

# Arizona/Sonora Pesticide Collection Pilot Project

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# AZ/Sonora Pesticide Collection Project

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# AZ/Sonora Pesticide Collection Project

Presentation divided into following categories:

- Goals
- Scope
- Participants
- Process
- Lessons Learned
- Future Activities
- Arizona/Sonora-specific Discussion



# AZ/Sonora Pesticide Collection Project

## (Goals)

- Remove pesticides before they are released to the environment
- Demonstrate the feasibility of pesticide collection programs
- Assist with EPA goals:
  - **Goal IV of Border 2012:** Improve environmental health by **reducing** the risk to border residents that may result from exposure to air pollution, drinking water contaminants, **pesticides**, and other toxic chemicals
  - **2003-2008 EPA Strategic Plan:** By 2008, reduce by 20% the inventories of obsolete persistent organic pollutants (POPs) from the key source countries of Russia and Mexico. (DDT and Toxaphene were two POPS collected)

# U.S.-MEXICO BORDER REGION



# AZ/Sonora Pesticide Collection Project (Scope)

- Border 2012
  - Established six goals
- Established Regional Workgroups to fund specific projects
  - Relies on local taskforces to develop recommendations



# AZ/Sonora Pesticide Collection Project (Scope)

- Collect unwanted pesticides
- Participation limited to farmers
- Region selected because of intense agriculture



# AZ/Sonora Pesticide Collection Project (Scope)

- Two one-day collections:
  - Farmer in San Luis, Sonora with close to 35,000 lbs. of methyl parathion
  - San Luis, Sonora, Mexico on August 15, 2006
  - Yuma, Arizona on August 17, 2006



# AZ/Sonora Pesticide Collection Project (Participants)

<b>FEDERAL</b>	
<b>United States</b>	<b>Mexico</b>
EPA Region 9	SEMARNAT –Mexico City
EPA Headquarters	SEMARNAT –Sonora
<b>STATE</b>	
AZ Dept. of Agriculture	SAGARHPA –Dept. of Agriculture, Sonora
AZ Dept. of Environmental Quality	



# AZ/Sonora Pesticide Collection Project (Participants)

## Consultants:

- **TPSA** - expertise
- **Booz Allen Hamilton** – contractor
- **Clean Harbors** - subcontractor

## Funding provided by:

- EPA Region 9 Pesticide Program
- EPA Region 9 Border 2012 Program
- EPA Office of International Activities (OIA)
- EPA Office of Research and Development (ORD)



# AZ/Sonora Pesticide Collection Project (Process)

## Importing Hazardous Waste into U.S.

- Identify Experienced Contractor
- Determine Destination Facility
- Provide details to Mexican Government
- Coordinate with Stakeholders



# AZ/Sonora Pesticide Collection Project (Process)

## Collecting Waste Pesticides in Arizona

- Identify Experienced Contractor
- Determine Destination Facility
- Estimate Waste
- Obtain EPA RCRA ID Number



# AZ/Sonora Pesticide Collection Project

(Process)

## Waste Classification

- RCRA Universal waste
  - Arizona Wastes
- RCRA Hazardous waste
  - Unknown Wastes
  - Mexican Wastes
  - Pesticides containing tri-, tetra-, or pentachlorophenol.



# AZ/Sonora Pesticide Collection Project

## (Process)

### Incineration

- Most wastes incinerated in Utah
- Need 99.9999% destruction for dioxin wastes.
- No Six-9's incinerators in U.S.
- Canada received 221 pounds and 73 gallons of unknown pesticides.



# AZ/Sonora Pesticide Collection Project (Lessons Learned)



- **Plan in Series**

Estimate quantities – Subcontract Hauler - Permit

# AZ/Sonora Pesticide Collection Project

(Lessons Learned)

- **Site Conditions**
  - Site Visit
  - Increase Waste Volumes on Permit
  - Budget for Contingencies



# AZ/Sonora Pesticide Collection Project (Lessons Learned)



- **Stuff Happens**

Prior planning helps make quick, good decisions in the field.

# AZ/Sonora Pesticide Collection Project (Future Activities)



Fall 2007 collection planned for Imperial Valley border area

# AZ/Sonora Pesticide Collection Project

(Future Activities)

- Arizona is interested in conducting pesticide collections throughout the state.
- Mexico has committed to inventory their waste pesticides throughout the country.

