

# RCRA 101

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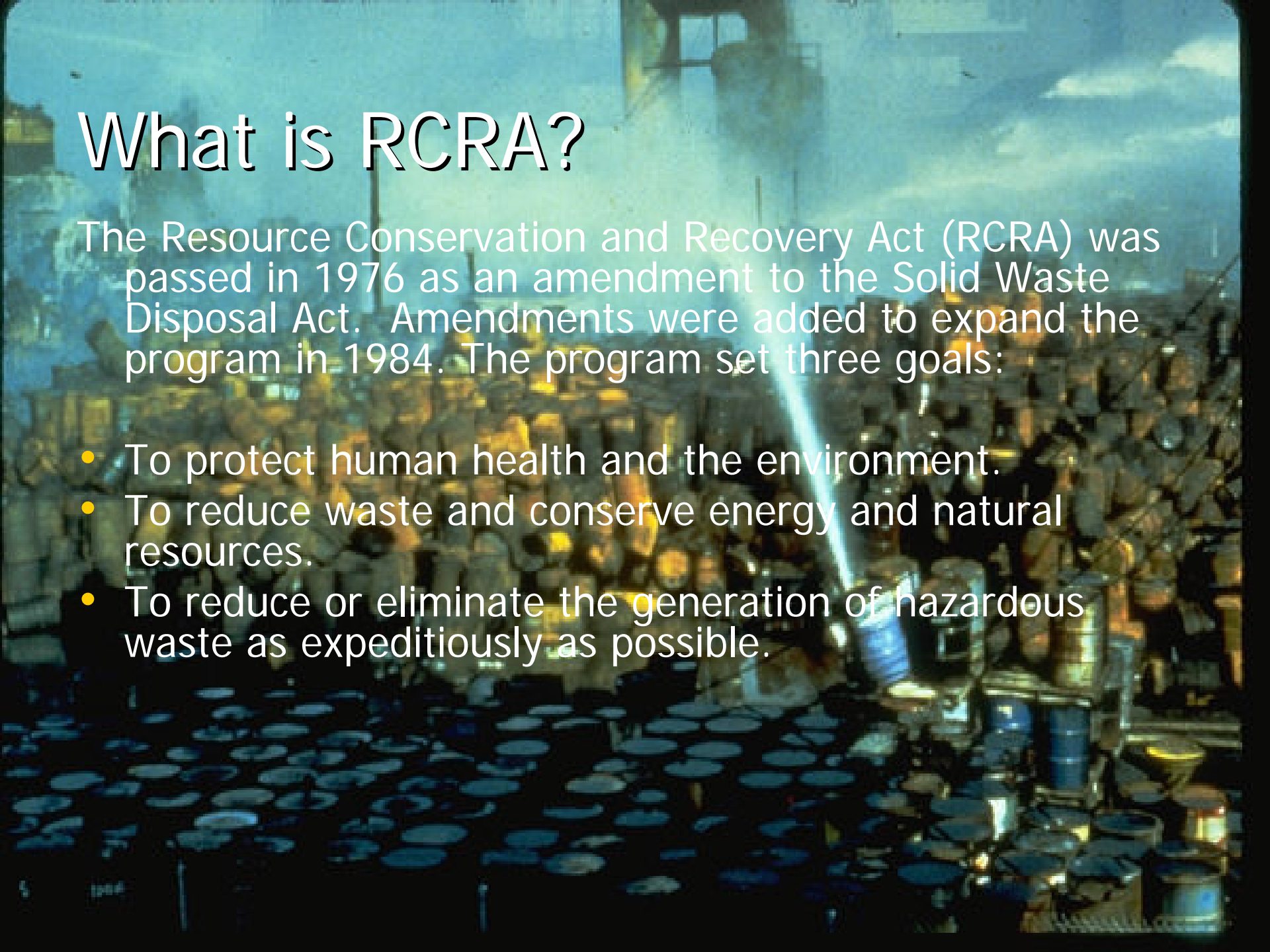
# What is RCRA?

