



Tribal Analysis Using Envirofacts and TRI Tools

2014 National Training Conference on TRI and
Environmental Conditions in Communities

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Overview

- How did we get here?
- TRI Tools
 - TRI Explorer
 - TRI.NET
- Envirofacts Tribal Query
 - Search Capability



How did we get here?

- 2008. OEI began including a tribal filter in TRI data analysis tools
- July 2010. National Tribal Caucus requested a clearinghouse of EPA's tribal environmental data
- OEI's Senior management asked staff to research adding a tribal query to Envirofacts (EPA's one stop source for environmental information)
- OEI partnered with EPA's American Indian Environmental Office and EPA's geoplatform team



TRI Reporting for Facilities in Indian Country

- April 2012: EPA finalized regulations requiring facilities located in Indian country to annually report TRI release data to the respective Tribal governments, as well as EPA.
- Regulations require facilities meeting TRI reporting requirements and located in Indian country to submit TRI reports to EPA and the appropriate Tribal governments
- Tribal Chairperson or equivalent elected official can:
 - Petition EPA to add (or remove) a particular chemical or chemicals to (or from) the list of chemicals covered by TRI
 - Request that EPA apply TRI reporting requirements to a specific facility or facilities located within that Tribe's land

{EPA ultimately determines whether to add a facility or add/delete TRI chemicals}
- Facilities meeting TRI reporting requirements located in Indian country are required to send their annual reports to the appropriate Tribe



Tribal Analysis Tools

- In the following material, several slides will not be discussed during the live presentation. This additional material is included to further aid TRI data users in understanding some of the tools and the information provided.
- These additional slides contain the following note in the upper right corner:

Material to
further aid TRI
data users



Location of Tools

- Links to all tools mentioned today may be found at:
 - www.epa.gov/tri
 - Click on [Find Tools for TRI Data Analysis](#)
- The above location also contains links to:
 - TRI National Analysis
 - Downloadable TRI data files
 - MyRTK
 - DMR (Discharge Monitoring Report) Pollutant Loading Tool
 - Enforcement and Compliance History Online (ECHO)
 - Enviromapper
 - TRI-CHIP (TRI Chemical Hazard Information Profiles)
 - RSEI (Risk-Screening Environmental Indicators)



Tribal Analysis Tools

Integration with Tribal Information

- TRI Explorer
 - Filters available in Facility Reports and Industry Reports
 - Data in Facility Profile Report - Tribe name and distance
- TRI.Net
 - Optional grouping variables - Tribe name and distance
 - Filters can be custom built by user
- Other Envirofacts Queries
 - Tribal Filter in Multisystem Query (Broader than just TRI)
 - Tribal Filters or Tribal Identifiers in all TRI Reports (may require drilling down a few layers to Form R data)



TRI Tools

Basic Options with Tribal Filters

(Specific options available vary between different tools)

- A single Tribe or Alaskan Native Village (ANV) selected from a list
- Near a single Tribe or ANV selected from a list
 - At a defined distance (up to 10 miles)
- All Tribes or Alaskan Native Villages (ANV)
- Near all Tribes or Alaskan Native Villages (ANV)
 - At a defined distance (up to 10 miles)
- Other filtering options available with some tools



TRI Explorer

Five Steps to generate a report

Reports with Filters by Tribe

Step 1. Choose Report Type

Step 2. Select a Report Grouping (How data will be summarized)

Step 3. Choose Filters (Optional - All filters have a default)

Step 4. Choose Columns to be displayed (All options have a default)

Step 5. Click on the Generate Report button.

The screenshot shows the TRI Explorer web application interface. The main heading is "Release Reports" with sub-headings for "State Fact Sheet", "Release Reports", "Waste Transfer Reports", and "Waste Quantity Reports". Below this is a navigation bar with tabs for "Chemical", "Facility", "Federal Facility", "Trends", "Geography", "Industry", and "Dynamic Map". The "Facility" tab is selected. The main content area is titled "Release Chemical Report" and includes a "Go To New Report" button. There are several filter sections: "Year of Data" (set to 2011), "Geographic Location" (set to All of United States), "Chemical" (set to All chemicals), "Industry" (set to All Industries), and "Data Set" (with options for current data, 2010 data, and 2010 National Analysis data). A "Report columns to include" section has checkboxes for "Total On-site Disposal or Other Releases" (checked), "Total Off-site Disposal or Other Releases" (checked), and "Total On-and Off-site Disposal or Other Releases" (checked). A "Generate Report" button is located at the bottom of the filter sections. A disclaimer at the bottom states: "Disclaimer: Preliminary 2011 TRI Dataset (September 2012). Please note that the preliminary 2011 TRI dataset is not yet complete. This dataset will be updated in October to reflect the data used for the TRI National Analysis. See Explorer Update History for additional information." On the right side, there are two panels: "TRI Explorer Links" with links to the guide, tutorial, update history, and assumptions; and "TRI Links" with links to overview, tools, search, and guides.



TRI Explorer Display of Data

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), top 100 facilities (of 130) for facilities in All Industries, for All chemicals, within 10 miles Gila River Indian Community of the Gila River Indian Reservation, Arizona, 2012

U.S. Top Facilities Type: ALL Or Enter a number Go!

Filter used identified in heading of all tabular reports

Row	Facility	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
1	ABBOTT NUTRITION A DIV OF ABBOTT LABORATORIES, 1250 W MARICOPA HWY, CASA GRANDE ARIZONA 85193 (PINAL)	37,425		37,425
	SULFURYL FLUORIDE (311/312 - Food/Beverages/Tobacco)	37,425		37,425
2	ACO POLYMER PRODUCTS INC - AZ, 825 W BEECHCRAFT ST, CASA GRANDE ARIZONA	3,566	1,353	4,919

Any associated Tribe or ANV is listed in Facility Profile Report, even when no filter is used

Facility Profile Report

Data Source: 2012 National Analysis dataset (released to the public in November 2013)

See [Go To New Report](#) Note

TRI Facility Name: CALPORTLAND CO
 Address: 2425 W POWER LIN
 (Map by Google, Yahoo)
 County: MARICOPA
 Public Contact: SCOTT H
 Phone Number: 602-8

