TOXICS RELEASE INVENTORY (TRI)

BASIC PLUS DATA FILES DOCUMENTATION

FILE TYPE 1A: FACILITY, CHEMICAL, RELEASES AND OTHER WASTE MANAGEMENT SUMMARY INFORMATION

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 1 CONTENTS

The “Type 1A” file contains the bulk of the data found on the TRI Reporting Form R, as shown in the table below. Each record in File Type 1A represents data from a single chemical reporting form (i.e., Form R) submitted by a facility. Thus, the complete file contains records for all chemicals that were reported to TRI from a specific state and reporting year.

All Type 1A files contain data from the following parts and sections of the Form R:

Form R Part	Form R Section	Description
I	1	Reporting year
I	1	Revision codes
I	2	Trade secret data
I	3	Form certification data
I	4	Facility identification information
I	5	Parent company information
II	1	Chemical identification data
II	4	Maximum quantity of the chemical on site at any one time
II	5	On-site release data: amounts released and receiving water bodies
II	6.1.A	Total quantity transferred to Publicly Owned Treatment Works (POTWs)
II	6.2ABC	Off-site transfer data including quantities, estimate basis, and type of disposal or treatment
II	7B	On-site energy recovery processes
II	7C	On-site recycling processes
II	8.2.B, 8.4.B, 8.6.B	Amounts recovered, recycled, and treated on site for the current year

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 1A 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 columns and 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 B: Chemical Classifications - 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 1 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	REPORTING YEAR	C	Calendar year in which the reported activities occurred. *Source:* **TRI_REPORTING_FORM**.REPORTING_YEAR *Reference:* Part I, Section 1
3	TRADE SECRET IND	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
4	SANITIZED IND	C	Indicates whether the reporting facility checked the 'sanitized trade secret' box on the reporting form. If yes, the form will use a generic "sanitized" chemical name. Yes = Checked (form information sanitized) No = Not checked *Source:* **TRI_REPORTING_FORM.**SANITIZED_IND *Reference*: Part I, Section 2.2
5	TITLE OF CERTIFYING OFFICIAL	C	Corporate title of the senior official certifying the accuracy and completeness of information on the TRI form submission. *Source:* **TRI_REPORTING_FORM**.CERTIF_OFFICIAL_TITLE *Reference:* Part I, Section 3
6	NAME OF CERTIFYING OFFICIAL	C	Name of the senior official certifying the accuracy and completeness of the information on the TRI form submission. *Source:* **TRI_REPORTING_FORM**.CERTIF_NAME *Reference:* Part I, Section 3
7	CERTIFYING OFFICIAL'S SIGNATURE IND	C	Indicates if and how the certifying official's signature is provided. Beginning with RY 2013, all TRI submissions (other than trade secrets) should have an electronic signature. Values: Original = ink signature on paper form Photocopy = photocopy of signature No Signature = no signature Electronic = electronic signature FDP Response = signed facility data profile Fax = signature on fax Stamp = stamped signature NA = not applicable- magnetic media submission *Source:* **TRI_REPORTING_FORM**.CERTIF_SIGNATURE *Reference:* Part I, Section 3

8	DATE SIGNED	D	The date of the certifying official's signature. The format is YY-MM-DD. *Source*: **TRI_REPORTING_FORM**.CERTIF_DATE_SIGNED *Reference:* Part I, Section 3
9	TRIFID	C	The unique TRI facility identification (TRIFID) number assigned to each facility for TRI reporting purposes *NOTE: The content of this field is <u>not</u> 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
10	FACILITY NAME	C	Name of the reporting facility. *Source:* **TRI_FACILITY**.FACILITY_NAME *Reference:* Part I, Section 4.1
11	FACILITY STREET	C	Street address of the reporting facility. *Source:* **TRI_FACILITY**.STREET_ADDRESS *Reference:* Part I, Section 4.1
12	FACILITY CITY	C	City in which the reporting facility is located. *Source:* **TRI_FACILITY**.CITY_NAME *Reference:* Part I, Section 4.1
13	FACILITY COUNTY	C	County in which the reporting facility is located. *Source:* **TRI_FACILITY**.COUNTY_NAME *Reference:* Part I, Section 4.1
14	FACILITY STATE	C	Two-letter state code of the reporting facility. *Source:* **TRI_FACILITY**.STATE_ABBR *Reference:* Part I, Section 4.1
15	FACILITY ZIP CODE	C	ZIP code of the reporting facility. *Source:* **TRI_FACILITY**.ZIP_CODE *Reference:* Part I, Section 4.1
16	BIA CODE	C	Three-letter Bureau of Indian Affairs (BIA) code indicating the tribal land on which the facility is located. *Source:* **TRI_FACILITY**.BIA_TRIBAL_CODE
17	TRIBE NAME	C	Name of the tribe on whose land the reporting facility is located. *Source:* **TRI_TRIBE_DESC**.TRIBE
18	MAILING NAME	C	The first and second lines of the mailing name for the facility. *Source:* **TRI_FACILITY**. MAIL_NAME
19	MAILING STREET	C	Street address of the reporting facility's mailing address. *Source:* **TRI_FACILITY**.MAIL_STREET_ADDRESS *Reference:* Part I, Section 4.1
20	MAILING CITY	C	City name of the facility's mailing address. *Source:* **TRI_FACILITY**.MAIL_CITY *Reference:* Part I, Section 4.1
21	MAILING STATE	C	Two-letter state abbreviation of the reporting facility's mailing address. *Source:* **TRI_FACILITY**.MAIL_STATE_ABBR *Reference:* Part I, Section 4.1
22	MAILING PROVINCE	C	Province of the reporting facility's mailing address. *Source:* **TRI_FACILITY**.MAIL_PROVINCE *Reference:* Part I, Section 4.1

23	MAILING ZIP CODE	C	ZIP code of the reporting facility's mailing address. *Source:* **TRI_FACILITY**.MAIL_ZIP_CODE *Reference:* Part I, Section 4.1
24	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
25	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
26	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
27	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
28	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.
29	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.
30	PUBLIC CONTACT NAME	C	Name of the designated individual whom the public may contact for clarification of the facility's reported data. *Source:* **TRI_REPORTING_FORM**.PUBLIC_CONTACT_PERSON *Reference:* Part I, Section 4.4
31	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
32	PUBLIC CONTACT PHONE EXT	C	Phone extension of the public contact. *Source:* **TRI_REPORTING_FORM**.PUBLIC_PHONE_EXT *Reference:* Part I, Section 4.4

33	PUBLIC CONTACT EMAIL	C	Email address of the designated individual whom the public may contact for clarification of the facility's reported data. *Source:* **TRI_REPORTING_FORM**.PUBLIC_CONTACT_PERSON_EMAIL *Reference:* Part I, Section 4.4
34	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
35	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
36	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
37	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
38	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
39	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
40	NAICS ORIGIN	C	Indicates whether North American Industry Classification System (NAICS) codes were reported or assigned. R = Reported A = Assigned *Source:* **TRI_SUBMISSION_NAICS**.SOURCE *Reference*: TRI system-generated

41	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 D: "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
42	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
43	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
44	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
45	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
46	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
47	LATITUDE	N	The latitude value that best represents the facility according to EPA's Facility Registry System (FRS). Format: 2-digit whole number followed by a decimal point and 6 digits (+nn.nnnnnn). *Note: In RY 2005, EPA stopped collecting the latitude value and began obtaining it from FRS. Source:* EPA's Facility Registry System

48	LONGITUDE	N	The longitude value that best represents the facility according to EPA's Facility Registry System (FRS). Format: 3digit whole number followed by 6 digits (+nnn.nnnnnn). *Note: In RY 2005, EPA stopped collecting the longitude value and began obtaining it from FRS. Source:* EPA's Facility Registry System
49	D&B NR A	C	Unique identification number assigned by Dun & 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
50	D&B NR B	C	Second identification number assigned by Dun & 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
51	RCRA NR A	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. Source:* EPA's Facility Registry System
52	RCRA NR B	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. Source:* EPA's Facility Registry System
53	RCRA NR C	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. Source:* EPA's Facility Registry System
54	RCRA NR D	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. Source:* EPA's Facility Registry System
55	RCRA NR E	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. Source:* EPA's Facility Registry System
56	RCRA NR F	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. Source:* EPA's Facility Registry System

57	RCRA NR G	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* EPA's Facility Registry System
58	RCRA NR H	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* EPA's Facility Registry System
59	RCRA NR I	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* EPA's Facility Registry System
60	RCRA NR J	C	Twelve-digit alphanumeric site identifier assigned by EPA to the reporting facility per the Resource Conservation and Recovery Act (RCRA). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* EPA's Facility Registry System
61	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
62	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
63	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
64	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

65	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
66	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
67	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
68	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
69	NPDES NR I	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* EPA's Facility Registry System
70	NPDES NR J	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). *Note: In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R.* *Source:* EPA's Facility Registry System
71	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
72	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
73	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

74	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
75	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
76	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.
77	FRS FACILITY ID	C	Unique identification number assigned by EPA's Facility Registry Service (FRS) to 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
78	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:* Assigned by EPA
79	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
80	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 non-compounds). 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

81	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
82	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
83	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
84	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 chemical PBT = Persistent Bioaccumulative and Toxic chemical DIOXIN = Dioxin or dioxin-like compound *Source:* **TRI_CHEM_INFO**.CLASSIFICATION *Reference:* NONE
85	UNIT OF MEASURE	C	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} *Source:* **TRI_CHEM_INFO**.UNIT_OF_MEASURE *Reference:* NONE
86	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 that are designated hazardous air pollutants under the CAA. *Source:* **TRI_CHEM_INFO.**CAAC_IND

87	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
88	PFAS_IND	C	Flag indicating whether the chemical is a per- and polyfluoroalkyl substance (PFAS) or not. Yes = PFAS No = non-PFAS See "Appendix B: Chemical Classifications – PFAS" for a list of PFAS on the TRI chemical list. *Source:* **TRI_CHEM_INFO.**PFAS_IND
89	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
90	REVISION CODE 1	C	If the facility revises its original TRI reporting form for a chemical, the facility indicates the reason using revision codes. This is an 'RR' followed by a single digit. This data element was collected beginning in RY 2007. Values: RR1 = New Monitoring Data RR2 = New Emission Factors RR3 = New Chemical Concentration Data RR4 = Recalculation(s) RR5 = Other Reason(s) *Source:* **REPORTING_FORM**.Revision_Code
91	REVISION CODE 2	C	If the facility revises its original TRI reporting form for a chemical, the facility indicates the reason using revision codes. This is an 'RR' followed by a single digit. This data element was collected beginning in RY 2007. 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_
92	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_1 *Reference:* Part II, Section 1.4

93	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_2 *Reference:* Part II, Section 1.4
94	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_3 *Reference:* Part II, Section 1.4
95	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_4 *Reference:* Part II, Section 1.4
96	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_5 *Reference:* Part II, Section 1.4
97	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_6 *Reference:* Part II, Section 1.4

98	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_7 *Reference:* Part II, Section 1.4
99	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_8 *Reference:* Part II, Section 1.4
100	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_9 *Reference:* Part II, Section 1.4
101	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_10 *Reference:* Part II, Section 1.4
102	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_11 *Reference:* Part II, Section 1.4

103	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_12 *Reference:* Part II, Section 1.4
104	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_13 *Reference:* Part II, Section 1.4
105	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_14 *Reference:* Part II, Section 1.4
106	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_15 *Reference:* Part II, Section 1.4
107	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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_16 *Reference:* Part II, Section 1.4

108	DIOXIN DISTRIBUTION 17	N	Indicates the percentage of 2,3,7,8 Tetrachlorodibenzop-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: "Dioxin and Dioxin-like Compound Data" for more information. *Note: This data element was collected from RY 2000 through 2007.* *Source:* **TRI_REPORTING_FORM**.DIOXIN_DISTRIBUTION_17 *Reference:* Part II, Section 1.4
109	MAXIMUM AMOUNT ON SITE	C	The 2-digit code indicating a range for the maximum amount of the chemical present at the facility at any one time during the calendar year (January 1-December 31) for which the reporting form was submitted. See Appendix E: "Maximum Amount On-site Codes" for more information. *Source:* **TRI_REPORTING_FORM**.MAX_AMOUNT_OF_CHEM *Reference:* Part II, Section 4.1
110	FUGITIVE AIR EMISSIONS – TOTAL RELEASE POUNDS	N	An estimate of the total quantity of the toxic chemical released as fugitive air emissions at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR FUG' *Reference:* Part II, Section 5.1.A
111	FUGITIVE AIR EMISSIONS – TOTAL RELEASE RANGE CODE	C	The range code corresponding to the total annual fugitive air emissions (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR FUG' *Reference:* Part II, Section 5.1.A
112	TOTAL FUGITIVE AIR EMISSIONS	N	Total quantity of fugitive air emissions. Total is based on quantity reported for FUGITIVE AIR EMISSIONS – TOTAL RELEASE POUNDS (#107) or midpoint of the range reported for FUGITIVE AIR EMISSIONS – TOTAL RELEASE RANGE CODE (#108). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR FUG' *Reference:* TRI system-generated
113	FUGITIVE AIR EMISSIONS - BASIS OF ESTIMATE	C	The principal method used to estimate the total fugitive air emissions. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR FUG' *Reference:* Part II, Section 5.1.B

