TOXICS RELEASE INVENTORY

BASIC PLUS DATA FILES DOCUMENTATION

FILE TYPE 3B: DETAILS OF TRANSFERS TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

For Reporting Years 1987-2010

Updated for RY 2023

August 2024

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.

File	Example	Description of Contents	Form R/Form A Reference
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 3B CONTENTS

File Type 3B contains data about transfers of wastewater containing TRI chemicals to Publicly Owned Treatment Works (POTWs) for Reporting Years (RY) 1987 to 2010. In the years covered by this file, a facility only had to report the total amount of a chemical transferred to all POTWs, and a list of POTWs the chemical was transferred to. Facilities weren't required to report how much of the chemical was transferred to each POTW or how the chemical was managed once at the POTW. These details were required for RY 2011 and later, however, and those data are available in Basic Plus File 3C.

The data in File 3B come from the TRI Reporting Form, as shown in the table below. Each record in File Type 3B represents data from a single chemical reporting form (i.e., Form R) submitted by a facility.

Part	Section	Description
I	1	Reporting Year
I	1	Revision Codes
I	4	Facility Identification Information
I	5	Parent Company Information
I	1	Chemical Identification Data
II	6.1.A.1	Total Transfers (to POTWs)
II	6.1.A.2	Basis of Estimate
II	6.1.B	POTW Name and Address

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 3B" 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., *reference*). 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	2740WNVRNM837TR	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 3B 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 *Source:* **TRI_REPORTING_FORM.**FORM_TYPE_IND *Reference:* Type of Form Used
2	TRIFD	C	The unique TRI facility identification (TRIFID) number assigned to each facility for TRI reporting purposes. *Note: The content of this field is not changed to match facility ownership, or zip code changes. Rather, the TRIFD identifies a specific geographical location (also identified by the latitude and longitude of that location).* *Source:* **TRI_FACILITY.**TRI_FACILITY_ID *Reference:* Part I, Section 4.1
3	DOCUMENT CONTROL NUMBER	C	Unique identification number assigned to each TRI form submission. Format: TTYYNNNNNNNNN, where: TT = document type YY = reporting year NNNNNNNNN= assigned number *Source:* **TRI_REPORTING_FORM.**DOC_CTRL_NUM *Reference:* NA (System-generated)
4	CAS NUMBER	C	Unique numerical identifier assigned by the Chemical Abstracts Service to every chemical substance. *Note: CAS number 9999999999 is for sanitized trade secret submissions.* *Source:* **TRI_CHEM_INFO.**CAS_REGISTRY_NUMBER *Reference:* Part II, Section 1.1

5	TRI_CHEM_ID	C	TRI Chemical ID is an internal program number that uniquely identifies chemical or category codes (for compounds). The number is the same as the CAS number but with a different format (no dashes and left padded with zeroes for noncompounds). Format: 9999999999 (Chemicals) N999 (Compounds) *Note: I_CHEM_ID 9999999999 is sanitized for trade secret submissions.* *Source:* **TRI_REPORTING_FORM.**TRI_CHEM_ID *Reference:* Part II, Section 1.1
6	CHEMICAL NAME	C	Name of the chemical as listed on the TRI chemical list, or generic name, if the chemical is claimed as a trade secret. *Source:* **TRI_REPORTING_FORM.**CAS_CHEM_NAME *Reference:* Part II, Section 1.2 *or* Part II, Section 1.3
7	MIXTURE NAME	C	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. *Source:* **TRI_REPORTING_FORM.**MIXTURE_NAME *Reference:* Part II, Section 2.1
8	ELEMENTAL METAL INCLUDED	C	Flag indicating whether the facility submitted a combined reporting form for a metal compound and the corresponding elemental metal. TRI started collecting this data element beginning with RY 2018. Values: YES = combined form for both an elemental metal and a metal compound containing the same elemental metal NO = only metal compound reported *Source:* **TRI_REPORTING_FORM.**ELEMENTAL_METAL_INCLUDED *Reference:* Part II, Section 1.2
9	CLASSIFICATION	C	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. Values: {TRI, PBT, DIOXIN} where: TRI = General EPCRA Section 313 Chem. PBT = Bioaccumulative and Toxic DIOXIN = Dioxin or Dioxin-like compound *Source:* **TRI_CHEM_INFO.**CLASSIFICATION *Reference:* NONE
10	UNIT OF MEASURE	C	Indicates the unit of measure used to quantify the chemical. Dioxin and dioxin-like compounds are measured in grams, while all other TRI chemicals are measured and reported in pounds. Values: {Pounds, Grams} *Source:* **TRI_CHEM_INFO.**UNIT_OF_MEASURE *Reference:* NONE

