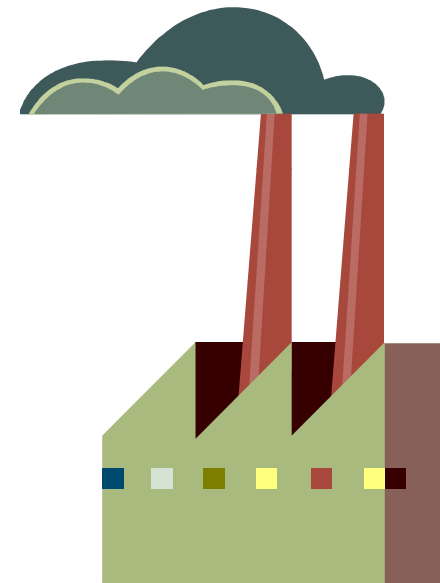


# Information for Case Studies

TRI National Training Conference

April 12, 2012

David Sarokin, Pollution Prevention Division  
sarokin.david@epa.gov 202-564-8852



# TRI and Case Studies

## Success Story—Har-Conn Chrome Company

**Har-Conn Chrome Company** (Har-Conn) is an independently owned metal-finishing company specializing in aerospace and high-technology applications of electroplating and related coatings. Like any company competing in today's low-cost world, Har-Conn looks for cost savings wherever it can find them—which is why Har-Conn's president, Tim Backus, has teamed with the Green Suppliers Network. CONNSTEP, the Connecticut MEP center, worked with Har-Conn to conduct a top-level assessment of the company. From this analysis, CONNSTEP identified on-time delivery, lead times, energy usage, and external and internal rework as well as areas where Har-Conn can make significant improvements that can save the company up to \$424,500 annually. To date, the Har-Conn/CONNSTEP team has completed training in lean/green awareness and value stream mapping and has begun working on the following improvement opportunities:

- Improve management of boiler fuel (annual cost savings of \$36,008) and recover compressor waste heat (annual savings of \$2,601). Since undergoing a Green Suppliers Network review, Har-Conn has also completed an energy audit that identified a 16-percent reduction in energy bills.
- Install rinse water flow controls (annual cost savings of \$13,353) and determine optimal water setting on rinse tanks to promote cleanliness and ensure the continued integrity of the plating.
- Track internal rework with immediate feedback to the floor.
- Develop a process to encourage staff to readily impart existing knowledge and cross-train on the best practices and standard work procedures.

# TRI and Case Studies

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**Har-Conn Chrome**  
finishing comp:  
electroplating  
cost world, Har  
why Har-Conn'

Hi-tech metal finishing and  
electroplating company

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Teamed with MEP and state of Connecticut TAP to identify cost saving environmental improvements

Har-Conn to  
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Potential savings:  
**\$424,500 a year**

# TRI and Case Studies

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- Improve management of boiler fuel (annual cost savings of \$36,008) and recover compressor waste heat (annual cost savings of \$20,000). As a result of the Green Suppliers Network review, Har-Conn achieved a 16-percent reduction in energy usage.
- Install rinse water flow controls (optimal water setting on rinse tanks) to improve the integrity of the plating.
- Track internal rework with immediate feedback.
- Develop a process to encourage employees to train on the best practices and share ideas.

Lean manufacturing and employee training will lead to energy, water, material savings

# What More Can Be Added?

Case studies can take advantage of mountains of environmental data:

- TRI
  - Releases and Transfers
  - P2 information
- Air, water permits
- Hazardous waste generation
- Compliance and enforcement history
- Specialty state and local data sources



# Not Just Case Studies

- Information resources are important for any
  - Informational site visits
  - Technical assistance
  - Permit reviews
  - Compliance and enforcement inspections

# Envirofacts!

- [Epa.gov/enviro](http://Epa.gov/enviro)

The screenshot shows the Envirofacts website interface. At the top, there are three navigation tabs: "How to Use Envirofacts", "News and Information", and "Data Update". Below these are several icons representing different environmental topics. The main header features the "Envirofacts" logo and the tagline "Your one-stop source for Environmental Information".

The central area is divided into two main sections:

- Get the EnviroFACTS!**: This section includes a text box for entering a location (address, zip, city, county, waterbody, park name, etc.) and a search button labeled "Advanced".
- Topic Searches**: A grid of icons for various environmental topics: Air, Land, Water, Waste, Toxics, Radiation, Facility, Compliance, and Other.