114	STACK AIR EMISSIONS – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released as stack (point source) air emissions at the facility. Range codes may be used for releases between one and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR STACK' *Reference:* Part II, Section 5.2.A
115	STACK AIR EMISSIONS – RELEASE RANGE CODE	C	The range code corresponding to the total annual stack air emissions (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR STACK' *Reference:* Part II, Section 5.2.A
116	TOTAL STACK AIR EMISSIONS	N	Total quantity of stack air emissions. Total is based on quantity reported for STACK AIR EMISSIONS – RELEASE POUNDS (#111) or midpoint of the range code reported for STACK AIR EMISSIONS – RELEASE RANGE CODE (#112). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR STACK' *Reference:* TRI system-generated
117	STACK AIR EMISSIONS - BASIS OF ESTIMATE	C	The principal method used to estimate the total stack air emissions. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR STACK' *Reference:* Part II, Section 5.2.B
118	TOTAL AIR EMISSIONS	N	Total quantity of reported air emissions. Total is calculated as the sum of TOTAL FUGITIVE AIR EMISSIONS (#109) and TOTAL STACK AIR EMISSIONS (#113). *Source:* **TRI_FORM_TOTALS**.TOTAL_AIR_RELEASE *Reference:* TRI system-generated
119	DISCHARGES TO STREAM A - STREAM NAME	C	Name of receiving stream or waterbody as it appears on the facility's NPDES permit or other appropriate documentation, if applicable. *Source:* **TRI_WATER_STREAM**.STREAM_NAME *Reference:* Part II, Section 5.3.1
120	DISCHARGES TO STREAM A - RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into Stream A from the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.1.A

121	DISCHARGES TO STREAM A - RELEASE RANGE CODE	C	The range code corresponding to the total annual discharges into Stream A (between 1 and 1,000 pounds) from the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**. RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.1.A
122	TOTAL DISCHARGES TO STREAM A	N	Total quantity of surface water discharges into Stream A. Total is based on quantity reported for DISCHARGES STREAM A – RELEASE POUNDS (#117) or midpoint of the range code reported for DISCHARGES TO STREAM A – RELEASE RANGE CODE (#118). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* TRI system-generated
123	DISCHARGES TO STREAM A – BASIS OF ESTIMATE	C	The principal method used to calculate the total surface water discharges into Stream A. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**. RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.1.B
124	DISCHARGES TO STREAM A - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to Stream A that is contributed by stormwater runoff. The value is 0 through 100. *Source:* **TRI_WATER_STREAM**.STORM_WATER_PERCENT *Reference:* Part II, Section 5.3.1.C
125	DISCHARGES TO STREAM B – STREAM NAME	C	Name of receiving stream or waterbody as it appears on the facility's NPDES permit or other appropriate documentation, if applicable. *Source:* **TRI_WATER_STREAM**.STREAM_NAME *Reference:* Part II, Section 5.3.2
126	DISCHARGES TO STREAM B – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into Stream B from the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.2.A
127	DISCHARGES TO STREAM B - RELEASE RANGE CODE	C	The range code corresponding to the total annual discharges into Stream B (between 1 and 1,000 pounds) from the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.2.A

128	TOTAL DISCHARGES TO STREAM B	N	Total quantity of surface water discharges into Stream B. Total is based on quantity reported for DISCHARGE STREAM B – RELEASE POUNDS (#123) or midpoint of the range code reported for DISCHARGES TO STREAM B – RELEASE RANGE CODE (#124). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* TRI system-generated
129	DISCHARGES TO STREAM B – BASIS OF ESTIMATE	C	The principal method used to calculate total surface water discharges into Stream B. Reported using one of six codes. See Appendix: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.2.B
130	DISCHARGES TO STREAM B – % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to Stream B that is contributed by stormwater runoff. The value is 0 through 100. *Source:* **TRI_WATER_STREAM**.STORM_WATER_PERCENT *Reference:* Part II, Section 5.3.2.C
131	DISCHARGES TO STREAM C – STREAM NAME	C	Name of receiving stream or waterbody as it appears on the facility's NPDES permit or other appropriate documentation, if applicable. *Source:* **TRI_WATER_STREAM**.STREAM_NAME *Reference:* Part II, Section 5.3.3
132	DISCHARGES TO STREAM C – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into Stream C from the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.3.A
133	DISCHARGES TO STREAM C – RELEASE RANGE CODE	C	The range code corresponding to total annual discharges into Stream C (between 1 and 1,000 pounds) from the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.3.A
134	TOTAL DISCHARGES TO STREAM C	N	Total quantity of surface water discharges into Stream C. Total is based on quantity reported for DISCHARGES STREAM C – RELEASE POUNDS (#129) or midpoint of the range code reported for DISCHARGES TO STREAM C – RELEASE RANGE CODE (#130). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* TRI System-generated

135	DISCHARGES TO STREAM C – BASIS OF ESTIMATE	C	The principal method used to calculate total surface water discharges into Stream C. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Reference:* Part II, Section 5.3.3.B
136	DISCHARGES TO STREAM C - % FROM STORMWATER	N	Percentage of the total quantity (by weight) of the chemical released to Stream C that is contributed by storm water runoff. The value is 0 through 100. *Source:* **TRI_WATER_STREAM**.STORM_WATER_PERCENT *Reference:* Part II, Section 5.3.3.C
137	DISCHARGES TO STREAM D – STREAM NAME	C	Name of receiving stream or waterbody as it appears on the facility's NPDES permit or other appropriate documentation, if applicable. *Source:* **TRI_WATER**_STREAM.STREAM_NAME *Reference:* Part II, Section 5.3
138	DISCHARGES TO STREAM D – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into Stream D from the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
139	DISCHARGES TO STREAM D – RELEASE RANGE CODE	C	The range code corresponding to total annual discharges into Stream D (between 1 and 1,000 pounds) from the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
140	TOTAL DISCHARGES TO STREAM D	N	Total quantity of total surface water discharges into Stream D. Total is based on quantity reported for DISCHARGES STREAM D – RELEASE POUNDS (#135) or midpoint of the range code reported for DISCHARGES TO STREAM D – RELEASE RANGE CODE (#136). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* TRI system-generated
141	DISCHARGES TO STREAM D – BASIS OF ESTIMATE	C	The principal method used to calculate total surface water discharges into Stream D. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3

142	DISCHARGES TO STREAM D - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to Stream D that is contributed by storm runoff. The value is 0 through 100. *Source:* **TRI_WATER_STREAM**.STORM_WATER_PERCENT *Reference:* Part II, Section 5.3
143	DISCHARGES TO STREAM E – STREAM NAME	C	Name of receiving stream or waterbody as it appears on the facility's NPDES permit or other appropriate documentation, if applicable. *Source:* **TRI_WATER_STREAM**.STREAM_NAME *Reference:* Part II, Section 5.3
144	DISCHARGES TO STREAM E – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into Stream E from the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
145	DISCHARGES TO STREAM E – RELEASE RANGE CODE	C	The range code corresponding to total annual discharges into Stream E (between 1 and 1,000 pounds) from the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.`RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
146	TOTAL DISCHARGES TO STREAM E	N	Total quantity of total surface water discharges into Stream E. Total is based on quantity reported for DISCHARGES STREAM E – RELEASE POUNDS (#141 or midpoint of the range code reported for DISCHARGES TO STREAM E – RELEASE RANGE CODE (#142). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* TRI System-generated
147	DISCHARGES TO STREAM E – BASIS OF ESTIMATE	C	The principal method used to calculate total surface water discharges into Stream E. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
148	DISCHARGES TO STREAM E - % FROM STORMWATER	N	Percentage of the total quantity (by weight) of the chemical released to Stream E that is contributed by storm water runoff. The value is 0 through 100. *Source:* **TRI_WATER_STREAM**.STORM_WATER_PERCENT *Reference:* Part II, Section 5.3

149	DISCHARGES TO STREAM F – STREAM NAME	C	Name of receiving stream or waterbody as it appears on the facility's NPDES permit or other appropriate documentation, if applicable. *Source:* **TRI_WATER_STREAM**.STREAM_NAME *Reference:* Part II, Section 5.3
150	DISCHARGES TO STREAM F – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into Stream F from the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
151	DISCHARGES TO STREAM F – RELEASE RANGE CODE	C	The range code corresponding to total annual discharges into Stream F (between 1 and 1,000 pounds) from the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
152	TOTAL DISCHARGES TO STREAM F	N	Total quantity of surface water discharges into Stream F. Total is based on quantity reported for DISCHARGES STREAM F – RELEASE POUNDS (#147) or midpoint of the range code reported for DISCHARGES TO STREAM D – RELEASE RANGE CODE (#148). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* TRI system-generated
153	DISCHARGES TO STREAM F – BASIS FOR ESTIMATE	C	The principal method used to calculate total surface water discharges into Stream F. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
154	DISCHARGES TO STREAM F - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to Stream F that is contributed by storm water runoff. The value is 0 through 100. *Source:* **TRI_WATER_STREAM**.STORM_WATER_PERCENT *Reference:* Part II, Section 5.3
155	DISCHARGES TO STREAM G – STREAM NAME	C	Name of receiving stream or waterbody as it appears on the facility's NPDES permit or other appropriate documentation, if applicable. *Source:* **TRI_WATER_STREAM**.STREAM_NAME *Reference:* Part II, Section 5.3

156	DISCHARGES TO STREAM G – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into Stream G from the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
157	DISCHARGES TO STREAM G – RELEASE RANGE CODE	C	The range code corresponding to total annual discharges into Stream G (between 1 and 1,000 pounds) from the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
158	TOTAL DISCHARGES TO STREAM G	N	Total quantity of surface water discharges into Stream G. Total is based on quantity reported for DISCHARGES STREAM G – RELEASE POUNDS (#153) or midpoint of the range code reported for DISCHARGES TO STREAM G – RELEASE RANGE CODE (#154). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* TRI system generated
159	DISCHARGES TO STREAM G – BASIS FOR ESTIMATE	C	The principal method used to calculate total surface water discharges into Stream G. Reported using one of six codes. See Appendix: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.
160	DISCHARGES TO STREAM G - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to Stream G that is contributed by storm water runoff. The value is 0 through 100. *Source:* **TRI_WATER_STREAM**.STORM_WATER_PERCENT *Reference:* Part II, Section 5.3
161	DISCHARGES TO STREAM H – STREAM NAME	C	Name of receiving stream or waterbody as it appears on the facility's NPDES permit or other appropriate documentation, if applicable. *Source:* **TRI_WATER_STREAM**.STREAM_NAME *Reference:* Part II, Section 5.3
162	DISCHARGES TO STREAM H – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into Stream H from the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3

163	DISCHARGES TO STREAM H – RELEASE RANGE CODE	C	The range code corresponding to total annual discharges into Stream H (between 1 and 1,000 pounds) from the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
164	TOTAL DISCHARGES TO STREAM H	N	Total quantity of surface water discharges into Stream H. Total is based on quantity reported for DISCHARGES STREAM H – RELEASE POUNDS (#159) or midpoint of the range code reported for DISCHARGES TO STREAM D – RELEASE RANGE CODE (#160). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* TRI System-generated
165	DISCHARGES TO STREAM H – BASIS FOR ESTIMATE	C	The principal method used to calculate total surface water discharges into Stream H. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
166	DISCHARGES TO STREAM H - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to Stream H that is contributed by storm water runoff. The value is 0 through 100. *Source:* **TRI_WATER_STREAM**.STORM_WATER_PERCENT *Reference:* Part II, Section 5.3
167	DISCHARGES TO STREAM I – STREAM NAME	C	Name of receiving stream or waterbody as it appears on the facility's NPDES permit or other appropriate documentation, if applicable. *Source:* **TRI_WATER_STREAM**.STREAM_NAME *Reference:* Part II, Section 5.3
168	DISCHARGES TO STREAM I – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into Stream I from the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
169	DISCHARGES TO STREAM I – RELEASE RANGE CODE	C	The range code corresponding to total annual discharges into Stream I (between 1 and 1,000 pounds) from the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3

