

TOXICS RELEASE INVENTORY
BASIC PLUS DATA FILES DOCUMENTATION
FILE TYPE 2A: DETAILED SOURCE REDUCTION ACTIVITIES
AND METHODS

Updated for RY 2019

September 2020



OVERVIEW OF TRI BASIC PLUS DATA FILES

The TRI “Basic Plus” data files include 10 file types that collectively contain all the data fields from the TRI Reporting Form R and Form A (except Form R Schedule 1). The 10 file types are tab-delimited text (.txt) files packaged into a .zip file.

<u>File</u>	<u>Example</u>	<u>Description of Contents</u>	<u>Form R/Form A Reference</u>
Type 1A	CA_1A_2017.txt	Facility data, chemical identification, chemical uses, on-site releases and management, off-site transfers, summary information	Part I (all), Part II (section 1, 3, 4, 5, 6.1.A, 6.2ABC, 7B, 7C, 8.2.B, 8.4.B, 8.6.

The Basic Plus Data Files are identified (named) by state, file type, and reporting year:

File Name = State + File Type + Reporting Year

For example, the file “CA_1A_2017.txt” contains facility, chemical identification, chemical use, on-site release and waste management, off-site transfer and summary information (File Type 1A) for all facilities located in California (CA) for reporting year 2017.

In addition to the set of data files for each state, there are two other Basic Plus file sets: Federal and National. The Federal files (FED_1A_2017.txt, FED_2A_2017.txt, etc.) contain TRI data for all government-owned-and-operated federal sites. The National files (US_1A_2017.txt, US_2A_2017.txt, etc.) contain TRI data for all U.S. states and territories for a specific year.

DESCRIPTION OF FILE TYPE 2A CONTENTS

The "Type 2A" file contains source reduction data from Section 8 of the TRI Reporting Form R, as shown in the table below. Each record in File Type 2A represents data from a single chemical reporting form (i.e., Form R) submitted by a facility.

All Type 2A files contain data from the following parts and sections of the Form R:

Part	Section	Description
I	1	Reporting Year
I	1	Revision Codes
I	2.1	Trade Secret Indicator
I	4	Facility Identification Information
I	5	Parent Company Information
II	1	Chemical Identification Data
II	8.1	Total Releases
II	8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills
II	8.1b	Total other on-site disposal or other releases
II	8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills
II	8.1d	Total other off-site disposal or other releases
II	8.2	Quantity used for energy recovery, ON-SITE
II	8.3	Quantity used for energy recovery, OFF-SITE
II	8.4	Quantity recycled, ON-SITE
II	8.5	Quantity recycled, OFF-SITE
II	8.6	Quantity treated, ON-SITE
II	8.7	Quantity treated, OFF-SITE
II	8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes
II	8.9	Production ratio or activity index
II	8.10	Source Reduction Activities and Methods

Note: In 2005, the TRI Program stopped collecting underground injection control (UIC) identification numbers from facilities on the TRI reporting forms. UIC IDs identify facilities that received permits from state governments to dispose of or release chemical waste into Class I through Class V underground injection wells.

The TRI Program does have some historical UIC IDs that were collected prior to 2005. Many of these, however, are outdated and inaccurate. The TRI Program is also missing UIC IDs for facilities that began reporting to TRI in or after 2005. EPA does not store nor have access to current UIC IDs. Because of this lack of current, accurate and complete data, the TRI Program removed the UIC ID data fields from the TRI Basic Data Files in 2019.

To learn more about UIC permits and underground injection wells see the "Protecting Underground Source of Drinking Water from Underground Injection (UIC)" website at <https://www.epa.gov/uic>

WHAT'S IN THIS DOCUMENT

The rest of this document is organized as a four-column data table. It describes what information you will find when you download and open any of the "TRI Basic Plus Data: File Type 2A" files.

Column	Description
Number (No.)	The sequential number of the data element in the record
Field Name	The name of the data element (Note: these names correspond to the various column headings in the data files themselves.)
Data Type	'C' for character data (alphanumeric) 'N' for numeric data 'D' for date
Description	A brief statement of what the data element represents, plus its TRI System Source (in Table Name , Field Name format) and where on the TRI Reporting Form R the data element is reported (i.e., <i>reference</i>). TRI System Source refers to the data element's physical location within EPA's Envirofacts online data warehouse.

When you open any of the Basic Plus data files, you'll see that the contents are delimited by tabs, meaning a tab is placed between each data element. The first row of each file contains column headers, which correspond to the "field names" in this document.

	A	B	C	D
1	REPORTING YEAR	TRADE SECRET INDICATOR	TRIFID	FACILITY NAME
2	2016	NO	37087TSHBM1420T	NOVAMET SPECIALTY PRODUCTS
3	2016	NO	2740WNVNRM837TR	ENVIRONMENTAL AIR SYSTEMS INC-TRIAD
4	2016	NO	7585WSNDRS485HI	SANDERSON FARMS OAKWOOD FEED MILL

Example of the first four rows of a Basic Plus data file

REMINDER: Quantities of dioxin and dioxin-like compounds are in grams. Quantities of all other TRI chemicals are reported in pounds. Facilities cannot use range codes to report quantities for dioxin and dioxin-like compounds and other Persistent Bioaccumulative Toxics (PBTs). For a list of PBT chemicals see Appendix C - Persistent Bioaccumulative Toxics (PBTs).

HELPFUL RESOURCES FOR USERS OF DOWNLOADABLE DATA FILES

When using any of the downloadable TRI data files, it will be helpful for users to refer to the TRI Reporting Form R, the TRI Reporting Forms & Instructions document, and the Envirofacts TRI data model. The Reporting Forms & Instructions document and sample reporting forms are available online in the GuideME application at www.epa.gov/tri/guideme. The Envirofacts TRI data model is found at <https://www.epa.gov/enviro/tri-model>. These resources provide useful context and have additional details about certain data elements.

FILE TYPE 2A CONTENTS

No.	Field Name	Type	Description
1	FORM TYPE	C	Indicates whether the Reporting Form R or Form A Certification Statement was submitted. R = Form R A = Form A Certification Statement <i>Source: TRI_REPORTING_FORM.FORM_TYPE_IND</i> <i>Reference: Type of Form Used</i>
2	REPORTING YEAR	C	The calendar year in which the reported activities occurred. <i>Source: TRI_REPORTING_FORM.REPORTING_YEAR</i> <i>Reference: Part I, Section 1</i>
3	TRADE SECRET INDICATOR	C	Indicates whether the reporting facility claims the identity of the chemical or chemical category as a trade secret. Yes = Checked (Trade Secret) No = Not checked Note: Only sanitized trade secret submissions are stored in the TRI database. <i>Source: TRI_REPORTING_FORM.TRADE_SECRET_IND</i> <i>Reference: Part I, Section 2.1</i>
4	TRIFD	C	TRI facility identification in the format zzzzznnnnnsssss, where usually zzzzz = facility zip code, nnnnn = first five consonants of the name, and sssss = first five non-specific characters in the street address. The three sections of the format were separated by hyphens prior to RY 2006. NOTE: The content of this field is <u>not</u> changed to match facility ownership, or zip code changes. Rather, the TRI Facility ID identifies a specific geographical location which is also identified by the latitude and longitude of that location. <i>Source: TRI_FACILITY.TRI_FACILITY_ID</i> <i>Reference: Part I, Section 4.1</i>
5	FACILITY NAME	C	Name of the reporting facility. <i>Source: TRI_FACILITY.FACILITY_NAME</i> <i>Reference: Part I, Section 4.1</i>
6	FACILITY STREET	C	Street address of the reporting facility. <i>Source: TRI_FACILITY.STREET_ADDRESS</i> <i>Reference: Part I, Section 4.1</i>
7	FACILITY CITY	C	City in which the reporting facility is located. <i>Source: TRI_FACILITY.CITY_NAME</i> <i>Reference: Part I, Section 4.1</i>
8	FACILITY COUNTY	C	County in which the reporting facility is located. <i>Source: TRI_FACILITY.COUNTY_NAME</i> <i>Reference: Part I, Section 4.1</i>
9	FACILITY STATE	C	Two-letter state code of the reporting facility. <i>Source: TRI_FACILITY.STATE_ABBR</i> <i>Reference: Part I, Section 4.1</i>
10	FACILITY ZIP CODE	C	ZIP code of the reporting facility. <i>Source: TRI_FACILITY.ZIP_CODE</i>