- A. Really Complicated Regulatory Act
- B. Resource Conservation and Recovery Act
- C. Regulatory Consultant Retirement Act
- D. All of the Above

# What is RCRA?

The Resource Conservation and Recovery Act (RCRA) was passed in 1976 as an amendment to the Solid Waste Disposal Act. Amendments were added to expand the program in 1984. The program set three goals:

- To protect human health and the environment.
- To reduce waste and conserve energy and natural resources.
- To reduce or eliminate the generation of hazardous waste as expeditiously as possible.





What is a "Hazardous Waste"?

A. Radioactive Waste

B. Medical Waste

C. Wastes which are Flammable,  
Corrosive, Reactive or Toxic



# Two Types of Hazardous Waste

- Characteristic



Ignitable: Flash Point  $< 140^{\circ}$  Fahrenheit



Corrosive:  $\text{pH} \leq 2$  or  $\geq 12.5$



Reactive: Explosive, Water Reactive, Cyanide or Sulfide bearing waste



Toxic: Will generate leachate containing heavy metals, solvents or pesticides

- Listed



Defined by USEPA as hazardous waste based upon process generating waste or according to chemicals involved

# Generator Classifications

- **Conditionally Exempt Small Quantity Generator**
  - Each month generates less than 220 pounds of hazardous waste and less than 2.2 pounds of acute hazardous waste
  - Never stores more than 2,200 pounds of hazardous waste or 2.2 pounds of acute hazardous waste
- **Small Quantity Generator**
  - In any month generates between 220 and 2,200 pounds of hazardous waste and less than 2.2 pounds of acute hazardous waste
  - Stores up to 13,200 pounds of hazardous waste and less than 2.2 pounds of acute hazardous waste
- **Large Quantity Generator**
  - In any month generates more than 2,200 pounds of hazardous waste or more than 2.2 pounds acute hazardous waste
  - Stores more than 13,200 pounds of hazardous waste or more than 2.2 pounds of acute hazardous waste



# Acute Hazardous Waste

An Acute Hazardous Waste is normally designated by a "P" number as its waste code. Acute hazardous waste is a category of hazardous waste that can exert its toxicity with exposure to smaller quantities and in a shorter period of time than non-acute hazardous waste. This category of hazardous waste for the reasons mentioned has different reporting requirements. Sites that generate in any single calendar month, or accumulated at any time, 1 kg (2.2 lbs.) of acute hazardous waste are a RCRA LQG and must submit a Biennial Hazardous Waste Report to the Department for that reporting year.

# Storage Time Limits

- CESQG can store waste indefinitely. However once total quantity reaches 2,200 ponds facility becomes an SQG.
- SQG's can store waste for up to 180 days.
- LQG's can store waste for up to 90 days.



# EPA Identification Number

- SQG's and LQG's are required to obtain a USEPA identification number. In Region II call 212-637-4106 to obtain number.
- CESQG's are not required to obtain a USEPA identification number. May want to get an NJX identification number which can be obtained by calling 609-292-7081.

# Hazardous Waste Manifest

- SQG's & LQG's required to ship waste using hazardous waste manifest form.
- Must keep copies for 3 years.

The image shows a standard EPA Form 354 (Rev. 12/15) Hazardous Waste Manifest. The form is divided into several sections:

- SECTION 1: SENDER INFORMATION** - Includes fields for the sender's name, address, and EPA ID number.
- SECTION 2: RECEIVER INFORMATION** - Includes fields for the receiver's name, address, and EPA ID number.
- SECTION 3: WASTE DESCRIPTION** - A table with columns for waste code, quantity, and tracking information.
- SECTION 4: SPECIAL HANDLING INSTRUCTIONS** - A section for providing additional details about the waste.
- SECTION 5: CERTIFICATION** - Includes checkboxes for whether the waste is reported to the state and whether it is a manifest-only shipment.
- SECTION 6: RECEIVER INFORMATION** - Includes checkboxes for whether the waste is reported to the state and whether it is a manifest-only shipment.

A large, semi-transparent 'VOID' watermark is overlaid on the center of the form.



# Exception Reporting Requirements

- LQG's:
  - Generator must contact initial transporter or the TSDF operator within 35 days of shipping date.
  - Generator must submit to NJDEP written exception report within 45 days of shipping date.
- SQG's
  - Not required to submit exception report.
  - After 60 days Generator must submit to NJDEP a copy of manifest with note that signed TSDF copy is missing.