Other TRI Facility Information

Latitude: 32.846
 Longitude: -112.118
 Parent Company Name: TAIHEIYO CEMENT USA INC
 P.O. Box and Bradstreet: 175418052
 Number: 8523WCLPRT2425W
 Number (Land):

Scroll to bottom

Indian Land Name	Distance in Miles from Indian Land
Ak Chin Indian Community of the Maricopa (Ak Chin) Indian Reservation, Arizona	9.11285500
Gila River Indian Community of the Gila River Indian Reservation, Arizona	.00000000
Tohono O'odham Nation of Arizona	6.70920700



TRI Explorer

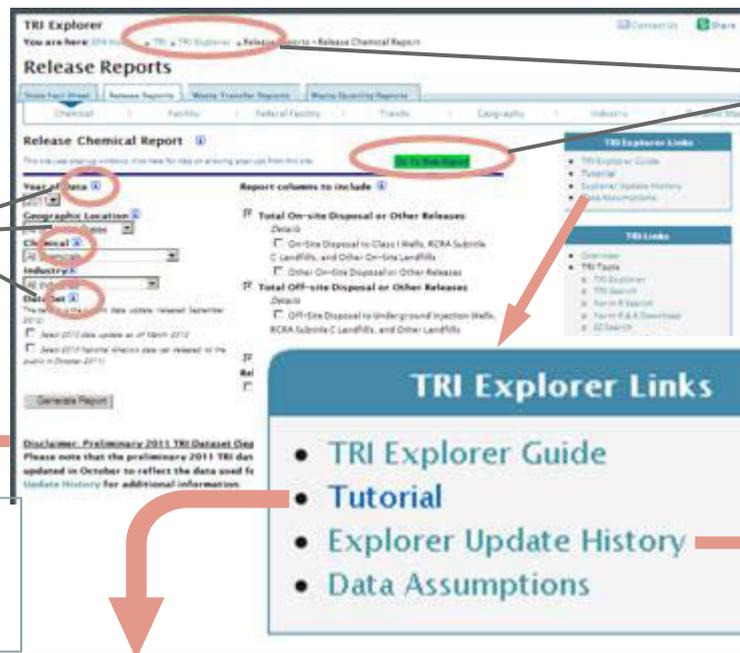
Points to remember

- ▲ Multiple paths to same results
- ▲ Business rules applied
- ▲ Only accesses some TRI data elements
- ▲ Links to explanatory text
- ▲ Information vs Raw Data
 - Both available from TRI Explorer directly or indirectly
- ▲ Facility Profile Page



Material to further aid TRI data users

TRI Explorer Assistance Available on User Interface



Links to explanatory text

Quick paths back to a fresh starting point

Special Conditions or Alerts posted here. (Only present when situations warrant)

Includes:
Addition of new features and data fields
Bug Fixes
Changes in how certain data is displayed

- 1) An [Interactive Demonstration](#) introduction to all functionalities of the TRI Explorer. This demonstration is meant for users who are unfamiliar with the TRI Explorer's interface.
- 2) [Step-by-Step Tutorials](#) detailed instructions to answer specific questions, using a live copy of TRI Explorer



Material to further aid TRI data users

TRI Explorer

The Report - Exploration And Keeping Your Bearings

All reports identify the date of the data

Data Source: Preliminary 2011 Data Update released Sept 2012

See Note [Go To New Report](#) [Instructions for printing wide reports](#)

All reports have a title incorporating Report Type and filters

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), for facilities in NAICS 311/312 - Food/Beverages/Tobacco, for Persistent Bioaccumulative, and Toxic (PBT) Chemicals, By State, U.S., 2011

Row #	State	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
1	Arkansas	0	0	0
2	California	181	61	242
3	Colorado	0	0	266
4	Connecticut	0	0	770
5	Delaware	0	0	26
6	Florida	0	0	114,880

Tri Metadata [i](#)

Other Landfills

Other landfills are those landfills which are not authorized under Subtitle C of the Resource Conservation and Recovery Act (RCRA) to accept hazardous wastes. These landfills are commonly referred to as non-hazardous waste landfills and may be regulated under a variety of other Federal, state, and local programs. Data from Section 5.5.1B on the TRI Form R. Prior to reporting year 1996, these amounts were included in Section 5.5.1 (Landfills).

Explore Deeper

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), all 3 facilities, for facilities in NAICS 311/312 - Food/Beverages/Tobacco, for Persistent Bioaccumulative, and Toxic (PBT) Chemicals, California, 2011

Row #	Facility	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
1	RAMCAR BATTERIES INC. 2700 CARRIER AVE, COMMERCE CALIFORNIA 90040 (LOS ANGELES)			
2	SIERRA BUILDING PRODUCTS. 10714 POPLAR AVE, FONTANA CALIFORNIA 92337 (SAN BERNARDINO)			
3	SPRECKELS SUGAR CO INC. 395 W KEYSTONE RD, BRAWLEY CALIFORNIA 92227 (IMPERIAL)			
Total				

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), for facilities in NAICS 311/312 - Food/Beverages/Tobacco, for Persistent Bioaccumulative, and Toxic (PBT) Chemicals, By State, U.S., 2011

Row #	State	On-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills			Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Release
		Underground Injection Class I Wells	RCRA Subtitle C Landfills	Other On-Site Landfills			
1	Arkansas	0	0	0	0	0	
2	California	0	0	0	181	61	
3	Colorado	0	0	0	266	0	
4	Connecticut	0	0	0	770	0	
5	Delaware	0	0	0	26	0	
6	Florida	0	0	0	114,880	0	
7	Georgia	0	0	0	18	0	
8	Idaho	0	0	0	1,704	712	
9	Illinois	0	0	0	1,031	99,979	

Define

Explore Broader



Material to further aid TRI data users

TRI Explorer

The Report - What's Below the Tables?

4	SILKRA BUILDING PRODUCTS, 107 14 FEDERAL BLVD, FONTANA CALIFORNIA 92337 (SAN BERNARDINO)			
3	SPRECKELS SUGAR CO INC, 395 W KEYSTONE RD, BRAWLEY CALIFORNIA 92227 (IMPERIAL)	167	61	229
	Total	181	61	243

[Back to top](#)

Export this report to a text file

Create comma-separated values, compatible with spreadsheet and databases.