No.	Field Name	Type	Description
			<i>Reference:</i> Part I, Section 4.1
11	BIA CODE	C	Three-letter Bureau of Indian Affairs (BIA) code indicating the tribal land a facility is on. <i>Source:</i> FACILITY.BIA_TRIBAL_CODE
12	TRIBE NAME	C	The name of the Tribe. <i>Source:</i> V_INDIAN_COUNTRY.
13	ENTIRE FACILITY IND	C	Indicates whether the information covers an entire facility or part of a facility. Yes = entire No = partial <i>Source:</i> TRI_REPORTING_FORM.ENTIRE_FAC <i>Reference:</i> Part I, Section 4.2a
14	PARTIAL FACILITY IND	C	Indicates whether the information covers an entire facility or part of a facility: Yes = partial No = entire <i>Source:</i> TRI_REPORTING_FORM.PARTIAL_FAC <i>Reference:</i> Part I, Section 4.2b
15	FEDERAL FACILITY IND	C	Code indicating whether a facility is a federal facility or not. Reported by facility. Yes = Federal No = non-Federal Value <i>Source:</i> TRI_REPORTING_FORM.FEDERAL_FAC_IND <i>Reference:</i> Part I Section 4.2c
16	GOCO FACILITY IND	C	Code indicating whether a facility is a GOCO (Government Owned, Contractor-Operated) facility or not: Yes = GOCO No = non-GOCO <i>Source:</i> TRI_REPORTING_FORM.GOCO_FLAG <i>Reference:</i> Part I Section 4.2d
17	ASSIGNED FED. FACILITY FLAG	C	Code indicating whether this is a federal facility or not. Assigned by TRI. Yes = Federal No = Non-Federal <i>Source:</i> TRI_FACILITY.ASGN_FEDERAL
18	ASSIGNED PARTIAL FACILITY FLAG	C	Code indicating whether the facility is a multi-establishment and reports by part. Assigned by TRI. Multi-establishment facilities may have more than one submission for the same chemical in one reporting year. Yes = Partial No = entire <i>Source:</i> TRI_FACILITY.ASGN_PARTIAL_IND
19	PUBLIC CONTACT NAME	C	Name of the individual whom the public may contact if clarification of the facility's reported data is needed. <i>Source:</i> TRI_REPORTING_FORM.PUBLIC_CONTACT_PERSON <i>Reference:</i> Part 1, Section 4.4
20	PUBLIC CONTACT PHONE	C	Area code and telephone number of the public contact.

No.	Field Name	Type	Description
			<i>Source:</i> TRI_REPORTING_FORM.PUBLIC_CONTACT_PHONE <i>Reference:</i> Part 1, Section 4.4
21	PUBLIC CONTACT PHONE EXT	C	Phone extension of the public contact. <i>Source:</i> TRI_REPORTING_FORM.PUBLIC_PHONE_EXT <i>Reference:</i> Part 1, Section 4.4
22	PUBLIC CONTACT EMAIL	C	Email address of the designated individual whom the public may contact if clarification of the facility's reported data is needed. <i>Source:</i> TRI_REPORTING_FORM.PUBLIC_CONTACT_PERSON_EMAIL <i>Reference:</i> Part 1, Section 4.4
23	PRIMARY SIC CODE	C	Primary four-digit Standard Industrial Classification (SIC) code. SIC codes reported by facilities from RY 1987 through 2005. <i>Source:</i> TRI_SUBMISSION_SIC.SIC_CODE <i>Where:</i> primary_ind = '1' <i>Reference:</i> Part I, Section 4.5a
24	SIC CODE 2	C	Second four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005. <i>Source:</i> TRI_SUBMISSION_SIC.SIC_CODE <i>Where:</i> sic_sequence_num = '2' <i>Reference:</i> Part I, Section 4.5b
25	SIC CODE 3	C	Third four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005. <i>Source:</i> TRI_SUBMISSION_SIC.SIC_CODE <i>Where:</i> sic_sequence_num = '3' <i>Reference:</i> Part I, Section 4.5c
26	SIC CODE 4	C	Fourth four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005. <i>Source:</i> TRI_SUBMISSION_SIC.SIC_CODE <i>Where:</i> sic_sequence_num = '4' <i>Reference:</i> Part I, Section 4.5d
27	SIC CODE 5	C	Fifth four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005. <i>Source:</i> TRI_SUBMISSION_SIC.SIC_CODE <i>Where:</i> sic_sequence_num = '5' <i>Reference:</i> Part I, Section 4.5e
28	SIC CODE 6	C	Sixth four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005. <i>Source:</i> TRI_SUBMISSION_SIC.SIC_CODE <i>Where:</i> sic_sequence_num = '6' <i>Reference:</i> Part I, Section 4.5f
29	NAICS ORIGIN	C	Indicates whether North American Industry Classification System (NAICS) codes were reported or assigned.

No.	Field Name	Type	Description
			R = Reported A = Assigned
30	PRIMARY NAICS CODE	C	Primary six-digit North American Standard Industry Classification System (NAICS) code. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. See Appendix E – “NAICS Codes Assignments” for more details. <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> primary_ind = ‘1’ <i>Reference:</i> Part I, Section 4.5a
31	NAICS CODE 2	C	Second six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. See Appendix E – “NAICS Codes Assignments” for more details. <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> naics_sequence_num = ‘2’ <i>Reference:</i> Part I, Section 4.5b
32	NAICS CODE 3	C	Third six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. See Appendix E – “NAICS Codes Assignments” for more details. <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> naics_sequence_num = ‘3’ <i>Reference:</i> Part I, Section 4.5b
33	NAICS CODE 4	C	Forth six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. See Appendix E – “NAICS Codes Assignments” for more details. <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> naics_sequence_num = ‘4’ <i>Reference:</i> Part I, Section 4.5b
34	NAICS CODE 5	C	Fifth six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. See Appendix E – “NAICS Codes Assignments” for more details. <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> naics_sequence_num = ‘5’ <i>Reference:</i> Part I, Section 4.5b
35	NAICS CODE 6	C	Sixth six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. See Appendix E – “NAICS Codes Assignments” for more details. <i>Source:</i> TRI_SUBMISSION_NAICS.NAICS_CODE <i>Where:</i> naics_sequence_num = ‘6’ <i>Reference:</i> Part I, Section 4.5b

No.	Field Name	Type	Description
36	LATITUDE	N	The latitude value that best represents the facility according to EPA's Facility Registry System (FRS). In RY 2005, EPA stopped collecting the latitude value and began obtaining it from FRS. Format: signed 2-digit whole number, 6 digit decimal positions (+nn.nnnnnn). <i>Source: EPA's Facility Registry System</i>
37	LONGITUDE	N	The longitude value that best represents the facility according to EPA's Facility Registry System (FRS). In RY 2005, TRI stopped collecting the longitude value and began obtaining it from FRS. Format: signed 3-digit whole number, 6 digit decimal positions (+nnn.nnnnnn). <i>Source: EPA's Facility Registry System</i>
38	D&B NR A	C	Unique identification number assigned by Dun and Bradstreet to the reporting facility. <i>Source: TRI_FACILITY_DB.DB_NUM</i> <i>Reference: Part I, Section 4.7a</i>
39	D&B NR B	C	Unique identification number assigned by Dun and Bradstreet to the reporting facility. <i>Source: TRI_FACILITY_DB.DB_NUM</i> <i>Reference: Part I, Section 4.7b</i>
40	RCRA NR A	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
41	RCRA NR B	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
42	RCRA NR C	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
43	RCRA NR D	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
44	RCRA NR E	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
45	RCRA NR F	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>

No.	Field Name	Type	Description
46	RCRA NR G	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
47	RCRA NR H	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
48	RCRA NR I	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
49	RCRA NR J	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
50	NPDES NR A	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
51	NPDES NR B	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
52	NPDES NR C	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
53	NPDES NR D	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
54	NPDES NR E	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
55	NPDES NR F	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R.

