

Miramar Landfill – Case Study



Hazardous Waste Exclusion Program

- Inspections and Enforcement
- Training
- Household Hazardous Waste Facility
- Special Waste Acceptance

Inspections



Initial Screening Occurs at Fee Booth

- Unacceptable Wastes – Signs
- Radiation Monitors
- Accept/Reject/Contact Duty Inspector

HAZARDOUS WASTE, LIQUIDS AND RADIOACTIVE WASTE — NOT ACCEPTED —

COMMON HAZARDOUS WASTES INCLUDE:

- **AEROSOL SPRAY CANS**
- **ANTIFREEZE**
- **BATTERIES**
- **CLEANERS**
- **COMPUTERS**
- **ELECTRONIC DEVICES**
- **FUELS**
- **LIGHT BULBS**
- **MERCURY CONTAINING ITEMS**
- **OIL & OIL FILTERS**
- **PESTICIDES**
- **PAINTS**
- **POOL CHEMICALS**
- **SOLVENTS**
- **TELEVISIONS**

FOR INFORMATION ON PROPER DISPOSAL OF HAZARDOUS WASTE CALL:

FROM HOME (858) 694-7000 FROM BUSINESS (619) 338-2231

Load Check Inspections

- Conducted in all landfill areas
 - Commercial
 - Public
 - Greens
 - Fee Booth



Inspection Frequency

- Daily inspections
- Monthly and quarterly inspection goals
- 5,982 inspections in FY 2006
- Documented verses undocumented inspections

Inspection Documentation

- Visual Inspection – date, time, license plate, waste type(s)
- Load Inspection Report – detailed documentation
- Paper and Electronic Tracking of Inspection Data

Load

Inspection

Report

Form



CITY OF SAN DIEGO
ENVIRONMENTAL SERVICES DEPARTMENT
8801 Ridgehaven Court
San Diego, CA 92123

LOAD INSPECTION REPORT

Commercial area
 Fee Booth
 Public area
 Other: _____

Date: _____
Time: start _____ stop _____
Inspector(s): _____

RESPONSIBLE PARTY:
 Household Commercial
Name: _____
Address: _____
Phone #: _____ Contact: _____

TRANSPORTER:
Name: _____
Driver: _____
Vehicle type: _____
License plate: _____ Decal: _____
Transaction number: _____

RESULTS:
 Hazardous waste found
 Potential hazardous waste
 Unacceptable waste: _____
 No hazardous waste

DISPENSATION:
 Waste disposed Waste returned
 Pending NOV issued
 Samples Photographs

HAZARDOUS WASTE	PHYSICAL STATE	# OF CONTAINERS	CONTAINER SIZE	TOTAL AMOUNT

COMMENTS: _____

INSPECTOR SIGNATURE: _____

Electronic Inspection Tracking

Load Inspection Report : Form

number) **Load Inspection Report #**

Landfill Area:

Date: Time Begin: Time End:

Lead Inspector: Assisting Inspector:

Generator Type: Transporter Name:

Generator Name: Drivers Name:

Address: Vehicle Type:

City: State: License #: Decal:

Zip Code: Transaction #:

Phone #: Contact:

Results: Waste Disposed: Waste Returned: Photographs:

Samples Taken: NOV Issued:

Comments:

HAZARDOUS WASTE

Liquids in gallons	
Acid	<input type="text" value="0.0"/>
Base	<input type="text" value="0.0"/>
Flammable	<input type="text" value="0.0"/>
Latex Paint	<input type="text" value="0.0"/>
NONRCRA	<input type="text" value="0.0"/>
Oxidizing	<input type="text" value="0.0"/>
Poison	<input type="text" value="0.0"/>

Solids in pounds	
Acid	<input type="text" value="0.0"/>
Base	<input type="text" value="0.0"/>
Flammable	<input type="text" value="0.0"/>
NONRCRA	<input type="text" value="0.0"/>
Oxidizing	<input type="text" value="0.0"/>
Poison	<input type="text" value="0.0"/>
PCB Ballast	<input type="text" value="0.0"/>

Other Wastes in pounds	
Aerosols	<input type="text" value="0.0"/>
Car Batteries	<input type="text" value="0.0"/>
Gas Cylinders	<input type="text" value="0.0"/>
Motor Oil	<input type="text" value="0.0"/>
Oil Filters	<input type="text" value="0.0"/>
Propane	<input type="text" value="0.0"/>

Universal Waste in pounds			
Electronic Devices	<input type="text" value="0.0"/>	Mercury Lamps	<input type="text" value="0.0"/>
Household Batteries	<input type="text" value="0.0"/>	Monitors/TVS	<input type="text" value="0.0"/>
		Mercury	<input type="text" value="0.0"/>
		CFC appliance	<input type="text" value="0.0"/>

Record: 607 of 607

Hazardous Waste Found

What's Next?