Save data in comma-separated-value, CSV, file Send data into Microsoft Excel

[Download all records](#)

View other report type:

[Transfers Off-site for Further Waste Management](#)

[Quantities of TRI Chemicals in Waste \(waste management\)](#)

View report in other formats:

PDF (Acrobat Reader); or

RTF (Microsoft Word)

Quick links to other report types without re-inputting your selection parameters

Multiple view and save options

Note: Reporting year (RY) 2011 is the most recent TRI data available. Please note that the preliminary 2011 TRI dataset is not yet complete. This dataset will be updated in October to reflect the data used for the TRI National Analysis. See [Explorer Update History](#) for additional information. Facilities reporting to TRI were required to submit RY 2011 data to EPA by July 1, 2012. TRI Explorer is using an updated data set (released to the public in Sept 2012). This dataset includes revisions processed by EPA as of July 12, 2012 for the years 1988 to 2011. Revisions submitted to EPA after this time are not reflected in TRI Explorer reports. TRI data may also be obtained through [EPA Envirofacts](#).

Users of TRI information should be aware that TRI data reflect releases and other waste management activities of chemicals, not whether (or to what degree) the public has been exposed to those chemicals. Release estimates alone are not sufficient to determine exposure or to calculate potential adverse effects on human health and the environment. TRI data, in conjunction with other information, can be used as a starting point in evaluating exposures that may result from releases and other waste management activities which involve toxic chemicals. The determination of potential risk depends upon many factors, including the toxicity of the chemical, the fate of the chemical, and the amount and duration of human or other exposure to the chemical after it is released.

Off-site disposal or other releases include transfers sent to other TRI Facilities that reported the amount as on-site disposal or other release because not all states and/or not all industry sectors are included in this report.

Note that if a facility name appears multiple times within the table above, the facility is a multi-establishment and submitted multiple forms for the chemical.

Customized footnotes based on report parameters



TRI.Net

Steps to Access the Data

1) Pick Dataset

2) Pick principal columns to display

3) Pick TRI Data Elements (Optional)

4) Pick Filters (optional)

The image displays four sequential screenshots of the TRI.Net software interface, illustrating the steps to access data:

- Step 1: Pick Dataset** - The first screenshot shows a list of datasets in the 'DATA:' dropdown menu. The selected dataset is 'TRI1988-2007: PDR 2007'. A green box highlights the 'Tribal Land' and 'Tribal Miles' options in the 'FILTERING variables' list.
- Step 2: Pick principal columns to display** - The second screenshot shows the 'TRI12: NA 2012' dataset selected. The 'FILTERING variables' list is visible, with 'Tribal Land' and 'Tribal Miles' highlighted by a green box.
- Step 3: Pick TRI Data Elements (Optional)** - The third screenshot shows the 'TRI1988-2007: PDR 2007' dataset selected. The 'Total Air Releases' data element is selected in the 'DATA variables' list.
- Step 4: Pick Filters (optional)** - The fourth screenshot shows the 'TRI 2010: NA 2010' dataset selected. The 'FILTERING variables' list is visible, showing various filter options.

A green box in the bottom left corner contains the text: "Forces display of Tribal information in Reports". A green line connects this box to the 'Tribal Land' and 'Tribal Miles' options in the 'FILTERING variables' list of the first screenshot.



TRI.Net

Sample Query Results with Tribal Data

Variables selected
Tribal Land
Waste Quantities / Recycled

Variables selected
Tribal Land
Tribal miles
Waste Quantities / Recycled

209 records - Gross accounting used

Tribal Land	Recycled
(null)	7,878,400.89
Absentee-Sh	15,763,953
Agua Calient	28
Ak Chin India	0
Alabama-Cou	0
Apache Tribe	1,988,560
Apache Tribe	22,399
Apache Tribe	102,492
Arapaho Trib	0
Aroostook Ba	15,947
Augustine Ba	0
Bad River Ba	226,082
Bear River Ba	0
Blue Lake Pa	0
Cachil DeHe	0
Caddo Nation	0
Caddo Nation	126,706
Campo Band	0

1847 records - Gross accounting used

Tribal Land	Tribal Miles	Recycled
(null)	(null)	7,878,400.89
Absentee-Sh	0.3792614	(null)
Absentee-Sh	1.42329562	44,000
Absentee-Sh	3.89405966	142,429
Absentee-Sh	4.230688	0
Absentee-Sh	5.10424042	15,484,384
Absentee-Sh	5.96574163	0
Absentee-Sh	5.96731138	0
Absentee-Sh	6.96026325	0
Absentee-Sh	7.97265244	0
Absentee-Sh	8.071088	80,355
Absentee-Sh	8.820108	12,785
Absentee-Sh	8.949175	0
Absentee-Sh	9.073779	0
Absentee-Sh	9.156255	0
Absentee-Sh	9.181626	0
Agua Calient	0.415792942	13
Agua Calient	1.728501	0

As shown, quantities include facilities both on and near Tribal lands. Need to include additional information to differentiate.

1874 records – a lot of data to wade through



TRI.Net

Sample Query Results with Tribal Data

Variables selected

Tribal Land

Tribal miles

Waste Quantities / Recycled

Ad Hoc tribal miles = 0

Drill into results for Oneida

Several options to choose

Select facilities

TRI.NET interface showing query results. The 'Ad Hoc' field is set to 'tribal_miles = 0'. The results table shows the following data:

Tribal Land	Tribal Miles	Recyclec
Puyallup Tribe of the	0	7,362,397
Saginaw Chippewa In	0	472,921
Tulalip Tribes of Was	0	194,569
Oneida Tribe of Indian	0	130,369
Gila River Indian Com	0	121,958
Navajo Nation, Arizon	0	3
Tohono O'odham Nati	0	0
Aranabo Tribe of the	0	0

16 records - Gross accounting used

TRI.NET interface showing drill-down options for Oneida. The 'Ad Hoc' field is set to 'tribal_mile'. The results table shows the following data:

Tribal Land	Tribal Miles	Recyclec
Arapaho Trib	0	0
Cherokee Nat	0	0
Coeur D'Alen	0	0
Colorado Riv	0	0
Confederated	0	0
Gila River Ind	0	121,958
Navajo Natio	0	3
Oneida	0	130,369
Puyallup	0	7,362,397
Quapav	0	472,921
Rincon	0	194,569
Saginaw	0	121,958
Sissetor	0	3
Tohono	0	0
Tulalip	0	0
Ute Indi	0	0

16 records - Gross accounting used

Drill Down options:

- Virtual Earth Map
- EPA Report
- Google search
- IRIS search
- GHG search
- What's this
- Trend Analysis
- Change Analysis
- Condition
- Chemical
- Industry
- NAICS
- Form
- Facility
- City
- Zip
- County
- State
- Region
- Tract (Not updated for new facilities in RY09 through RY11)
- Metro Area (Not updated for new facilities in RY09 through RY11)
- WaterShed
- Tribal Land
- Parent
- Parent DUNS

Results are total quantity recycled for all facilities.