170	TOTAL DISCHARGES TO STREAM I	N	Total quantity of surface water discharges into Stream I. Total is based on quantity reported for DISCHARGES STREAM I – RELEASE POUNDS (#165) or midpoint of the range code reported for DISCHARGES TO STREAM I – RELEASE RANGE CODE (#166). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* TRI system-generated
171	DISCHARGES TO STREAM I – BASIS FOR ESTIMATE	C	The principal method used to calculate total surface water discharges into Stream I. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
172	DISCHARGES TO STREAM I - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to Stream I that is contributed by storm water runoff. The value is 0 through 100. *Source:* **TRI_WATER_STREAM**.STORM_WATER_PERCENT *Reference:* Part II, Section 5.3
173	TOTAL NUMBER OF RECEIVING STREAMS	N	The total number of streams reported by the facility as receiving toxic chemical releases. *Source:* **TRI_FORM_TOTALS**.NUMBER_OF_STREAMS *Reference:* TRI system generated
174	TOTAL SURFACE WATER DISCHARGE	N	Total of all stream surface water discharge quantities, corresponding to fields #119, 125, 131, 137, 143, 149, 155, 161, and 167. *Source:* **TRI_FORM_TOTALS**.TOTAL_WATER_RELEASE *Reference:* TRI system-generated
175	UGRND INJ – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released to underground injection wells at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Note: This data element was reported from RY 1987 to 1995. For RY 1996, it was replaced by "ON-SITE UGRND INJ TO CL I WELLS" and "ON-SITE UGRND INJ TO CL II-V WELLS."* *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ9795' *Reference:* Part II, Section 5.4.1
176	UGRND INJ – RELEASE RANGE CODE	C	The range code corresponding to total annual underground injection releases (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ9795' *Reference:* Part II, Section 5.4.1

177	TOTAL UGRND INJ – POUNDS	C	Total quantity of releases to underground injection wells. Total is based on quantity reported for ON-SITE UGRND INJ – RELEASE POUNDS (#172) or midpoint of the range code reported for ON-SITE UGRND INJ – RELEASE RANGE CODE (#173). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ9795' *Reference:* TRI system-generated
178	UGRND INJ – BASIS OF ESTIMATE	C	The principal method used to calculate the total quantity of underground injection. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ9795' *Reference:* Part II, Section 5.4.1
179	UGRND INJ TO CL I WELLS – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released to underground injection Class I wells at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ I' *Reference:* Part II, Section 5.4.1A
180	UGRND INJ TO CL I WELLS - RELEASE RANGE CODE	C	The range code corresponding to total annual underground injection to Class I wells (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ I' *Reference:* Part II, Section 5.4.1A
181	TOTAL UGRND INJ TO CL I WELLS – POUNDS	N	Total quantity of releases to on-site underground Class I wells. Total is based on quantity reported for ON-SITE UGRND INJ TO CL I WELLS – RELEASE POUNDS (#176) or midpoint of the range code reported for ON-SITE UGRND INJ TO CL I WELLS – RELEASE RANGE CODE (#177). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ I' *Reference:* TRI System-generated
182	ON-SITE UGRND INJ TO CL I WELLS - BASIS OF ESTIMATE	C	The principal method used to calculate the total quantity of underground injection to Class I wells. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ I' *Reference:* Part II, Section 5.4.1B

183	ON-SITE UGRND INJ TO CL II-V WELLS - RELEASE POUNDS	N	An estimate of the total quantity of the chemical released to Class II-IV underground injection wells at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ IIV' *Reference:* Part II, Section 5.4.2.A
184	ON-SITE UGRND INJ TO CL II-V WELLS - RELEASE RANGE CODE	C	The range code corresponding to total annual underground injection to Class II-V wells (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ IIV *Reference:* Part II, Section 5.4.2A
185	TOTAL ON-SITE UGRND INJ TO CL II-V WELLS – POUNDS	N	Total quantity of releases to Class II-V underground injection wells. Total is based on quantity reported for ON-SITE UGRND INJ TO CL II-V WELLS – RELEASE POUNDS (#180) or midpoint of the range code reported for ON-SITE UGRND INJ TO CL II-V WELLS – RELEASE RANGE CODE (#181). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ IIV *Reference:* TRI system-generated
186	ON-SITE UNGRND INJ TO CL II-V WELLS - BASIS OF ESTIMATE	C	The principal method used to calculate the quantity of total underground injection to Class II-V wells. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ IIV' *Reference:* Part II, Section 5.4.2B
187	TOTAL ON-SITE UNDERGROUND INJECTION	N	Total quantity of releases to Class I and Class II-V underground injection wells. Sum of rows #174, #178, #182. *Source:* System-generated *Reference:* TRI system-generated
188	ON-SITE LANDFILLS – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released to landfills at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Note: This data element was reported from RY 1987 through 1995. In RY 1996, it was replaced by "ON-SITE RCRA SUBTITLE C LANDFILLS" and "OTHER LANDFILLS".* *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'LANDF8795' *Reference:* Part II, Section 5.5.1.A

189	ON-SITE LANDFILLS – RELEASE RANGE CODE	C	The range code corresponding to total annual releases to landfills (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'LANDF8795' *Reference:* Part II, Section 5.5.1.A
190	TOTAL ON-SITE LANDFILLS	N	Total quantity of releases to landfills. Total is based on quantity reported for ON-SITE LANDFILLS– RELEASE POUNDS (#185) or midpoint of the range code reported for ON- SITE LANDFILLS - RELEASE RANGE CODE (#186). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'LANDF8795' *Reference:* TRI system-generated
191	ON-SITE LANDFILLS - BASIS OF ESTIMATE	C	The principal method used to calculate the quantity of total releases to landfills. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'LANDF8795' *Reference:* Part II, Section 5.5.1.B
192	ON-SITE RCRA SUBTITLE C LANDFILLS - RELEASE POUNDS	N	An estimate of the total quantity of the chemical released to RCRA Subtitle C landfills at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'RCRA C' *Reference:* Part II, Section 5.5.1A.A
193	ON-SITE RCRA SUBTITLE C LANDFILLS - RELEASE RANGE CODE	C	The range code corresponding to total annual releases to RCRA Subtitle C landfills (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'RCRA C' *Reference:* Part II, Section 5.5.1A.A
194	TOTAL ON-SITE RCRA SUBTITLE C LANDFILLS -POUNDS	N	Total quantity of releases to RCRA Subtitle C landfills. Total is based on quantity reported for ON-SITE RCRA SUBTITLE C LANDFILLS– RELEASE POUNDS (#189) or midpoint of the range code reported for ON-SITE RCRA SUBTITLE C LANDFILLS - RELEASE RANGE CODE (#190). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or TRI_RELEASE_QTY.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'RCRA C' *Reference:* TRI System-generated

195	ON-SITE RCRA SUBTITLE C LANDFILLS - BASIS OF ESTIMATE	C	The principal method used to calculate the quantity of total releases to RCRA Subtitle C landfills. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'RCRA C' *Reference:* Part II, Section 5.5.1A.B
196	OTHER LANDFILLS - RELEASE POUNDS	N	An estimate of the total quantity of the chemical released to other (non-RCRA Subtitle C) landfills at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'OTH LANDF' *Reference:* Part II, Section 5.5.1B.A
197	OTHER LANDFILLS - RELEASE RANGE CODE	C	The range code corresponding to total annual releases to other landfills (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'OTH LANDF' *Reference:* Part II, Section 5.5.1B.A
198	TOTAL OTHER ON-SITE LANDFILLS	N	Total quantity of releases to other (non-RCRA Subtitle C) landfills. Total is based on quantity reported for OTHER LANDFILLS – RELEASE POUNDS (#193) or midpoint of the range code reported for OTHER LANDFILLS – RELEASE RANGE CODE (#194). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where: ENVIRONMENTAL_MEDIUM = 'OTH LANDF'* *Reference:* TRI system-generated
199	OTHER LANDFILLS - BASIS OF ESTIMATE	C	The principal method used to calculate the quantity of total releases to other landfills. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'OTH LANDF' *Reference:* Part II, Section 5.5.1B.B
200	LAND TRTMT/APPL FARMING - RELEASE POUNDS	N	An estimate of the quantity of the chemical disposed of through land treatment/application farming at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'LAND TREA' *Reference:* Part II, Section 5.5.2.A

201	LAND TRTMT/APPL FARMING - RELEASE RANGE CODE	C	The range code corresponding to total annual releases to land treatment/application farming (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'LAND TREA' *Reference:* Part II, Section 5.5.2.A
202	TOTAL ON-SITE LAND TREATMENT	N	Total quantity of releases to land treatment/application farming. Total is based on quantity reported for LAND TRTMT/APPL FARMING – RELEASE POUNDS (#197) or midpoint of the range code reported for LAND TRTMT/APPL FARMING – RELEASE RANGE CODE (#198). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'LAND TREA' *Reference:* TRI System-generated
203	LAND TRTMT/APPL FARMING - BASIS OF ESTIMATE	C	The principal method used to calculate the quantity of total releases to land treatment/application farming. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**. RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'LAND TREA' *Reference:* Part II, Section 5.5.2.B
204	SURFACE IMPOUNDMENT - RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into surface impoundments at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Note: this data element was reported from RY 1987 through 2002. In RY 2003, it was replaced by "RCRA C SURFACE IMPOUNDMENT" and "OTHER SURFACE IMPOUNDMENT,"* *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'SURF IMP' *Reference:* Part II, Section 5.5.3. col. A
205	SURFACE IMPOUNDMENT - RANGE CODE	C	The range code corresponding to total annual releases to surface impoundments (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'SURF IMP' *Reference:* Part II, Section 5.5.3. col. A

206	TOTAL SURFACE IMPOUNDMENTS	N	Total quantity of releases to surface impoundments. Total is based on quantity reported for SURFACE IMPOUNDMENT – RELEASE POUNDS (#201) or midpoint of the range code reported for SURFACE IMPOUNDMENT – RANGE CODE (#202). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'SURF IMP' *Reference:* TRI system-generated
207	SURFACE IMPOUNDMENT – BASIS OF ESTIMATE	C	The principal method used to calculate the quantity of total releases to surface impoundments. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'SURF IMP' *Reference:* Part II, Section 5.5.3. col. B
208	RCRA C SURFACE IMPOUNDMENT - RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into RCRA Subtitle C surface impoundments at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. This field was added in RY 2003. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'SI 5.5.3A' *Reference:* Part II, Section 5.5.3A col. A
209	RCRA C SURFACE IMPOUNDMENT - RANGE CODE	C	The range code corresponding to total annual releases to RCRA C surface impoundments (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'SI 5.5.3A' *Reference:* Part II, Section 5.5.3A col. A
210	TOTAL RCRA C SURFACE IMPOUNDMENTS	N	Total quantity of releases to RCRA Subtitle C surface impoundments. Total is based on quantity reported for RCRA SURFACE IMPOUNDMENT – RELEASE POUNDS (#205) or midpoint of the range code reported for RCRA C SURFACE IMPOUNDMENT – RANGE CODE (#206). This field was added in RY 2003. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'SI 5.5.3A' *Reference:* TRI System-generated
211	RCRA C SURFACE IMPOUNDMENT - BASIS OF ESTIMATE	C	The principal method used to calculate the total quantity of releases to RCRA Subtitle C surface impoundments. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'SI 5.5.3A' *Reference:* Part II, Section 5.5.3A col. B

212	OTHER SURFACE IMPOUNDMENT - RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into other (non-RCRA Subtitle C) surface impoundments at the facility. Range codes may be used for releases of less than 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. This field was added in RY 2003. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE (Value = 'SI_5.5.3B') *Where:* ENVIRONMENTAL_MEDIUM = 'SI 5.5.3B' *Reference:* Part II, Section 5.5.3B col. A
213	OTHER SURFACE IMPOUNDMENT - RANGE CODE	C	The range code corresponding to total annual releases to other surface impoundments (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'SI 5.5.3A' *Reference:* Part II, Section 5.5.3B col. A
214	TOTAL OTHER SURFACE IMPOUNDMENTS	N	Total quantity of releases to other (non- RCRA Subtitle C) surface impoundments. Total is based on quantity reported for OTHER SURFACE IMPOUNDMENT – RELEASE POUNDS (#209) or midpoint of the range code reported for OTHER SURFACE IMPOUNDMENT – RANGE CODE (#210). This field was added in RY 2003. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'SI 5.5.3A' *Reference:* TRI system-generated
215	OTHER SURFACE IMPOUNDMENT - BASIS OF ESTIMATE	C	The principal method used to calculate the total quantity of releases to other surface impoundments. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'SI 5.5.3A' *Reference:* Part II, Section 5.5.3B col. B
216	OTHER DISPOSAL – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released to other disposal units (other than landfills, land treatment, and surface impoundments) at the facility. Range codes may be used for releases between 1 and 1,000 pounds. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'OTH DISP' *Reference:* Part II, Section 5.5.4 col. a