- Depends on variety of factors, including
 - Who is RP/Generator
 - Resident/business/permitted business
 - Waste Type(s)
 - Volume
 - Level of Knowledge
 - Intent







Over the Limit!





NSN 6100-10-078
TANGI P...
DIA W... INT...

LOUISVILLE

3 19 '07

Got Paint!





Hazardous Waste Found Decision Time!

- Reject and return to generator
- Reject and require hazardous waste hauler
- Take possession and dispose - RP pays disposal costs
- Take possession and dispose – City pays disposal costs

No One Exempt!



Educating the Generator/Transporter

- Educate on basic waste identification
- Review landfill acceptance requirements
- Discuss options and proper disposal
- Provide educational flyer

Universal Waste Flyer



Wastes Prohibited from Disposal at Miramar Landfill



Effective February 9, 2006, State law mandates that solid waste landfills no longer accept any of the wastes listed below. The State regulates these wastes as a type of hazardous waste called universal waste and prohibits their disposal into the trash or into a landfill.

Universal Wastes **NOT ACCEPTABLE** for Disposal at Miramar Landfill

- ❖ **Batteries** – examples include alkaline, lead acid, lithium, mercury, and nickel cadmium (ni-cd) batteries
- ❖ **Electronic Devices** – examples include cell phones, computer monitors, computer printers, cordless phones, CPUs, laptop computers, radios, telephone answering machines, televisions, and VCRs
- ❖ **Light bulbs** excluding incandescent light bulbs – examples include fluorescent, high intensity discharge, metal halide, neon, and sodium light bulbs
- ❖ **Mercury containing items** – examples include gauges, switches, thermometers, and thermostats

Recycling/Disposal Options

ELECTRONIC DEVICES

Most electronic devices can be recycled at the Miramar recycling center located at the entrance to the Miramar Landfill. call (619) 268-8971 for information on acceptable items and fees or visit: www.sandiego.gov/environmental-services/recycling/miramarrecycle.shtml.

BATTERIES, LIGHT BULBS, AND MERCURY CONTAINING ITEMS

Residents may obtain information on proper disposal options by calling (619) 694-7000, or visit www.earth911.org.

Businesses may obtain information on proper disposal by calling the county of San Diego, Department of Environmental Health at (619) 338-2231.

ADDITIONAL RESOURCES

For additional information on universal waste regulations, visit:

www.cwmb.ca.gov/wpie/hazsub/univwaste.htm or
www.dtsc.ca.gov/hazardouswaste/universalwaste/index.cfm

For information on locations for recycling electronics, batteries, cell phones, and other recyclable commodities, visit:

www.cwmb.ca.gov/electronics/collection www.earth911.org www.rhrc.org



For more information, please contact the
Environmental Services Department
at (619) 694-7000.

This information is available in alternative formats upon request.

Printed on recycled paper



The City of San Diego

Household Hazardous Waste Transfer Facility Guidelines

Call (858) 694-7000 for an appointment or information.

HOW CAN I, A SAN DIEGO CITY RESIDENT, PARTICIPATE?

◆ Make an Appointment for Saturday Service

Call during office hours, Mon. - Fri., 8:00 a.m. to 5 p.m.

◆ Transport the Waste Safely

- ◆ Bring only a total of five gallons or 50 pounds of waste.
- ◆ Leave all products in their original sealed containers.
- ◆ Place fuels (such as diesel, gasoline, contaminated oil) in a container that can be left behind.
- ◆ Place the wastes away from passengers (in the trunk or in the back of the vehicle).
- ◆ Keep waste separate from other items (such as trash or recyclable materials) for safe unloading.

◆ Bring Proof of City Residency to the Facility

Picture I.D. and a recent bill showing your address

◆ Call About:

- ◆ Loads larger than 50 pounds
- ◆ Containers larger than five gallons
- ◆ Leaky or open containers
- ◆ Products you can't identify

WHERE DO I BRING MY WASTE?