What are these facilities?



TRI.Net

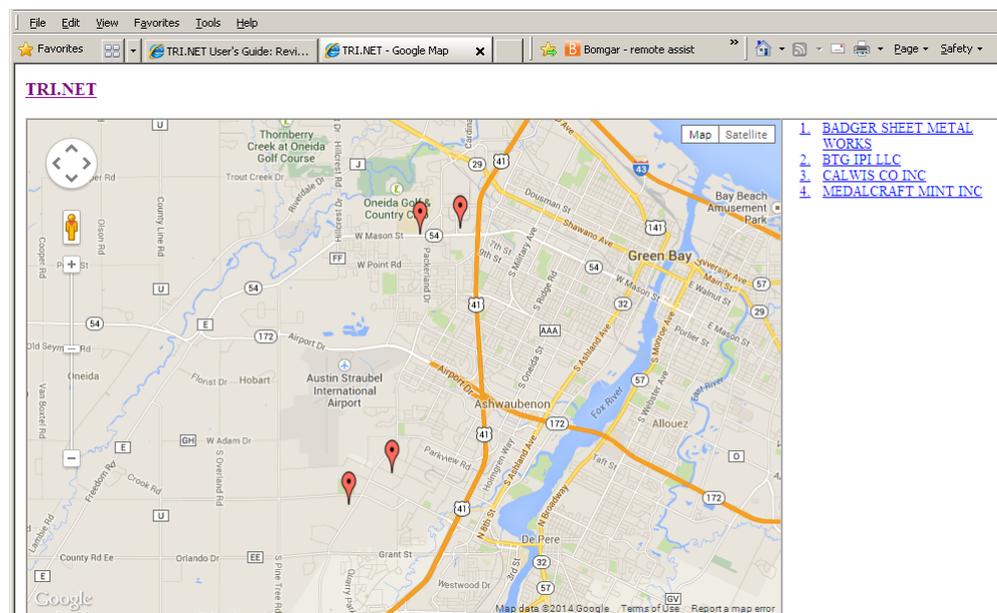
Sample Query Results with Tribal Data

Results of drill down

TRIF ID	Tribal Land	Tribal Miles	Recycled
5411WBTGP	Oneida Tribe	0	3,817
54303CLWS	Oneida Tribe	0	0
54304BDGR	Oneida Tribe	0	73,662
54307MDLC	Oneida Tribe	0	52,890

4 records - Gross accounting used

Map results directly from TRI.Net



TRI identification number and location of facilities on Oneida lands, which recycled at least some of their toxic waste



Material to
further aid TRI
data users

TRI Explorer

A Short Example

Question – What has been happening with Mercury Releases?

Approach – Look at a trend report for Mercury

When I look at the results, do the results look reasonable? If not, What might be happening?



Material to further aid TRI data users

TRI Explorer A Short Example

Default Settings

Modified Settings

Note:
Results will only be a partial answer – We really should look at mercury and mercury compounds.

Trend reports currently only allow selection of a single chemical or a single core group

The screenshot shows the TRI Explorer web application interface. The main heading is "Release Reports" with sub-tabs for "State Fact Sheet", "Release Reports", "Waste Transfer Reports", and "Waste Quantities". Below this are filters for "Chemical", "Facility", "Federal Facility", "Trends", "Geography", "Industry", and "Dynamic Map". The "Trends" filter is circled in red. The "Release Trends Report" section includes a "Go To New Report" button. The "Geographic Location" dropdown is set to "All of United States", "Industry" is "All Industries", and "Chemical" is "Mercury". The "Data Set" section has two radio button options. The "Report columns to include" section has checkboxes for "Releases" (Air, Water, Underground Injection, Land, Total Off-site Disposal or Other Releases, Total On-site Disposal or Other Releases, Total On- and Off-site Disposal or Other Releases) and "Details". The "Details" section is circled in red. On the right, there are "TRI Explorer Links" and "TRI Links" sections with various navigation options.

U.S. Environmental Protection Agency



Material to further aid TRI data users

TRI Explorer A Short Example

Note:
There are 3 separate tables in these results

That is a clue something happened where breaks occurred, perhaps due to a regulatory change.

You will likely find the reason here

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), Trend Report for facilities in All industries, for MERCURY chemical, U.S. 1988-1997

Row #	Year	Total Air Emissions	Surface Water Discharges	Total Underground Injection	Total On-site Releases to Land	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
1	1988	22,905	1,397	0				296,299
2	1989	25,095	1,555	0				157,679
3	1990	22,391	751	0				204,341
4	1991	18,208	629	0				137,098
5	1992	14,222	273	0	3,122	17,617	43,854	61,471
6	1993	11,642	267	0	1,801	13,710	18,355	32,065
7	1994	11,277	175	0	1,351	12,803	14,097	26,900
8	1995	13,262	192	0	1,016	14,470	14,228	28,698
9	1996	14,286	468	0	537	15,291	13,012	28,303
10	1997	12,163	391	0	1,016	13,570	26,346	39,916

Something is going on here, but I am really interested in more recent years (on the next slide)

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), Trend Report for facilities in All industries, for MERCURY chemical, U.S. 1998-

Row #	Year	Total Air Emissions	Surface Water Discharges	Total Underground Injection	Total On-site Releases to Land	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
1	1998	22,007	134	0	239,072	261,213	29,241	290,454
2	1999	20,652	133	0	100,735	121,520	21,432	142,952

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), Trend Report for facilities in All industries, for MERCURY chemical, U.S. 2000-2011

Row	Year	Total Air	Surface Water	Total Underground	Total On-site	Total On-site	Total Off-site	Total On- and Off-site
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Material to further aid TRI data users