217	OTHER DISPOSAL – RANGE CODE	N	The range code corresponding to total annual releases to other disposal units (between 1 and 1,000 pounds) at the facility. There are three possible ranges: A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'OTH DISP' *Reference:* Part II, Section 5.5.4 col A
218	TOTAL OTHER DISPOSAL	N	Total quantity of releases to other on-site disposal. Total is based on quantity reported for OTHER DISPOSAL – RELEASE POUNDS (#213) or midpoint of the range code reported for OTHER DISPOSAL – RANGE CODE (#214). *Source:* **TRI_RELEASE_QTY**.TOTAL_RELEASE, or **TRI_RELEASE_QTY**.RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'OTH DISP' *Reference:* TRI system-generated
219	OTHER DISPOSAL – BASIS OF ESTIMATE	C	The principal method used to calculate the quantity of total other disposal. Reported using one of six codes. See Appendix A: "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. *Source:* **TRI_RELEASE_QTY**.RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'OTH DISP' *Reference:* Part II, Section 5.5.4 Col. B
220	TOTAL ON-SITE LAND RELEASES	N	Total quantity of the toxic chemical released to land on site at the facility. This is the sum of rows #184, 187, 191, 195, 199, 203, 207, 201, 215. *Source:* **TRI_FORM_TOTALS**.TOTAL_LAND_RELEASE *Reference:* TRI system-generated
221	TOTAL ON-SITE RELEASES	N	Total quantity of the toxic chemical released to air, water, and land on site at the facility. This is the sum of: TOTAL AIR EMISSIONS (#115) + TOTAL SURFACE WATER DISCHARGE (#171) + TOTAL ON-SITE LAND RELEASES (#217) *Source:* **TRI_FORM_TOTALS**.TOTAL_ONSITE_RELEASE *Reference:* TRI system-generated
222	WASTE ROCK PILE MANAGED IND	C	Flag indicating whether any land releases reported by the facility in Section 5.5 include releases to an on-site waste rock pile(s). Waste rock piles are primarily used in mining operations. This optional data element was added for RY 2018. VALUES: YES = disposal reported in Section 5.5includes releases to waste rock piles NO = disposal reported in Section 5.5 does not include releases to waste rock piles. *Source:* **TRI_REPORTING_FORM**.WASTE_ROCK_MANAGED_PILE *Reference:* Part II, Section 5.5
223	WASTE ROCK QUANTITY	N	The total quantity of the chemical reported as managed in a waste rock pile at the reporting facility. This optional data element was added for RY 2018. *Source:* **TRI_REPORTING_FORM**.WASTE_ROCK_QUANTITY *Reference:* Part II, Section 5.5

224	OFF-SITE – POTW RELEASES 8.1C	N	The total quantity of the chemical transferred to publicly-owned treatment works (POTWs) that is disposed of or released to Class I Underground Injection Wells, RCRA C Landfills and/or Other (Non-RCRA C) Landfills. This amount is included in the calculation for Form R 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
225	OFF-SITE - POTW RELEASES 8.1D	N	The total quantity of the chemical transferred to publicly-owned treatment works (POTWs) that is 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 included in the calculation for Form R Section 8.1D: "Total Other Off-site Disposal or Other Releases." *Source:* **TRI_FORM_TOTALS**.POTW_RELEASE_81D *Reference:* Part II, Section 6.1
226	OFF-SITE - POTW RELEASES	N	The total quantity of the chemical reported as transferred off site to a POTW for release or disposal. See Appendix F: "POTW Release and Treatment Calculations" for details. This is the sum of: OFF-SITE - POTW RELEASES 8.1C (#221) + OFFSITE - POTW Releases 8.1D (#222). *Source:* **TRI_FORM_TOTALS**.POTW_RELEASE *Reference:* Part II, Section 6.1
227	OFF-SITE - STORAGE ONLY	N	The total quantity of the chemical reported as transferred off site for storage using transfer code M10: "Storage Only." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source:* **TRI_FORM_TOTALS**.M10 *Reference:* Part II, Section 6.2A
228	OFF-SITE - SOLIDIFICATION/STABILIZATION - METALS AND METAL COMPOUNDS ONLY	N	The total quantity of a metal or metal compound reported as transferred off site for solidification/stabilization using disposal transfer code M41: "Solidification/Stabilization Metals and Metal Category Compounds Only." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source:* **TRI_FORM_TOTALS**.M41 *Reference:* Part II, Section 6.2A
229	OFF-SITE - WASTEWATER TREATMENT RELEASE (EXCLUDING POTWs) – METALS AND METAL COMPOUNDS ONLY	N	The total quantity of a metal or metal compound reported as transferred off site for wastewater treatment not at POTWs using disposal transfer code M62: "Wastewater Treatment (Excluding POTWs) – Metals and Metal Compounds Only." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source:* **TRI_FORM_TOTALS**.M62 *Reference:* Part II, Section 6.2A

230	OFF-SITE – SOLIDIFICATION/STABLIZATION – RELEASE - METALS AND METAL COMPOUNDS ONLY	N	The total quantity of a metal or metal compound reported as transferred off site for solidification/stabilization using treatment transfer code M40: "SOLIDIFICATION/STABLIZATION." See Appendix G: "Codes for Off-Site Waste Management" for a list of all treatment transfer codes. *Note: As of RY 2017, metals cannot be reported using code M40. However, if a metal was reported in prior years under M40, it's considered a release/disposal because a metal can't be treated via this method. Source:* **TRI_FORM_TOTALS**.M40_METAL *Reference:* Part II, Section 6.2A
231	OFF-SITE – WASTEWATER TREATMENT (EXCLUDING POTWS) - METALS AND METAL COMPOUNDS ONLY	N	The total quantity of a metal or metal compound reported as transferred off site for wastewater treatment not at POTWs using treatment transfer code M61: "WASTEWATER TREATMENT (EXCLUDING POTWS)." See Appendix G: "Codes for Off-Site Waste Management" for a list of all treatment transfer codes. *Note: As of RY 2017, metals cannot be reported using code M61. However, if a metal was reported in prior years under M61, it's considered a release/disposal because a metal can't be treated via this method.* *Source:* **TRI_TOTAL_FORMS**.M61_METAL *Reference:* Part II, Section 6.2A
232	OFF-SITE UNDERGROUND INJECTION	N	The total quantity of the chemical reported as transferred off site for underground injection using disposal transfer code M71: "Underground Injection." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Note: Effective for RY 2003, code M71 was deleted and replaced with codes M81 (Underground Injection to Class I Wells) and M82 (Underground Injection to Class II-V Wells). See rows #230 and #231 of this table.* *Source:* **TRI_FORM_TOTALS**.M71 *Reference:* Part II, Section 6.2A
233	OFF-SITE – UNDERGROUND INJECTION - CLASS I WELLS	N	Total quantity of the chemical reported as transferred off site for underground injection to Class I wells using disposal transfer code M81: "Underground Injection to Class I Wells." This field was added in RY 2003. *Source:* **TRI_FORM_TOTALS**.M81 *Reference:* Part II, Section 6.2A
234	OFF-SITE – UNDERGROUND INJECTION - CLASS II-V WELLS	N	Total quantity of the chemical reported as transferred off site for underground injection to Class II-V wells using disposal transfer code M82: "Underground Injection to Class II-V Wells." This field was added in RY 2003. *Source:* **TRI_FORM_TOTALS**.M82 *Reference:* Part II, Section 6.2A

235	OFF-SITE - LANDFILLS/DISPOSAL SURFACE IMPOUNDMENTS	N	The total quantity of the chemical reported as transferred off site for disposal in landfills or surface impoundments using disposal transfer code M72: "Landfills/Disposal Surface Impoundments." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Note: Effective for RY 2002, code M72 was deleted and replaced with code M63 (Surface Impoundment), M64 (Other Landfills), and M65 (RCRA Subtitle C Landfills).* *Source:* **TRI_FORM_TOTALS**.M72 *Reference:* Part II, Section 6.2A
236	OFF-SITE - SURFACE IMPOUNDMENT	N	The total quantity of the chemical reported as transferred off site for disposal in surface impoundments using disposal transfer code M63: "Surface Impoundment." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Note: Effective for RY 2003, code M63 was deleted and replaced with code M66 (RCRA Subtitle C Surface Impoundment) and code M67 (Other Surface Impoundments).* *Source:* **TRI_FORM_TOTALS**.M63 *Reference:* Part II, Section 6.2A
237	OFF-SITE - RCRA SUBTITLE C SURFACE IMPOUNDMENTS	N	Total quantity of the chemical reported as transferred off site for disposal in RCRA Subtitle C surface impoundments using disposal transfer code M66: "RCRA Subtitle C Surface Impoundments." This field was added in RY 2003. See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source:* **TRI_FORM_TOTALS**.M66 *Reference:* Part II, Section 6.2A
238	TOTAL OFF-SITE - OTHER SURFACE IMPOUNDMENTS	N	Total quantity of the chemical reported as transferred off site for disposal in other surface impoundments using disposal transfer code M67: "Other Surface Impoundments." This field was added in RY 2003. See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source*: **TRI_FORM_TOTALS**.M67 *Reference:* Part II, Section 6.2A
239	TOTAL OFF-SITE - OTHER LANDFILLS	N	Total quantity of the chemical reported as transferred off site for disposal in other landfills using disposal transfer code M64: "Other Landfills." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source*: **TRI_FORM_TOTALS**.M64 *Reference:* Part II, Section 6.2A
240	TOTAL OFF-SITE - RCRA SUBTITLE C LANDFILLS	N	Total quantity of the chemical reported as transferred off site for disposal in RCRA Subtitle C landfills using disposal transfer code M65: "RCRA Subtitle C Landfills." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source:* **TRI_FORM_TOTALS**.M65 *Reference:* Part II, Section 6.2A

241	OFF-SITE - DISPOSAL - LAND TREATMENT	N	Total quantity of the chemical reported as transferred off site for treatment to land using disposal transfer code M73: "Land Treatment." See Appendix G: "Codes for Off-site Waste Management" for a list of all disposal transfer codes. *Source:* **TRI_FORM_TOTALS**.M73 *Reference:* Part II, Section 6.2A
242	OFF-SITE - DISPOSAL - OTHER LAND DISPOSAL	N	Total quantity of the chemical reported as transferred off site for other land disposal (typically waste piles, spills, and leaks) using disposal transfer code M79: "Other Land Disposal." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source:* **TRI_FORM_TOTALS**.M79 *Reference:* Part II, Section 6.2A
243	OFF-SITE DISPOSAL - OTHER OFF-SITE MGMT	N	Total quantity of the chemical reported as transferred off site for management by methods not specifically covered by other codes using disposal transfer code M90: "Other Off-Site Management." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source:* **TRI_FORM_TOTALS**.M90 *Reference:* Part II, Section 6.2A
244	OFF-SITE - DISPOSAL - TRANSFER TO WASTE BROKER	N	Total quantity of the chemical reported as transferred off site to a waste broker where the broker sends the waste for disposal, but the reporting facility does not know the location of the disposal site using disposal transfer code M94: "Transfer to Waste Broker for Disposal." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source:* **TRI_FORM_TOTALS**.M94 *Reference:* Part II, Section 6.2A
245	OFF-SITE - DISPOSAL - UNKNOWN	N	Total quantity of the chemical reported as transferred off site but the disposal method is unknown using code M99: "Unknown." See Appendix G: "Codes for Off-Site Waste Management" for a list of all disposal transfer codes. *Source:* **TRI_FORM_TOTALS**.M99 *Reference:* Part II, Section 6.2A
246	TOTAL TRANSFERRED OFF SITE FOR DISPOSAL	N	Total quantity of the chemical reported as transferred to off-site locations for release or disposal. Quantity is in grams for dioxins and pounds for all other chemicals. Sum of rows #223 through #242. *Source:* **TRI_FORM_TOTALS**.TOTAL_OFFSITE_RELEASE *Reference:* Part II, Section 6.2
247	OFF-SITE - RECYCLING – SOLVENTS/ORGANICS RECOVERY	N	Total quantity of the chemical reported as transferred off site for recycling using the code M20: "Solvents/Organics Recovery." See Appendix G: "Codes for Off-Site Waste Management" for a list of all recycling transfer codes. *Source:* **TRI_FORMS_TOTALS**.M20 *Reference:* Part II, Section 6.2A

248	OFF-SITE - RECYCLING -METALS RECOVERY	N	Total quantity of the chemical reported as transferred off site for recycling using the code M24: “Metals Recovery.” See Appendix G: “Codes for Off-Site Waste Management” for a list of all recycling transfer codes. *Source:* **TRI_FORM_TOTALS**.M24 *Reference:* Part II, Section 6.2A
249	OFF-SITE - RECYCLING – OTHER REUSE OR RECOVERY	N	Total quantity of the chemical reported as transferred off site for recycling using the code M26: “Other Reuse or Recovery.” See Appendix G: “Codes for Off-Site Waste Management” for a list of all recycling transfer codes. *Source:* **TRI_FORM_TOTALS**.M26 *Reference:* Part II, Section 6.2A
250	OFF-SITE - RECYCLING – ACID REGENERATION	N	Total quantity of the chemical reported as transferred off site for recycling using the code M28: “Acid Regeneration.” See Appendix G: “Codes for Off-Site Waste Management” for a list of all recycling transfer codes. *Source:* **TRI_FORM_TOTALS**.M28 *Reference:* Part II, Section 6.2A
251	OFF-SITE - RECYCLING – TRANSFER TO WASTE BROKER	N	Total quantity of the chemical reported as transferred off site to recycling using the code M93: “Transfer to Waste Broker - Recycling.” See Appendix G: “Codes for Off-Site Waste Management” for a list of all recycling transfer codes. *Source:* **TRI_FORM_TOTALS**.M93 *Reference:* Part II, Section 6.2A
252	TOTAL TRANSFERRED OFF SITE FOR RECYCLING	N	Total quantity of the chemical reported as transferred to off-site locations for recycling. Quantity is in grams for dioxins and pounds for all other chemicals. Sum of rows #244 through #248. *Source:* **TRI_FORM_TOTALS**.TOTAL_RECYCLING_TRANSFER *Reference:* Part II, Section 6.2
253	OFF-SITE - ENERGY RECOVERY	N	Total quantity of the chemical reported as transferred off site to energy recovery using the code M56: “Energy Recovery.” See Appendix G: “Codes for Off-Site Waste Management” for a list of all energy recovery transfer codes. *Source:* **TRI_FORM_TOTALS**.M56 *Reference:* Part II, Section 6.2A
254	OFF-SITE - TRANSFER TO WASTE BROKER FOR ENERGY RECOVERY	N	Total quantity of the chemical reported as transferred off site to energy recovery using the code M92: “Transfer to Waste Broker - Energy Recovery.” See Appendix G: “Codes for Off-Site Waste Management” for a list of all energy recovery transfer codes. *Source:* **TRI_FORM_TOTALS**.M92 *Reference:* Part II, Section 6.2A
255	TOTAL TRANSFERRED OFF SITE FOR ENERGY RECOVERY	N	Total quantity of the chemical reported as transferred to off-site locations for energy recovery. Quantity is in grams for dioxins and pounds for all other chemicals. Sum of rows #250 + #251. *Source:* **TRI_FORM_TOTALS**.TOTAL_RECOVERY_TRANSFER *Reference:* Part II, Section 6.2