11	HAZARDOUS AIR POLLUTANT - HAPS	C	Flag indicating whether the chemical is listed as a hazardous air pollutant under the Clean Air Act (CAA). Yes = CAAC No = non-CAAC See Appendix B: Chemical Classifications – CAAC for a list of TRI chemicals designated as hazardous air pollutants under the CAA. *Source:* **TRI_CHEM_INFO.**CAAC_IND
12	CARCINOGEN	C	Flag indicating whether the chemical is classified as a carcinogen by the Occupational Safety and Health Administration (OSHA). Yes = CARC; No = non-CARC See Appendix B: Chemical Classifications – Carcinogens for a list of TRI chemicals classified as OSHA carcinogens. *Source:* **TRI_CHEM_INFO.**CARC_IND
13	PFAS_IND	C	Flag indicating whether the chemical is a per- and polyfluoroalkyl substance (PFAS). Yes = PFAS; No = Not a PFAS. See Appendix B: Chemical Classifications – PFAS for a list of PFAS on the TRI chemical list. *Source:* **TRI_CHEM_INFO.**PFAS_IND
14	METAL_IND	C	Flag indicating whether the chemical is a metal with TRI reporting restrictions. Yes = Metal with reporting restrictions No = TRI chemical without reporting restrictions See Appendix B: Chemical Classifications – Metals for a list of metals on the TRI chemical list. *Source:* **TRI_CHEM_INFO.**Metal_Ind
15	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) *Source:* **TRI_REPORTING_FORM.**Revision_Code
16	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) *Source:* **TRI_REPORTING_FORM.**Revision_Code
17	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_1 *Reference:* Part II, Section 1.4

18	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_2 *Reference:* Part II, Section 1.4
19	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_3 *Reference:* Part II, Section 1.4
20	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_4 *Reference:* Part II, Section 1.4
21	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_5 *Reference:* Part II, Section 1.4
22	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_6 *Reference:* Part II, Section 1.4
23	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_7 *Reference:* Part II, Section 1.4

24	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_8 *Reference:* Part II, Section 1.4
25	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_9 *Reference:* Part II, Section 1.4
26	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_10 *Reference:* Part II, Section 1.4
27	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_11 *Reference:* Part II, Section 1.4
28	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_12 *Reference:* Part II, Section 1.4
29	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_13 *Reference:* Part II, Section 1.4

30	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_14 *Reference:* Part II, Section 1.4
31	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_15 *Reference:* Part II, Section 1.4
32	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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_16 *Reference:* Part II, Section 1.4
33	DIOXIN DISTRIBUTION 17	N	Indicates the percentage of 2,3,78 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). See Appendix C for details. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_17 *Reference:* Part II, Section 1.4
34	REPORTING YEAR	C	The calendar year in which the reported activities occurred. *Source:* **TRI_REPORTING_FORM.**REPORTING_YEAR *Reference:* Part I, Section 1
35	TRADE SECRET INDICATOR	C	Flag indicating 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.* *Source:* **TRI_REPORTING_FORM.**TRADE_SECRET_IND *Reference*: Part I, Section 2.1
36	FACILITY NAME	C	Name of the reporting facility. *Source:* **TRI_FACILITY.**FACILITY_NAME *Reference:* Part I, Section 4.1
37	FACILITY STREET	C	Street address of the reporting facility. *Source:* **TRI_FACILITY.**STREET_ADDRESS *Reference:* Part I, Section 4.1
38	FACILITY CITY	C	City in which the reporting facility is located. *Source:* **TRI_FACILITY.**CITY_NAME *Reference:* Part I, Section 4.1