- ◆ Bring your waste to the Household Hazardous Waste Transfer Facility.

It is located at the Miramar Landfill entrance on Convoy Street, just North of 52-Fwy.

WHEN IS THE FACILITY OPEN?

- ◆ OPEN Saturdays ONLY
9:00 a.m. to 3:00 p.m.
(except holidays)
- ◆ Service by Appointment ONLY
- ◆ CLOSED

Mar. 26, 2005
July 2, 2005
Nov. 26, 2005
Dec. 24, 2005
Dec. 31, 2005

WHAT CAN I BRING?

- ◆ Products used in the routine maintenance of your home, yard or vehicle.
- ◆ Products labeled with words such as Danger, Warning, Caution, Poison, Flammable, or Corrosive.

WHAT CAN'T I BRING?

- ◆ Ammunition, fireworks and flares
- ◆ Asbestos and lead wastes
- ◆ Business or commercial wastes
- ◆ Compressed gas cylinders
- ◆ Medical or laboratory waste
- ◆ PCBs
- ◆ Radioactive materials

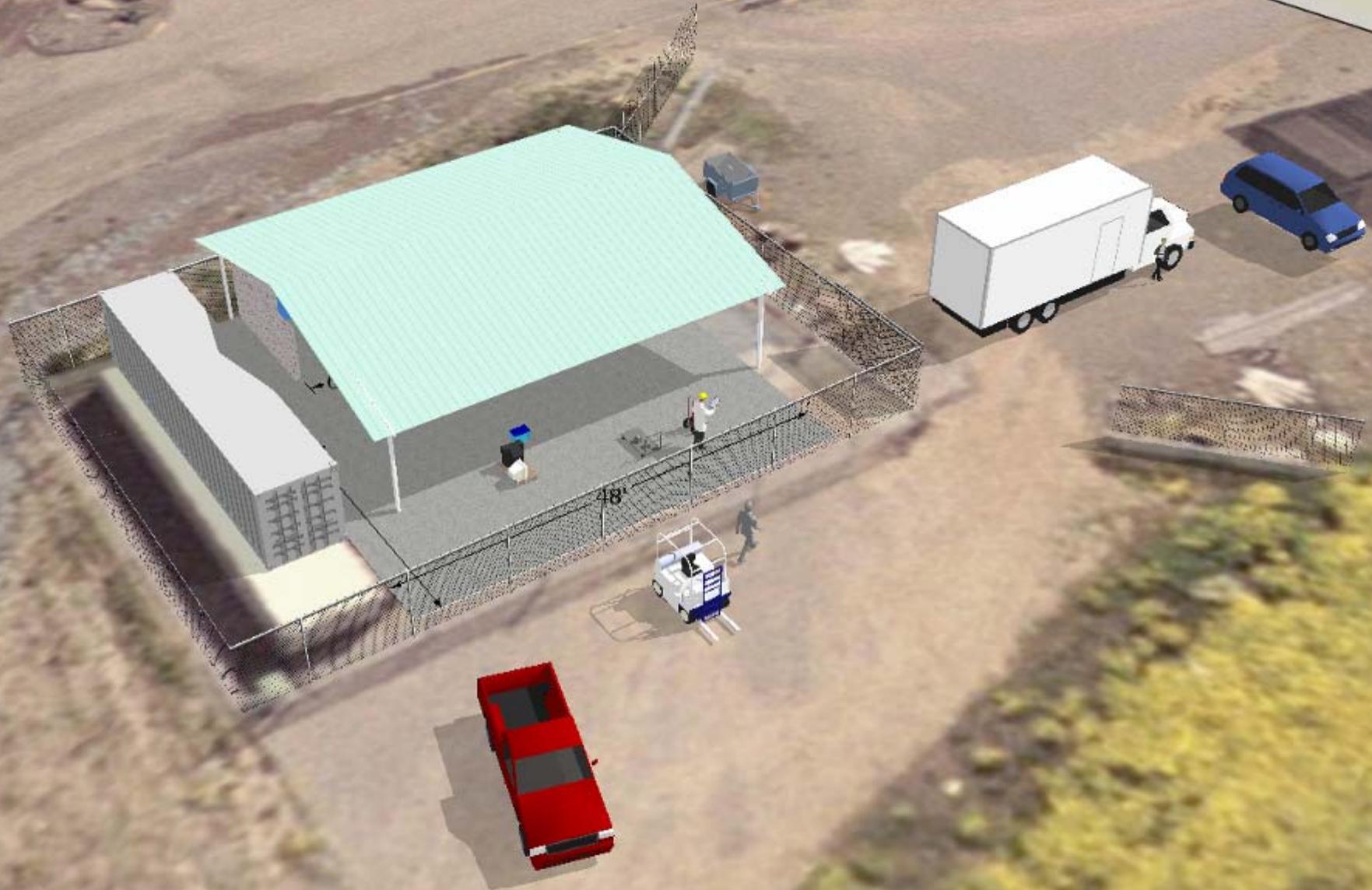
For assistance with disposal of these items call (858) 694-7000.