256	OFF-SITE – POTW TREATMENT	N	Total quantity of the chemical transferred off site to a POTW for treatment. See Appendix F: "POTW Release and Treatment Calculations" for details. *Source:* **TRI_FORM_TOTALS.**POTW_TREATMENT *Reference:* Part II, Section 6.2A
257	OFF-SITE - SOLIDIFICATION/STABILIZATION TREATMENT– NON-METALS	N	Total quantity of the chemical reported as transferred off site to treatment using the code M40: "Solidification/Stabilization." See Appendix G: "Codes for Off-Site Waste Management" for a list of all treatment transfer codes. *Note: This code is not available for certain metals because a metal can't be treated via this method. For RY2017 and prior, when a metal with reporting restrictions is reported under M40 it is included in the TOTAL TRANSFERRED OFF SITE FOR DISPOSAL (Field #243).* *Source:* **TRI_FORM_TOTALS**.M40_NON_METAL *Reference:* Part II, Section 6.2A
258	OFF-SITE - INCINERATION/THERMAL TREATMENT	N	Total quantity of the chemical reported as transferred off site to treatment using the code M50: "Incineration/Thermal Treatment." See Appendix G: "Codes for Off-Site Waste Management" for a list of all treatment transfer codes. *Source:* **TRI_FORM_TOTALS**.M50 *Reference:* Part II, Section 6.2A
259	OFF-SITE - INCINERATION/INSIGNIFICANT HEAT VALUE	N	Total quantity of the chemical reported as transferred off site to treatment using the code M54: "Incineration/Insignificant Fuel Value." See Appendix G: "Codes for Off-Site Waste Management" for a list of all treatment transfer codes. *Source:* **TRI_FORM_TOTALS**.M54 *Reference:* Part II, Section 6.2A
260	OFF-SITE - WASTEWATER TREATMENT (EXCLUDING POTWs) – NON-METALS ONLY	N	Total quantity of the chemical reported as transferred off site to treatment using the code M61: "Wastewater Treatment (Excluding POTWs)." See Appendix G: "Codes for Off-Site Waste Management" for a list of all treatment transfer codes. *Note: This code is not available for certain metals because a metal can't be treated via this method.* *Source:* **TRI_FORM_TOTALS**.M61_NON_METALS *Reference:* Part II, Section 6.2A
261	OFF-SITE - OTHER WASTE TREATMENT	N	Total quantity of the chemical reported as transferred off site to treatment using the code M69: "Other Waste Treatment." See Appendix G: "Codes for Off-Site Waste Management" for a list of all treatment transfer codes. *Source:* **TRI_FORM_TOTALS**.M69 *Reference:* Part II, Section 6.2A
262	OFF-SITE - TRANSFER TO WASTE BROKER – WASTE TREATMENT	N	Total quantity of the chemical reported as transferred off site to treatment using the code M95: "Transfer to Waste Broker - Waste Treatment." See Appendix G: "Codes for Off-Site Waste Management" for a list of all treatment transfer codes. *Source:* **TRI_FORM_TOTALS**.M95 *Reference:* Part II, Section 6.2A

263	TOTAL TRANSFERRED OFF SITE FOR TREATMENT	N	Total quantity of the chemical reported as transferred to off-site locations for treatment. Quantity is in grams for dioxins and pounds for all other chemicals. Sum of rows #253 to #259. *Source:* **TRI_FORM_TOTALS**.TOTAL_TREATMENT_TRANSFER *Reference:* Part II, Section 6.2
264	OFF-SITE - TRANSFER TO WASTE BROKER	N	Total quantity of the chemical reported as transferred off site using the code M91: "Transfer to Waste Broker." See Appendix G: "Codes for Off-Site Waste Management" for a list of all M codes. *Note: This category was used from 1987 through 1990. It did not indicate the final disposition of the transfer (i.e., energy recovery, recycling, release, or treatment). It was replaced in 1991 with the codes M92, M93, M94, and M95, which did specify how the transfer was managed at the waste broker.* *Source:* **TRI_FORM_TOTALS**.M91 *Reference:* Part II, Section 6.2A
265	TOTAL TRANSFERRED OFF SITE FOR FURTHER WASTE MGMT	N	Total quantity of the chemical in waste reported as transferred off site for further waste management. Quantity is in grams for dioxins and in pounds for all other chemicals. Sum of rows #243 + #249 + #252 + #260. *Source:* **TRI_FORM_TOTALS**.TOTAL_TRANSFER *Reference:* TRI system-generated
266	TOTAL POTW TRANSFER	N	Total quantity of the chemical reported as transferred off site to POTWS. Quantity is in grams for dioxins and pounds for all other chemicals. Sum of rows: #223 + #253. *Source:* TRI System-generated *Reference:* Part II, Section 6.2
267	ENERGY RECOVERY ON SITE CURRENT YEAR	N	Total quantity of the chemical combusted on site for energy recovery during the reporting year. *Source:* **TRI_SOURCE_REDUCT_QTY**. ENERGY_ONSITE_CURR_YR_QTY *Reference:* Part II Section 8.2.B
268	RECYCLED ON SITE CURRENT YEAR	N	Total quantity of the chemical recycled on site during the reporting year. *Source:* **TRI_SOURCE_REDUCT_QTY**. RECYC_ONSITE_CURR_YR_QTY *Reference:* Part II Section 8.4.B
269	TREATED ON SITE CURRENT YEAR	N	Total quantity of the chemical treated on site during the reporting year. *Source:* **TRI_SOURCE_REDUCT_QTY**. TREATED_ONSITE_CURR_YR_QTY *Reference:* Part II Section 8.6.B
270	TOTAL ON-SITE WASTE MANAGEMENT	N	Total quantity of the chemical recycled, treated, or combusted for energy recovery on site: rows #264 + #265 + #266. *Source:* TRI System-generated *Reference:* None

271	ON-SITE ENERGY RECOVERY METHOD 1	C	First on-site energy recovery method reported for the chemical. Facilities specify the energy recovery process (industrial kiln, furnace, or boiler) used by selecting "U" codes. See Appendix H: "On-site Energy Recovery Process Codes" for a list of all codes. *Source:* **TRI_ENERGY_RECOVERY**.ONSITE_ENERGY_PROC_CODE *Reference:* Part II, Section 7B.1
272	ON-SITE ENERGY RECOVERY METHOD 2	C	Second on-site energy recovery method reported for the chemical. Facilities specify the energy recovery process (industrial kiln, furnace, or boiler) used by selecting "U" codes. See Appendix H: "On-site Energy Recovery Process Codes" for a list of all codes. *Source:* **TRI_ENERGY_RECOVERY**.ONSITE_ENERGY_PROC_CODE *Reference:* Part II, Section 7B.2
273	ON-SITE ENERGY RECOVERY METHOD 3	C	Third on-site energy recovery method reported for the chemical. Facilities specify the energy recovery process (industrial kiln, furnace, or boiler) used by selecting "U" codes. See Appendix H: "On-site Energy Recovery Process Codes" for a list of all codes. *Source:* **TRI_ENERGY_RECOVERY**.ONSITE_ENERGY_PROC_CODE *Reference:* Part II, Section 7B.3
274	ON-SITE ENERGY RECOVERY METHOD 4	C	Fourth on-site energy recovery method reported for the chemical. Facilities specify the energy recovery process (industrial kiln, furnace, or boiler) used by selecting "U" codes. See Appendix H: "On-site Energy Recovery Process Codes" for a list of all codes. *Source:* **TRI_ENERGY_RECOVERY**.ONSITE_ENERGY_PROC_CODE *Reference:* Part II, Section 7B.4
275	ON-SITE RECYCLING METHOD 1	C	First recycling method reported for the chemical. Facilities specify the recycling process (metal recovery, solvent recovery, or other recovery) used by selecting "H" codes followed by two digits. See Appendix I: "On-site Recycling Process Codes" for a list of all codes. *Note: For RY 2010 and earlier, facilities use a combination of H and R codes or R codes only.* *Source:* **TRI_RECYCLING_PROCESS**.ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.1
276	ON-SITE RECYCLING METHOD 2	C	Second recycling method reported for the chemical. Facilities specify the recycling process (metal recovery, solvent recovery, or other recovery) used by selecting "H" codes followed by two digits. See Appendix I: "On-site Recycling Process Codes" for a list of all codes. *Note: For RY 2010 and earlier, facilities use a combination of H and R codes or R codes only.* *Source:* **TRI_RECYCLING_PROCESS**.ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.2

277	ON-SITE RECYCLING METHOD 3	C	Third recycling method reported for the chemical. Facilities specify the recycling process (metal recovery, solvent recovery, or other recovery) used by selecting "H" codes followed by two digits. See Appendix I: "On-site Recycling Process Codes" for a list of all codes. *Note: For RY 2010 and earlier, facilities use a combination of H and R codes or R codes only. Source:* **TRI_RECYCLING_PROCESS.** ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.3
278	ON-SITE RECYCLING METHOD 4	C	Fourth recycling method reported for the chemical. Facilities specify the recycling process (metal recovery, solvent recovery, or other recovery) used by selecting "H" codes followed by two digits. See Appendix I: "On-site Recycling Process Codes" for a list of all codes. *Note: For RY 2010 and earlier, facilities use a combination of H and R codes or R codes only.* *Source:* **TRI_RECYCLING_PROCESS**.ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.4
279	ON-SITE RECYCLING PROCESSES METHOD 5	C	Fifth recycling method reported for the chemical. Facilities specify the recycling process (metal recovery, solvent recovery, or other recovery) used by selecting "H" codes followed by two digits. See Appendix I: "On-site Recycling Process Codes" for a list of all codes. *Note: For RY 2010 and earlier, facilities use a combination of H and R codes or R codes only.* *Source:* **TRI_RECYCLING_PROCESS**.ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.5
280	ON-SITE RECYCLING PROCESSES METHOD 6	C	Sixth recycling method reported for the chemical. Facilities specify the recycling process (metal recovery, solvent recovery, or other recovery) used by selecting "H" codes followed by two digits. See Appendix I: "On-site Recycling Process Codes" for a list of all codes. *Note: For RY 2010 and earlier, facilities use a combination of H and R codes or R codes only.* *Source:* **TRI_RECYCLING_PROCESS**.ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.6
281	ON-SITE RECYCLING PROCESSES METHOD 7	C	Seventh recycling method reported for the chemical. Facilities specify the recycling process (metal recovery, solvent recovery, or other recovery) used by selecting "H" codes followed by two digits. See Appendix I: "On-site Recycling Process Codes" for a list of all codes. *Note: For RY 2010 and earlier, facilities use a combination of H and R codes or R codes only.* *Source:* **TRI_RECYCLING_PROCESS**.ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.7

Appendix A: Form R, Section 5: On-site Releases – Basis of Estimate Codes

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 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-releaseinventory-tri-program/tri-dioxin-and-dioxin-compounds-and-teq-data-files-calendar.

APPENDIX D: 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 E: Codes for Maximum Amount On Site

Codes 01 through 11 apply to all TRI chemicals that are not dioxins or dioxin-like compounds. Codes 12 through 20 apply to dioxin and dioxin-like compounds.

Code	Range		Unit of Measure
	From	To	
01	0	99	Pounds
02	100	999	Pounds
03	1,000	9,999	Pounds
04	10,000	99,999	Pounds
05	100,000	999,999	Pounds
06	1,000,000	9,999,999	Pounds
07	10,000,000	49,999,999	Pounds
08	50,000,000	99,999,999	Pounds
09	100,000,000	499,999,999	Pounds
10	500,000,000	999,999,999	Pounds
11	1,000,000,000	10,000,000,000	Pounds
12	0	0.099	Grams
13	0.1	0.99	Grams
14	1	9.99	Grams
15	10	99	Grams
16	100	999	Grams
17	1,000	9,999	Grams
18	10,000	99,999	Grams
19	100,000	999,999	Grams
20	1,000,000	100,000,000	Grams
NA	0	0	
NV	0	0	

APPENDIX F – POTW Release and Treatment Calculations

The calculation of POTW release quantities and POTW treatment quantities is divided into three categories: 1) prior to and including RY 2013, 2) RY 2014-2017, and 3) RY 2018 and after.

