

From Concept to Completion

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Objectives

- Describe barriers encountered while planning a medication take-back program and how they are overcome
- List the resources needed for conducting a medication take-back program
- Discuss the implementation of a first-time event
- Describe the results of a first-time event
- Discuss future directions for take-back programs in Texas



- Planning began ~ 4 years ago
- Barriers
 - Drug Enforcement Administration (DEA)/Controlled Substances act (CSA)
 - Local law enforcement
 - Tx State Board of Pharmacy
 - Environmental Protection Agency (EPA), Texas Commission on Environmental Quality (TCEQ); laws, rules, regulations



DEA/ Controlled Substances Act

 "....pharmacies, may dispose of controlled substances already in their possession that have expired, been damaged or contaminated, but may not accept controlled substances from another person solely for the purpose of disposal." CSA/CFR

TSBP

 Pharmacists may take back controlled substances, but must render them "incompatible with human consumption" and must document abundantly



- It is ILLEGAL for ANYONE to be in possession of controlled substances that were dispensed to an enduser. (state jail felony)
 - What are controlled substances?
 - Vicodin, Lortab, Fentanyl, morphine, etc.
 - Drugs are classified into controlled substances categories based on their potential for abuse
 - C-I: GHB, heroin
 - C-V: Lyrica



Texas State Board of Pharmacy

- Tx Administrative Code also not developed with need for return of unused meds from public and subsequent disposal taken into consideration
- Compliance officers no solution without law enforcement
- Amendment to rules proposed
- Board opted to wait until CSA is amended



- DEA has recently granted temporary permission to law enforcement agencies who have requested authorization to accept for disposal controlled substances that have been dispensed to ultimate users." CFR
- Comment accepted early in 2009 in preparation for revising CSA



Local Barriers

- Collaboration with law enforcement
 - Local law enforcement already struggles with disposal of substances confiscated through routine law enforcement activities
 - Perceived increase in burden to participate in takeback event with volume unknown and unpredictable
 - Cost for disposal (poor economy); already stressed system
 - Conceptually, agreed with goals/purpose



Laws, Rules, Regulations

- Environmental regulations
 - Difficult to interpret
 - If resident is disposing of medications → household hazardous waste
 - If many residents bring medications to take-back program → ?
 - Special waste, medical waste, pharmaceutical waste
- Waste management companies
 - Fairly new concept
 - Often receive conflicting answers to questions based on who is reached even within same company



Barrier Navigation

DEA/CSA

- Gained support of local law enforcement through political route – city commission
- Prepared plan for event detailed all of the work that we would do and what we needed them to do
- Contacted Special Agent in Charge staff
 - Conduction of event is acceptable if law enforcement disposes of meds in compliance with their respective policy/procedure – THIS VARIES BY REGION
 - DEA unable to provide anything in writing unless through Federal Register



Barrier Navigation

► TSBP

 Conduction of event is "out of (their) jurisdiction" if not conducted in conjunction with a pharmacy

Laws, rules, regulation

• Research, interpret, educated guess, pray!



Resources Needed

- Volunteers/ staff
 - Pharmacy school collaboration
 - School district
- Law enforcement officers
 - Provided at expense of city
- Locations
 - University provided one site "in kind"
 - AISD provided one site "in kind"



Resources Needed

- Disposal service
 - Collaboration with local hospital/clinic
 - Difficult without estimate of volume/expense
 - University contract/safety services
- Advertising
- \$\$\$
- TIME & EFFORT planning, training, communicating
- Supplies



Marketing

- Anecdotal reports show that success of events is directly related to advertising efforts
- Other factors
 - Public interest in "doing the right thing"
 - Poison prevention
 - Public safety



Marketing

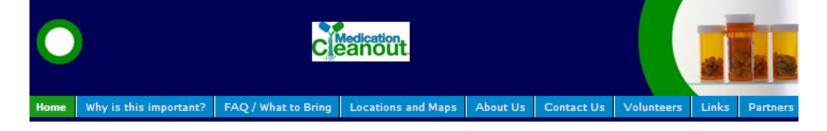
- Website/phone number
- Billboards
- Newspaper ads
- Pharmacy fliers & push cards
- School fliers
- Radio
- VT (



Website

- Developed by poison center staff member
 - Purchased two domains:
 - MedicationCleanout.com (\$15/yr)
 - MedicineCleanout.com (\$15/yr)





Prevent poisonings. Prevent abuse. Prevent misuse. Protect the environment.