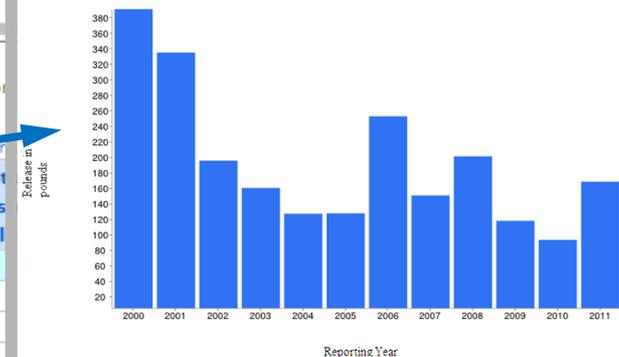
TRI Explorer A Short Example

Tri Metadata [i](#)

Water Discharge

Releases to water include discharges to streams, rivers, lakes, oceans, and other bodies of water. This includes releases from confined sources, such as industrial process outflow pipes or open trenches. Releases due to runoff, including stormwater runoff are also reportable to TRI under this category. Data from Section 5.3 on the TRI Form R.

TRI On-site Surface Water Discharges Reported (in pounds), All industries, MERCURY U.S. 2000-2011



Row #	Year	Total Air Emissions	Surface Water Discharges	Total Underground Injection	Total On-site Releases to Land	Total Discharges
1	2000	29,033	390	1,377	37,257	39,100
2	2001	26,211	334	461	32,945	33,710
3	2002	19,922	193	543	29,352	30,058
4	2003	19,019	157	222	13,251	32,649
5	2004	18,417	123	1,574	13,152	33,265
6	2005	14,470	124	2,405	22,278	39,277
7	2006	11,820	251	492	54,474	67,036
8	2007	10,318	147	342	36,841	47,648
9	2008	9,595	198	144	42,457	52,395
10	2009	8,109	114	49,203	57,446	65,726
11	2010	7,736	89	622	26,251	34,698
12	2011	6,977	165	24,478	65,186	96,706

Something is going on here.
Question - Is this due to a single facility?, If so, who?



Material to further aid TRI data users

TRI Explorer A Short Example

Wait a moment,

- 1) We were looking at surface water, which is not here
- 2) What if the facility in which I might be interested is not in the top 100?

Data Source: Preliminary 2011 Data Update released Sept 2012

See Note

[Go To New Report](#)



Instructions for printing wide reports

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), top 100 facilities (of 556) for facilities in All Industries, for MERCURY chemical U.S., 2006

U.S. Top Facilities: Type 'ALL' Or Enter a number

Row #	Facility	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Release
1	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC.2095 NEWLANDS DR E, FERNLEY NEVADA 89408 (LYON)	0	890	89
2	AB&I FOUNDRY.7825 SAN LEANDRO ST, OAKLAND CALIFORNIA 94621 (ALAMEDA)	0	0	
3	ACCURIDE ERIE.1015 E 12TH ST, ERIE PENNSYLVANIA 16503 (ERIE)	NA	NA	N
4	ACE COGENERATION FACILITY.12801 MARIPOSA ST, TRONA CALIFORNIA 93652 (SAN BERNARDINO)	22	0	2
5	ACH FOOD COS INC.710 N MATTIS AVE, CHAMPAIGN ILLINOIS 61821	0	2	

U.S. Environmental Protection Agency



Material to further aid TRI data users

TRI Explorer A Short Example

Wait a moment,

- 1) We were looking at surface water, which is not here
- 2) What if the facility in which I might be interested is not in the top 100?

Data Source: Preliminary 2011 Data Update released Sept 2012

See Note [Go To New Report](#) [Instructions for printing wide reports](#)

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), top 100 facilities (of 556) for facilities in All Industries, for MERCURY chemical, U.S., 2006

Surface water is a detail column within this summary column.

U.S. Top Facilities: Type 'ALL' Or Enter a number

Row #	Facility Name	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Release
1	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC.2095 NEWLANDS DR E, FERNLEY NEVADA 89408 (LYON)	0	890	89
2	AB&I FOUNDRY.7825 SAN LEANDRO ST, OAKLAND CALIFORNIA 94621 (ALAMEDA)	0	0	
3	ACCURIDE ERIE.1015 E 12TH ST, ERIE PENNSYLVANIA 16503 (ERIE)	NA	NA	N
4	ACE COGENERATION FACILITY.12801 MARIPOSA ST, TRONA CALIFORNIA 93652 (SAN BERNARDINO)	22	0	2
5	ACH FOOD COS INC.710 N MATTIS AVE, CHAMPAIGN ILLINOIS 61821	0	2	

Simply expand column to see the details



Material to further aid TRI data users

TRI Explorer A Short Example

Wait a moment,

- 1) We were looking at surface water, which is not here
- 2) What if the facility in which I might be interested is not in the top 100?

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds) **top 100 facilities (of 556) for facilities in All Industries, for MERCURY chemical, U.S., 2006**

U.S. Top Facilities Type 'ALL' Or Enter a number Go!

Row #	Facility	Other On-site Disposal or Other Releases						RCRA Subtitle C Surface Impoundments	Other Surface Impoundments	Other Land Disposal	Sub Total	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
		Fugitive Air Emissions	Point Source Emissions	Surface Water Discharges	Underground Injection Class II-V Wells	Land Treatment	Land Disposal							
1	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC.2095 NEWLANDS DR E, FERNLEY NEVADA 89408 (LYON)	0	0	0	0	0	0	0	0	0	0	890	890	
2	AB&I FOUNDRY.7825 SAN LEANDRO ST, OAKLAND CALIFORNIA 94621 (ALAMEDA)	0	0	0	0	0	0	0	0	0	0	0	0	

Since we are looking to see if a single facility may explain a large increase, we can sort the column largest to smallest.

Sort will look at all 556 facilities not just the 100 shown on the web page.



Material to further aid TRI data users

TRI Explorer

A Short Example

So we identified a facility with water releases of about the same magnitude as the blip we originally saw in a trend table on slide 23.

New question – Is this value normal for this facility?

U.S. Top 100 facilities (of 556) for facilities in All Industries, for MERCURY chemical, U.S., 2005

U.S. Top Facilities Type 'ALL' Or Enter a number Go!