Reporting Years 1987 to 2013:

For RY 2013 and before, to calculate the amount released at a POTW (Row #97 – OFF-SITE - POTW RELEASES), multiply the total POTW transfer reported in section 6.1 of the Form R by 1.00 for all chemicals that are metals. See "Appendix B – Chemical Classification – Metals" for a list of TRI chemicals that are metals. Prior to and including RY 2013, all POTW transfers for chemicals classified as metals are considered 100% released. To calculate the POTW Treatment quantity, subtract the POTW Release from the total POTW transfer.

Reporting Years 2014 to 2017:

For RY 2014 to 2017, the TRI Program required all facilities to submit TRI data to EPA electronically (except for trade secret submissions) using the TRI-MEweb software. For these reporting years, the TRI Program also changed the way it calculated POTW Releases and POTW Treatment as well as Off-site Releases in Section 8.1c and 8.1d of the Form R, and off-site Treatment of a chemical in section 8.7.

The TRI-MEweb software allows facilities to specify how their POTW transfers are managed using three percentages, which correspond to the "Source Reduction and Recycling Activities" in Section 8 of the Form R and are as follows:

Item	Description Form	Form R Section
A	Percentage released to Underground Injection Class I Wells, RCRA C Landfills and/or Other Landfills	8.1c
B	Percentage released to other media not specified in item	8.1d
C	Percentage not released, but treated in some manner	8.7

If a facility does provide these percentages, then the POTW Release quantity is calculated by multiplying the amount of the transfer by the percentages provided in items A and B (above) and adding those two numbers together. Then, to calculate the POTW Treatment amount, subtract the POTW Release from the total POTW transfer.

For example, if a facility reported a POTW transfer of 100 pounds and reported the percentages shown below, the POTW Release would be 90 pounds and the POTW Treatment amount would be 10 pounds.

A	Percentage released to Underground Injection Class I Wells, RCRA C Landfills and/or Other Landfills	60%
B	Percentage released to other media not specific in item A	30%
C	Percentage not released, but treated in some manner	10%

If the facility does not provide the percentages, then the POTW Release amount will be back-calculated using the default percentages for each chemical (provided by EPA's Office of Water) and other data on the form R. See the "Default Chemical Percentages" table below.

The first step in this process is to calculate the Section 8.1c, 8.1d and 8.7 amounts on the Form R. These are done automatically via the TRI-MEweb software. The procedure is as follows:

Section 8.1c: Total Off-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills is calculated as follows:

* Section 6.1 (portion of transfer that is not treated for destruction and is ultimately disposed of in landfills or UIC Class I Wells – This is item A in the table above calculated by multiplying the transfer amount by the default percentage for the chemical for 8.1C) + Section 6.2 (quantities associated with M codes M64, M65 and M81) - Section 8.8 (catastrophic, remedial or one-time releases to off-site disposal to landfills or UIC Class I Wells)

Section 8.1d: Total Other Off-site Disposal or Other Releases

* Section 6.1 (portion of transfer that is not treated for destruction and is ultimately disposed of or otherwise released, other than disposal to landfills or UIC Class I Wells – This is item B in the table above calculated by multiplying the default percentages for the chemical for 8.1D) + Section 6.2 (quantities associated with M codes M10, M41, M62, M66, M67, M73, M79, M82, M90, M94, and M99) - Section 8.8 (catastrophic, remedial or one-time releases for off-site disposal or other releases, other than disposal to landfills or UIC Class I Wells)

Section 8.7: Quantity Treated Off-site

* Section 6.1 (portion of transfer that is ultimately treated – This is item C as referred to in the table above calculated by multiplying the default percentages for the chemical for 8.7) + Section 6.2 (treatment) - Section 8.8 (off-site treatment)

The next step is to check that following equation is true. The equation will be true if there are no data quality errors within the form and no rounding of data was undertaken in Section 8. The equation is:

8.7 + 8.1c + 8.1d = 6.1 + 6.2 (release M codes) + 6.2 (treatment M codes).

* Release M codes are: M10, M40, M41, M61, M62, M71, M81, M82, M72, M63, M66, M67, M64, M65, M73, M79, M90, M91, M94, M99

* Treatment M codes are: M40, M50, M54, M61, M69, and M95.

If the two values on either side of the equation are equal, POTW Release = 8.1c + 8.1d - 6.2 (release M- codes). Then, to calculate the POTW Treatment amount, subtract the POTW Release from the total POTW transfer.

If the two values on either side of the equation are NOT equal, percentages cannot be back-calculated. The POTW Release is equal to the sum of the POTW transfer multiplied by the default release percentages of the chemical for 8.1C and 8.1D (see the “Default Percentages” table below). Then, to calculate the POTW Treatment amount, subtract the POTW Release from the total POTW transfer.

Beginning in Reporting Year 2018:

For RY 2018 and after, to calculate the total amount released at a POTW, add the quantities reported using these P codes:

Description	P Code	Row # From Above
Discharges to Water Streams	P30	87
Discharges to Other Activities	P31	89
Released to Air	P32	91
Sludge to Disposal	P33	93
Sludge to incineration – Metals	P34	95
Sludge to agricultural applications	P35	97
Other or Unknown Disposal	P36	99

To calculate the total amount treated at the POTW (Row #110 – Total Treated), add the quantities for these reported amounts:

Description	P Code	Row # From Above
Other or Unknown Treatment	P37	105
Sludge to incineration – Nonmetals	P38	107
Experimental and Estimated Treatment Data (TRI Provided)	P39	109

Default Chemical Percentages

8.1C - Releases/disposal to Landfills or UIC Class I Wells
8.1D - All other releases/disposal not classified in 8.1C
8.7 – Treatment

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
000354110	1,1,1,2-TETRACHLORO-2-FLUOROETHANE	3	84	13
000630206	1,1,1,2-TETRACHLOROETHANE	3	82	15
000071556	1,1,1-TRICHLOROETHANE	1	95	4
000354143	1,1,2,2-TETRACHLORO-1-FLUOROETHANE	3	84	13

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
000079345	1,1,2,2-TETRACHLOROETHANE	2	78	20

000079005	1,1,2-TRICHLOROETHANE	1	82	17
013474889	1,1-DICHLORO-1,2,2,3,3-PENTAFLUOROPROPANE	0	0	100
000812044	1,1-DICHLORO-1,2,2-TRIFLUOROETHANE	0	0	100
111512562	1,1-DICHLORO-1,2,3,3,3-PENTAFLUOROPROPANE	0	0	100
001717006	1,1-DICHLORO-1-FLUOROETHANE	1	96	3
000057147	1,1-DIMETHYL HYDRAZINE	1	25	74
000096184	1,2,3-TRICHLOROPROPANE	2	56	42
000120821	1,2,4-TRICHLOROBENZENE	19	22	59
000095636	1,2,4-TRIMETHYLBENZENE	11	21	68
000106887	1,2-BUTYLENE OXIDE	0	27	73
000096128	1,2-DIBROMO-3-CHLOROPROPANE	4	72	24
000106934	1,2-DIBROMOETHANE	1	60	39
000422446	1,2-DICHLORO-1,1,2,3,3-PENTAFLUOROPROPANE	0	0	100
000354234	1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	1	98	1
000431867	1,2-DICHLORO-1,1,3,3,3-PENTAFLUOROPROPANE	0	0	100
001649087	1,2-DICHLORO-1,1-DIFLUOROETHANE	1	97	2
000095501	1,2-DICHLOROBENZENE	7	47	46
000107062	1,2-DICHLOROETHANE	1	64	35
000540590	1,2-DICHLOROETHYLENE	1	74	25
000078875	1,2-DICHLOROPROPANE	1	70	29
000122667	1,2-DIPHENYLHYDRAZINE	4	46	50
000095545	1,2-PHENYLENEDIAMINE	1	55	44
000615281	1,2-PHENYLENEDIAMINE DIHYDROCHLORIDE	0	0	100
000106990	1,3-BUTADIENE	1	86	13
000507551	1,3-DICHLORO-1,1,2,2,3-PENTAFLUOROPROPANE	3	96	1
136013791	1,3-DICHLORO-1,1,2,3,3-PENTAFLUOROPROPANE	0	0	100
000541731	1,3-DICHLOROBENZENE	8	47	45
000542756	1,3-DICHLOROPROPYLENE	1	44	55
000108452	1,3-PHENYLENEDIAMINE	1	55	44
000764410	1,4-DICHLORO-2-BUTENE	1	84	15
000106467	1,4-DICHLOROBENZENE	7	49	44
000123911	1,4-DIOXANE	1	55	44
000624180	1,4-PHENYLENEDIAMINE DIHYDROCHLORIDE	0	0	100

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
004080313	1-(3-CHLOROALLYL)-3,5,7-TRIAZA-1-AZONIAADAMANTANE CHLORIDE	1	55	44
000081492	1-AMINO-2,4-DIBROMOANTHRAQUINONE	0	0	100
000082280	1-AMINO-2-METHYLANTHRAQUINONE	0	0	100
035691657	1-BROMO-1-(BROMOMETHYL)-1,3-PROPANEDICARBONITRILE	0	0	100

000106945	1-BROMOPROPANE			
000354256	1-CHLORO-1,1,2,2-TETRAFLUOROETHANE	0	99	1
000075683	1-CHLORO-1,1-DIFLUOROETHANE	1	98	1
003296900	2,2-BIS(BROMOMETHYL)-1,3-PROPANEDIOL	0	0	100
128903219	2,2-DICHLORO-1,1,1,3,3-PENTAFLUOROPROPANE	0	0	100
000306832	2,2-DICHLORO-1,1,1-TRIFLUOROETHANE	1	98	1
002655154	2,3,5-TRIMETHYLPHENYL METHYLCARBAMATE	0	0	100
000422480	2,3-DICHLORO-1,1,1,2,3-PENTAFLUOROPROPANE	0	0	100
000078886	2,3-DICHLOROPROPENE	1	67	32
000095954	2,4,5-TRICHLOROPHENOL	13	25	62
000088062	2,4,6-TRICHLOROPHENOL	9	9	82
000094757	2,4-D	2	6	92
053404378	2,4-D 2-ETHYL-4-METHYLPENTYL ESTER	21	0	79
001928434	2,4-D 2-ETHYLHEXYL ESTER	22	0	78
001929733	2,4-D BUTOXYETHYL ESTER	12	1	87
000094804	2,4-D BUTYL ESTER	15	1	84
002971382	2,4-D CHLOROCROTYL ESTER	16	0	84
000094111	2,4-D ISOPROPYL ESTER	8	2	90
001320189	2,4-D PROPYLENE GLYCOL BUTYL ETHER ESTER	15	0	85
002702729	2,4-D SODIUM SALT	2	6	92
000094826	2,4-DB	0	0	100
000615054	2,4-DIAMINOANISOLE	0	0	100
039156417	2,4-DIAMINOANISOLE SULFATE	0	0	100
000095807	2,4-DIAMINOTOLUENE	1	55	44
000120832	2,4-DICHLOROPHENOL	3	5	92
000105679	2,4-DIMETHYLPHENOL	1	23	76
000051285	2,4-DINITROPHENOL	1	24	75
000121142	2,4-DINITROTOLUENE	1	54	45
000541537	2,4-DITHIOBIURET	1	51	48
000120365	2,4-DP	8	34	58
000576261	2,6-DIMETHYLPHENOL	0	0	100
000606202	2,6-DINITROTOLUENE	2	53	45
000087627	2,6-XYLIDINE	2	53	45
000053963	2-ACETYLAMINOFLUORENE	5	42	53
000117793	2-AMINOANTHRAQUINONE	2	52	46
000052517	2-BROMO-2-NITROPROPANE-1,3-DIOL	0	0	100
002837890	2-CHLORO-1,1,1,2-TETRAFLUOROETHANE	0	99	1
000075887	2-CHLORO-1,1,1-TRIFLUOROETHANE	0	99	1
000532274	2-CHLOROACETOPHENONE	0	0	100
000110805	2-ETHOXYETHANOL	0	8	92

