

Commission for Environmental Cooperation

Air Quality and Pollutant Releases Program

JPAC Meeting
June 24, 2009
Denver, Colorado

Orlando Cabrera-Rivera



Air Quality and Pollutant Releases Program

Projects that create an infrastructure allowing the three Parties to:

- exchange information*
- reach a common vision*
- work cooperatively on addressing environmental issues*

Focus on: Capacity-building, Information for Decision-making, and the Assessment of Emerging Trends.



Enhancing North American Air Quality Management

- Provide a more complete North American picture of air quality and air emissions to support decision-making on air quality management

North American Pollutant Release and Transfer Register (PRTR) Project

- Integration of North American PRTR data (TRI, NPRI, RETC) to improve our understanding of the industrial sources and handling of pollutants of common concern



Enhancing North American Air Quality Management

Current Activities:

- Compilation of and updates to Mexico's National Emissions Inventory
- Comprehensive assessment of North American air emissions inventories and monitoring networks (Completed in Dec. 2008)
- Update to North American Power Plant Emissions Report
- North American Strategy for Air Quality Management (June 09).
 - Comparability/Compatibility
 - Accessibility
 - Capacity Building
 - Support for multi-pollutant approach



North American PRTR Project

Current Activities:

- Promote comparability and consistency in reporting, data collection and quality assurance
- Annual *Taking Stock* report and *Taking Stock Online*
- Support Mexico's development and integration of PRTR state and federal programs
- Stakeholder input via the annual meeting of the North American PRTR Consultative Group (general public, NGOs, industry, governments, media)
- Promote international linkages.



Taking Stock 2005 (June 2009)



- Industrial releases in North America to air, land, and water
- Transfers to recycling or other management
- Analyses by pollutant and industry sector
- Special feature chapter on the petroleum industry in NA
- Raises awareness of health and environmental issues
- Enables collaboration across borders and with industry.



Taking Stock 2005 in numbers

PRTR Program	No. of Facilities	Substances Listed (Reported)	Tonnes reported
Canada NPRI	8,773	325 (203)	2,046,368
US TRI	23,798	650 (512)	3,510,941
Mexico RETC	2,452	104 (73)	65,232
North American Total	35,023		5,557,308



Taking Stock 2005 - Key Findings

Top reporting sectors in each country:

Canada	Mexico	United States
Oil and gas extraction	Metal mining	Chemicals manufacturing
Primary metals	Electric utilities	Primary metals
Wastewater treatment	Electrical equipment manufacturing	Mining



Taking Stock 2005

Key Findings (continued)

- 5.5 billion kg of toxic pollutants reported, along with 32 billion kg of criteria air contaminants.
- 30 substances accounted for 90% of all releases and transfers; 9 were subject to reporting to all 3 PRTR programs.
- Handling of toxic pollutants:
 - Canada: 50% - transfers to recycling;
 - Mexico: 70% releases to air;
 - United States: air releases = 20%; land releases = 20%; and transfers to recycling = 20%.
- Most cross border transfers were to recycling or treatment.



TS 2005 – Feature on the Petroleum Industry

Key Findings

- 1.5 billion kg, or 25%, of all toxic releases and transfers reported by all industry sectors in 2005.
 - 1.36 billion kg was hydrogen sulfide reported only by Canadian oil and gas extraction facilities.
- 3.7 billion kg of criteria air contaminants.
- Hydrogen sulfide – example of the gaps in our understanding of industrial pollution resulting from differences in reporting requirements.
- Identification of areas to enhance comparability, and to prioritize pollutants and actions to reduction pollution.





Taking Stock: North American Pollutant Releases and Transfers

[Search the Database](#)

[PRTR facility mapping tool \(*Google Earth*\)](#)

[Using and Understanding the Data](#)

[Glossary of Terms](#)

[Taking Stock report](#)

[Key findings from *Taking Stock 2005*](#)

[TS 05 Feature chapter: Releases and Transfers from the North American Petroleum Industry](#)

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Taking Stock

Taking Stock is an annual report that analyzes data reported to the pollutant release and transfer registers (PRTRs) of Canada, Mexico and the United States to present a North American picture of industrial pollution. The data are reported by industrial facilities to the three North American PRTRs:

1. Canada's National Pollutant Release Inventory (NPRI)
2. US Toxics Release Inventory (TRI)
3. Mexico's *Registro de Emisiones y Transferencia de Contaminantes* (RETC)

Taking Stock Online, the CEC's integrated and searchable database, allows users the opportunity to compare and analyze North American releases and transfers of pollutants by location, substance, facility and type of release or transfer, and to map the results.