39	FACILITY COUNTY	C	County in which the reporting facility is located. *Source:* **TRI_FACILITY.**COUNTY_NAME *Reference:* Part I, Section 4.1
40	FACILITY STATE	C	Two-letter abbreviation of the state in which the reporting facility is located. *Source:* **TRI_FACILITY.**STATE_ABBR *Reference:* Part I, Section 4.1
41	FACILITY ZIP CODE	C	ZIP code of the reporting facility. *Source:* **TRI_FACILITY.**ZIP_CODE *Reference:* Part I, Section 4.1
42	ASSIGNED FED. FACILITY FLAG	C	Flag indicating whether the facility is federally owned. Yes = federal No = non-federal *Source:* **TRI_FACILITY.**ASGN_FEDERAL *Reference:* Assigned by the TRI Program.
43	ASSIGNED PARTIAL FACILITY FLAG	C	Flag indicating if the facility is a multi-establishment facility that reports by part. Multi-establishment facilities may have more than one submission for the same chemical in one reporting year. Yes = partial No = entire *Source:* **TRI_FACILITY**. ASGN_PARTIAL_IND *Reference:* Assigned by the TRI Program.
44	BIA CODE	C	Three-letter Bureau of Indian Affairs (BIA) code indicating the tribal land on which the facility is located. *Source:* **FACILITY.**BIA_TRIBAL_CODE
45	TRIBE NAME	C	Name of the tribe on whose land the reporting facility is located. *Source:* **TRI_TRIBE_DESC**.TRIBE
46	ENTIRE FACILITY IND	C	Flag indicating whether the information covers an entire facility or part of a facility. Yes = entire No = partial *Source:* **TRI_REPORTING_FORM.**ENTIRE_FAC *Reference:* Part I, Section 4.2a
47	PARTIAL FACILITY IND	C	Flag indicating whether the information covers part of a facility or an entire facility. Yes = partial No = entire *Source:* **TRI_REPORTING_FORM.**PARTIAL_FAC *Reference:* Part I, Section 4.2b
48	FEDERAL FACILITY IND	C	Flag indicating whether the facility is federally owned and operated. Yes = federal No = non-federal *Source:* **TRI_REPORTING_FORM.**FEDERAL_ FAC_IND *Reference:* Part I Section 4.2c
49	GOCO FACILITY IND	C	Flag indicating whether a facility is Government-Owned, Contractor-Operated. Yes = GOCO No = non-GOCO *Source:* **TRI_REPORTING_FORM.**GOCO_ FLAG *Reference:* Part I Section 4.2d

50	PUBLIC CONTACT NAME	C	Name of the designated individual whom the public may contact if clarification of the facility's reported data is needed. *Source:* **TRI_REPORTING_FORM**.PUBLIC_ CONTACT_PERSON *Reference:* Part I, Section 4.4
51	PUBLIC CONTACT PHONE	C	Area code and telephone number of the public contact. *Source:* **TRI_REPORTING_FORM**.PUBLIC_ CONTACT_PHONE *Reference:* Part I, Section 4.4
52	PUBLIC CONTACT PHONE EXT	C	Phone extension of the public contact. *Source:* **TRI_REPORTING_FORM**.PUBLIC_PHONE_EXT *Reference:* Part I, Section 4.4
53	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. *Source:* **TRI_REPORTING_FORM**.PUBLIC_CONTACT_PERSON_EMAIL *Reference:* Part I, Section 4.4
54	PRIMARY SIC CODE	C	Primary 4-digit Standard Industrial Classification (SIC) code. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* primary_ind = >1' *Reference:* Part I, Section 4.5a
55	SIC CODE 2	C	Second 4-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = >2' *Reference:* Part I, Section 4.5b
56	SIC CODE 3	C	Third 4-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = >3' *Reference:* Part I, Section 4.5c
57	SIC CODE 4	C	Fourth 4-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = >4' *Reference:* Part I, Section 4.5d
58	SIC CODE 5	C	Fifth 4-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.** SIC_CODE *Where:* sic_sequence_num = >5' *Reference:* Part I, Section 4.5e

