other counties, and/or imported from out of the state.



Disposal data for the maps was compiled from the board's disposal reporting system (DRS). The DRS tracks the amount of solid waste disposed by each jurisdiction in California. Counties in California must submit quarterly disposal reports to the Board showing the amount of waste disposed by each jurisdiction in a county. Waste disposed by a county for 2005 was calculated by totaling a county's four quarters of disposal data for all the jurisdictions in the county. Waste received by a county was determined by totaling four quarters of disposal data by place of origin received by a county's landfills.

Waste Stream Information Profiles: <http://www.ciwmb.ca.gov/Profiles/>  
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# Step 9: Land in landfill profile

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## Active Landfills Profile for Acme Landfill (07-AA-0002)

[Overview](#) [Operations](#) [Financial](#) [Contacts](#) [Map](#)

[Profiles Home](#) [Overview Profile](#) **New Landfill** [Help](#)

General Information		State Representatives	
Jurisdiction:	Martinez	1 Senate District(s) <a href="#">More...</a>	
County:	Contra Costa	<a href="#">Torlakson, Tom (D)</a>	Senate District <a href="#">07</a>
Size:	11.0 Sq./Miles	2 Assembly District(s) <a href="#">More...</a>	
Geographic Area:	Bay Area	<a href="#">DeSaulnier, Mark (D)</a>	Assembly District <a href="#">11</a>
Rural/Urban:	Urban	<a href="#">Hancock, Loni (D)</a>	Assembly District <a href="#">14</a>
LEA:	<a href="#">County of Contra Costa</a>		
Board Action (Recent Agenda Item)	<a href="#">Search by Name</a> <a href="#">Search by Swis Number</a>		

Site Information <a href="#">(More)</a>		Permit Information	
Latitude:	38.03400	Longitude:	-122.09056
Name:	Acme Landfill	Permit Type:	Solid Waste Facility
Location:	950 Waterbird Way Martinez CA, 94553	Permit Status:	Permitted
Telephone:	(925) 228-7099	Operational Status:	Active
		Permitted Maximum Disposal:	1,500 Tons/day
		CIWMB Board Concurrence Date:	9/2001
U.S. EPA Facility Registration System ID:	<a href="#">110017973399</a>	Next Permit Review Date:	7/2012
<b>Operator(s)</b>		Permitted Site Area:	109
Acme Fill Corporation		Permitted Disposal Area:	109
950 Waterbird Way Martinez, CA 94553			
Phone: (925) 228-7099	Fax: (925) 228-4484		
Email: WasteXpert@aol.com			
<b>Owners(s)</b>			

To progress, click on "Operations."

# Step 10: Land in landfill operations

## Active Landfills Profile for Acme Landfill (07-AA-0002)

Profiles Home		Overview Profile		New Landfill		Help	
Operation Information							
<b>Activities</b>				<b>Landfill Gas Collection and Disposal</b>			
Operational Activities:	Solid Waste Landfill, Solid Waste Disposal Site	Monitoring Frequency:	Quarterly	Collection System:	Active	Disposal:	Active
Year Operations Began:	1958	Energy Generation:	Used Off-Site				
Hours of Operation:		<b>Leachate Information</b>					
Monday:	7:00 AM-5:00 PM	Leachate Monitoring:	Yes				
Tuesday:	7:00 AM-5:00 PM	Leachate Collections & Disposal System:	Yes				
Wednesday:	7:00 AM-5:00 PM	<b>Landfill Liner Construction (all or part)</b>					
Thursday:	7:00 AM-5:00 PM	No Liner:	Yes				
Friday:	7:00 AM-5:00 PM	Compact Soil Liner:	Yes				
Saturday:	7:00 AM-5:00 PM	Subtitle D:	No				
Sunday:	7:00 AM-5:00 PM	Geosynthetic:	No				
Open to Public:	Normal Hours	<b>Waste Type Disposal Origin Survey Frequency</b>					
Scales at Site:	Yes	Survey Frequency:	One Week Per Quarter				
Commerical Haul:	Normal Hours	<b>CIWMB Inspections (Last Three)</b>					
Self Haul:	Normal Hours						
Alternative Daily Cover Permitted:	Geosyn Blanket, Green Material						
<b>Waste Types Accepted/Permitted</b>							

To progress, scroll down.