# Land Disposal Restriction Form

- SQG's and LQG's required to use Land Disposal Restriction Notification or Certification Form for initial shipment and if waste stream changes.
- Must keep copies of form for 5 years from shipping date.

# Biennial Report

- LQG's required to submit a report every two years summarizing waste shipments such as waste types, quantities, transporter and TSDF facilities utilized.



# Inspections

- SQG's
  - Weekly for hazardous waste storage containers
  - Daily/weekly for hazardous waste storage tanks
  - Log recommended but not required
- LQG's
  - Weekly for hazardous waste storage containers
  - Daily/bimonthly/yearly for hazardous waste storage tanks
  - Log required

# Inspection Log

- Are containers in good condition, not leaking?
- Are containers closed when not in use?
- Are containers marked "Hazardous Waste" and date?
- Are container markings visible?
- Are containers stored longer than allowed?  
LQGs = 90 days SQGs = 180/270
- Are containers segregated according to waste type?
- Are containers of ignitable or reactive waste 50' from property line? (LQG only)
- Is there adequate aisle space?
- Is there spill control, safety, communication, and fire control equipment present?
- Name, date, and time of person performing inspection
- Corrective action taken (Use separate sheet as necessary)



WEEKLY CONTAINER STORAGE AREA INSPECTION LOG

ITEM/WEEK	WEEK OF ____	WEEK OF ____	WEEK OF ____	WEEK OF ____	WEEK OF ____
Are containers in good condition, not leaking?					
Are containers closed when not in use?					
Are containers marked "Hazardous Waste" and date?					
Are container markings visible?					
Are containers stored longer than allowed? LQCs = 90 days SQCs = 180/270					
Are containers segregated according to waste type?					
Are containers of ignitable or reactive waste 50' from property line? (LQCs only)					
Is there adequate aisle space?					
Is there spill control, safety communication, and fire control equipment present?					
Name, date, and time of person performing inspection					
Corrective action taken (Use separate sheet as necessary)					

# Hazardous Waste Training

- SQG's
  - Basic waste handling familiarization & emergency procedures
  - Documentation not required but recommended
- LQG's
  - Full training
  - Initial & Annual refresher
  - Documentation required

# Preparedness & Prevention

- Familiarize fire, police, hospital & have emergency response contractor agreement.



# Contingency Plan

- SQG's
  - Basic plan - By the phone: Emergency Coordinator name & telephone #, fire department telephone #, & location of fire extinguisher & alarm & spill equipment.
- LQG's
  - Complete plan

Worksheet 1 Fill in and post this information next to your telephone.

## EMERGENCY RESPONSE INFORMATION

Emergency Coordinator

**Name:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_

Fire Extinguisher

**Location(s):** \_\_\_\_\_

Spill-Control Materials

**Location(s):** \_\_\_\_\_

Fire Alarm (if present)

**Location(s):** \_\_\_\_\_

Fire Department

**Telephone:** \_\_\_\_\_



**Worksheet 2** Fill in and post this information next to your telephone. Make sure all employees read and are familiar with its contents.

## **EMERGENCY RESPONSE PROCEDURES**

**In the event of a spill:**

Contain the flow of hazardous waste to the extent possible, and as soon as is possible, clean up the hazardous waste and any contaminated materials or soil.

**In the event of a fire:**

Call the fire department and, if safe, attempt to extinguish the fire using a fire extinguisher.

In the event of a fire, explosion, or other release that could threaten human health outside the facility, or if you know that the spill has reached surface water:

Call the National Response Center at its 24-hour number (800 424-8802). Provide the following information:

**Our company name:**

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**Our address:**

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**Our U.S. EPA identification number:**

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**Date of accident**

\_\_\_\_\_

**Time of accident**

**Type of accident (e.g., spill or fire)**

\_\_\_\_\_

**Quantity of hazardous waste involved**

**Extent of injuries, if any**

\_\_\_\_\_

**Estimated quantity and disposition of recovered materials, if any**

\_\_\_\_\_