Working hard.

Next event: March 27th, 2010 10:00am - 2:00pm

Click <u>HERE</u> for our printable brochure. Feel free to print and share with others.

You may print the brochure, complete the form, and bring it with your unwanted medications to the event. This is optional. You may bring medicine without a form.

Get rid of expired, leftover, unneeded medicines on March 27th.

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"Why shouldn't I just save medications in case I need them again? Why shouldn't I just throw them in the trash or flush them down the toilet?"			
Poisonings	Poisonings are second only to motor vehicle accidents as a cause of death from unintentional injury in the U.S. Medications left around the home can be the source for these poisonings. And poisonings are not limited to children. Adults often "self-treat" with leftover medications from previous illnesses – a dangerous practice that c result in delay in seeking help.		
Abuse	Another alarming problem is that of prescription drug abuse by teens. Prescription drug abuse is now second only to marijuana abuse. Each day 2,500 teens use a prescription medicine for the 1st time for a non-medical reason. Medicine cabinets of parents, grandparents, friends, or acquaintances are frequently the source.		
Misuse	Self-treatment with an inadequate supply of antibiotics can result in antibiotic resistance as well as a delay in seeking medical attention.		

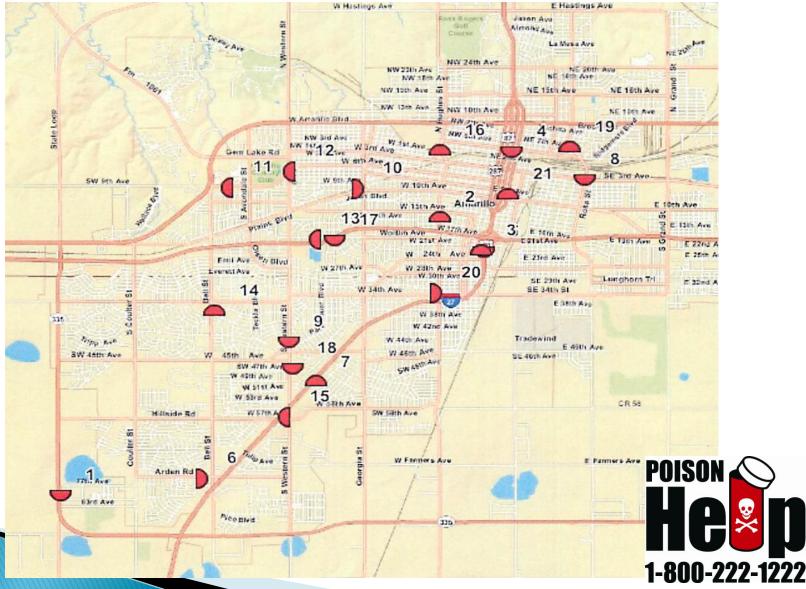
Billboards

Lamar Outdoor

- 21 "mini" billboards through city
- \$4,000 (labor and vinyls; space donated by Lamar)
- Designed by Lamar/Poison Center staff



Billboards



Newspaper

- Full page ad (Sunday prior to event)
- Front page "sticky ad" day before the event
- ¼ page ad (Monday prior to event Labor day)
- 90,000 on-line impressions
- \$4,000



Newspaper

20

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Prevent poisonings • Prevent abuse Prevent misuse • Protect the environment



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Free, safe disposal of unneeded medications

Saturday Sept. 12th 10:00 a.m. - 2:00 p.m.

Drive-through event Texas Tech University School of Medicine or Caprock High School

MedicationCleanout.com 806-351-5626 (MCO)

Why is this so important?