000149304	2-MERCAPTOBENZOTHIAZOLE	2	52	46
000109864	2-METHOXYETHANOL	0	8	92
000075865	2-METHYLLACTONITRILE	0	0	100
000109068	2-METHYLPYRIDINE	0	8	92
000088755	2-NITROPHENOL	1	59	40
000079469	2-NITROPROPANE	1	26	73
000090437	2-PHENYLPHENOL	3	5	92
000091941	3,3'-DICHLOROBENZIDINE	9	32	59
000612839	3,3'-DICHLOROBENZIDINE DIHYDROCHLORIDE	9	32	59
064969342	3,3'-DICHLOROBENZIDINE SULFATE	0	0	100
000119904	3,3'-DIMETHOXYBENZIDINE	1	54	45
020325400	3,3'-DIMETHOXYBENZIDINE DIHYDROCHLORIDE	1	55	44
111984099	3,3'-DIMETHOXYBENZIDINE HYDROCHLORIDE	0	0	100
000119937	3,3'-DIMETHYLBENZIDINE	1	23	76
000612828	3,3'-DIMETHYLBENZIDINE DIHYDROCHLORIDE	0	0	100
041766750	3,3'-DIMETHYLBENZIDINE DIHYDROFLUORIDE	0	0	100
000422560	3,3-DICHLORO-1,1,1,2,2-PENTAFLUOROPROPANE	3	96	1
000460355	3-CHLORO-1,1,1-TRIFLUOROPROPANE	1	98	1
000563473	3-CHLORO-2-METHYL-1-PROPENE	1	93	6
000542767	3-CHLOROPROPIONITRILE	1	55	44
055406536	3-IODO-2-PROPYNYL BUTYLCARBAMATE	1	23	76
000101804	4,4'-DIAMINODIPHENYL ETHER	1	24	75
000080057	4,4'-ISOPROPYLIDENEDIPHENOL	5	14	81
000101144	4,4'-METHYLENEBIS(2-CHLOROANILINE)	17	18	65
000101611	4,4'-METHYLENEBIS(N,N-DIMETHYL)BENZENAMINE	0	0	100
000101779	4,4'-METHYLENEDIANILINE	1	24	75
000139651	4,4'-THIODIANILINE	0	0	100
000534521	4,6-DINITRO-O-CRESOL	2	53	45
000060093	4-AMINOAZOBENZENE	8	35	57
000092671	4-AMINOBIPHENYL	3	47	50
000060117	4-DIMETHYLAMINOAZOBENZENE	35	5	60
000092933	4-NITROBIPHENYL	0	0	100
000100027	4-NITROPHENOL	0	93	7
000099592	5-NITRO-O-ANISIDINE	0	0	100
000099558	5-NITRO-O-TOLUIDINE	1	54	45
071751412	ABAMECTIN	44	2	54
030560191	ACEPHATE	1	55	44
000075070	ACETALDEHYDE	0	9	91
000060355	ACETAMIDE	0	8	92

000067641	ACETONE	0	0	100
000075058	ACETONITRILE	1	25	74
000098862	ACETOPHENONE	0	8	92
062476599	ACIFLUORFEN, SODIUM SALT	12	25	63
000107028	ACROLEIN	0	9	91
000079061	ACRYLAMIDE	0	8	92
000079107	ACRYLIC ACID	0	8	92
000107131	ACRYLONITRILE	0	9	91
015972608	ALACHLOR	7	11	82
000116063	ALDICARB	1	54	45
000309002	ALDRIN	62	1	37
000107186	ALLYL ALCOHOL	0	8	92
000107051	ALLYL CHLORIDE	1	85	14
000107119	ALLYLAMINE	1	25	74
000319846	ALPHA-HEXACHLOROCYCLOHEXANE	0	0	100
000134327	ALPHA-NAPHTHYLAMINE	1	24	75
007429905	ALUMINUM (FUME OR DUST)	66	34	0
001344281	ALUMINUM OXIDE (FIBROUS FORMS)	2	98	0
020859738	ALUMINUM PHOSPHIDE	2	98	0
000834128	AMETRYN	4	45	51
033089611	AMITRAZ	0	0	100
000061825	AMITROLE	1	55	44
007664417	AMMONIA	0	40	60
006484522	AMMONIUM NITRATE (SOLUTION)	0	0	100
007783202	AMMONIUM SULFATE (SOLUTION)	0	0	100
000101053	ANILAZINE	16	19	65
000062533	ANILINE	0	8	92
000120127	ANTHRACENE	31	8	61
007440360	ANTIMONY	32	68	0
N010	ANTIMONY COMPOUNDS	32	68	0
007440382	ARSENIC	49	51	0
N020	ARSENIC COMPOUNDS	49	51	0
001332214	ASBESTOS (FRIABLE)	0	0	100
001912249	ATRAZINE	3	74	23
007440393	BARIUM	69	31	0
N040	BARIUM COMPOUNDS	69	31	0
022781233	BENDIOCARB	1	23	76
001861401	BENFLURALIN	56	3	41

017804352	BENOMYL	1	49	50
000098873	BENZAL CHLORIDE	0	0	100
000055210	BENZAMIDE	0	0	100
000071432	BENZENE	1	23	76
000092875	BENZIDINE	1	25	74

000191242	BENZO(G,H,I)PERYLENE	0	0	100
000098077	BENZOIC TRICHLORIDE	0	0	100
000098884	BENZOYL CHLORIDE	0	0	100
000094360	BENZOYL PEROXIDE	5	3	92
000100447	BENZYL CHLORIDE	1	27	72
007440417	BERYLLIUM	37	63	0
N050	BERYLLIUM COMPOUNDS	37	63	0
000091598	BETA-NAPHTHYLAMINE	1	23	76
000057578	BETA-PROPIOLACTONE	0	0	100
082657043	BIFENTHRIN	38	0	62
000092524	BIPHENYL	10	2	88
000108601	BIS(2-CHLORO-1-METHYLETHYL) ETHER	2	53	45
000111911	BIS(2-CHLOROETHOXY)METHANE	1	78	21
000111444	BIS(2-CHLOROETHYL) ETHER	2	78	20
000103231	BIS(2-ETHYLHEXYL) ADIPATE	0	0	100
000542881	BIS(CHLOROMETHYL) ETHER	0	0	100
000056359	BIS(TRIBUTYLTIN) OXIDE	0	0	100
010294345	BORON TRICHLORIDE	2	98	0
007637072	BORON TRIFLUORIDE	2	98	0
000314409	BROMACIL	2	53	45
053404196	BROMACIL, LITHIUM SALT	0	0	100
007726956	BROMINE	2	98	0
000353593	BROMOCHLORODIFLUOROMETHANE	1	98	1
000075252	BROMOFORM	2	57	41
000074839	BROMOMETHANE	0	80	20
000075638	BROMOTRIFLUOROMETHANE	0	99	1
001689845	BROMOXYNIL	6	13	81
001689992	BROMOXYNIL OCTANOATE	38	0	62
000357573	BRUCINE	1	55	44
000141322	BUTYL ACRYLATE	1	9	90
000085687	BUTYL BENZYL PHTHALATE	0	0	100
000123728	BUTYRALDEHYDE	0	9	91
002650182	C.I. ACID BLUE 9, DIAMMONIUM SALT	0	0	100

003844459	C.I. ACID BLUE 9, DISODIUM SALT	0	0	100
004680788	C.I. ACID GREEN 3	0	0	100
006459945	C.I. ACID RED 114	0	0	100
000569642	C.I. BASIC GREEN 4	0	0	100
000989388	C.I. BASIC RED 1	0	0	100
001937377	C.I. DIRECT BLACK 38	0	0	100
028407376	C.I. DIRECT BLUE 218	0	0	100
002602462	C.I. DIRECT BLUE 6	0	0	100
016071866	C.I. DIRECT BROWN 95	0	0	100
002832408	C.I. DISPERSE YELLOW 3	0	0	100

000081889	C.I. FOOD RED 15	0	0	100
003761533	C.I. FOOD RED 5	0	0	100
014302137	C.I. PIGMENT GREEN 36	0	0	100
001328536	C.I. PIGMENT GREEN 7	0	0	100
003118976	C.I. SOLVENT ORANGE 7	0	0	100
000842079	C.I. SOLVENT YELLOW 14	0	0	100
000097563	C.I. SOLVENT YELLOW 3	0	0	100
000492808	C.I. SOLVENT YELLOW 34	2	50	48
000128665	C.I. VAT YELLOW 4	0	0	100
007440439	CADMIUM	68	32	0
N078	CADMIUM COMPOUNDS	68	32	0
000156627	CALCIUM CYANAMIDE	2	98	0
000133062	CAPTAN	1	23	76
000063252	CARBARYL	1	12	87
001563662	CARBOFURAN	1	7	92
000075150	CARBON DISULFIDE	1	87	12
000056235	CARBON TETRACHLORIDE	2	88	10
000463581	CARBONYL SULFIDE	0	84	16
005234684	CARBOXIN	1	24	75
000120809	CATECHOL	0	8	92
N230	CERTAIN GLYCOL ETHERS	0	8	92
002439012	CHINOMETHIONAT	0	0	100
000133904	CHLORAMBEN	0	0	100
000057749	CHLORDANE	61	1	38
000115286	CHLORENDIC ACID	0	0	100
090982324	CHLORIMURON ETHYL	1	23	76
007782505	CHLORINE	2	98	0
010049044	CHLORINE DIOXIDE	2	98	0

000079118	CHLOROACETIC ACID	0	8	92
000108907	CHLOROBENZENE	2	39	59
000510156	CHLOROBENZILATE	39	3	58
000075456	CHLORODIFLUOROMETHANE	1	88	11
000075003	CHLOROETHANE	1	85	14
000067663	CHLOROFORM	1	73	26
000074873	CHLOROMETHANE	1	59	40
000107302	CHLOROMETHYL METHYL ETHER	0	0	100
N084	CHLOROPHENOLS	54	4	42
000076062	CHLOROPICRIN	1	88	11
000126998	CHLOROPRENE	1	93	6
063938103	CHLOROTETRAFLUOROETHANE	0	0	100
001897456	CHLOROTHALONIL	3	18	79
000075729	CHLOROTRIFLUOROMETHANE	0	99	1
005598130	CHLORPYRIFOS METHYL	0	0	100
064902723	CHLORSULFURON	1	54	45
007440473	CHROMIUM	76	24	0
N090	CHROMIUM COMPOUNDS (EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)	76	24	0

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
007440484	COBALT	32	68	0
N096	COBALT COMPOUNDS	32	68	0
007440508	COPPER	72	28	0
N100	COPPER COMPOUNDS	72	28	0
008001589	CREOSOTE	0	0	100
001319773	CRESOL (MIXED ISOMERS)	0	8	92
004170303	CROTONALDEHYDE	0	10	90
000098828	CUMENE	7	13	80
000080159	CUMENE HYDROPEROXIDE	1	24	75
000135206	CUPFERRON	0	0	100
021725462	CYANAZINE	2	76	22
N106	CYANIDE COMPOUNDS	2	98	0
001134232	CYCLOATE	0	0	100
000110827	CYCLOHEXANE	6	19	75
000108930	CYCLOHEXANOL	0	9	91
068359375	CYFLUTHRIN	38	0	62
068085858	CYHALOTHRIN	0	0	100
028057489	D-TRANS-ALLETHRIN	0	0	100
000533744	DAZOMET	0	3	97
053404607	DAZOMET, SODIUM SALT	0	0	100
001163195	DECABROMODIPHENYL OXIDE	62	1	37
013684565	DESMEDIPHAM	5	9	86
000117817	DI(2-ETHYLHEXYL) PHTHALATE	38	0	62
002303164	DIALLATE	21	14	65
025376458	DIAMINOTOLUENE (MIXED ISOMERS)	1	78	21
000333415	DIAZINON	12	7	81
000334883	DIAZOMETHANE	0	0	100
000132649	DIBENZOFURAN	18	4	78
000124732	DIBROMOTETRAFLUOROETHANE	2	97	1
000084742	DIBUTYL PHTHALATE	29	1	70
001918009	DICAMBA	1	53	46
000099309	DICHLORAN	0	0	100
090454185	DICHLORO-1,1,2-TRIFLUOROETHANE	0	0	100
025321226	DICHLOROBENZENE (MIXED ISOMERS)	8	47	45
000075274	DICHLOROBROMOMETHANE	1	68	31
000075718	DICHLORODIFLUOROMETHANE	0	99	1
000075434	DICHLOROFLUOROMETHANE	1	91	8

000075092	DICHLOROMETHANE	1	44	55
127564925	DICHLOROPENTAFLUOROPROPANE	3	96	1
000097234	DICHLOROPHENE	0	0	100
000076142	DICHLOROTETRAFLUOROETHANE (CFC-114)	2	97	1
034077877	DICHLOROTRIFLUOROETHANE	1	98	1
000062737	DICHLORVOS	1	25	74
051338273	DICLOFOP METHYL	0	0	100
000115322	DICOFOL	44	2	54
000077736	DICYCLOPENTADIENE	7	84	9
001464535	DIEPOXYBUTANE	1	25	74
000111422	DIETHANOLAMINE	0	8	92
038727558	DIETHATYL ETHYL	0	0	100
000084662	DIETHYL PHTHALATE	0	0	100
000064675	DIETHYL SULFATE	0	5	95
035367385	DIFLUBENZURON	13	6	81
000101906	DIGLYCIDYL RESORCINOL ETHER	1	25	74
000094586	DIHYDROSAFROLE	10	30	60
N120	DIISOCYANATES	0	0	100
055290647	DIMETHIPIN	1	55	44
000060515	DIMETHOATE	1	55	44
002524030	DIMETHYL CHLOROTHIOPHOSPHATE	0	0	100
000131113	DIMETHYL PHTHALATE	0	8	92
000077781	DIMETHYL SULFATE	0	3	97
000124403	DIMETHYLAMINE	0	8	92
002300665	DIMETHYLAMINE DICAMBA	1	54	45
000079447	DIMETHYLCARBAMYL CHLORIDE	0	0	100
000088857	DINITROBUTYL PHENOL	12	54	34
025321146	DINITROTOLUENE (MIXED ISOMERS)	1	53	46
039300453	DINOCAP	0	0	100
N150	DIOXIN AND DIOXIN-LIKE COMPOUNDS	0	0	100
000957517	DIPHENAMID	0	0	100
000122394	DIPHENYLAMINE	7	12	81
002164070	DIPOTASSIUM ENDOTHALL	1	24	75
000136458	DIPROPYL ISOCINCHOMERONATE	6	3	91
000138932	DISODIUM CYANODITHIOIMIDOCARBONATE	0	0	100
000330541	DIURON	2	50	48
002439103	DODINE	0	0	100
000106898	EPICHLOROHYDRIN	1	55	44