Below these sections is the "Envirofacts System Data Searches" section, which includes a "Multisystem Search" button and a list of search categories:

- AFS
- BR
- Brownfields-Cleanups
- CERCLIS Cleanups
- ECHO/IDEA
- FRS
- EZ Search
- Organization Search
- ICIS
- ICR
- IGMS
- Locational Information
  - Locational Search
  - PCS
  - Customized Search
  - RADInfo
- RadNet
  - Customized Search
  - RCRAInfo
  - SDWIS
  - SRS
  - TSCA
  - UV Index
- TRI
  - Customized
  - EZ
  - Form R
  - Form R & A Download
  - State Reports
  - TRI Explorer

At the bottom, there is an "Other Sites of Interest" section with links to Geospatial Download, EnviroMapper, MyEnvironment, and TRI Explorer.

## Get the EnviroFACTS!

Retrieve information from multiple sources of Envirofacts' System Data for your area of interest.

*Enter a location such as address, zip, city, county, waterbody, park name, etc.*



**Advanced**

## Topic Searches



Air



Waste



Facility



Land



Toxics



Compliance



Water



Radiation



Other

Envirofacts

is the

 of

environmental data

# TRI and Case Studies

- Data for preparing for a site visit
- Data for writing case study results
- Data for evaluating case studies after the fact

# Har-Conn and Envirofacts

## *Find all company facilities*

### LIST OF EPA-REGULATED FACILITIES IN ENVIROFACTS

via an interactive map, please view your results in *EnviroMapper for Envirofacts*. Use the buttons located beneath the facility name and address information to obtain facility.

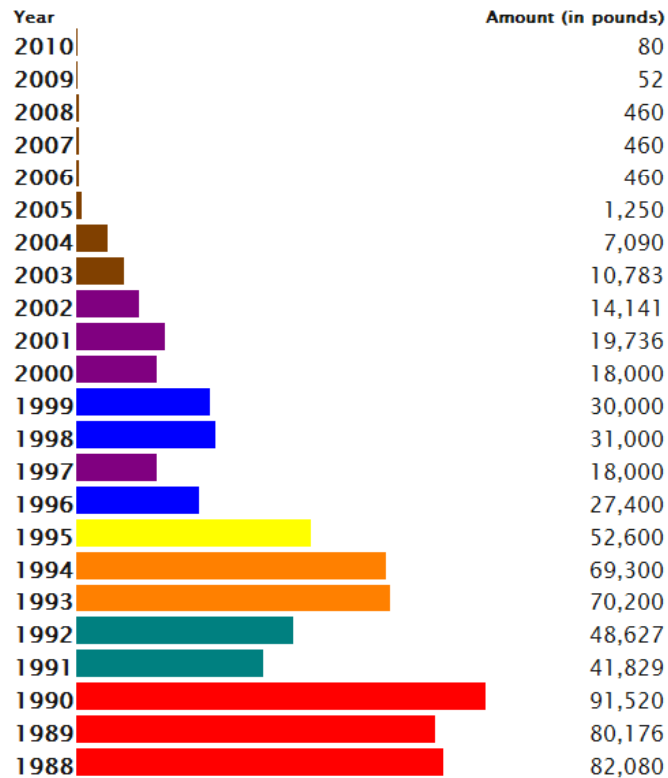
FACILITY INFORMATION	AFS <sup>i</sup>	ACRES <sup>i</sup>	BR <sup>i</sup>	CERCLIS <sup>i</sup>	PCS <sup>i</sup>	RADInfo <sup>i</sup>	RCRAInfo <sup>i</sup>	TRI <sup>i</sup>	TSCA <sup>i</sup>
<p>HAR-CONN CHROME CO</p> <p>Alternative Names for this Site:</p> <p>HAR-CONN CHROME COMPANY, INC.</p> <p>HAR-CONN CHROME COMPANY</p> <p>HAR-CONN CHROME CO. METAL FINISHING SPECIALISTS</p> <p>HAR-CONN CHROME CO.</p> <p>HAR-CONN CHROME</p> <p>HAR-CONN CHROME COMPNAY, INC.</p> <p>603 NEW PARK AVENUE WEST HARTFORD, CT 06110-1380</p> <p><a href="#">Summary Report</a> <a href="#">Facility Report</a> <a href="#">Compliance Report</a></p>	<a href="#">View Report</a>					<a href="#">View Report</a>	<a href="#">View Report</a>		
<p>HAR-CONN CHROME CO</p> <p>Alternative Names for this Site:</p> <p>HAR-CONN CHROME CO.</p> <p>HAR-CONN CHROME CO OF GA INC</p> <p>4530 CARGO DR. COLUMBUS, GA 31907</p> <p><a href="#">Summary Report</a> <a href="#">Facility Report</a> <a href="#">Compliance Report</a></p>							<a href="#">View Report</a>	<a href="#">View Report</a>	
<p>HAR-CONN CHROME COMPANY OF TEXAS</p> <p>Alternative Names for this Site:</p> <p>HAR-CONN CHROME CO. CHROME OF TEXAS</p> <p>HAR-CONN CHROME COMPANY OF TEXAS INC</p> <p>5000 AUGUSTA DRIVE FORT WORTH, TX 76106-1803</p> <p><a href="#">Summary Report</a> <a href="#">Facility Report</a> <a href="#">Compliance Report</a></p>	<a href="#">View Report</a>						<a href="#">View Report</a>	<a href="#">View Report</a>	

