





Toxic Release Inventory What are the thresholds?

Manufacturing or Processing

- 25,000 pounds per chemical/year

• Otherwise Using the chemical

- Does not become part of the final product
- 10,000 pounds per chemical/year

• Lowered thresholds in 2000 and 2001 for Persistent Bioaccumulative Toxins

- 100 pounds, 10 pounds or 0.1 gram for dioxin

what are the lowered thresholds?					
Pe	rsistent Bioaccun	nulative Toxins			
100 lbs/yr -	Aldrin	PAC's			
·	Methoxychlor	Tetrabromobisphenol A			
	Pendimethalin	Irifluralin Lood Compounds			
10 lbs/vr -	Chlordane	Benzo(g h i)nervlene			
10 105/ y1 -	Heptachlor	Hexachlorobenzene			
	Mercury	Mercury compounds			
	Toxaphene	Octachlorostyrene			
	Isodrin	Pentachlorobenzene			
	PCBs				
0.1 g/yr -	Dioxin and dioxin	-like compounds			

Toxic Release Inventory What is Reported?

Multi-media

Air, Water, Land, Transfers Off-site

Transfers Off-site for Further Waste Management

On-site Waste Management

Environmental Permit Information

TRI 2008 National Data				
• Keg	jionaliy –			
- 8	.7% decrea	se on on-sit	te and offsite	e from 200
State	2007 Total Releases	2008 Total Releases	2007-2008 Change	2007-2008 % Change
Virgin Islands	769,966	817,826	47,861	6.2
Puerto Rico	5,243,876	5,204,834	-39,042	-0.7
Puerto Rico New Jersey	5,243,876 20,576,252	5,204,834 17,974,449	-39,042 -2,601,803	-0.7 -12.6































National Partnership for Environmental Priorities (NPEP)

- National Partnership for Environmental Priorities (NPEP)
 - RCRA partnership program focused on reducing the use of potentially hazardous chemicals from products and processes.
 - Chemicals focused in Region 2
 - Naphthalene
 - Mercury
 - Lead

National Partnership for Environmental Priorities (NPEP)

- Reductions achieved:
 - Lead : 1.7 million pounds
 - Mercury: 1,163 pounds
- Reductions committed:
 - Naphthalene: 116, 454 lbs

Region 2 Priority Targeting Effort

- Identify candidates for Clean Water Act sampling inspections and/or non-sampling P2 inspections to be conducted by:
 - Division of Environmental Science & Assessment
 - Division on Environmental Planning & Protection

Region 2 Priority Targeting Effort

- Monitoring and Assessment Branch
 - Conducts monitoring inspections
 - sampling and non-sampling work in various media
 - Prepares reports documenting
 - Inspection and findings (including analytical sampling results)
 - Conducts P2 inspections
- RSEI Water Analysis was shared
 - Interest in having P2 inspections and water sampling at greater risk facilities emerged

Facility Name	Location	RSEI score
CWM Chemical Services, LLC	Model City, Niagara County, NY	96672.33
Gulf Oil L P Linden Terminal	Linden, Union County, NJ	16363.37
Kennedy Valve	Elmira, Chemung County, NY	9876.81
Vineland Municipal Electric Utility – H. M. Down Station	Vineland, Cumberland County, NJ	5647.56
GE Noryl LLC	Selkirk, Albany County, NY	3277.38
Sybron Chemicals Inc	Birmingham, Burlington County, NJ	2115.42
Delphi Thermal & Interior Lockport	Lockport, Niagara County, NY	2085.88

Region 2 Priority Targeting Effort

- First inspection with a sampling component looking to identify TRI issues was:
 - Gulf Oil LP Linden Terminal, Linden NJ
 - Petroleum bulk terminal that discharges to the Rahway River in NJ
 - Reported 420 pounds water emissions
 - 2003 RSEI ranked it the 2nd facility that contributes to the overall water risk in the Region



Region 2 Priority Targeting EffortChemicals emitted by the facility to water are chemical components of gasoline Facility has a Stormwater NPDES permit to emit to Rahway River Close to the EPA Region 2 Edison Facility Served as test of priority setting exercise CWA inspection with monitoring and P2 inspection was conducted

What we learned !

- NPDES Permit is for Oil& Grease and suspended solids
 - -No specific TRI chemical was targeted
- Facility used amount of oil and grease to calculate TRI Releases; speciation based on gasoline components



What we learned !

- Future inspections under the priority targeting effort now include sampling for TRI chemical contributing to RSEI water risk
- Petroleum bulk stations in the area have changed business operations and might not be covered by TRI
- Approach has started the dialog with the Water Program that could provide further direction in the Region