Select an option below to learn more:

[Search the Database](#)

Search the PRTR database and create and download your own reports.

[PRTR Facility Mapping Tool](#)

A downloadable file that can be opened using *Google Earth* to enable interactive mapping of some 35,000 North American industrial facilities that reported data in 2005.

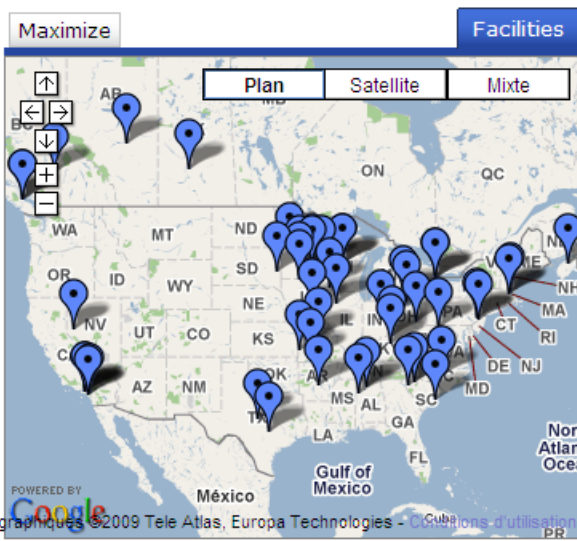
[Using and Understanding the Data](#)

PRTR data can be complex. Here is a guide on how to interpret

Taking Stock: North American Pollutant Releases and Transfers

Query Results [Create new query | Modify existing query]

Report Type: Facility
Year: 2004, 2005
Country: All Countries
State/Province/Territory (St/Pr/Ter): All States, Provinces, Territories
Pollutant Type: Known or Suspected Carcinogens
Pollutants: [List of all pollutants queried \(187\)](#)
Industry: All Industries



The tool also allows you to 'drill down' to view additional information. For example, click on the name of a facility and you will get an overview of that facility's data. Click on the name of a state or province to view a summary report. Other clicks will lead you to explanations of terms and features.

Total Releases and Transfers Total releases (on-site and off-site) All

On-site Releases Total Air emissions Surface water discharges Underground injection Land releases