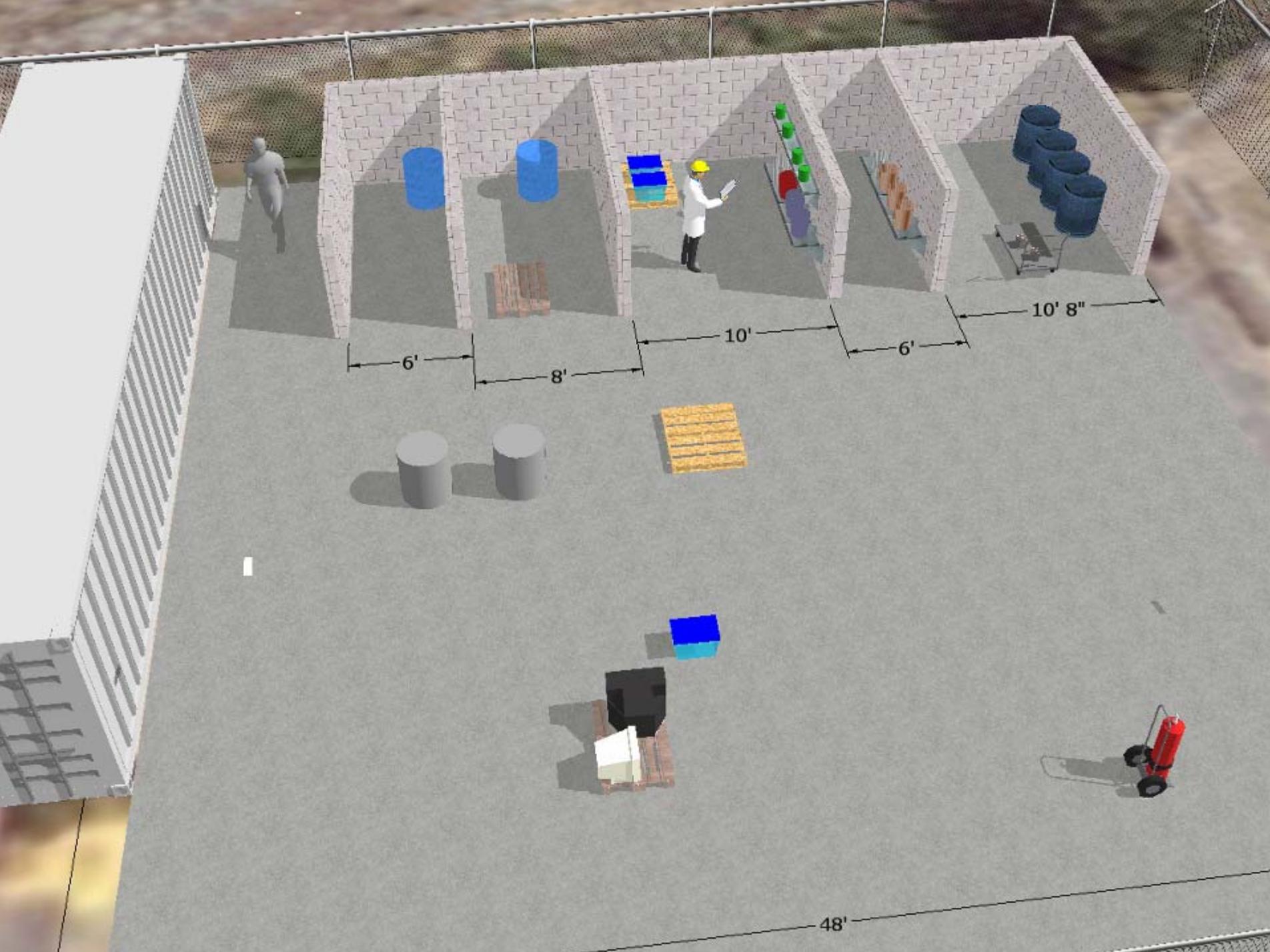
OTHER AVAILABLE DISPOSAL OPTIONS

- ◆ Recycle uncontaminated used motor oil, oil filters, and automotive batteries at participating locations. Call for locations.
- ◆ Recycle NiCad batteries or exchange propane tanks at participating locations. Call for locations.
- ◆ Put medical needles and syringes in a sealed container and place in the trash.