# Step 11: Consult list of sending “jurisdictions”

Listed:	NO	
Jurisdictions Sending Waste to This Facility (Tons for year 2000)		Disposal Tonnages (Tons)
	ADC Tonnage	Total Tonnage
<a href="#">Antioch</a>	60.0	87.0
<a href="#">Benicia</a>	223.0	316.0
<a href="#">Brentwood</a>	7.0	22.0
<a href="#">Clayton</a>	97.0	124.0
<a href="#">Concord</a>	3,152.0	4,093.0
<a href="#">Contra Costa-Unincorporated</a>	4,724.0	5,637.0
<a href="#">Danville</a>	271.0	358.0
<a href="#">Lafayette</a>	445.0	548.0
<a href="#">Martinez</a>	1,704.0	2,140.0
<a href="#">Moraga</a>	81.0	108.0
<a href="#">Oakley</a>	18.0	21.0
<a href="#">Orinda</a>	418.0	491.0
<a href="#">Pittsburg</a>	140.0	196.0
<a href="#">Pleasant Hill</a>	706.0	877.0
<a href="#">Walnut Creek</a>	1,363.0	1,738.0

Antioch contributed 87 tons of household waste to the Acme landfill.

To progress, repeat steps 9, 10, and 11 for each of the listed landfills in the Antioch Waste Flows overview.

Alternative Daily Cover (Tons)				Alternative Daily Cover as % of Wastes Accepted (ADC + Disposal)			
Quarter	2003	2004	2005	Quarter	2003	2004	2005
First	5,380	1,854	1,386	First	51.6%	34.4%	28.4%
Second	2,345	2,386	1,978	Second	29.7%	30.4%	29.5%
Third	4,507	2,776	1,972	Third	62.9%	32.2%	28.6%
Fourth	1,401	2,015	1,443	Fourth	27.5%	32.0%	23.9%
Total	13,633	9,031	6,779	Total	44.6 %	32.1 %	27.7 %

Material Types Used for Alternative Daily Cover (Tons)												
Quarter	2003				2004				2005			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
Green Material	5,380	2,345	4,507	1,401	1,854	2,386	2,776	2,015	1,386	1,978	1,972	1,443

# What happens to Antioch's garbage?

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- Checking each of the 12 landfills listed under Waste Flows for Antioch results in the following list of landfills and the tonnage of trash received from the city in the year 2000:
  - Acme (Contra Costa) – 87 tons
  - Altamont (Alameda) – 26 tons
  - BJ Dropbox (Solano) – 8 tons
  - Foothill (San Joaquin) – 8 tons
  - Forward (San Joaquin) – 922 tons
  - Keller Canyon (Contra Costa) – 67.026 tons
  - North County (San Joaquin) – 2 tons
  - Potrero Hills (Solano) – 6.046 tons
  - Vasco Road (Alameda) – 1058 tons
- In other words, it takes 47 steps or so to be able to conclude that Keller Canyon landfill in Pittsburg, CA, is the primary recipient of Antioch waste, with Potrero Hills in Solano County coming in distant second place.
- The next step is to search for Keller Canyon for more information about the landfill.

# Step 48: Check search results for Keller Canyon

The screenshot shows the homepage of the California Integrated Waste Management Board (CIWMB). The header includes the CA.GOV logo and the organization's name. A search bar is located in the top right corner. Below the header is a navigation menu with links for Home, Recycle, Reduce Waste, Buy Recycled, Enforcement, Local Partners, Education, and About Us. A secondary navigation bar contains links for Search, Index, Staff Directory, Location/Directions, Contact Us, and Help.

The main content area features a sidebar on the left with a list of search options: CIWMB Search, CIWMB Site Index, Search LEA Central, Search Local Govt. Central, Search Publications Catalog, Search Board Meeting Agendas, and Cal/EPA Search.