59	SIC CODE 6	C	Sixth 4-digit Standard Industrial Classification (SIC) code entered by facility. *Note: SIC codes were reported by facilities from RY 1987 through 2005.* *Source:* **TRI_SUBMISSION_SIC.** SIC_CODE *Where:* sic_sequence_num = >6' *Reference:* Part I, Section 4.5f
60	NAICS ORIGIN	C	Indicates whether North American Standard Industry Classification System (NAICS) codes were reported or assigned. R = Reported A = Assigned *Source:* **TRI_SUBMISSION_NAICS**.SOURCE *Reference*: TRI system-generated
61	PRIMARY NAICS CODE	C	Primary 6-digit North American Standard Industry Classification System (NAICS) code. This represents the main business activity at the facility. See Appendix A: "NAICS Codes Assignments" for details. *Note: From RY 2006 to the present, NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* primary_ind => 1 *Reference:* Part I, Section 4.5a
62	NAICS CODE 2	C	Second 6-digit North American Standard Industry Classification System (NAICS) code entered by facility. *Note: NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = 2 *Reference:* Part I, Section 4.5b
63	NAICS CODE 3	C	Third 6-digit North American Standard Industry Classification System (NAICS) code entered by facility. *Note: NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = 3 *Reference:* Part I, Section 4.5b
64	NAICS CODE 4	C	Fourth 6-digit North American Standard Industry Classification System (NAICS) code entered by facility. *Note: NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = 4 *Reference:* Part I, Section 4.5b
65	NAICS CODE 5	C	Fifth 6-digit North American Standard Industry Classification System (NAICS) code entered by facility. *Note: NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = 5 *Reference:* Part I, Section 4.5b

66	NAICS CODE 6	C	Sixth 6-digit North American Standard Industry Classification System (NAICS) code entered by facility. *Note: NAICS codes reported by facilities from RY 2006 to present. Prior to RY 2006, NAICS codes were assigned by EPA.* *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = 6 *Reference:* Part I, Section 4.5b
67	LATITUDE	N	The latitude value that best represents the facility according to EPA's Facility Registry System (FRS). Format: signed 2-digit whole number, 6 decimal positions (+nn.nnnnnn). *Note: In RY 2005, EPA stopped collecting the latitude value and began obtaining it from FRS.* *Source:* **EPA's Facility Registry System**
68	LONGITUDE	N	The longitude value that best represents the facility according to EPA's Facility Registry System (FRS). Format: signed 3-digit whole number, 6 decimal positions (+nnn.nnnnnn). *Note: In RY 2005, EPA stopped collecting the longitude value and began obtaining it from FRS.* *Source:* **EPA's Facility Registry System**
69	D&B NR A	C	Unique identification number assigned by Dun and Bradstreet to the reporting facility. Dun & Bradstreet is a private financial tracking and accounting firm. *Source:* **TRI_FACILITY_DB.**DB_NUM *Reference:* Part I, Section 4.7a
70	D&B NR B	C	Unique identification number assigned by Dun and Bradstreet to the reporting facility. Dun & Bradstreet is a private financial tracking and accounting firm. *Source:* **TRI_FACILITY_DB.**DB_NUM *Reference:* Part I, Section 4.7b
71	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 and began obtaining them from EPA's Facility Registry System (FRS).* *Source:* **EPA's Facility Registry System**
72	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 and began obtaining them from EPA's Facility Registry System (FRS).* *Source:* **EPA's Facility Registry System**
73	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 and began obtaining them from EPA's Facility Registry System (FRS).* *Source:* **EPA's Facility Registry System**
74	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 and began obtaining them from EPA's Facility Registry System (FRS).* *Source:* **EPA's Facility Registry System**

75	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 and began obtaining them from EPA's Facility Registry System (FRS).* *Source:* **EPA's Facility Registry System**
76	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 and began obtaining them from EPA's Facility Registry System (FRS).* *Source:* **EPA's Facility Registry System**
77	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 and began obtaining them from EPA's Facility Registry System (FRS).* *Source:* **EPA's Facility Registry System**
78	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 and began obtaining them from EPA's Facility Registry System (FRS).* *Source:* **EPA's Facility Registry System**
79	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 and began obtaining them from EPA's Facility Registry System (FRS).* *Source:* **EPA's Facility Registry System**
80	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 and began obtaining them from EPA's Facility Registry System (FRS).* *Source:* **EPA's Facility Registry System**
81	NPDES NR A	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
82	NPDES NR B	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
83	NPDES NR C	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**

84	NPDES NR D	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
85	NPDES NR E	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
86	NPDES NR F	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
87	NPDES NR G	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
88	NPDES NR H	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
89	NPDES NR I	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
90	NPDES NR J	C	Nine-digit alphanumeric identifier assigned to a facility by EPA's National Pollutant Discharge Elimination System (NPDES) permit program. *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* **EPA's Facility Registry System**
91	PARENT COMPANY NAME	C	Name of the corporation or other business entity that controls the reporting facility. *Source:* **TRI_FACILITY.**PARENT_CO_NAME *Reference:* Part I, Section 5.1
92	PARENT COMPANY D&B NR	C	Unique identification number assigned by Dun and Bradstreet to the parent company of the reporting facility. *Source:* **TRI_FACILITY.**PARENT_CO_DB_NUM *Reference:* Part I, Section 5.2