No.	Field Name	Type	Description
			<i>Source: EPA's Facility Registry System</i>
56	NPDES NR G	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
57	NPDES NR H	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
58	NPDES NR I	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
59	NPDES NR J	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs on the Reporting Form R. <i>Source: EPA's Facility Registry System</i>
60	PARENT COMPANY NAME	C	Name of the corporation or other business entity that controls the reporting facility. <i>Source: TRI_FACILITY.PARENT_CO_NAME</i> <i>Reference: Part I, Section 5.1</i>
61	PARENT COMPANY D&B NR	C	Unique identification number assigned by Dun and Bradstreet to the parent company of the reporting facility. <i>Source: TRI_FACILITY.PARENT_CO_DB_NUM</i> <i>Reference: Part I, Section 5.2</i>
62	STANDARDIZED PARENT COMPANY NAME	C	Standardized Parent Company Name assigned by TRI. <i>Source: TRI_FACILITY.STANDARDIZED_PARENT_COMPANY</i>
63	FRS FACILITY ID	C	Indicates the Facility Registry Service (FRS) ID for the TRI facility. The FRS is a centrally managed EPA database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. Using the FRS ID, data users can link data from different EPA programs together. <i>Source: TRI_FACILITY.EPA_REGISTRY_ID</i>
64	DOCUMENT CONTROL NUMBER	C	Unique identification number assigned to each submission by EPA. Format: TTYMMMMNNNNNC, where TT = document type YY = reporting year MMM = document type NNNNN= sequential number C = check digit <i>Source: TRI_REPORTING_FORM.DOC_CTRL_NUM</i> <i>Reference: NA (System-generated)</i>

No.	Field Name	Type	Description
65	CAS NUMBER	C	<p>Chemical Abstracts Service (CAS) Registry Number for unique chemical, or category code (for compounds).</p> <p>NOTE: CAS number 999999999 is for sanitized trade secret submissions; CHEM_NAME displays the reported generic chemical name.</p> <p>Source: TRI_REPORTING_FORM.TRI_CHEM_ID</p> <p>Reference: Part II, Section 1.1</p>
66	CHEMICAL NAME		<p>Name of the chemical (or generic name, if the chemical is claimed as a trade secret).</p> <p>Source: TRI_REPORTING_FORM.CAS_CHEM_NAME</p> <p>Reference: Part II, Section 1.2 or Part II, Section 1.3</p>
67	MIXTURE NAME	C	<p>The generic term used in place of the chemical name when the supplier of the chemical is withholding the name of the TRI chemical or claiming that the chemical is a trade secret. The generic term used in place of the chemical name when the supplier of the chemical is withholding the name of the TRI chemical or claiming that the chemical is a trade secret. This is generally used when the supplier of a chemical formulation wishes to keep the identity of a particular ingredient in the formulation a secret. It is only used when the supplier, not the reporting facility, is claiming the trade secret. The reporting facility will enter the chemical name as "Mixture", then supply this generic name to describe it.</p> <p>Source: TRI_REPORTING_FORM.MIXTURE_NAME</p> <p>Reference: Part II, Section 2.1</p>
68	ELEMENTAL METAL INCLUDED	C	<p>Indicates whether the facility submitted a combined reporting form for a metal compound and the corresponding elemental metal. This data element collected beginning with RY 2018.</p> <p>VALUES: YES = combined reporting form submitted for both an elemental metal and a metal compound containing the same elemental metal; NO = only metal compound reported</p> <p>Source: TRI_REPORTING_FORM.ELEMENTAL_METAL_INCLUDED</p> <p>Reference: Part II, Section 1.2</p>
69	CLASSIFICATION	C	<p>Indicates the classification of the chemical. Chemicals can be classified as either a dioxin or dioxin-like compound, a Persistent, Bioaccumulative and Toxic chemical, or a general EPCRA Section 313 chemical.</p> <p>Values: {TRI, PBT, DIOXIN} where: TRI = General EPCRA Section 313 Chem. PBT = Persistent, Bioaccumulative and Toxic DIOXIN = Dioxin or Dioxin-like compound</p> <p>Source: TRI_CHEM_INFO.CLASSIFICATION</p> <p>Reference: NONE</p>
70	UNIT OF MEASURE	C	<p>Indicates the unit of measure used to quantify the chemical. Dioxin and dioxin-like compounds are reported in grams, while all other TRI chemicals are reported in pounds. Values: {Pounds, Grams}</p>

No.	Field Name	Type	Description
			<i>Source:</i> TRI_CHEM_INFO .UNIT_OF_MEASURE <i>Reference:</i> NONE
71	METAL_IND	C	Code indicating whether the chemical is a metal or not. Yes = Metal No = Non-Metal See "Appendix B -Chemical Classifications – Metals" for a list of the metals on the TRI chemical list. <i>Source:</i> TRI_CHEM_INFO .Metal_Ind
72	REVISION CODE 1	C	If the facility revised its original TRI reporting form for this chemical, this code indicates the reason for the revision. Values: RR1 = New Monitoring Data RR2 = New Emission Factors RR3 = New Chemical Concentration Data RR4 = Recalculation(s) RR5 = Other Reason(s) <i>Source:</i> TRI_REPORTING_FORM .Revision_Code_
73	REVISION CODE 2	C	If the facility revised its original TRI reporting form for this chemical, this code indicates the reason for the revision. Values: RR1 = New Monitoring Data RR2 = New Emission Factors RR3 = New Chemical Concentration Data RR4 = Recalculation(s) RR5 = Other Reason(s) <i>Source:</i> TRI_REPORTING_FORM .Revision_Code_
74	DIOXIN DISTRIBUTION 1	N	Indicates the percentage of 1,2,3,4,6,7,8 Heptachlorodibenzofuran (CAS # 67562-39-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source:</i> TRI_REPORTING_FORM .DIOXIN_DISTRIBUTION_1 <i>Reference:</i> Part II, Section 1.4
75	DIOXIN DISTRIBUTION 2	N	Indicates the percentage of 1,2,3,4,7,8,9 Heptachlorodibenzofuran (CAS # 55673-89-7) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source:</i> TRI_REPORTING_FORM .DIOXIN_DISTRIBUTION_2 <i>Reference:</i> Part II, Section 1.4
76	DIOXIN DISTRIBUTION 3	N	Indicates the percentage of 1,2,3,4,7,8 Hexachlorodibenzofuran (CAS # 70648-26-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source:</i> TRI_REPORTING_FORM .DIOXIN_DISTRIBUTION_3 <i>Reference:</i> Part II, Section 1.4

No.	Field Name	Type	Description
77	DIOXIN DISTRIBUTION 4	N	Indicates the percentage of 1,2,3,6,7,8 Hexachlorodibenzofuran (CAS # 57117-44-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_4</i> <i>Reference: Part II, Section 1.4</i>
78	DIOXIN DISTRIBUTION 5	N	Indicates the percentage of 1,2,3,7,8,9 Hexachlorodibenzofuran (CAS # 72918-21-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_5</i> <i>Reference: Part II, Section 1.4</i>
79	DIOXIN DISTRIBUTION 6	N	Indicates the percentage of 2,3,4,6,7,8 Hexachlorodibenzofuran (CAS # 60851-34-5) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_6</i> <i>Reference: Part II, Section 1.4</i>
80	DIOXIN DISTRIBUTION 7	N	Indicates the percentage of 1,2,3,4,7,8 Hexachlorodibenzo-p-dioxin (CAS # 39227-28-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_7</i> <i>Reference: Part II, Section 1.4</i>
81	DIOXIN DISTRIBUTION 8	N	Indicates the percentage of 1,2,3,6,7,8 Hexachlorodibenzo-p-dioxin (CAS # 5765385-7) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_8</i> <i>Reference: Part II, Section 1.4</i>
82	DIOXIN DISTRIBUTION 9	N	Indicates the percentage of 1,2,3,7,8,9 Hexachlorodibenzo-p-dioxin (CAS # 19408-74-3) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_9</i>