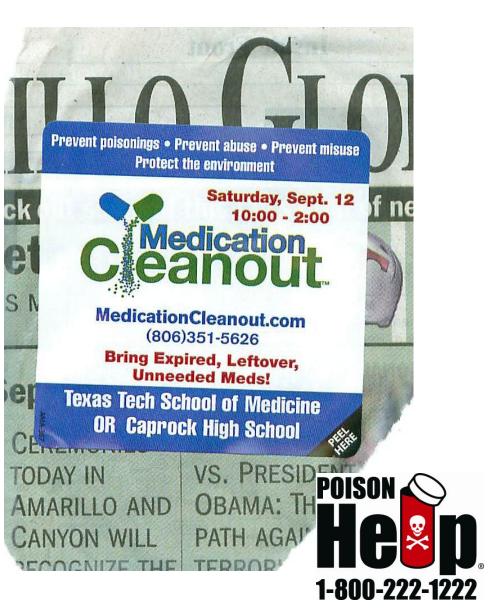
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Misuse: Self-treatment with an inadequate supply of antibiotics can result in antibiotic resistance as well as a delay in seeking medical attention.

Environment: Many individuals who would like to dispose of their unneeded medications simply do not because they've heard of contamination of the water supply by medications that are flushed or washed down the drain.

Medication Cleanout™ provides our community with the opportunity to safely and conveniently dispose of medications! Don't miss the chance to safely dispose of your unneeded medicines and make your home and community a safer place.



Pharmacy Fliers and Push-Cards

 Provided by print shop of AISD at cost (funded by AISD Safe Schools/Healthy Students program)



Pharmacy Fliers and Push-Cards

Safe, free disposal of expired, leftover, unneeded medicines



Saturday, September 12 10:00 a.m. - 2:00 p.m. Texas Tech University School of Medicine or

Caprock High School





Prevent poisonings • Prevent abuse Prevent misuse • Protect the environment.



Free, Safe, Confidential Disposal Of Expired, Leftover, Unneeded Medicines

> Saturday • Sept. 12 10:00 a.m. - 2:00 p.m. Texas Tech School of Medicine or Caprock High School

www.medicationcleanout.com • 351-5626 (MC

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1-800-2

1-800-222-1222

Safe Schools

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www.eateschooksaisri.org

School Fliers

½ page flier sent home with all elementary students in school district on Tuesday prior to event



Volunteers

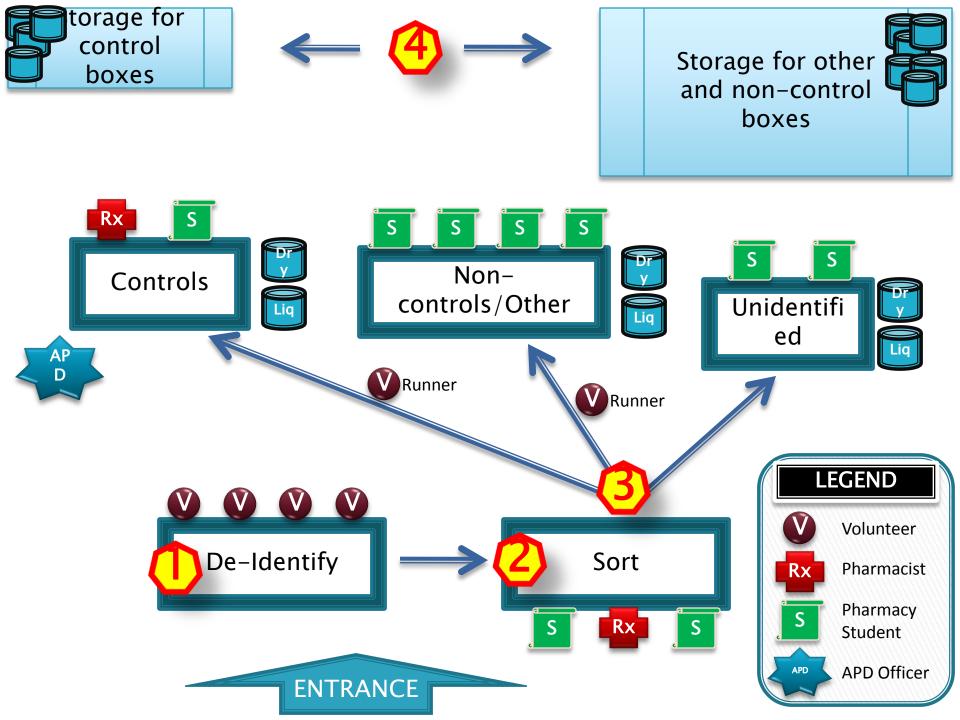
- > 90 volunteers (45 at each site)
 - Large number needed due to desire to inventory all collected items
 - De-identification of all items (paint pens work better than Sharpies)
 - Sorting: controls vs. non-controls
 - Identification of unknowns