93	STANDARDIZED PARENT COMPANY NAME	C	A data field developed by EPA that is intended to best reflect the current ultimate U.S. parent company for the facility. *Source:* **TRI_FACILITY.**STANDARDIZED_PARENT_COMPANY *Reference:* Assigned by EPA.
94	FOREIGN PARENT COMPANY NAME	C	The current name of the foreign corporation or other business entity that controls the reporting facility. A facility can have both a domestic (see field 13) parent company and foreign parent company. Facilities with sole ownership or controlling interest inside the U.S. will not have a foreign parent company. A value of NA = No Foreign Company Name/Not applicable. *Source:* **TRI_FACILITY.**FOREIGN_PARENT_CO_NAME *Reference:* Part I, Section 5.3
95	FOREIGN PARENT COMPANY D&B NR	C	The current unique identification number assigned by Dun and Bradstreet to the foreign parent company of the reporting facility. *Source:* **TRI_FACILITY.**FOREIGN_PARENT_CO_DB_NUM *Reference:* Part I, Section 5.4
96	STANDARDIZED FOREIGN PARENT COMPANY NAME	C	The current standardized Foreign Parent Company Name assigned by TRI. 'Standardized Foreign Parent Company Name' is a data field developed by EPA that is intended to best reflect the current ultimate foreign parent company for the facility. *Source*: **TRI_FACILITY.** STANDARDIZED_FOREIGN_PARENT_CO *Reference*: Assigned by the TRI Program.
97	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. *Source:* **TRI_FACILITY.EPA_**REGISTRY_ID
98	POTW TRANSFERS - TOTAL	N	Total quantity of the chemical contained in wastewater transferred off site to a Publicly Owned Treatment Works (POTW). *Source:* **TRI_TRANSFER_QTY.**TRANSFER_TOTAL + **TRI_TRANSFER_QTY.**TRANSFER_ RANGE_CODE *Reference:* Part II, Section 6.1.A.1
99	POTW TRANSFERS – TOTAL - BASIS OF ESTIMATE	C	A code indicating the principal method by which the total POTW transfer estimate was calculated. See Appendix D for codes and corresponding methods. *Source:* **TRI_TRANSFER_QTY.**TRANSFER_BASIS_ EST_CODE *Reference:* Part II, Section 6.1.A.2
100	POTW RELEASES – 8.1C	N	The total quantity of the chemical transferred to POTWs that is ultimately disposed of or released to Class I Underground Injection Wells, RCRA C Landfills, and/or Other (Non-RCRA C) Landfills. This amount is one of the quantities added into Section 8.1C: "Total Off-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills and other Landfills." *Source:* **TRI_FORM_TOTALS**.POTW_RELEASE_81C *Reference:* Part II, Section 6.1