No.	Field Name	Type	Description
			<i>Reference:</i> Part II, Section 1.4
83	DIOXIN DISTRIBUTION 10	N	Indicates the percentage of 1,2,3,4,6,7,8 Heptachlorodibenzo-p-dioxin (CAS # 35822-46-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source:</i> TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_10 <i>Reference:</i> Part II, Section 1.4
84	DIOXIN DISTRIBUTION 11	N	Indicates the percentage of 1,2,3,4,6,7,8,9 Octachlorodibenzofuran (CAS # 39001-02-0) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source:</i> TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_11 <i>Reference:</i> Part II, Section 1.4
85	DIOXIN DISTRIBUTION 12	N	Indicates the percentage of 1,2,3,4,6,7,8,9 Octachlorodibenzo-p-dioxin (CAS # 03268-87-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source:</i> TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_12 <i>Reference:</i> Part II, Section 1.4
86	DIOXIN DISTRIBUTION 13	N	Indicates the percentage of 1,2,3,7,8 Pentachlorodibenzofuran (CAS # 57117-41-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source:</i> TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_13 <i>Reference:</i> Part II, Section 1.4
87	DIOXIN DISTRIBUTION 14	N	Indicates the percentage of 2,3,4,7,8 Pentachlorodibenzofuran (CAS # 57117-31-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). <i>Source:</i> TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_14 <i>Reference:</i> Part II, Section 1.4
88	DIOXIN DISTRIBUTION 15	N	Indicates the percentage of 1,2,3,7,8 Pentachlorodibenzo-p-dioxin (CAS # 40321-76-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source:</i> TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_15 <i>Reference:</i> Part II, Section 1.4

No.	Field Name	Type	Description
89	DIOXIN DISTRIBUTION 16	N	Indicates the percentage of 2,3,7,8 Tetrachlorodibenzofuran (CAS # 51207-31-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_16</i> <i>Reference: Part II, Section 1.4</i>
90	DIOXIN DISTRIBUTION 17	N	Indicates the percentage of 2,3,7,8 Tetrachlorodibenzo-p-dioxin (CAS # 01746-01-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See "Appendix D – Dioxin and Dioxin-like Compounds Data" for more information. <i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_17</i> <i>Reference: Part II, Section 1.4</i>
91	QUANTITY RELEASED PRIOR YEAR	N	The total quantity of the chemical released on and off site during the previous year. In RY 2003, this data element was retired and replaced by the more detailed data elements in rows 93, 97, 101, and 105 , which show the divisions of on-site and off-site releases for the previous year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_PREV_YR_QTY</i> <i>Reference: Part II, Section 8.1 Col. A</i>
92	QUANTITY RELEASED CURRENT YEAR	N	The total quantity of the chemical released on and off site during the current year. In RY 2003, this data element was retired and replaced by the more detailed data elements in rows 94, 98, 102, and 106 , which show the divisions of on-site and off-site releases for the current year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_CURR_YR_QTY</i> <i>Reference: Part II, Section 8.1 Col. B</i>
93	QUANTITY RELEASED FOLLOWING YEAR	N	The total quantity of the chemical released on and off site during the following year. In RY 2003, this data element was retired and replaced by the more detailed data elements in rows 95, 99, 103 and 107 , which show the divisions of on-site and off-site releases for the following year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_FOLL_YR_QTY</i> <i>Reference: Part II, Section 8.1 Col. C</i>
94	QUANTITY RELEASED SECOND-FOLLOWING YEAR	N	The total quantity of the chemical released on and off site during the second following year. In RY 2003, this data element was retired and replaced by the more detailed data elements in rows 96, 100, 104 and 108 , which show the divisions of on-site and off-site releases for the second following year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_SECD_YR_QTY</i> <i>Reference: Part II, Section 8.1 Col. D</i>
95	ON-SITE LIMITED RELEASES - PRIOR YEAR	N	Total quantity of on-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the previous year.

No.	Field Name	Type	Description
			<i>Source: TRI_SOURCE_REDUCT_QTY.REL_81a_PREV_YR_QTY</i> <i>Reference: Part II, Section 8.1a Col A.</i>
96	ON-SITE LIMITED RELEASES – CURRENT YEAR	N	Total quantity of on-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the current year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81a_CURR_YR_QTY</i> <i>Reference: Part II, Section 8.1a Col B.</i>
97	ON-SITE LIMITED RELEASES – FOLLOWING YEAR	N	<u>Projected</u> total quantity of on-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81a_FOLL_YR_QTY</i> <i>Reference: Part II, Section 8.1a Col C.</i>
98	ON-SITE LIMITED RELEASES – SECOND-FOLLOWING YEAR	N	<u>Projected</u> total quantity of on-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the second year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81a_SECD_YR_QTY</i> <i>Reference: Part II, Section 8.1a Col D.</i>
99	OTHER ON-SITE RELEASES – PRIOR YEAR	N	Total quantity of other on-site releases in the previous year. These include air emissions, surface water discharges, underground injections to Class II-V wells, land treatment/application farming, RCRA Subtitle C surface impoundments and other surface impoundments and other disposal. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81b_PREV_YR_QTY</i> <i>Reference: Part II, Section 8.1b Col A.</i>
100	OTHER ON-SITE RELEASES - CURRENT YEAR	N	Total quantity of other on-site releases in the current year. These include air emissions, surface water discharges, underground injections to Class II-V wells, land treatment/application farming, RCRA Subtitle C surface impoundments and other surface impoundments and other disposal. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81b_CURR_YR_QTY</i> <i>Reference: Part II, Section 8.1b Col B.</i>
101	OTHER ON-SITE RELEASES - FOLLOWING YEAR	N	<u>Projected</u> Total quantity of other on-site releases in the following year. These include air emissions, surface water discharges, underground injections to Class II-V wells, land treatment/application farming, RCRA Subtitle C surface impoundments and other surface impoundments and other disposal. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81b_FOLL_YR_QTY</i> <i>Reference: Part II, Section 8.1b Col C.</i>
102	OTHER ON-SITE RELEASES – SECOND-FOLLOWING YEAR	N	<u>Projected</u> Total quantity of other on-site releases in the second following year. These include air emissions, surface water discharges, underground injections to Class II-V wells, land treatment/application farming, RCRA Subtitle C surface impoundments and other surface impoundments and other disposal. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81b_SECD_YR_QTY</i> <i>Reference: Part II, Section 8.1b Col D.</i>
103	OFF-SITE LIMITED RELEASES – PRIOR YEAR	N	Total quantity of off-site releases to Class I Underground