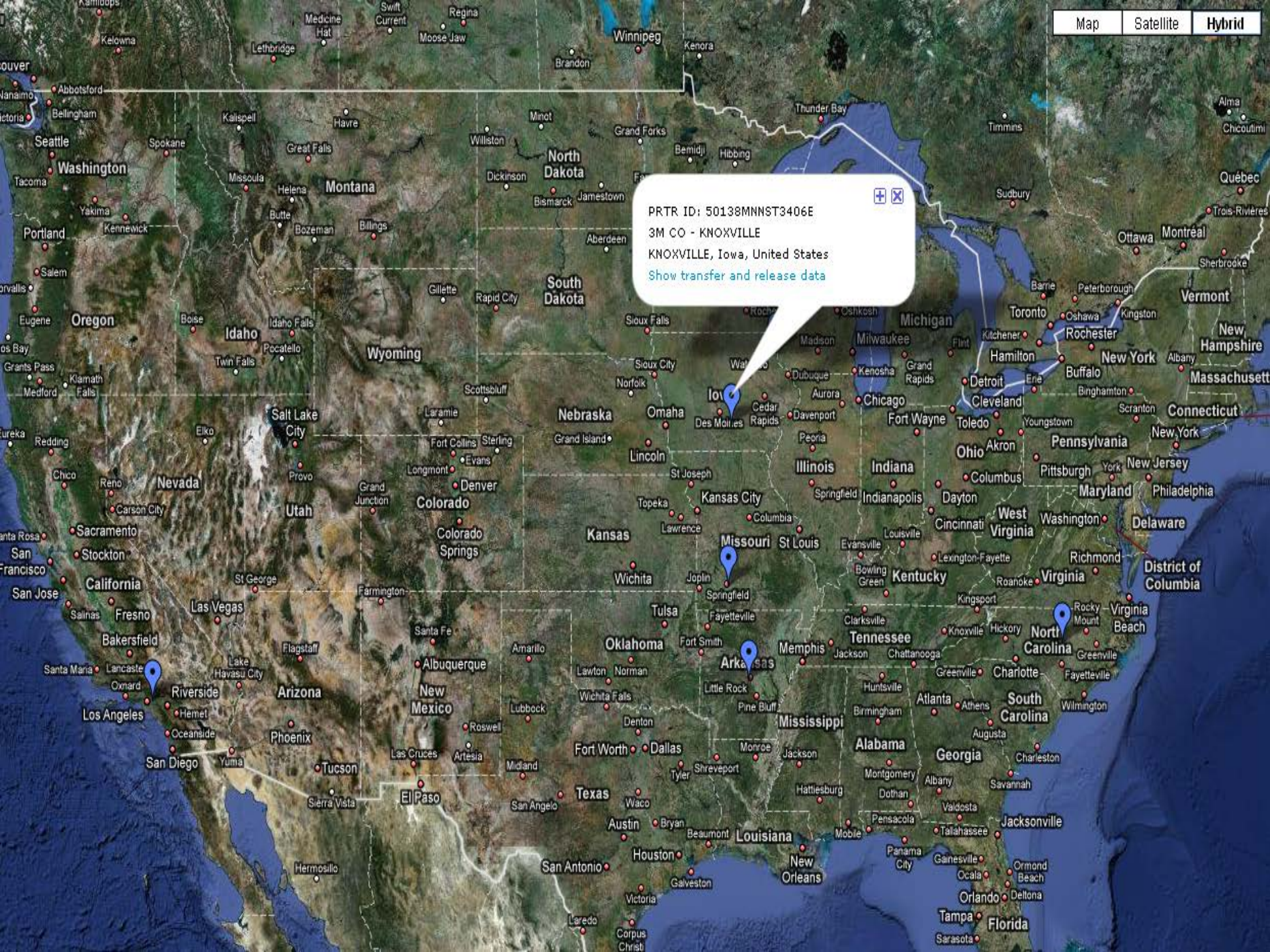
Off-site Releases Total To disposal (except metals) To disposal of metals

Recycling Transfers Total To recycling (except metals) To recycling of metals

Other Transfers Total To treatment (except metals) To sewage/POTWs (except metals) To energy recovery (except metals)

Click on column headers to sort data accordingly

Facility Name	PRTR ID	City	St/Pr/Ter	Country	Total Releases and Transfers	
					2004 (kg)	2005
1 SENECA LEAMINGTON	0000004503	Leamington	Ontario	Canada	11,000.00	11,000.00
West Fraser Mills Ltd. - 100 Mile Lumber - A Division of West Fraser Mills	0000007704	100 Mile House	British Columbia	Canada	130.62	130.62
115 NEWKIRK	0000005874	Richmond Hill	Ontario	Canada	23,471.54	20,000.00
Hilton Garden Inn Hotel Markham - 1392275 Ontario Inc / hilton	0000010637	markham	Ontario	Canada	0	0
14 Wing Greenwood	0000000745	Greenwood	Nova Scotia	Canada	60,100.96	49,000.00
17 Wind Detachment Dundurn	0000006676	Dundurn	Saskatchewan	Canada	1,422.67	1,422.67



PRTR ID: 50138MNNST3406E
3M CO - KNOXVILLE
KNOXVILLE, Iowa, United States
[Show transfer and release data](#)