101	POTW RELEASES – 8.1D	N	The total quantity of the chemical transferred to POTWs that is ultimately disposed of or released to media other than Class I Underground Injection Wells, RCRA C Landfills and/or Other (Non-RCRA C) Landfills. This amount is one of the quantities added into Section 8.1D: "Total Other Off-site Disposal or Other Releases." *Source:* **TRI_FORM_TOTALS**.POTW_RELEASE_81D *Reference:* Part II, Section 6.1
102	POTW TRANSFERS – RELEASE	N	Total quantity of the transfer that was released at the POTW. This is the sum of POTW RELEASES – 8.1C (#97) + POTW RELEASES – 8.1D (#98). *Source:* **TRI_FORM_TOTALS**.POTW_RELEASE *Reference:* Part II, Section 6.1.A.1
103	POTW TRANSFERS – TREATED	N	Total quantity of the transfer that was treated at the POTW. *Source:* **TRI_FORM_TOTALS**.POTW_TREATED *Reference:* Part II, Section 6.1.A.1
104	POTW A – NAME	C	Name of the first Publicly Owned Treatment Works (POTW) to which the wastewater containing the chemical was sent. *Source:* **TRI_POTW_LOCATION.**POTW_NAME *Reference:* Part II, Section 6.1.B.1
105	POTW A - ADDRESS	C	Street address of the first POTW to which the wastewater containing the chemical was sent. *Source:* **TRI_POTW_LOCATION.**POTW_STREET *Reference:* Part II, Section 6.1.B.1
106	POTW A - CITY	C	Name of the city in which the first POTW is located. *Source:* **TRI_POTW_LOCATION.**CITY_NAME *Reference:* Part II, Section 6.1.B.1
107	POTW A - STATE	C	Two-letter abbreviation of the state in which the first POTW is located. *Source:* **TRI_POTW_LOCATION.**STATE_ABBR *Reference:* Part II, Section 6.1.B.1
108	POTW A – COUNTY	C	Name of the county in which the first POTW is located. *Source:* **TRI_POTW_LOCATION.**COUNTY_NAME *Reference:* Part II, Section 6.1.B.1
109	POTW A - ZIP	C	ZIP code used in the address of the first POTW. *Source:* **TRI_POTW_LOCATION.**ZIP_CODE *Reference:* Part II, Section 6.1.B.1
110	POTW B - NAME	C	Name of the second POTW to which the wastewater containing the chemical was sent. *Source:* **TRI_POTW_LOCATION.**POTW_NAME *Reference:* Part II, Section 6.1.B.2
111	POTW B - ADDRESS	C	Street address of the POTW to which the wastewater containing the chemical was sent. *Source:* **TRI_POTW_LOCATION.**POTW_STREET *Reference:* Part II, Section 6.1.B.2
112	POTW B - CITY	C	Name of the city in which the second POTW is located. *Source:* **TRI_POTW_LOCATION.**CITY_NAME *Reference:* Part II, Section 6.1.B.2

113	POTW B - STATE	C	Two-letter abbreviation of the state in which the second POTW is located. *Source:* **TRI_POTW_LOCATION.**STATE_ABBR *Reference:* Part II, Section 6.1.B.2
114	POTW B – COUNTY	C	Name of the county in which the second POTW is located. *Source:* **TRI_POTW_LOCATION.**COUNTY_NAME *Reference:* Part II, Section 6.1.B.2
115	POTW B – ZIP	C	ZIP code used in the address of the second POTW. *Source:* **TRI_POTW_LOCATION.**ZIP_CODE *Reference:* Part II, Section 6.1.B.1
116	POTW C - NAME	C	Name of the third POTW to which the wastewater containing the chemical was sent. *Source:* **TRI_POTW_LOCATION.**POTW_NAME *Reference:* Part II, Section 6.1.C.2
117	POTW C - ADDRESS	C	Street address of the third POTW to which the wastewater containing the chemical was sent. *Source:* **TRI_POTW_LOCATION.**POTW_STREET *Reference:* Part II, Section 6.1.C.2
118	POTW C - CITY	C	Name of the city in which the third POTW is located. *Source:* **TRI_POTW_LOCATION.**CITY_NAME *Reference:* Part II, Section 6.1.C.2
119	POTW C - STATE	C	The two-letter abbreviation of the state in which the third POTW is located. *Source:* **TRI_POTW_LOCATION.**STATE_ABBR *Reference:* Part II, Section 6.1.C.2
120	POTW C – COUNTY	C	Name of the county in which the third POTW is located. *Source:* **TRI_POTW_LOCATION.**COUNTY_NAME *Reference:* Part II, Section 6.1.C.2
121	POTW C – ZIP	C	ZIP code used in the address of the third POTW. *Source:* **TRI_POTW_LOCATION.**ZIP_CODE *Reference:* Part II, Section 6.1.C.1
122	POTW D - NAME	C	Name of the fourth POTW to which the wastewater containing the chemical was sent. *Source:* **TRI_POTW_LOCATION.**POTW_NAME *Reference:* Part II, Section 6.1.D.2
123	POTW D - ADDRESS	C	Street address of the fourth POTW to which the wastewater containing the chemical was sent. *Source:* **TRI_POTW_LOCATION.**POTW_STREET *Reference:* Part II, Section 6.1.D.2
124	POTW D - CITY	C	Name of the city in which the fourth POTW is located. *Source:* **TRI_POTW_LOCATION.**CITY_NAME *Reference:* Part II, Section 6.1.D.2
125	POTW D - STATE	C	The two-letter abbreviation of the state in which the fourth POTW is located. *Source:* **TRI_POTW_LOCATION.**STATE_ABBR *Reference:* Part II, Section 6.1.D.2