No.	Field Name	Type	Description
			Injection Wells, RCRA Subtitle C landfills, and other landfills in the previous year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81c_PREV_YR_QTY</i> <i>Reference: Part II, Section 8.1c Col A.</i>
104	OFF-SITE LIMITED RELEASES – CURRENT YEAR	N	Total quantity of off-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the current reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81c_CURR_YR_QTY</i> <i>Reference: Part II, Section 8.1c Col B.</i>
105	OFF-SITE LIMITED RELEASES - FOLLOWING YEAR	N	<u>Projected</u> total quantity of off-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the year following the current reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81c_FOLL_YR_QTY</i> <i>Reference: Part II, Section 8.1c Col C.</i>
106	OFF-SITE LIMITED RELEASES - SECOND-FOLLOWING YEAR	N	<u>Projected</u> total quantity of off-site releases to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills in the second year following the current reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81c_SECD_YR_QTY</i> <i>Reference: Part II, Section 8.1c Col D.</i>
107	OTHER OFF-SITE RELEASES – PRIOR YEAR	N	Total quantity of other off-site releases in the previous year including Class II-V Underground Injection Wells, Surface Impoundments, Land Treatment, Other Land Disposal, Other Off-site Management, Transfers to Waste Brokers for Disposal and Unknown disposal. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81d_PREV_YR_QTY</i> <i>Reference: Part II, Section 8.1d Col A.</i>
108	OTHER OFF-SITE RELEASES – CURRENT YEAR	N	Total quantity of other off-site releases in the current year including Class II-V Underground Injection Wells, Surface Impoundments, Land Treatment, Other Land Disposal, Other Off-site Management, Transfers to Waste Brokers for Disposal and Unknown disposal. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81d_CURR_YR_QTY</i> <i>Reference: Part II, Section 8.1d Col B.</i>
109	OTHER OFF-SITE RELEASES – FOLLOWING YEAR	N	<u>Projected</u> total quantity of other off-site releases in the following year including Class II-V Underground Injection Wells, Surface Impoundments, Land Treatment, Other Land Disposal, Other Off-site Management, Transfers to Waste Brokers for Disposal and Unknown disposal. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81d_FOLL_YR_QTY</i> <i>Reference: Part II, Section 8.1d Col C.</i>
110	OTHER OFF-SITE RELEASES – SECOND-FOLLOWING YEAR	N	<u>Projected</u> total quantity of other off-site releases in the second following year including Class II-V Underground Injection Wells, Surface Impoundments, Land Treatment, Other Land Disposal, Other Off-site Management, Transfers to Waste Brokers for Disposal and Unknown disposal. <i>Source: TRI_SOURCE_REDUCT_QTY.REL_81d_SECD_YR_QTY</i> <i>Reference: Part II, Section 8.1d Col D.</i>
111	ENERGY RECOVERY ON SITE PRIOR YEAR	N	The total quantity of the toxic chemical used on site for

No.	Field Name	Type	Description
			energy recovery during the previous year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_ONSITE_PREV_YR_QTY <i>Reference: Part II, Section 8.2A</i>
112	ENERGY RECOVERY ON SITE CURRENT YEAR	N	The total quantity of the toxic chemical used on site for energy recovery during the current reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_ONSITE_CURR_YR_QTY <i>Reference: Part II, Section 8.2B</i>
113	ENERGY RECOVERY ON SITE FOLLOWING YEAR	N	The total quantity of the toxic chemical <u>projected</u> to be used on site for energy recovery in the first year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_ONSITE_FOLL_YR_QTY <i>Reference: Part II, Section 8.2C</i>
114	ENERGY RECOVERY ON SITE SECOND-FOLLOWING YEAR		The total quantity of the toxic chemical <u>projected</u> to be used on site for energy recovery in the second year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_ONSITE_SECD_YR_QTY Form R: Part II, Section 8.2D
115	ENERGY RECOVERY OFF SITE PRIOR YEAR	N	The total quantity of the toxic chemical sent off site for energy recovery during the previous year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_OFFSITE_PREV_YR_QTY <i>Reference: Part II, Section 8.3A</i>
116	ENERGY RECOVERY OFF SITE CURRENT YEAR	N	The total quantity of the toxic chemical sent off site for energy recovery during the current reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_OFFSITE_CURR_YR_QTY <i>Reference: Part II, Section 8.3B</i>
117	ENERGY RECOVERY OFF SITE FOLLOWING YEAR	N	The total quantity of the toxic chemical <u>projected</u> to be sent off site for energy recovery in the first year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_OFFSITE_FOLL_YR_QTY Form R: Part II, Section 8.3C
118	ENERGY RECOVERY OFF SITE SECOND-FOLLOWING YEAR	N	The total quantity of the toxic chemical <u>projected</u> to be sent off site for energy recovery in the second year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> ENERGY_OFFSITE_SECD_YR_QTY Form R: Part II, Section 8.3D
119	QUANTITY RECYCLED ON SITE PRIOR YEAR	N	The total quantity of the toxic chemical recycled on site during the previous year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> RECYC_ONSITE_PREV_YR_QTY <i>Reference: Part II, Section 8.4A</i>
120	QUANTITY RECYCLED ON SITE CURRENT YEAR	N	The total quantity of the toxic chemical recycled on site during

No.	Field Name	Type	Description
			the current reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> RECYC_ONSITE_CURR_YR_QTY <i>Reference: Part II, Section 8.4B</i>
121	QUANTITY RECYCLED ON SITE FOLLOWING YEAR	N	The total quantity of the toxic chemical <u>projected</u> to be recycled on site in first year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> RECYC_ONSITE_FOLL_YR_QTY <i>resource: Part II, Section 8.4C</i>
122	QUANTITY RECYCLED ON SITE SECOND-FOLLOWING YEAR	N	The total quantity of the toxic chemical <u>projected</u> to be recycled on site in the second year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> RECYC_ONSITE_SECD_YR_QTY <i>Reference: Part II, Section 8.4D</i>
123	QUANTITY RECYCLED OFF SITE PRIOR YEAR	N	The total quantity of the toxic chemical sent off site for recycling during the previous year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> RECYC_OFFSITE_PREV_YR_QTY <i>Reference: Part II, Section 8.5A</i>
124	QUANTITY RECYCLED OFF SITE CURRENT YEAR	N	The total quantity of the toxic chemical sent off site for recycling during the current reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> RECYC_OFFSITE_CURR_YR_QTY <i>Reference: Part II, Section 8.5B</i>
125	QUANTITY RECYCLED OFF SITE FOLLOWING YEAR	N	The total quantity of the toxic chemical <u>projected</u> to be sent off site for recycling in the first year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> RECYC_OFFSITE_FOLL_YR_QTY Form R: Part II, Section 8.5C
126	QUANTITY RECYCLED OFF SITE SECOND-FOLLOWING YEAR	N	The total quantity of the toxic chemical <u>projected</u> to be sent off site for energy recovery in the second year following the reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> RECYC_OFFSITE_PREV_YR_QTY <i>Reference: Part II, Section 8.5D</i>
127	QUANTITY TREATED ON SITE PRIOR YEAR	N	The total quantity of the toxic chemical treated on site during the previous year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> TREATED_ONSITE_PREV_YR_QTY <i>Reference: Part II, Section 8.6A</i>
128	QUANTITY TREATED ON SITE CURRENT YEAR	N	The total quantity of the toxic chemical treated on site during the current reporting year. <i>Source: TRI_SOURCE_REDUCT_QTY.</i> TREATED_ONSITE_CURR_YR_QTY <i>Reference: Part II, Section 8.6B</i>
129	QUANTITY TREATED ON SITE FOLLOWING YEAR	N	The total quantity of the toxic chemical <u>projected</u> to be treated on site in the first year following the reporting year.