Row #	Facility	Other On-site Disposal or Other Releases										Total On-site Releases	Total Off-site Releases	Total On- and Off-site Releases
		Fugitive Air Emissions	Point Source Air Emissions	Surface Water Discharges	Underground Injection Class II-V Wells	Land Treatment	RCRA Subtitle C Surface Impoundments	Other Surface Impoundments	Surface Land Disposal	Sub Total	Total			
1	LIMA REFINING CO. 1150 S METCALF ST, LIMA OHIO 45804 (ALLEN)	0	6	114	0	0	0	0	0	0	120	120	11	131
2	PPG INDUSTRIES INC. STATE RT 2, NEW MARTINSVILLE WEST VIRGINIA 26155 (MARSHALL)	172	134	34	0	0	0	0	0	0	340	356	1,115	1,471
3	NORANDA ALUMINA LLC. 1111 AIRLINE HWY, GRAMERCY LOUISIANA	0	0	22	0	0	0	1,764	0	1,786	1,786	1,786	0	1,786

Click on Facility Name



Material to further aid TRI data users

TRI Explorer

A Short Example – Facility Profile Report

Facility Profile Report ⓘ

Data Source: Preliminary 2011 Data Update released Sept 2012

See Note [Go To New Report](#) *Instructions for printing wide reports*

TRI Facility Name:	LIMA REFINING CO
Address: (Map by Google, Yahoo)	1150 S METCALF ST, LIMA OHIO 45804 (ALLEN)
County:	ALLEN
Public Contact:	DOUG LITSEY
Phone Number:	419-226-2551

Forms Submitted to TRI **2006 Reporting Year**

Form R (regular form):	55
Form A (certification form):	0

[Click here for TRI Reporting Forms in EPA Envirofacts database](#)

North American Industry Classification System (NAICS) Code(s) in 2006 Reporting Year:
324110 – Petroleum Refineries.

Industry sector used in TRI Explorer analysis in 2006 Reporting Year:
324 – Petroleum

Location and contact info

Link to all reporting forms in Envirofacts for the identified reporting year

Industry as reported to EPA & Sector grouping used for analytical purposes





Material to further aid TRI data users

TRI Explorer

A Short Example

Reported TRI Chemical Data
(in pounds, for all chemicals reported in 2006)

Total On-site Releases:	401,229
Total Off-site Releases:	8,258
Total Transfers Off-site for Further Waste Management:	86,426
Total Waste Managed:	2,935,177

Short summary of Major "Totals"

Dioxin and Dioxin-like compounds (in grams) NAICS 324 - Petroleum

Fugitive Air Emissions	Point Source Air Emissions	Surface Water Discharges	Underground Injection Class II-V Wells	Land Treatment	RCRA Subtitle C Surface Impoundments	Other Surface Impoundments	Total On- and Off-site Disposal or Other Releases
.0000000	.7400000	.0000000	.0000000	.0000000	.0000000	.0000000	.7400000

Summary of Dioxins (in Grams)
Specific format is dependent on reporting year of data

Distribution (in percent) of Dioxin and Dioxin-like compounds NAICS 324 - Petroleum

NA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16
.00	35.86	3.27	10.60	8.07	.98	6.99	.78	1.90	1.25	6.81	8.45	3.86	3.88	5.24	.65	1.37	.04

MORE



Material to further aid TRI data users

TRI Explorer A Short Example

TRI Facility Trend Graphs (click to view trend graph)

- Total On- and Off-site Releases
- Total Transfers Off-site for Further Waste Management
- Total Waste Managed

Link to some great trend graphs

TRI Chemical Trend Table (click to view trend table)

(all chemicals reported to TRI between 1988 and 2006)

Row #	Chemical	On- and Off-site Releases Trend	Transfers Off-site for Further Waste Management Trend	Quantities of TRI Chemicals in Waste Trend	EPA's IRIS Substance File (Risk Information)
1	1,2,4-TRIMETHYLBENZENE				
2	1,3-BUTADIENE				
3	ACETALDEHYDE				
4	ACROLEIN				
5	ALUMINIUM OXIDE (FERROUS FORM)				
37	HYDROGEN CYANIDE				
38	LEAD				
39	MANGANESE				
40	MERCURY				
41	METHANOL				
42	METHYL ETHYL KETONE				
43	METHYL TERT-BUTYL ETHER				
44	MOLYBDENUM				

Link to some trend reports

Click for trend graph of Individual chemical by the specific facility

Integrated Risk Information System (IRIS) Reports



Material to further aid TRI data users

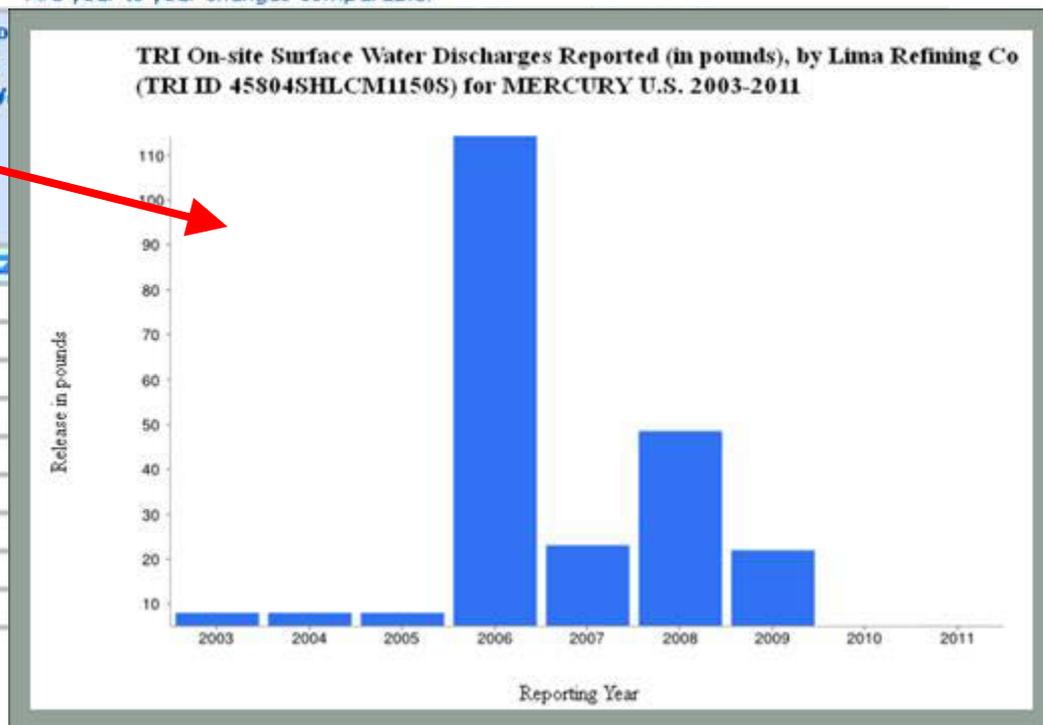
TRI Explorer

A Short Example

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), Trend Report for facilities in Lima Refining Co (TRI ID 45804SHLCM1150S) U.S. 2003-2011

Are year to year changes comparable?