The central section is titled "CIWMB Internet Search (Using Google Custom Search)". It contains a search box with the text "keller canyon" and a "Search" button. Below the search box, it displays "Results 1 - 10 for keller canyon. (0.25 seconds)".

The search results list several items:

- [Keller Canyon Landfill: In-Depth Information for Landfill Facility ...](#)  
In-depth information regarding environmental controls and performance presented as Task 4 of the California Integrated Waste Management Board's Landfill ...  
[www.ciwmb.ca.gov/Landfills/ComplyStudy/Landfills/InDepth/KellerCanyon.htm](http://www.ciwmb.ca.gov/Landfills/ComplyStudy/Landfills/InDepth/KellerCanyon.htm)
- [Jurisdiction Landfill Overview: California Waste Stream Profiles](#)  
Active Landfills Profile for **Keller Canyon** Landfill (07-AA-0032) ... **Keller Canyon** Landfill 901 Bailey Road Pittsburg, CA 94565. Phone: (925) 458-9600 ...  
[www.ciwmb.ca.gov/Profiles/Facility/Landfill/LFProfile1.asp?COID=1&FACID=07-AA-0032](http://www.ciwmb.ca.gov/Profiles/Facility/Landfill/LFProfile1.asp?COID=1&FACID=07-AA-0032)
- [\[doc\] CIWMB Agenda Item-7 March 22 - 23, 2000](#)  
File Format: Microsoft Word - [View as HTML](#)  
Consideration Of A Revised Solid Waste Facility Permit For **Keller Canyon** Landfill, ...  
Owner/Operator: **Keller Canyon** Landfill Company, a wholly owned ...  
[www.ciwmb.ca.gov/agendas/mtgdocs/2000/03/00003284.doc](http://www.ciwmb.ca.gov/agendas/mtgdocs/2000/03/00003284.doc)
- [Landfill Compliance Info Home Page](#)  
Site Name: **Keller Canyon** Landfill. Site Address: 901 Bailey Road ... Owner/Operator Notes: **Keller Canyon** Landfill Company is a subsidiary of Allied Waste. ...  
[www.ciwmb.ca.gov/landfills/complystudy/DB/SiteInfo.asp?ID=07-AA-0032](http://www.ciwmb.ca.gov/landfills/complystudy/DB/SiteInfo.asp?ID=07-AA-0032)
- [\[doc\] Board Meeting Agenda Item 15 February 19-20, 2002 Attachment 2 ...](#)  
File Format: Microsoft Word - [View as HTML](#)  
... Chiquita **Canyon** Sanitary Landfill; City Of Lompoc Sanitary Landfill ... Hillside Class III Disposal Site, **Keller Canyon** Landfill; Kirby **Canyon** Recycl. ...  
[www.ciwmb.ca.gov/agendas/mtgdocs/2002/02/00007306.doc](http://www.ciwmb.ca.gov/agendas/mtgdocs/2002/02/00007306.doc)
- [\[xls\] Sheet1](#)  
File Format: Microsoft Excel - [View as HTML](#)  
10, **Keller Canyon** Landfill. 11, West Contra Costa Landfill. 12, Del Norte, Crescent City Landfill. 13, El Dorado, Union Mine Disposal Site ...  
[www.ciwmb.ca.gov/LGCentral/Summanes/PermtActi04.xls](http://www.ciwmb.ca.gov/LGCentral/Summanes/PermtActi04.xls)

# Step 49: Find in-depth information on Keller Canyon



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[List of 53 Landfills](#)  
[Background](#)  
[Landfill Study Home](#)

## Landfill Facility Compliance Study

### Keller Canyon Landfill: In-Depth Information

**CIWMB's Solid Waste Information System (SWIS) number:** 07-AA-0032  
**Site Information** per Landfill Facility Compliance Study (Task 2)

**Information Source: Owner/Operator—Keller Canyon Landfill Company**  
Telephone conversations: January 8, 2004 and April 7, 2004

With the exception of a violation for the late submittal of a Title V report (air quality), there have been no environmental compliance issues at this site since the beginning of the study period (January 1, 1998), and there have been no problems implementing the existing environmental regulations.