No.	Field Name	Type	Description
			<p><i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_ONSITE_FOLL_YR_QTY <i>Reference:</i> Part II, Section 8.6C</p>
130	QUANTITY TREATED ON SITE SECOND-FOLLOWING YEAR	N	<p>The total quantity of the toxic chemical <u>projected</u> to be treated on site in the second year following the reporting year. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_ONSITE_SECD_YR_QTY <i>Reference:</i> Part II, Section 8.6D</p>
131	QUANTITY TREATED OFF SITE PRIOR YEAR	N	<p>The total quantity of the toxic chemical sent off site for treatment (including transfers to POTWs) during the previous reporting year. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_OFFSITE_PREV_YR_QTY <i>Reference:</i> Part II, Section 8.7A</p>
132	QUANTITY TREATED OFF SITE CURRENT YEAR	N	<p>The total quantity of the toxic chemical sent off site for treatment (including transfers to POTWs) during the current reporting year. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_OFFSITE_CURR_YR_QTY <i>Reference:</i> Part II, Section 8.7B</p>
133	QUANTITY TREATED OFF SITE FOLLOWING YEAR	N	<p>The total quantity of the toxic chemical sent off site for treatment (including transfers to POTWs) in the first year following the reporting year. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_OFFSITE_FOLL_YR_QTY <i>Reference:</i> Part II, Section 8.7C</p>
134	QUANTITY TREATED OFF SITE SECOND-FOLLOWING YEAR	N	<p>The total quantity of the toxic chemical sent off site for treatment (including transfers to POTWs) in the second year following the reporting year. <i>Source:</i> TRI_SOURCE_REDUCT_QTY. TREATED_OFFSITE_PREV_YR_QTY <i>Reference:</i> Part II, Section 8.7D</p>
135	CATASTROPHIC RELEASES OR OTHER ONE-TIME EVENTS	N	<p>The total quantity of the toxic chemical released to the environment or transferred off site due to events <u>not associated</u> with routine production processes. <i>Source:</i> TRI_REPORTING_FORM.ONE_TIME_RELEASE_QTY <i>Reference:</i> Part II, Section 8.8</p>
136	PROD RATIO/ACTIVITY INDEX	N	<p>The ratio of production or activity in the reporting year divided by production or activity in the previous year. Activity index is based on a variable other than production that is the primary influence on the quantity of the reported TRI chemical. Field length is in the format of +nnnn.nn. <i>Source:</i> TRI_REPORTING_FORM.PRODUCTION_RATIO <i>Reference:</i> Part II, Section 8.9</p>
137	PROD_RATIO_OR_ACTIVITY	C	<p>Indicates whether the value reported in Section 8.9 (see row #134) is a production ratio value or an activity index value. <i>Source:</i> TRI_DESC_CODE.DESCRPTION <i>Reference:</i> Part II, Section 8.9</p>

No.	Field Name	Type	Description
138	FIRST SOURCE REDUCTION ACTIVITY CODE	C	Activity code indicating the first action taken by the facility to reduce the amount of the toxic chemical released, used for energy recovery, recycled, or treated. This is a “W” followed by two digits (sometimes called a “W code”). <i>Source: TRI_SOURCE_REDUCT_METHOD.SOURCE_REDUCT_ACTIVITY</i> <i>Reference: Part II, Section 8.10.1</i>
139	FIRST SOURCE REDUCTION ACTIVITY DESCRIPTION	C	A text description of the preceding source reduction activity code. <i>Source: TRI_CODE_DESC.DESCRPTION</i> <i>Reference: Part II, Section 8.10.1</i>
140	FIRST SOURCE REDUCTION ACTIVITY ID METHOD – CODE 1	C	Code corresponding to the first method (or the information source) used to identify the possibility for implementing the first source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source: TRI_SOURCE_REDUCT_METHOD.SOURCE_REDUCT_METHOD_1</i> <i>Reference: Part II, Section 8.10.1a</i>
141	FIRST SOURCE REDUCTION ACTIVITY ID METHOD - CODE 1 DESCRIPTION	C	A text description of the preceding source reduction activity identification method code. <i>Source: TRI_DESC_CODE.DESCRPTION</i> <i>Reference: Part II, Section 8.10.1a</i>
142	FIRST SOURCE REDUCTION ACTIVITY ID METHOD – CODE 2	C	Code corresponding to the second method (or the information source) used to identify the possibility for implementing the first source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source: TRI_SOURCE_REDUCT_METHOD.SOURCE_REDUCT_METHOD_2</i> <i>Reference: Part II, Section 8.10.1b</i>
143	FIRST SOURCE REDUCTION ACTIVITY ID METHOD - CODE 2 DESCRIPTION	C	A text description of the preceding source reduction activity identification method code. <i>Source: TRI_DESC_CODE.DESCRPTION</i> <i>Reference: Part II, Section 8.10.1b</i>
144	FIRST SOURCE REDUCTION ACTIVITY ID METHOD – CODE 3	C	Code corresponding to the third method (or the information source) used to identify the possibility for implementing the first source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source: TRI_SOURCE_REDUCT_METHOD.SOURCE_REDUCT_METHOD_3</i> <i>Reference: Part II, Section 8.10.1c</i>
145	FIRST SOURCE REDUCTION ACTIVITY ID METHOD - CODE 3 DESCRIPTION	C	A text description of the preceding source reduction activity identification method code. <i>Source: TRI_DESC_CODE.DESCRPTION</i> <i>Reference: Part II, Section 8.10.1c</i>
146	EST ANNUAL REDUCTION - FIRST SOURCE REDUCTION ACTIVITY – CODE	C	Optionally, facilities can estimate the annual reduction in chemical waste generation associated with each reported source reduction activity. Reporting of this data element began in reporting year 2014.

No.	Field Name	Type	Description
			<p><i>Source:</i> TRI_SOURCE_REDUCT_METHOD.EST_ANNUAL_REDUCT <i>Reference:</i> Part II, Section 8.10.1d</p>
147	EST ANNUAL REDUCTION – FIRST SOURCE REDUCTION ACTIVITY – CODE DESCRIPTION	C	<p>Description of the preceding Estimated Annual Reduction code. A facility can enter one of six ranges codes. See “Form R, Section 8.10: Source Reduction Activities – Estimated Annual Reduction” in Appendix A for codes and descriptions. <i>Source:</i> TRI_DESC_CODE.DESCRIPTION <i>Reference:</i> Part II, Section 8.10.1d</p>
148	SECOND SOURCE REDUCTION ACTIVITY CODE	C	<p>Activity code indicating the second action taken by the facility to reduce the amount of the toxic chemical released, used for energy recovery, recycled, or treated. This is a “W” followed by two digits (sometimes called a “W code”). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD.SOURCE_REDUCT_ACTIVITY <i>Reference:</i> Part II, Section 8.10.2</p>
149	SECOND SOURCE REDUCTION ACTIVITY DESCRIPTION	C	<p>A text description of the preceding source reduction activity code. <i>Source:</i> TRI_CODE_DESC.DESCRIPTION <i>Reference:</i> Part II, Section 8.10.2</p>
150	SECOND SOURCE REDUCTION ACTIVITY ID METHOD – CODE 1	C	<p>Code corresponding to the first method (or the information source) used to identify the possibility for implementing the second source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD.SOURCE_REDUCT_METHOD_1 <i>Reference:</i> Part II, Section 8.10.2.a</p>
151	SECOND SOURCE REDUCTION ACTIVITY ID METHOD - CODE 1 DESCRIPTION	C	<p>A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE.DESCRIPTION <i>Reference:</i> Part II, Section 8.10.2.a</p>
152	SECOND SOURCE REDUCTION ACTIVITY ID METHOD – CODE 2	C	<p>Code corresponding to the second method (or the information source) used to identify the possibility for implementing the second source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD.SOURCE_REDUCT_METHOD_2 <i>Reference:</i> Part II, Section 8.10.2b</p>
153	SECOND SOURCE REDUCTION ACTIVITY ID METHOD - CODE 2 DESCRIPTION	C	<p>A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE.DESCRIPTION <i>Reference:</i> Part II, Section 8.10.2b</p>
154	SECOND SOURCE REDUCTION ACTIVITY ID METHOD – CODE 3	C	<p>Code corresponding to the third method (or the information source) used to identify the possibility for implementing the second source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD.SOURCE_REDUCT_METHOD_3</p>