# Generate TRI Reports and Charts

Case study, 2005 →

## Aggregate Releases of TRI Chemicals to the Air:

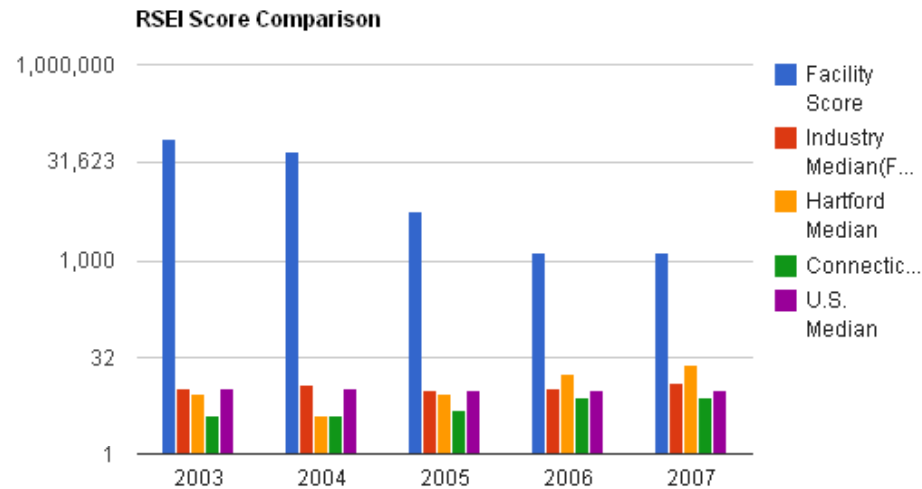
*This bar chart summarizes the reported annual releases of a toxic chemical from the as a range, the mid-point of the range was used in these calculations.*



• Total Releases – 715,244



# Risk Screening Environmental Indicators (RSEI)



Case study, 2005 →

Year	Facility Score	Industry Median (Fabricated Metals)	County Median	State Median	U.S. Median
2003	72,561	11	9	4	11
2004	46,593	12	4	4	11
2005	5,344	10	9	5	10
2006	1,333	11	18	8	10
2007	1,333	13	25	8	10

# Full TRI Reports

DOCUMENT CONTROL NUMBER	CHEMICAL NAME	FORM TYPE INDICATOR
1310208511030	LEAD COMPOUNDS	FORM R
1310208511042	NITRATE COMPOUNDS	FORM R
1310208511055	NITRIC ACID	FORM R

Har-Conn *Chrome* Co.  
*Where's chromium?*

# Source Reduction Reporting

## Section 8. Source Reduction and Recycling Activities

SECTION	TYPE OF QUANTITY	UNITS	PRIOR YEAR	CURRENT REPORTING YEAR	FOLLOWING YEAR	SECOND FOLLOWING YEAR
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills		NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	Pounds	52	80	80	80
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	Pounds	0	0	0	0
8.1d	Total other off-site disposal or other releases	Pounds	0	0	0	0
8.2	Quantity Used for Energy Recovery Onsite		NA	NA	NA	NA
8.3	Quantity Used for Energy Recovery Offsite		NA	NA	NA	NA
8.4	Quantity Recycled Onsite		NA	NA	NA	NA
8.5	Quantity Recycled Offsite		NA	NA	NA	NA
8.6	Quantity Treated Onsite	Pounds	36565	34628	35000	35000
8.7	Quantity Treated Offsite	Pounds	0	0	0	0

8.8 One-Time Event Release: 0 Pounds

8.9 Production Ratio: .95

### 8.10 Source Reduction Activities

SOURCE REDUCTION ACTIVITIES	METHOD 1	METHOD 2	METHOD 3
NA			

8.11 Additional Data Indicator: NO

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8.3	Quantity Used for Energy Recovery Offsite		NA	NA	NA	NA
8.4	Quantity Recycled Onsite		NA	NA	NA	NA
8.5	Quantity Recycled Offsite		...	...	...	NA
8.6	Quantity Treated Onsite					35000
8.7	Quantity Treated Offsite					0

SOURCE REDUCTION ACTIVITIES	METHOD
NA	

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# To Sum Up

- TRI is incredibly useful for case studies
- Envirofacts offers easy access to TRI, RSEI, permit information and other data sources
- Encourage facilities to use P2 Reporting to document their successes
- Take advantage of rich data sources before, during and (especially) after site visits.

David Sarokin

USEPA

Pollution Prevention Division

[sarokin.david@epa.gov](mailto:sarokin.david@epa.gov)

202-564-8852