126	POTW D – COUNTY	C	Name of the county in which the fourth POTW is located. *Source:* **TRI_POTW_LOCATION.**COUNTY_NAME *Reference:* Part II, Section 6.1.D.2
127	POTW D – ZIP	C	ZIP code used in the address of the fourth POTW. *Source:* **TRI_POTW_LOCATION.**ZIP_CODE *Reference:* Part II, Section 6.1.D.1
128	TOTAL POTW LOCATIONS	N	Total number of POTW locations listed on the reporting form. *Source:* **TRI_POTW_LOCATION.**POTW_LOC_NUM *Reference:* Part II, Section 6.1
129	ADDITIONAL POTWS NOT SHOWN	N	The number of POTW locations not shown. This file (3B) provides a record layout that displays up to four POTW locations (POTW A, B, C, and D). See "Appendix E: Accessing All POTW Locations" for instructions for getting information about all locations. *Note: Of the 2 million Form R submissions received by EPA for RY 1987 to 2010, only 75 have more than four POTWs listed as offsite transfer locations.*

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

Appendix B: Chemical Classifications

TRI Chemicals Classified as Hazardous Air Pollutants Under the Clean Air Act:

- https://www.epa.gov/epcra/consolidated-list-lists-under-epcracerclacaa-ss112r-april-2022-version

TRI Chemicals Classified as OSHA Carcinogens:

- www.epa.gov/sites/default/files/2019-11/documents/osha_carcinogen_basis_november_2019_update.pdf

TRI Chemicals Classified as Metals:

- https://ordspub.epa.gov/ords/guideme_ext/f?p=guideme:chemical-list-advanced-search:0

TRI Chemicals Classified as per- and polyfluoroalkyl substances (PFAS):

- www.epa.gov/toxics-release-inventory-tri-program/list-pfas-added-tri-ndaa

TRI Chemicals Classified as Persistent Bioaccumulative Toxic Chemicals (PBTs):

- www.epa.gov/toxics-release-inventory-tri-program/persistent-bioaccumulative-toxic-pbt-chemicals-covered-tri

Appendix C: Dioxin and Dioxin-like Compound Data

In reporting year (RY) 2000, the TRI 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 release types (air, water, and land). The 17 fields labeled “dioxin distribution” in each of the Basic Plus files 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 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-triprogram/tri-dioxin-and-dioxin-compounds-and-teq-data-files-calendar.

Appendix D: POTW Basis of Estimate Codes and Methods

C = mass balance calculations
E = published emission factors
E1 = published emission factors
E2 = on site-specific emission factors
M = monitoring data
M1 = continuous monitoring data
M2 = periodic/random monitoring data
NA = not applicable
O = other
X = invalid data

Appendix E – Accessing All POTW Locations

Not all the POTW locations reported are included in this file. The record layout for File Type 3B holds up to four POTW locations. Of the approximately 2.1 million TRI submissions submitted in RY 1987 to 2010 (the years covered by this file), roughly 75 submissions had more than four POTWs reported on them; facilities could report a maximum of 21 POTW locations during these years.

The final field in the File 3B record layout, "Additional POTWs not Shown," indicates the number of POTWs reported on the form but not displayed in the data file. To see all the POTW locations reported on the form, use the "POTW Transfer Locations" report in the TRI EZ Search section of EPA's Envirofacts at:

https://iaspub.epa.gov/enviro/ez_column_v2.list?database_type=TRI&table_name=V_TRI_TRANS_POTW_LOC_EZ

Instructions:

1. Go to the "POTW Transfers Locations" report in "EZ Search" in the TRI Section of Envirofacts at: https://iaspub.epa.gov/enviro/ez_column_v2.list?database_type=TRI&table_name=V_TRI_TRANS_POTW_LOC_EZ
2. Click the "check box" in front of any of the columns you'd like to display in the final report. Include the field "Document_Control_Number" (field #2 from this file).
3. Scroll to the bottom of the page and click the button "Step 3: Enter Search Criteria"
4. The "Step 3: Enter Search Criteria and Organize Output" page appears.
5. Copy DOCUMENT_CONTROL_NUMBER from File 3B that you want to see all the POTW Locations for into the search box for "Document_Control_Number" and/or put in any other search criteria needed.
6. Scroll to the bottom of the page and click the "Search Database" button.
7. The results will appear on the next page, listing all POTW locations.