No.	Field Name	Type	Description
			<i>Reference:</i> Part II, Section 8.10.2.c
155	SECOND SOURCE REDUCTION ACTIVITY ID METHOD - CODE 3 DESCRIPTION	C	A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.2.c
156	EST ANNUAL REDUCTION – SECOND SOURCE REDUCTION ACTIVITY - CODE	C	Optionally, facilities can estimate the annual reduction in chemical waste generation associated with each reported source reduction activity. Reporting of this data element began in reporting year 2014. <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .EST_ANNUAL_REDUCT <i>Reference:</i> Part II, Section 8.10.2d
157	EST ANNUAL REDUCTION - SECOND SOURCE REDUCTION ACTIVITY – CODE DESCRIPTION	C	Description of the preceding Estimated Annual Reduction code. A facility can enter one of six ranges codes. See “ Form R, Section 8.10: Source Reduction Activities – Estimated Annual Reduction ” in Appendix A for codes and descriptions. <i>Source:</i> TRI_DESC_CODE .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.2d
158	THIRD SOURCE REDUCTION ACTIVITY CODE	C	Activity code indicating the third action taken by the facility to reduce the amount of the toxic chemical released, used for energy recovery, recycled, or treated. This is a “W” followed by two digits (sometimes called a “W code”). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .SOURCE_REDUCT_ACTIVITY <i>Reference:</i> Part II, Section 8.10.3
159	THIRD SOURCE REDUCTION ACTIVITY DESCRIPTION	C	A text description of the preceding source reduction activity code. <i>Source:</i> TRI_CODE_DESC .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.3
160	THIRD SOURCE REDUCTION ACTIVITY ID METHOD – CODE 1	C	Code corresponding to the first method (or the information source) used to identify the possibility for implementing the third source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .SOURCE_REDUCT_METHOD_1 <i>Reference:</i> Part II, Section 8.10.3a
161	THIRD SOURCE REDUCTION ACTIVITY ID METHOD – CODE 1 DESCRIPTION	C	A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.3a
162	THIRD SOURCE REDUCTION ACTIVITY ID METHOD – CODE 2	C	Code corresponding to the second method (or the information source) used to identify the possibility for implementing the third source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .SOURCE_REDUCT_METHOD_2 <i>Reference:</i> Part II, Section 8.10.3b

No.	Field Name	Type	Description
163	THIRD SOURCE REDUCTION ACTIVITY ID METHOD – CODE 2 DESCRIPTION	C	A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.3b
164	THIRD SOURCE REDUCTION ACTIVITY ID METHOD – CODE 3	C	Code corresponding to the third method (or the information source) used to identify the possibility for implementing the third source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .SOURCE_REDUCT_METHOD_3 <i>Reference:</i> Part II, Section 8.10.3c
165	THIRD SOURCE REDUCTION ACTIVITY ID METHOD – CODE 3 DESCRIPTION	C	A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.3c
166	EST ANNUAL REDUCTION – THIRD SOURCE REDUCTION ACTIVITY - CODE	C	Optionally, facilities can estimate the annual reduction in chemical waste generation associated with each reported source reduction activity. Reporting of this data element began in reporting year 2014. <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .EST_ANNUAL_REDUCT <i>Reference:</i> Part II, Section 8.10.3d
167	EST ANNUAL REDUCTION – THIRD SOURCE REDUCTION ACTIVITY – CODE DESCRIPTION	C	Description of the preceding Estimated Annual Reduction code. A facility can enter one of six ranges codes. See “ Form R, Section 8.10: Source Reduction Activities – Estimated Annual Reduction ” in Appendix A for codes and descriptions. <i>Source:</i> TRI_DESC_CODE .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.3d
168	FOURTH SOURCE REDUCTION ACTIVITY CODE	C	Activity code indicating the fourth action taken by the facility to reduce the amount of the toxic chemical released, used for energy recovery, recycled, or treated. This is a “W” followed by two digits (sometimes called a “W code”). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .SOURCE_REDUCT_ACTIVITY <i>Reference:</i> Part II, Section 8.10.4
169	FOURTH SOURCE REDUCTION ACTIVITY DESCRIPTION	C	A text description of the preceding source reduction activity code. <i>Source:</i> TRI_CODE_DESC .DESCRIPTION <i>Reference:</i> Part II, Section 8.10.4
170	FOURTH SOURCE REDUCTION ACTIVITY ID METHOD – CODE 1	C	Code corresponding to the first method (or the information source) used to identify the possibility for implementing the fourth source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD .SOURCE_REDUCT_METHOD_1 <i>Reference:</i> Part II, Section 8.10.4a
171	FOURTH SOURCE REDUCTION ACTIVITY ID METHOD – CODE 1 DESCRIPTION	C	A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE .DESCRIPTION

No.	Field Name	Type	Description
			<i>Reference:</i> Part II, Section 8.10.4a
172	FOURTH SOURCE REDUCTION ACTIVITY ID METHOD – CODE 2	C	Code corresponding to the second method (or the information source) used to identify the possibility for implementing the fourth source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD.SOURCE_REDUCT_METHOD_2 <i>Reference:</i> Part II, Section 8.10.4b
173	FOURTH SOURCE REDUCTION ACTIVITY ID METHOD – CODE 2 DESCRIPTION	C	A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE.DESCRPTION <i>Reference:</i> Part II, Section 8.10.4b
174	FOURTH SOURCE REDUCTION ACTIVITY ID METHOD – CODE 3	C	Code corresponding to the third method (or the information source) used to identify the possibility for implementing the fourth source reduction activity at the facility. This is a “T” followed by two digits (sometimes called a “T” code). <i>Source:</i> TRI_SOURCE_REDUCT_METHOD.SOURCE_REDUCT_METHOD_3 <i>Reference:</i> Part II, Section 8.10.4c
175	FOURTH SOURCE REDUCTION ACTIVITY ID METHOD – CODE 3 DESCRIPTION	C	A text description of the preceding source reduction activity identification method code. <i>Source:</i> TRI_DESC_CODE.DESCRPTION <i>Reference:</i> Part II, Section 8.10.4c
176	EST ANNUAL REDUCTION – FOURTH SOURCE REDUCTION ACTIVITY – CODE	C	Optionally, facilities can estimate the annual reduction in chemical waste generation associated with each reported source reduction activity. Reporting of this data element began in reporting year 2014. <i>Source:</i> TRI_SOURCE_REDUCT_METHOD.EST_ANNUAL_REDUCT <i>Reference:</i> Part II, Section 8.10.4d
177	EST ANNUAL REDUCTION – FOURTH SOURCE REDUCTION ACTIVITY- CODE DESCRIPTION	C	Description of the preceding Estimated Annual Reduction code. A facility can enter one of six ranges codes. See “ Form R, Section 8.10: Source Reduction Activities – Estimated Annual Reduction ” in Appendix A for codes and descriptions. <i>Source:</i> TRI_DESC_CODE.DESCRPTION <i>Reference:</i> Part II, Section 8.10.4d

APPENDIX A – LIST OF VALUES FOUND IN FILE TYPE 2A

Form R, Section 8.10. Source Reduction Activities – Estimated Annual Reduction

- R1 = 100% (elimination of the chemical)
- R2 = greater than or equal to 50%, but less than 100%
- R3 = greater than or equal to 25%, but less than 50%
- R4 = greater than or equal 15%, but less than to 25%
- R5 = greater than or equal 5%, but less than to 15%
- R6 = greater than 0%, but less than 5%

APPENDIX B – Chemical Classification - Metals

Category 1 Metals (Metal_Ind = '1')

Chemical	CAS#	TRI Chemical ID
ANTIMONY	7440-36-0	007440360
ANTIMONY COMPOUNDS	N010	N010
ARSENIC	7440-38-2	007440382
ARSENIC COMPOUNDS	N020	N020
BERYLLIUM	7440-41-7	007440417
BERYLLIUM COMPOUNDS	N050	N050
CADMIUM	7440-43-9	007440439
CADMIUM COMPOUNDS	N078	N078
CHROMIUM	7440-47-3	007440473
CHROMIUM COMPOUNDS (EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)	N090	N090
COBALT	7440-48-4	007440484
COBALT COMPOUNDS	N096	N096
COPPER	7440-50-8	007440508
COPPER COMPOUNDS	N100	N100
LEAD	7439-92-1	007439921
LEAD COMPOUNDS	N420	N420

MANGANESE	7439-96-5	007439965
MANGANESE COMPOUNDS	N450	N450
MERCURY	7439-97-6	007439976
MERCURY COMPOUNDS	N458	N458
NICKEL	7440-02-0	007440020
NICKEL COMPOUNDS	N495	N495
SELENIUM	7782-49-2	007782492
SELENIUM COMPOUNDS	N725	N725
SILVER	7440-22-4	007440224
SILVER COMPOUNDS	N740	N740
THALLIUM	7440-28-0	007440280
THALLIUM COMPOUNDS	N760	N760
VANADIUM COMPOUNDS	N770	N770
ZINC COMPOUNDS	N982	N982

APPENDIX B – Chemical Classification - Metals (cont.)