Hazardous Waste Storage Area







6'

8'

10'

6'

10' 8"

48'

Enforcement

- Document Incident
- Take Samples
- Conduct Investigation
- Referral to CUPA
- Write Report
- Issue Notice of Violation (NOV)
- Notification to Solid Waste LEA



You're Busted!



Enforcement Tracking

- Electronic
 - Inspection Database
 - Enforcement Timelines
 - Approximately 500 NOVs issued since 1994
 - Civil and criminal judgments
 - Administrative Enforcement Orders
- Individual Enforcement Files

Enforcement Incident File Documents

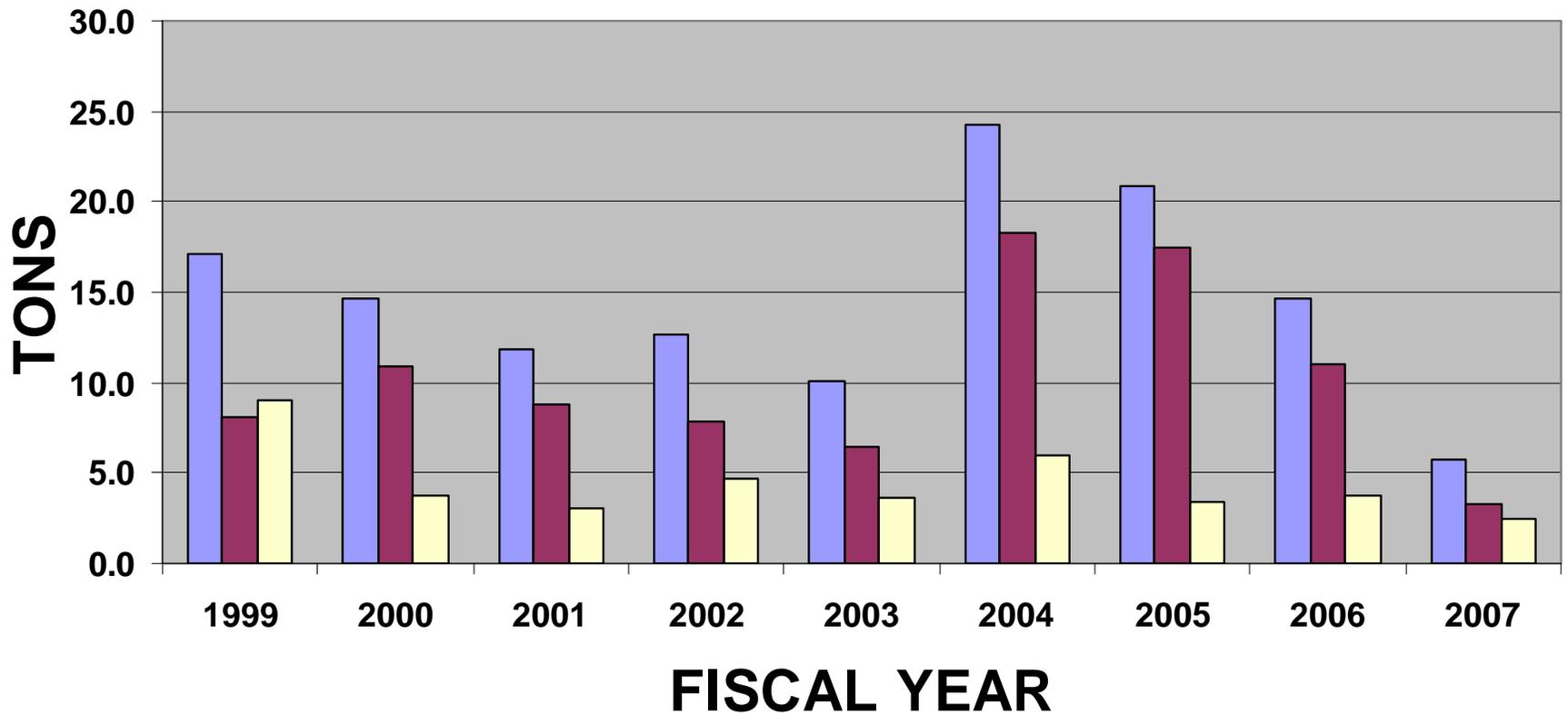
- City and CUPA NOVs
- Hazardous waste disposal documents
- Laboratory results
- Report
- Photographs
- Resolution