PRTR ID: 50138MNNST3406E
3M CO - KNOXVILLE
KNOXVILLE, Iowa, United States

Media Type	2004 (kg)	2005 (kg)	Δ (kg)	Δ %
Total Releases and Transfers	13,106.58	12,931.52	-175.06	-1.34
Total releases (on-site and off-site)	2,222.22	2,131.52	-90.70	-4.08
On-site Releases Total	2,222.22	2,131.52	-90.70	-4.08
On-site air emissions	2,222.22	2,131.52	-90.70	-4.08
On-site surface water discharges	0	0	0	--
On-site underground injection	0	0	0	--
On-site land releases	0	0	0	--
Off-site Releases Total	0	0	0	--
Off-site to disposal (except metals)	0	0	0	--
Off-site to disposal of metals	0	0	0	--
Recycling Transfers Total	4,988.66	9,525.62	4,536.96	90.95
Transfers to recycling (except metals)	4,988.66	9,525.62	4,536.96	90.95
Transfers to recycling of metals	0	0	0	--
Other Transfers Total	5,895.69	1,274.38	-4,621.32	-78.38
Transfers to treatment (except metals)	5,895.69	1,271.20	-4,624.49	-78.44
Transfers to sewage/POTWs (except metals)	0	0	0	--
Transfers to energy recovery (except metals)	0	3.17	3.17	--



Taking Stock: North American Pollutant Releases and Transfers

Query Results [Create new query | Modify existing query]

Report Type: Facility (drilldown)

Report ID: 50138MNNST3406E

Facility: 3M CO - KNOXVILLE

Year: 2004, 2005

Country: All Countries

State/Province/Territory (St/Pr/Ter): All States, Provinces, Territories

Filter

Pollutant Type: Known or Suspected Carcinogens

Pollutants: List of all pollutants queried (187)

Industry: All Industries

This tool also allows you to 'drill down' to view additional information. For example, click on the name of a facility and you will get an overview of that facility's data. Click on the name of a state or province to view a summary report. Other clicks will lead you to explanations of terms and features. Click media type buttons below to show or hide corresponding table columns.



Total Releases and Transfers Total releases (on-site and off-site) All

- On-site Releases Total Air emissions Surface water discharges Underground injection Land releases
- Off-site Releases Total To disposal (except metals) To disposal of metals
- Recycling Transfers Total To recycling (except metals) To recycling of metals
- Other Transfers Total To treatment (except metals) To sewage/POTWs (except metals) To energy recovery (except metals)

Click on column headers to sort data accordingly

Drilldown by Chemical

Pollutant	CAS Number	Total Releases and Transfers		On-site Releases Total		Recycling Transfers Total		Other Transfers Total	
		2004 (kg)	2005 (kg)	2004 (kg)	2005 (kg)	2004 (kg)	2005 (kg)	2004 (kg)	2005 (kg)
Ethylbenzene C	100-41-4	13,106.58	12,931.52	2,222.22	2,131.52	4,988.66	9,525.62	5,895.69	1,274.38
Total for this page		13,106.58	12,931.52	2,222.22	2,131.52	4,988.66	9,525.62	5,895.69	1,274.38

Records returned

First < prev 1 next > last >>

C = Known or suspected carcinogen





Taking Stock: North American Pollutant Releases and Transfers

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[PRTR facility mapping tool \(Google Earth\)](#)

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The CEC's new map layer for *Google Earth* lets users explore pollution data from about 35,000 industrial facilities in North America