A few years prior to 2004, volatile organic compounds (VOC) were found in the underdrain. It was concluded that there was landfill gas migration from the leachate collection and removal system (LCRS) into the underdrain via the liner anchor trench. The issue was properly handled by the regulatory agencies through their interpretations of the regulations.

This site has a large buffer area that has been helpful in protecting human health and compliance with the perimeter gas monitoring requirements. The minimum standards do not require such a large buffer, however, this buffer may have contributed to Keller Canyon's compliance success. In addition, the owner takes a very aggressive stance on gas control at this site. The owner expands the system every year, which leads to better capture of the landfill gas and protection of the environment. These actions are beyond the minimum requirements.

The owner emphasizes winterization and intermediate cover at Keller Canyon. Intermediate cover is placed in layers thicker than 12 inches to minimize the potential for daylighting waste. In addition, the owner has used alternative daily cover (ADC) extensively, although not required by the regulations. ADC is protective of the environment and conserves resources.

**Information Source: Regional Water Quality Control Board, San Francisco Bay Region**  
Telephone conversations: December 12, 2003, April 2, 2004, and April 8, 2004  
E-mail response: April 13, 2004

There have been no groundwater related compliance issues at Keller. In early 1999, occasional VOCs were first detected in the underdrain. These compounds, mainly chlorofluorocarbons (CFC) did not match the typical VOCs found in the site's leachate or gas condensate, and are believed to be the result of a spill during construction rather than a release from the landfill. The level of the CFCs has diminished since their first detection. More recently, there have been occasional detections of benzene, toluene, ethylbenzene, and xylene (BTEX) and chlorinated hydrocarbons in the underdrain. Again, it appears that these compounds are not a result of leachate release but are due to the migration of landfill gas. In response, the landfill is stepping up the rate of landfill gas extraction in newly constructed waste areas. The VOC detections are now dropping, and the site therefore remains in detection monitoring.

The groundwater monitoring system was developed with potential groundwater use in mind. The groundwater in the vicinity of the site is not intended for domestic use due to a high mineral content. Based on the setting and location of the site (canyon), there are no up-gradient sources that could impact groundwater and complicate the monitoring process.

**Information Source: Enforcement Agency (Contra Costa County Health Services Department, Environmental Health Division)**  
E-mail response, April 8, 2004

The enforcement agency (EA) has not issued any gas-related areas of concern (AOC) or violations to this site. There have been no problems implementing the existing landfill gas-related regulations and there have been no measures beyond the regulatory minimums that have provided additional protection. However, gas wells are installed annually, as necessary to control landfill gas. Keller Canyon has been attempting to permit and construct modular power stations to convert the landfill gas that is collected. This project has been in progress for several years.

There have been no surface water-related compliance issues, no problems implementing the existing surface water-related regulations, and no measures beyond the regulatory

# Step 50: Find background info on Keller Canyon

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## From a permit application to increase the maximum daily tonnage

**Background:** Landfill operations at the site began in 1992 on land owned by Keller Canyon Landfill Company, a wholly owned subsidiary of Browning-Ferris Industries of California. On April 10, 1999, the Keller Canyon Landfill Company transferred the ownership and operations of the landfill to Allied Waste Industries, Inc.

The facility receives an average of 1700 tons per day with a peak of 2,608 tons. When the peak is reached oncoming landfill traffic is directed away from the facility to alternative landfill sites, such as the Forward Landfill in Stockton, California

When the 1992 permit was issued, the maximum tonnage of 2,750 tons per day was based on a permit condition which was then contained in the facility's former Permit to Operate from the Bay Area Air Quality Management District (Air Board). In 1996 the Air Board revised the Permit to Operate to specify that the facility could receive 3,500 tons of waste per operating day in accordance with the Land Use Permit. The 1990 Environmental Impact Report (EIR) prepared for the Keller Canyon Landfill project fully evaluated environmental impacts of the landfill project for the receipt of 3,500 tons of waste per operating day.

# If you get this far ...

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Then perhaps you could go one step further and leave me a note with your thoughts, at

<http://landfill.wordpress.com/2008/02/03/what-happens-to-our-garbage/>

Thank you,

Marijke