Row #	Year	Fugitive Air	Stack Air	Total Air Emissions	Surface Water Discharges	Underground Injection Class I W
1	2003	0	0	0	3	
2	2004	0	0	0	3	
3	2005	0	0	0	3	
4	2006	0	6	6	114	
5	2007	0	7	7	19	
6	2008	0	7	7	45	
7	2009	0	5	5	18	
8	2010	0	5	5	0	
9	2011	0	7	7	0	



How to Use Envirofacts News and Information Data Update Envirofacts Model



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
- Land
- Water
- Waste
- Toxics
- Radiation
- Facility
- Compliance
- Other

Envirofacts System Data Searches **Multisystem Search**

<ul style="list-style-type: none"> AFS BR Brownfields-Cleanups CERCLIS Cleanups ECHO/IDEA 	<ul style="list-style-type: none"> FRS <ul style="list-style-type: none"> EZ Search Organization Search Greenhouse Gas Customized Search ICIS ICR 	<ul style="list-style-type: none"> IGMS Locational Information <ul style="list-style-type: none"> Locational Search PCS <ul style="list-style-type: none"> Customized Search RADInfo 	<ul style="list-style-type: none"> RadNet <ul style="list-style-type: none"> Customized Search RCRAInfo SDWIS SRS TSCA UV Index 	<ul style="list-style-type: none"> TRI <ul style="list-style-type: none"> TRI Explorer TRI Search Form R Search Form R & A Download EZ Search Customized Search Pollution Prevention
---	---	--	---	---

Other Sites of Interest

- Geospatial Download
- EnviroMapper
- MyEnvironment

Envirofacts Homepage: <http://www.epa.gov/enviro>



Envirofacts
You are here: EPA Home > Envirofacts > Multisystem Search

Multisystem Search

Home | MyEnvironment | Maps/Downloads | Reports/News/Events | About Us/Help | Envirofacts/Help | Help | Search | Mobile

Envirofacts
The Multisystem Search provides you the ability to search multiple systems, including toxic chemical releases, water discharges, and other data.

Search Results

[EPA Index](#)

Tribal Search

Search for facilities by Tribe. Use the first drop down list to find facilities by tribe or near the tribe's geographic location. To search by Tribe use the second drop down list. When searching near a tribe's geographic location, identify the distance of interest by selecting the radio button containing the distance preference of the search. This is not an exhaustive collection and not all data and facilities may be captured in the search results.

Note: When searching for facilities by Tribe or near a Tribe without selecting a specific Tribe, please use additional query options above, such as the "Geography Search." Otherwise the search may be slower than a normal search.

Search for facilities on or near any Tribe in the area:

OR

Search for facilities on or near a specific Tribe, as entered in the box below:

Tribes in the continental US Alaska Native Villages

On selected Tribe Tribe and 1 mile surrounding area Tribe and 3 mile surrounding area Tribe and 10 mile surrounding area

Facility Industrial Classification Search

Enter the name of a pollutant in the "Pollutant" field, or enter a 4-digit code in the "Facility" field. Use "beginning with" or "Containing" to narrow the search. If both a name and CIG number are entered, only CIG number will be used in the search. This search will only be performed against CIG, not all facilities in the system.

Note: Searching using either a pollutant name or CIG number results in a slower than normal search.

Pollutant Name:

Beginning With Exact Match Containing

Facility Number (CIG) Number:

Lookup Pollutant codes and CIG numbers

Tools: Search, Home, Help, etc.



County:

State:

NM

- TRI Search
- Form R Search
- Form R & A Download
- EZ Search
- Customized Search
- Pollution Prevention
- TSCA
- UV Index

Tribal Search

Search for facilities by Tribe. Use the first drop down list to find facilities by tribe or near the tribe's geographic location . To search by Tribe use the second drop down list. When searching near a tribe's geographic location, identify the distance of interest by selecting the radio button containing the distance preference of the search. This is not an exhaustive collection and not all data and facilities may be captured in the search results.

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Search for facilities on or near any Tribe in the area:

On any Tribe

On any Tribe

Any Tribe and a 1 mile area surrounding the Tribe

Any Tribe and a 3 mile area surrounding the Tribe

Any Tribe and a 10 mile area surrounding the Tribe

Tribes in the continental US Alaska Native Villages

On selected Tribe

Tribe and 1 mile surrounding area

Tribe and 3 mile surrounding area

Tribe and 10 mile surrounding area

Other Sites of Interest

- Geospatial Download
- EnviroMapper
- MyEnvironment

Facility Industrial Classification Search

**Search for facilities found On or Near Any Tribe
(Filter: "On Any Tribe" & "State= NM")**



State Abbreviation: NM

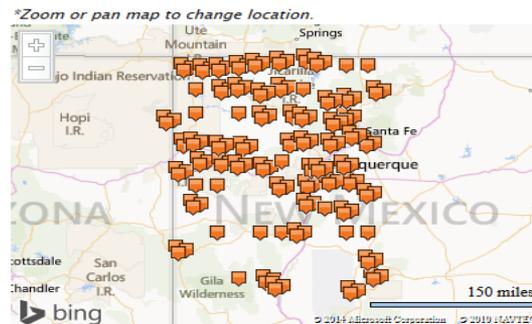
API Link for Report Data:

<http://iaspub.epa.gov/enviro/efservice/multisystem/minLatitude/>

Copy and paste the link above to view the data from this report

[Info](#)
[AIR](#)
[TOXICS](#)
[WASTE](#)
[RADIATION](#)
[WATER](#)

Click on a tab to see a summary view of data for a media type.