Program Tracking

- Waste diversion – disposed & rejected
- # of inspections conducted
- “Contact Time”
- % of inspections containing hazardous waste
- Cost of Program/ton of waste disposed
- NOVs/enforcement referrals

Program Measures

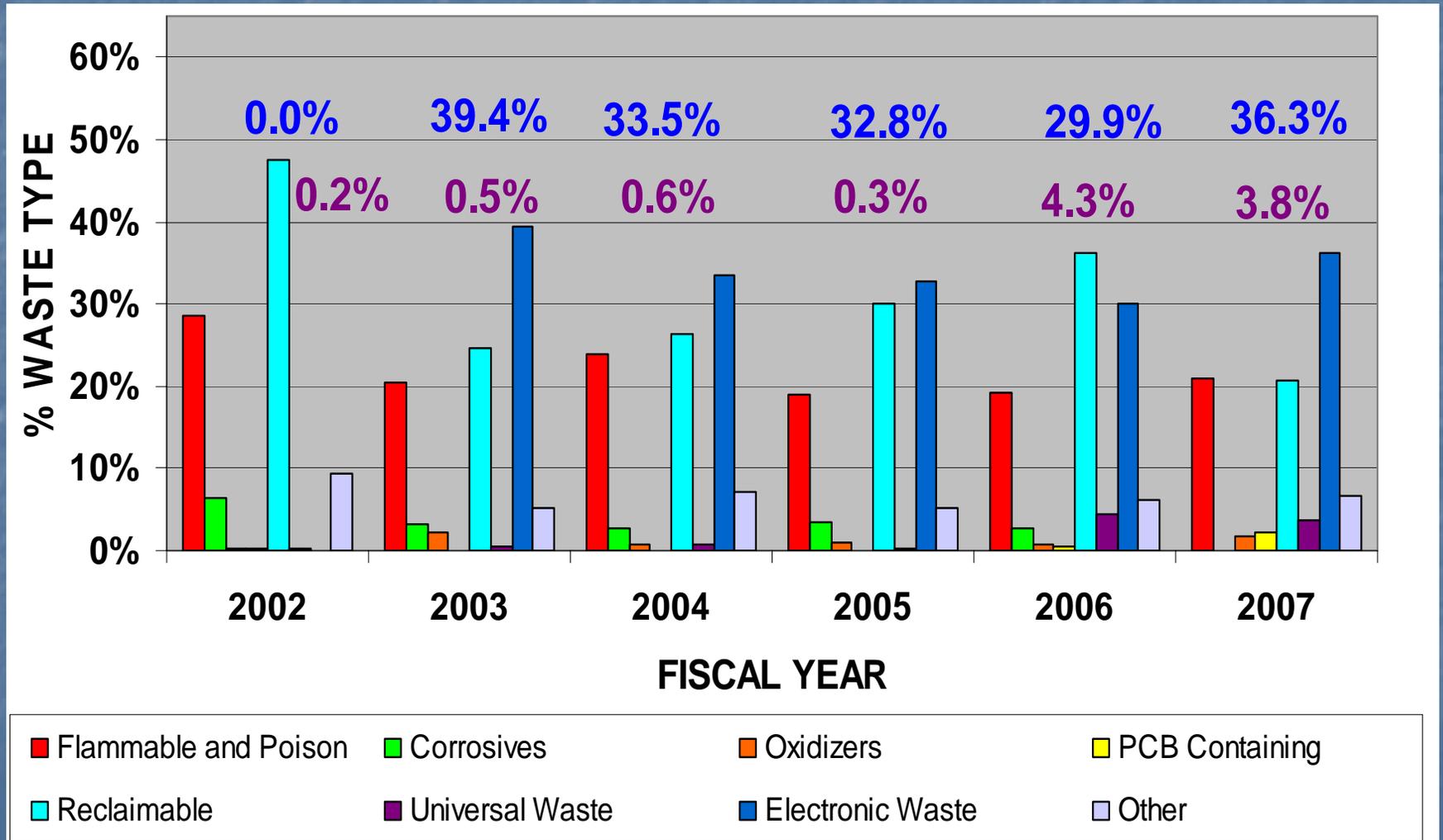