Category 2 Metals (Metal_Ind = '2')

Chemical	CAS#	TRI Chemical ID
ALUMINUM OXIDE (FIBROUS FORMS)	1344-28-1	001344281
ALUMINUM PHOSPHIDE	20859-73-8	020859738
ASBESTOS (FRIABLE)	1332-21-4	001332214
BIS(TRIBUTYLTIN) OXIDE	56-35-9	000056359
BORON TRICHLORIDE	10294-34-5	010294345
BORON TRIFLUORIDE	7637-07-2	007637072
C.I. DIRECT BLUE 218	28407-37-6	028407376
C.I. DIRECT BROWN 95	16071-86-6	016071866
FENBUTATIN OXIDE	13356-08-6	013356086
FERBAM	14484-64-1	014484641
IRON PENTACARBONYL	13463-40-6	013463406
LITHIUM CARBONATE	554-13-2	000554132
MANEB	12427-38-2	012427382
METIRAM	9006-42-2	009006422
MOLYBDENUM TRIOXIDE	1313-27-5	001313275
OSMIUM TETROXIDE	20816-12-0	020816120
POTASSIUM BROMATE	7758-01-2	007758012
SODIUM NITRITE	7632-00-0	007632000
THORIUM DIOXIDE	1314-20-1	001314201
TITANIUM TETRACHLORIDE	7550-45-0	007550450
TRIBUTYLTIN FLUORIDE	1983-10-4	001983104
TRIBUTYLTIN METHACRYLATE	2155-70-6	002155706
TRIPHENYLTIN CHLORIDE	639-58-7	000639587
TRIPHENYLTIN HYDROXIDE	76-87-9	000076879
ZINEB	12122-67-7	012122677

Category 3 Metals (Metal_Ind = '3')

Chemical	CAS#	TRI Chemical ID
BARIUM	7440-39-3	007440393
BARIUM COMPOUNDS	N040	N040

Category 4 Metals (Metal_Ind = '4')

Chemical	CAS#	TRI Chemical ID
ALUMINUM (FUME OR DUST)	7429-90-5	007429905
VANADIUM (EXCEPT WHEN CONTAINED IN AN ALLOY)	7440-62-2	007440622
ZINC (FUME OR DUST)	7440-66-6	007440666

APPENDIX C - Persistent Bio-accumulative Toxics (PBTs)

Chemical Name	CAS Number
ALDRIN	309-00-2
BENZO(G H I)PERYLENE	191-24-2
CHLORDANE	57-74-9
DIOXIN AND DIOXIN-LIKE COMPOUNDS	N150
HEPTACHLOR	76-44-8
HEXABROMOCYCLODODECANE	N270
HEXACHLOROBENZENE	118-74-1
ISODRIN	465-73-6
LEAD	7439-92-1
LEAD COMPOUNDS	N420
MERCURY	7439-97-6
MERCURY COMPOUNDS	N458
METHOXYCHLOR	72-43-5
OCTACHLOROSTYRENE	29082-74-4
PENDIMETHALIN	40487-42-1
PENTACHLOROBENZENE	608-93-5
POLYCHLORINATED BIPHENYLS	1336-36-3
POLYCYCLIC AROMATIC COMPOUNDS	N590
TETRABROMOBISPHENOL A	79-94-7
TOXAPHENE	8001-35-2
TRIFLURALIN	1582-09-8

APPENDIX D - Dioxin and Dioxin-like Compound Data

In reporting year (RY) 2000, the Toxics Release Inventory Program began collecting congener data for dioxin and dioxin-like compounds to better convey the relative toxicity of these chemicals being released or managed at facilities. From RY 2000 through 2007, Part II, Section 1.4 of the Reporting Form R asked facilities to specify the percentages of the 17 individual chemicals that make up a dioxin or dioxin-like compound for all media (air, water and land). Fields #72-#88 of this file should contain those reported percentages.

In RY 2008, the TRI Program improved collection of dioxin and dioxin-like compounds data by introducing the Form R Schedule One. This new supplemental form allows facilities to report quantities of each of the 17 dioxin congeners.

Although useful, total releases are not the best measure of the actual toxicity of dioxin and dioxin-like compounds because each compound has its own level of toxicity. Both the original reporting of dioxin and dioxin-like congeners and the Form R Schedule One reporting allowed the TRI Program to calculate Toxic Equivalency (TEQ) values for each facility's dioxin releases. TEQs are a weighted quantity measure based on the toxicity of each member of the dioxin and dioxin-like compounds category relative to the most toxic members of the category. The values allow for comparison of the toxicity of different combinations of dioxins and dioxin-like compounds, and help explain the relative toxicity of the TRI chemical release information.

For more information about dioxin and dioxin-like chemical reporting and the calculation of TEQs, see <https://www.epa.gov/toxics-release-inventory-tri-program/dioxin-and-dioxin-compounds-toxic-equivalency-information>. To download dioxin data from the Form R Schedule One, visit <https://www.epa.gov/toxics-release-inventory-tri-program/tri-dioxin-and-dioxin-compounds-and-teq-data-files-calendar>.

APPENDIX E – NAICS Code Assignments

Until RY 2006, the TRI Program used Standard Industrial Codes (SIC) to identify each reporting facility's industry sector. In RY 2006, the TRI Program began using North American Industry Classification System (NAICS) codes.

To allow for analysis of data across years, the TRI Program assigned NAICS codes to each TRI submission from 1987 through 2005. The six methods used to assign NAICS codes and the number and percentages of assignments per method are shown in the table below. The "Order of Precedence" column indicates the order in which the methods were used to make an assignment.

Method	Order of Precedence	Number of NAICS codes Assigned via Method (in Thousands)	Percentage Per Method
Reported Data Used	1	821K	50%
SIC to NAICS Crosswalk	2	478K	29%
EPA Facility Registry System (FRS)	3	190K	11%
Commercial Sources	4	113K	7%
Statistics	5	51K	3%
Other Methods	6	2K	Less than 1 %

Reported Data Used – In this method, the primary NAICS code reported by each facility in RY 2006 was used to make an assignment to chemical submissions (Form Rs and Form As) for years 1987 to 2005. This method was only used under the following conditions:

1. The RY 2006 chemical submitted had only one primary NAICS code reported
2. The prior year submission(s) for the same chemical had only one primary SIC code consistently reported
3. The SIC to NAICS Crosswalk (obtained for the U.S. Census Bureau) showed a one-to-one match between the reported SIC and NAICS codes

This method was used to assign 50% of all NAICS codes.

SIC to NAICS Crosswalk – In this method, the TRI Program used a crosswalk or lookup table that translated SIC codes into NAICS codes to assign a primary NAICS code to a pre-2006 TRI chemical submission. The primary SIC code reported on the TRI form was used to lookup the corresponding NAICS code. Not all SIC codes translated into only one NAICS code, so it was not possible to use this method to assign a NAICS code to each chemical submission. However, it was used to make 29% of all the assignments.

EPA Facility Registry System (FRS) – In this method, the TRI Program used NAICS codes found in EPA's Facility Registry System (FRS) to assign a primary NAICS code to each TRI chemical submission. This method was only used if FRS listed only one primary NAICS code for a facility. 11% of all assignments were made using this method.

Commercial Sources - This method involved using various commercial services to verify NAICS code assignments. 7% of all assignments were made using this method.

Statistics – For 3% of NAICS code assignments, the TRI Program used various statistical methods based on past and present data.

Other Methods – Manual research (e.g., using Internet searches and other government agencies' data) and personally contacting facilities helped the TRI Program assign NAICS codes to approximately 2,000 TRI submissions.