- EF Overview
- Search
- Model
- Data Update
- Multisystem Search User Guide
- Contact Us

Report an Error

LIST OF EPA-REGULATED FACILITIES IN ENVIROFACTS

To search 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 detailed reports on a specific facility. The data within the table below can be downloaded in a comma-separated value file for use in Excel by clicking here: [Download Table as CSV File](#) OR [Copy CSV URL to Clipboard](#)

FACILITY INFORMATION	AFS [†]	ACRES [†]	BR [†]	CERCLIS [†]	GHG [†]	PCS/ICIS [†]	RADInfo [†]	RCRAInfo [†]	TRI [†]	TSCA [†]	Tribal Land Name
BHP NAVAJO COAL COMPANY 3890 US HIGHWAY 64 FRUITLAND, NM 87416 Latitude: 36.5875 Longitude: -108.51277 Summary Report Facility Report Compliance Report								View Report	View Report		Navajo Nation, Arizona, New Mexico & Utah *Facility is located on the Tribal Land
FOUR CORNERS STEAM ELECTRIC STATION END OF COUNTY RD 6675 FRUITLAND, NM 87416 Latitude: 36.707501 Longitude: -108.469249 Summary Report Facility Report Compliance Report	View Report		View Report		View Report	View Report		View Report	View Report	View Report	Navajo Nation, Arizona, New Mexico & Utah *Facility is located on the Tribal Land
GALLUP COMPRESSOR STATION 7 MI N OF TOHATCHI TOHATCHI, NM 87325 Latitude: 35.895 Longitude: -108.652777 Summary Report Facility Report Compliance Report	View Report		View Report					View Report			Navajo Nation, Arizona, New Mexico & Utah *Facility is located on the Tribal Land
GALLUP SAND AND GRAVEL - 150TPH CONCRETE BATCH PLANT NO1191 5 MI NW OF GALLUP GALLUP, NM 87301- Latitude: 35.66402 Longitude: -108.433622 Summary Report Facility Report Compliance Report	View Report										Navajo Nation, Arizona, New Mexico & Utah *Facility is located on the Tribal Land

Search Results for "On Any Tribe"



State:

NM

- EZ Search
- Customized Search
- Pollution Prevention
- TSCA
- UV Index

Other Sites of Interest

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- EnviroMapper
- MyEnvironment

Tribal Search

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Search for facilities on or near any Tribe in the area:

OR

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- Tribes in the continental US Alaska Native Villages

- Manchester Band of Pomo Indians of the Manchester Rancheria, California
- Manzanita Band of Diegueno Mission Indians of the Manzanita Reservation, California
- Mesa Grande Band of Diegueno Mission Indians of the Mesa Grande Reservation, California
- Middletown Rancheria of Pomo Indians of California
- Moapa Band of Paiute Indians of the Moapa River Indian Reservation, Nevada
- Moortown Rancheria of Maidu Indians of California
- Morongo Band of Mission Indians, California
- Navajo Nation, Arizona, New Mexico & Utah**
- Northfork Rancheria of Mono Indians of California
- Paiute-Shoshone Tribe of the Fallon Reservation and Colony, Nevada
- Pala Band of Luiseno Mission Indians of the Pala Reservation, California
- Pascua Yaqui Tribe of Arizona
- Paskenta Band of Nomlaki Indians of California
- Pauma Band of Luiseno Mission Indians of the Pauma & Yuima Reservation, California
- Pechanga Band of Luiseno Mission Indians of the Pechanga Reservation, California
- Picayune Rancheria of Chukchansi Indians of California
- Pinoleville Pomo Nation, California
- Pit River Tribe, California (includes XL Ranch, Big Bend, Likely, Lookout, Montgomery Creek and Roaring Creek Rancheries)
- Pyramid Lake Paiute Tribe of the Pyramid Lake Reservation, Nevada
- Quartz Valley Indian Community of the Quartz Valley Reservation of California

Navajo Nation, Arizona, New Mexico & Utah

Tribe and 3 mile surrounding area

Select a search option from the drop-down menu. For the "equal to" option enter a 4 to 8-digit NAICS code. For "beginning with" or "containing" enter up to 6 digits.

Search for facilities found On or Near a Specific Tribe (Filter: "On/Near - within a 3 mile radius" & "specified tribe" & "State=NM")



City Name: Fruitland
State Abbreviation: NM

API Link for Report Data:

<http://iaspub.epa.gov/enviro/efservice/multisystem/minLatitude/>

Copy and paste the link above to view the data from this report



Click on a tab to see a summary view of data for a media type.

*Zoom or pan map to change location.



- EF Overview
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FOUR CORNERS STEAM ELECTRIC STATION END OF COUNTY RD 6675 FRUITLAND, NM 87416 Latitude: 36.707501 Longitude: -108.469249 Summary Report Facility Report Compliance Report	View Report		View Report		View Report	View Report		View Report	View Report	View Report	Navajo Nation, Arizona, New Mexico & Utah *Facility is located on the Tribal Land
GULF ENERGY PROCESSING GALLUP GAS PLANT 5 MILES NW OF FRUITLAND FRUITLAND, NM 87416 Latitude: 36.74782 Longitude: -108.38686 Summary Report Facility Report Compliance Report	View Report										Navajo Nation, Arizona, New Mexico & Utah *Distance from Tribal Land: 1.083 miles
NAVAJO MINE AREA 3 COMPLEX 6MI SW OF HWY 550 IN FRUITLAND FRUITLAND, NM 87416 Latitude: 36.586671 Longitude: -108.51226 Summary Report Facility Report Compliance Report								View Report			Navajo Nation, Arizona, New Mexico & Utah *Facility is located on the Tribal Land
NENAHNEZAD BOARDING SCHOOL COUNTY ROAD 6675 FRUITLAND, NM 87416-0337 Latitude: 36.731111 Longitude: -108.404444 Summary Report Facility Report Compliance Report						View Report		View Report			Navajo Nation, Arizona, New Mexico & Utah *Facility is located on the Tribal Land

Search Results for “On or Near” a “specified tribe”



Questions and Discussion