Volunteer Training

- I hour training session 2 weeks prior to event
- Required attendance
- Reviewed volunteer manual
- Zero tolerance diversion policy
- Schematic flow of meds through collection site





Event

- ▶ 10 a.m. 2 p.m. Drive–Through Event
- Only event staff were allowed inside indoor processing area
- All volunteers provided with event T-shirt and name badge
 - Easy identification of who should be inside





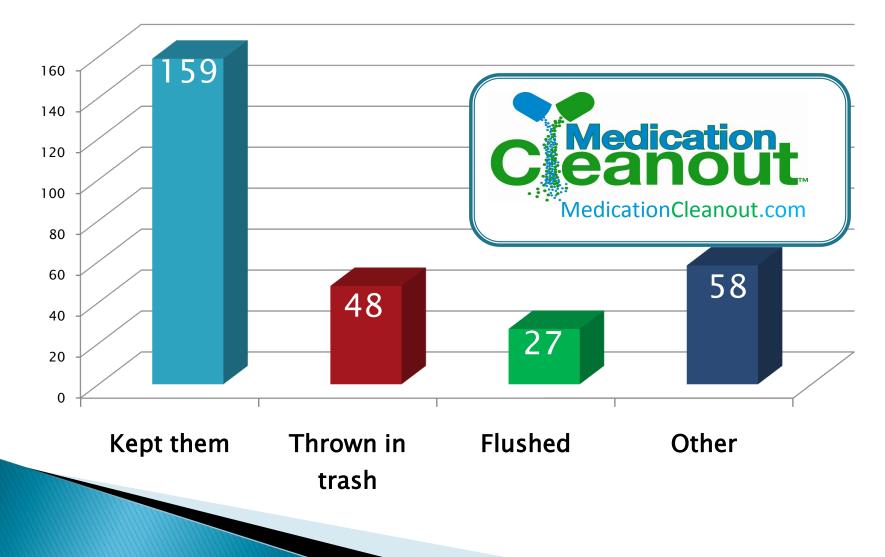
Collection Sites

- Caprock High School
 - 113 completed
 surveys (vehicles &
 walk-ups)
 - 399 pounds of noncontrolled substances
 - 32.5 pounds of controlled substances

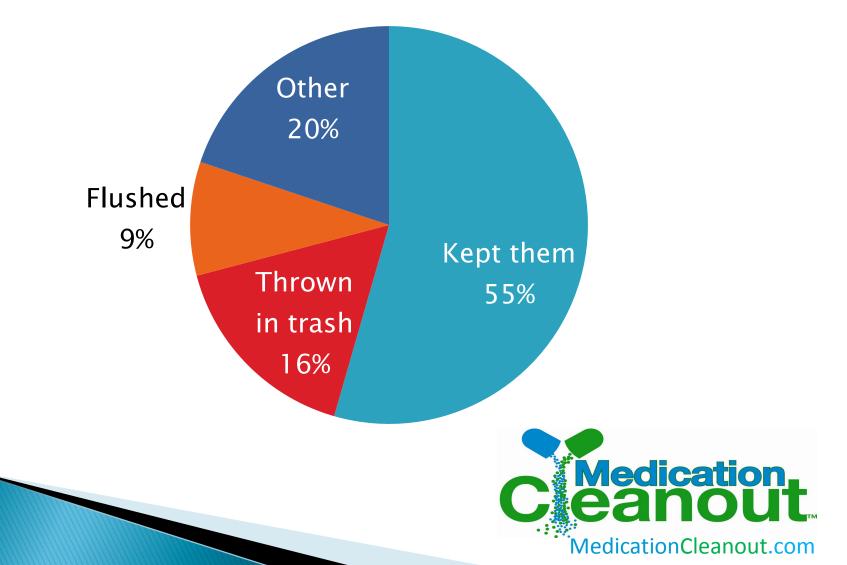
- TT Medical Center
 - 183 completed surveys
 - 397 pounds of noncontrolled substances
 - 35 pounds of controlled substances