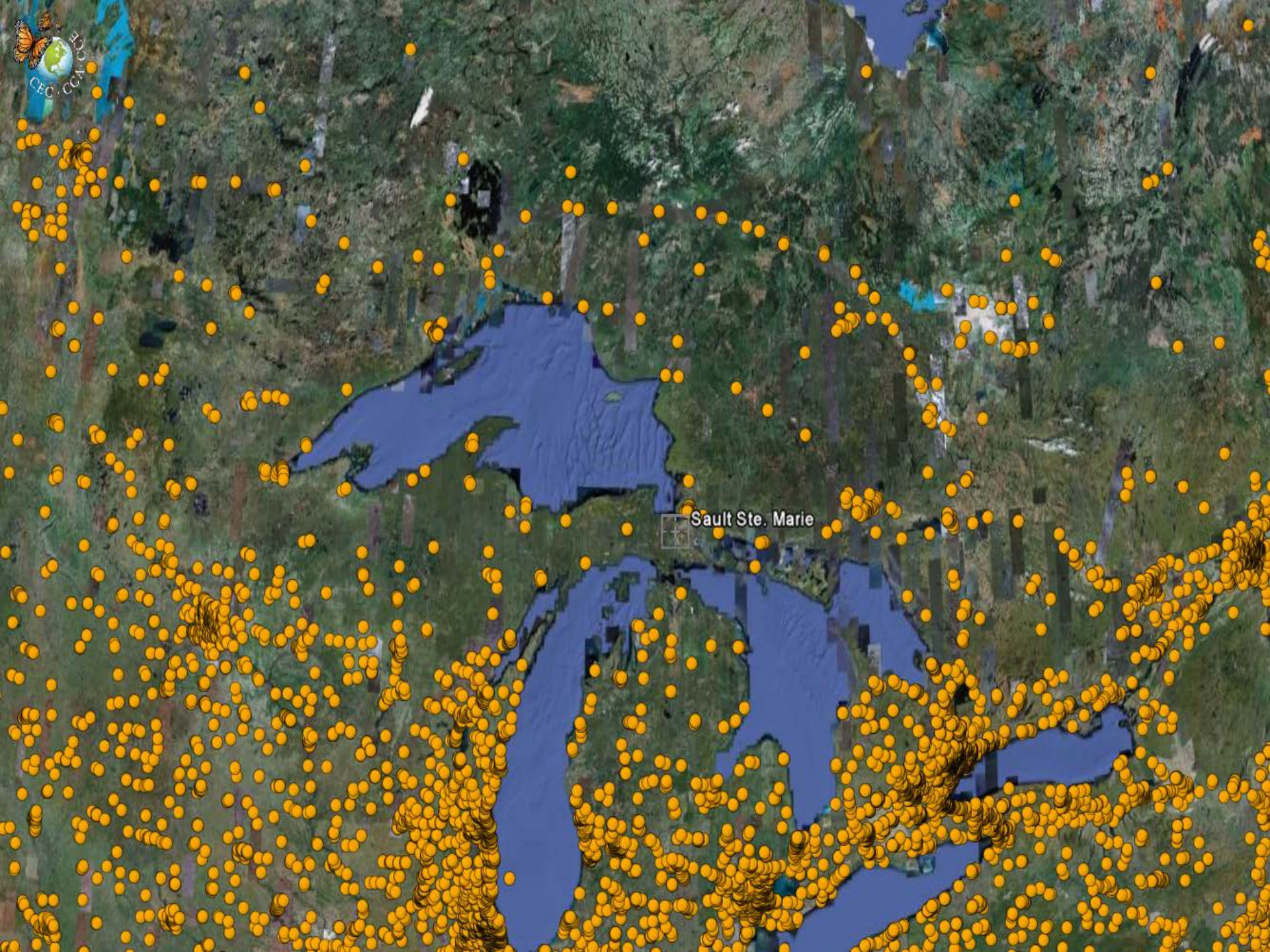
With new information on chemical releases and transfers from Mexican industrial sources now available to the public, the CEC has created the first seamless, North America-wide map layer connecting citizens with point-specific industrial pollutant data in Canada, Mexico and the United States.



© Google Earth - © 2007 Europa Technologies - Images © 2007 TerraMetrics - Image NASA - ©2007 Navteq

Using the *Google Earth* mapping service—innovative and free computer program that allows users to explore geographic data projected over satellite images and aerial photography—the CEC's map layer plots about 35,000 North American industrial facilities that reported releases and transfers of pollutants in 2005, the most recent data available from all three countries.





Sault Ste. Marie





Commission for Environmental Cooperation
Comisión para la Cooperación Ambiental
Commission de coopération environnementale

ALGOMA STEEL INC.

105 WEST Street
Sault Ste. Marie, ON
Canada

[Facility Data NPRI 2005 Report](#)

Canada
[Environment Canada](#)

[About this Mapping Project](#)
[Frequently Asked Questions](#)



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Data as of: May 15, 2009

2005 Facility & Substance Information for ALGOMA STEEL INC. - STEELWORKS

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- [Ontario O.Reg. 127/01 Substance Report](#)
- [Help document](#)

Facility Location Information

ALGOMA STEEL INC. - STEELWORKS

NPRI ID: 1070
ON MOE ID:5083
105 WEST Street
Sault Ste. Marie, ON
P6A 7B4
canada

[\(Click here for more detailed facility information\)](#)

Substance Reports (Excluding Criteria Air Contaminants)



- [Other Years' Substance Reports](#)

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