Annual Hazardous Waste Diversion



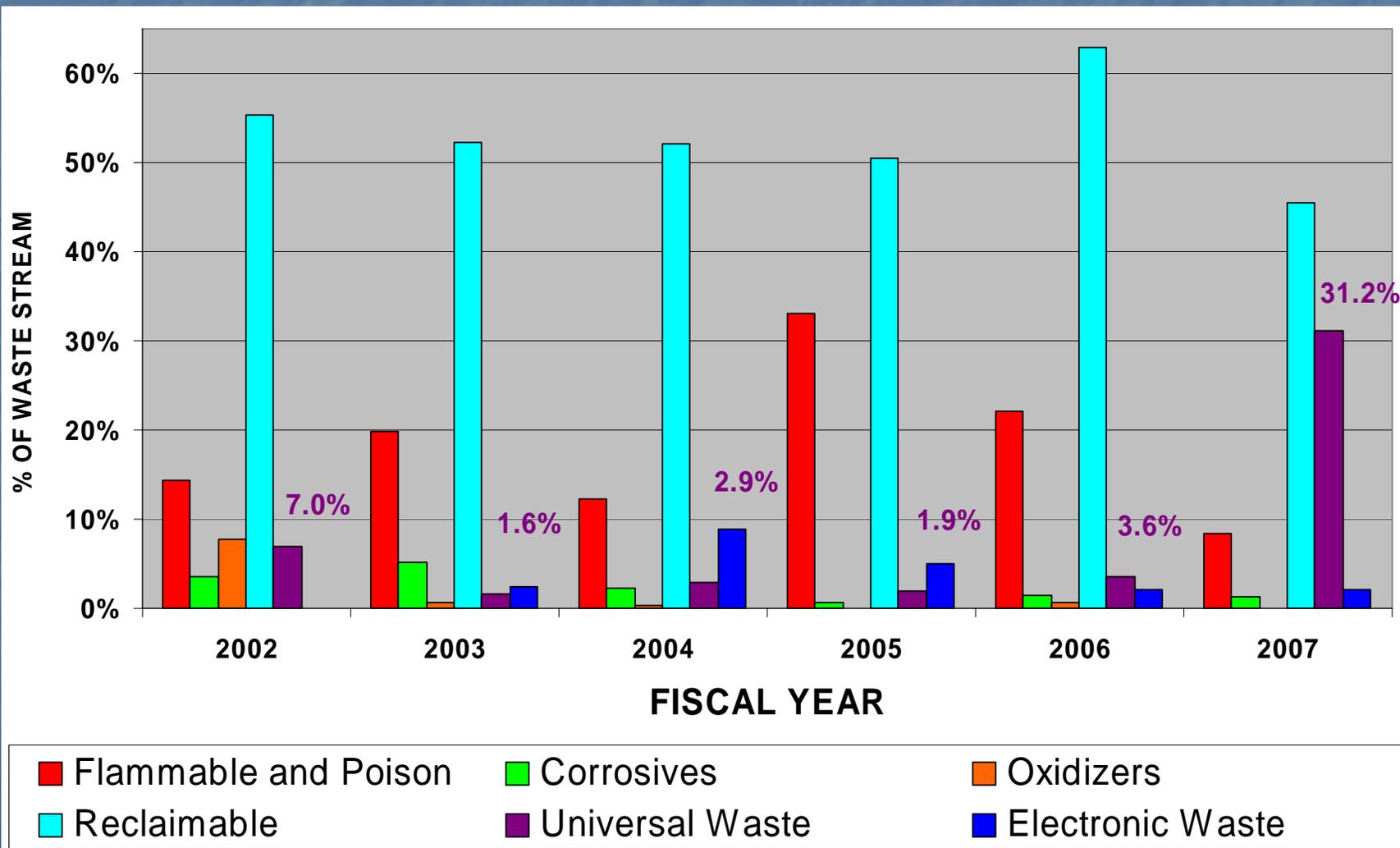
■ Total Tons Diverted ■ Tons Disposed ■ Tons Rejected

Program Measures

Disposal % by 303 Category



Program Measures Rejections by 303 Category



The Most Important Component of Miramar's Program



The Team