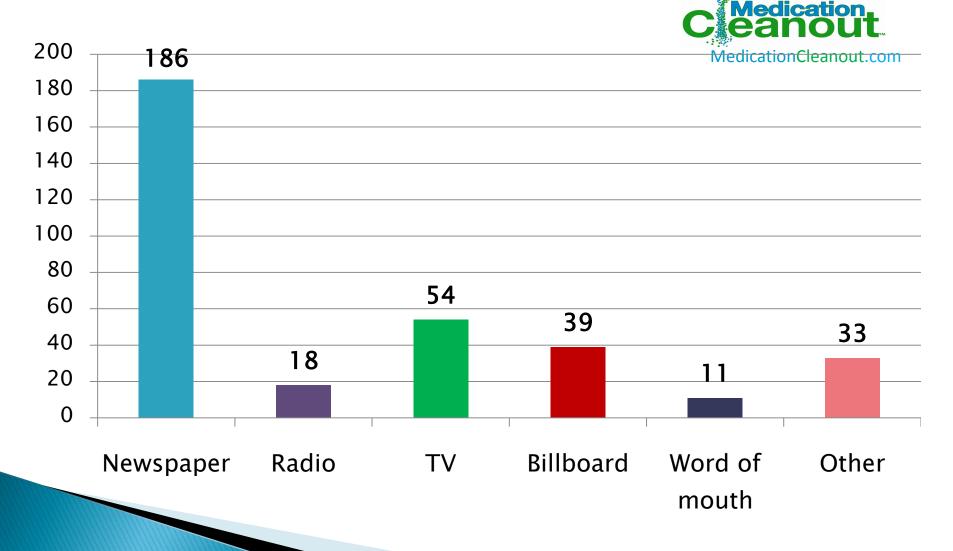
What I Would Have Done With My Meds If Medication Cleanout[™] Had Not Been Available



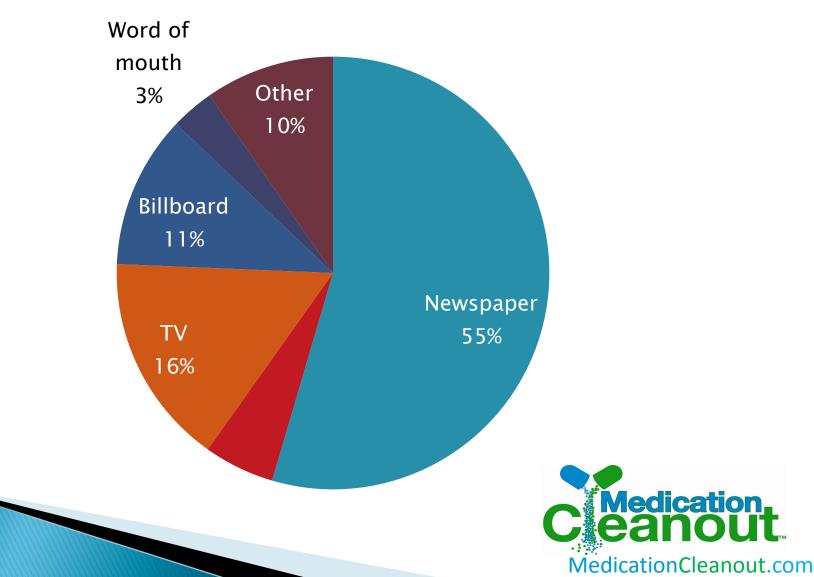
What I Would Have Done With My Meds If Medication Cleanout[™] Had Not Been Available



I Found Out About Medication Cleanout[™] From:



I Found Out About Medication Cleanout[™] From:



Access Database Collection Form

0	Secu	rity Warning Certain content in the database has been disabled Options
»	-=	Sept 2009 Collection Form
		Cleanout Sept 2009 Collection Form
Navigation Pane		Date and Time Location 10/17/2009 4:26:43 PM Image: Classification Your First Name Your Last Name Your First Name Your Last Name Item ID Classification (New) Classification (New) Classification Item ID Classification (New) Classification
		Name of Drug or Item Formulation Strength Unit number: Measurement V V PER V V Original Quantity (#) Unit Manufacturer DateDispensed DateExpired Is the item a sample?
		Quantity collected (#) Unit
Date		cord: I < 1 of 1 >> >> >> >> >> >> >> >> >> >> >> >> >

Controlled Substances Collected

Drug Class	Number of Packages	% of Total (Packages)	Number of Pills/Units/ml	% of Total (Pills/Units/ml)
analgesics	399	62.8%	11,671	51.2%
anticonvulsants	17	2.7%	801	3.5%
antitussives	48	7.6%	5,291	23.2%
appetite suppressants	6	0.9%	178	0.8%
benzodiazepines	95	15.0%	3,191	14.0%
CNS stimulants	17	2.7%	387	1.7%
hypnotics	36	5.7%	869	3.8%
miscellaneous other agents (5 or less each)	17	2.7%	416	1.8%
TOTAL	635	100.0%	22,804	100.0%

* excluded medications that were unidentifiable, but assumed to be controlled substances

Expiration Dates

- Of those packages of controls that were collected and for which expiration dates were recorded (n=148):
 - 93.2% were expired as of the date of the collection
 - [not expired = 10, expired = 138, unknown = 495]



Most Commonly Collected Controls

- Acetaminophen with codeine (Tylenol w/ codeine); 23 pkgs; 660 pills
- Alprazolam (Xanax); 15 pkgs; 508 pills
- Zolpidem tartrate (Ambien, Ambien CR); 29 pkgs; 660 pills
- Propoxyphene/Acetaminophen (Darvocet-N);
 95 pkgs; 2,950 pills
- Hydrocodone/acetaminophen (Lortab, Vicodin); 220 pkgs; 6,818 pills

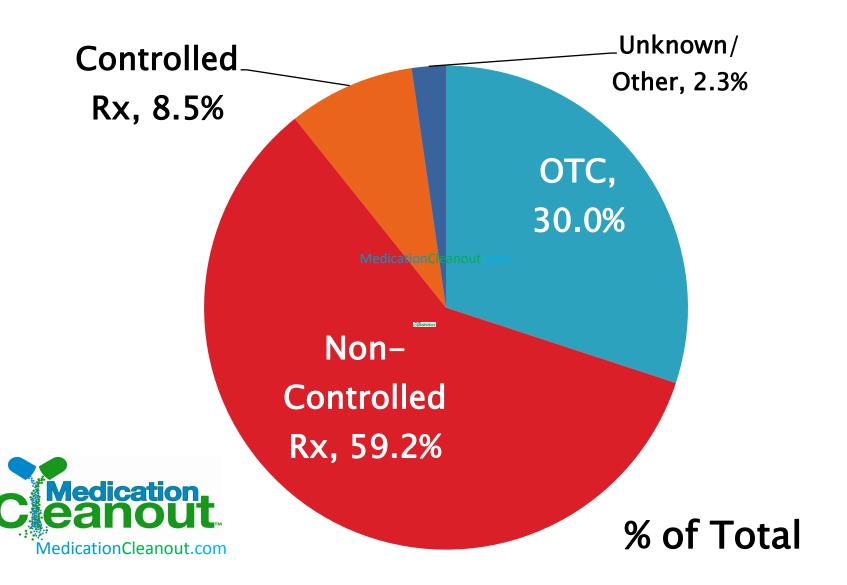




Packages/Bottles

Mon. Controlled Rt controlled Rt Unknown Other orc

Breakdown of Categories Collected



Future Directions

- Need for state-specific guidance
 - DEA
 - TCEQ, EPA
 - TSBP

Need for more than 1 model for programs

- Academic model– detailed inventory
 - All-inclusive vs. sampling
- Non-academic model- weights only
- Need for responsible programs



Risks to Programs

- Lack of funding
- Diversion
- Poor management of collections



Conclusions

- Programs are greatly needed
- Many medicines remain in homes
- Need for research on why medicines are not completed (Unused, Expired Medicines Registry – Community of Competence)
- If the public is not provided with a method for disposal, meds will remain in their homes or will be disposed of improperly



Contact Information

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Next Event: March 27, 2010