013194484	ETHOPROP	10	29	61
000140885	ETHYL ACRYLATE	0	10	90
000541413	ETHYL CHLOROFORMATE	1	43	56
000759944	ETHYL DIPROPYLTHIOCARBAMATE	5	41	54
000100414	ETHYLBENZENE	3	45	52
000074851	ETHYLENE	0	92	8
000107211	ETHYLENE GLYCOL	0	8	92
000075218	ETHYLENE OXIDE	0	9	91

000096457	ETHYLENE THIOUREA	1	55	44
N171	ETHYLENEBISDITHIOCARBAMIC ACID, SALTS AND ESTERS	2	98	0
000151564	ETHYLENEIMINE	1	55	44
000075343	ETHYLIDENE DICHLORIDE	1	78	21
000052857	FAMPHUR	0	0	100
060168889	FENARIMOL	0	0	100
013356086	FENBUTATIN OXIDE	0	0	100
066441234	FENOXAPROP ETHYL	0	0	100
072490018	FENOXYCARB	0	0	100
039515418	FENPROPATHRIN	0	0	100
000055389	FENTHION	0	0	100
051630581	FENVALERATE	0	0	100
014484641	FERBAM	0	0	100
069806504	FLUAZIFOP BUTYL	0	0	100
002164172	FLUOMETURON	2	52	46
007782414	FLUORINE	2	98	0
000051218	FLUOROURACIL	1	55	44
069409945	FLUVALINATE	0	0	100
000133073	FOLPET	2	20	78
072178020	FOMESAFEN	3	47	50
000050000	FORMALDEHYDE	0	8	92
000064186	FORMIC ACID	0	8	92
000076131	FREON 113	3	96	1
000110009	FURAN	0	0	100
000556525	GLYCIDOL	0	0	100
000076448	HEPTACHLOR	50	1	49
N270	HEXABROMOCYCLODODECANE			
000087683	HEXACHLORO-1,3-BUTADIENE	45	23	32
000118741	HEXACHLOROBENZENE	60	2	38
000077474	HEXACHLOROCYCLOPENTADIENE	44	11	45
000067721	HEXACHLOROETHANE	18	56	26

001335871	HEXACHLORONAPHTHALENE	0	0	100
000070304	HEXACHLOROPHENE	62	1	37
000680319	HEXAMETHYLPHOSPHORAMIDE	0	0	100
051235042	HEXAZINONE	19	16	65
067485294	HYDRAMETHYLNON	53	0	47
000302012	HYDRAZINE	0	15	85
010034932	HYDRAZINE SULFATE	2	98	0
007647010	HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	0	0	100
000074908	HYDROGEN CYANIDE	2	98	0
007664393	HYDROGEN FLUORIDE	2	98	0
007783064	HYDROGEN SULFIDE	0	0	100
000123319	HYDROQUINONE	0	8	92

035554440	IMAZALIL	15	21	64
INVALID	INVALID			
013463406	IRON PENTACARBONYL	0	0	100
000078842	ISOBUTYRALDEHYDE	0	9	91
000465736	ISODRIN	62	1	37
025311711	ISOFENPHOS	0	0	100
000078795	ISOPRENE	0	0	100
000067630	ISOPROPYL ALCOHOL (MANUFACTURING, STRONG-ACID PROCESS ONLY, NO SUPPLIER)	0	0	100
000120581	ISOSAFROLE	7	36	57
077501634	LACTOFEN	31	0	69
007439921	LEAD	63	37	0
N420	LEAD COMPOUNDS	63	37	0
000058899	LINDANE	13	24	63
000330552	LINURON	5	41	54
000554132	LITHIUM CARBONATE	2	98	0
000108394	M-CRESOL	0	8	92
000099650	M-DINITROBENZENE	1	54	45
000108383	M-XYLENE	3	18	79
000121755	MALATHION	1	7	92
000108316	MALEIC ANHYDRIDE	0	0	100
000109773	MALONONITRILE	1	55	44
012427382	MANEB	2	98	0
007439965	MANGANESE	39	61	0
N450	MANGANESE COMPOUNDS	39	61	0
000093652	MECOPROP	5	42	53
000108781	MELAMINE	0	0	100

007439976	MERCURY	69	31	0
N458	MERCURY COMPOUNDS	69	31	0
000150505	MERPHOS	22	0	78
000126987	METHACRYLONITRILE	1	27	72
000137428	METHAM SODIUM	0	27	73
000067561	METHANOL	0	8	92
020354261	METHAZOLE	0	0	100
002032657	METHIOCARB	0	0	100
000094746	METHOXONE	6	39	55
003653483	METHOXONE SODIUM SALT	1	25	74
000072435	METHOXYCHLOR	45	2	53
000096333	METHYL ACRYLATE	0	9	91
000079221	METHYL CHLOROCARBONATE	0	1	99
000078933	METHYL ETHYL KETONE	0	0	100
000060344	METHYL HYDRAZINE	1	25	74
000074884	METHYL IODIDE	1	78	21
000108101	METHYL ISOBUTYL KETONE	0	9	91
000624839	METHYL ISOCYANATE	0	0	100
000556616	METHYL ISOTHIOCYANATE	0	0	100
000080626	METHYL METHACRYLATE	0	10	90
000298000	METHYL PARATHION	2	6	92
001634044	METHYL TERT-BUTYL ETHER	1	60	39
000074953	METHYLENE BROMIDE	1	61	38
000101688	METHYLENEBIS(PHENYLISOCYANATE)	0	0	100
000093152	METHYLEUGENOL	0	0	100
009006422	METIRAM	0	0	100
021087649	METRIBUZIN	1	54	45
007786347	MEVINPHOS	0	0	100
000090948	MICHLER'S KETONE	0	0	100
MIXTURE	MIXTURE	0	0	100
002212671	MOLINATE	0	0	100
001313275	MOLYBDENUM TRIOXIDE	2	98	0
000076153	MONOCHLOROPENTAFLUOROETHANE	1	98	1
000150685	MONURON	0	0	100
000505602	MUSTARD GAS	0	0	100
088671890	MYCLOBUTANIL	9	32	59
000121697	N,N-DIMETHYLANILINE	2	53	45
000068122	N,N-DIMETHYLFORMAMIDE	0	8	92
000071363	N-BUTYL ALCOHOL	0	8	92

000117840	N-DIOCTYL PHTHALATE	0	0	100
000110543	N-HEXANE	9	53	38
000872504	N-METHYL-2-PYRROLIDONE	0	8	92
000924425	N-METHYLOLACRYLAMIDE	0	8	92
000759739	N-NITROSO-N-ETHYLUREA	1	55	44
000684935	N-NITROSO-N-METHYLUREA	1	55	44
000924163	N-NITROSODI-N-BUTYLAMINE	0	0	100
000621647	N-NITROSODI-N-PROPYLAMINE	1	54	45
000055185	N-NITROSODIETHYLAMINE	0	0	100
000062759	N-NITROSODIMETHYLAMINE	0	0	100
000086306	N-NITROSODIPHENYLAMINE	5	42	53
004549400	N-NITROSOMETHYLVINYLAMINE	9	51	40
000059892	N-NITROSOMORPHOLINE	0	0	100
016543558	N-NITROSONORNICOTINE	0	0	100
000100754	N-NITROSOPIPERIDINE	1	55	44
NA	NA			
000142596	NABAM	0	10	90
000300765	NALED	1	25	74
000091203	NAPHTHALENE	4	6	90
007440020	NICKEL	38	62	0
N495	NICKEL COMPOUNDS	38	62	0
N503	NICOTINE AND SALTS	2	98	0
001929824	NITRAPYRIN	7	36	57
N511	NITRATE COMPOUNDS	0	10	90
007697372	NITRIC ACID	0	0	100
000139139	NITRILOTRIACETIC ACID	0	8	92
000098953	NITROBENZENE	0	8	92
001836755	NITROFEN	0	0	100
000051752	NITROGEN MUSTARD	0	0	100
000055630	NITROGLYCERIN	1	24	75
000075525	NITROMETHANE	0	0	100
N530	NONYLPHENOL			
027314132	NORFLURAZON	0	0	100
000090040	O-ANISIDINE	1	25	74
000134292	O-ANISIDINE HYDROCHLORIDE	0	0	100
000095487	O-CRESOL	0	8	92
000528290	O-DINITROBENZENE	1	54	45
000091236	O-NITROANISOLE	0	0	100
000088722	O-NITROTOLUENE	0	0	100

000095534	O-TOLUIDINE	0	94	6
000636215	O-TOLUIDINE HYDROCHLORIDE	1	54	45
000095476	O-XYLENE	3	16	81
002234131	OCTACHLORONAPHTHALENE	62	1	37
029082744	OCTACHLOROSTYRENE	0	0	100
019044883	ORYZALIN	3	49	48
020816120	OSMIUM TETROXIDE	2	98	0
000301122	OXYDEMETON METHYL	0	0	100
019666309	OXYDIAZON	40	3	57
042874033	OXYFLUORFEN	39	3	58
010028156	OZONE	2	98	0
000104949	P-ANISIDINE	0	0	100
000095692	P-CHLORO-O-TOLUIDINE	0	0	100
000106478	P-CHLOROANILINE	1	54	45
000104121	P-CHLOROPHENYL ISOCYANATE	0	0	100
000120718	P-CRESIDINE	1	54	45
000106445	P-CRESOL	0	8	92
000100254	P-DINITROBENZENE	1	54	45
000100016	P-NITROANILINE	1	54	45
000156105	P-NITROSODIPHENYLAMINE	0	0	100
000106503	P-PHENYLENEDIAMINE	1	55	44
000106423	P-XYLENE	3	19	78
000123637	PARALDEHYDE	1	55	44
001910425	PARAQUAT DICHLORIDE	1	55	44
000056382	PARATHION	9	2	89
001114712	PEBULATE	0	0	100
040487421	PENDIMETHALIN	47	1	52
000608935	PENTACHLOROBENZENE	0	0	100
000076017	PENTACHLOROETHANE	6	75	19
000087865	PENTACHLOROPHENOL	54	4	42
000057330	PENTOBARBITAL SODIUM	2	53	45
000079210	PERACETIC ACID	0	8	92
000594423	PERCHLOROMETHYL MERCAPTAN	0	0	100
052645531	PERMETHRIN	38	0	62
000085018	PHENANTHRENE	32	6	62
000108952	PHENOL	0	8	92
000077098	PHENOLPHTHALEIN	0	0	100
026002802	PHENOTHRIN	38	0	62
000057410	PHENYTOIN	2	51	47

000075445	PHOSGENE	0	0	100
007803512	PHOSPHINE	2	98	0
007664382	PHOSPHORIC ACID	0	0	100
007723140	PHOSPHORUS (YELLOW OR WHITE)	60	40	0
000085449	PHTHALIC ANHYDRIDE	0	1	99
001918021	PICLORAM	2	90	8
000088891	PICRIC ACID	1	78	21
000051036	PIPERONYL BUTOXIDE	39	3	58
029232937	PIRIMIPHOS METHYL	0	0	100
N575	POLYBROMINATED BIPHENYLS	0	0	100
N583	POLYCHLORINATED ALKANES	0	0	100
001336363	POLYCHLORINATED BIPHENYLS	61	1	38
N590	POLYCYCLIC AROMATIC COMPOUNDS	92	7	1
007758012	POTASSIUM BROMATE	2	98	0
000128030	POTASSIUM DIMETHYLDITHIOCARBAMATE	1	28	71
000137417	POTASSIUM N-METHYLDITHIOCARBAMATE	0	27	73
041198087	PROFENOFOS	0	0	100
007287196	PROMETRYN	11	56	33
023950585	PRONAMIDE	10	30	60
001918167	PROPACHLOR	1	24	75
001120714	PROPANE SULTONE	1	29	70
000709988	PROPANIL	4	44	52
002312358	PROPARGITE	42	44	14
000107197	PROPARGYL ALCOHOL	0	8	92
031218834	PROPETAMPHOS	0	0	100
060207901	PROPICONAZOLE	9	32	59
000123386	PROPIONALDEHYDE	0	9	91
000114261	PROPOXUR	0	8	92
000115071	PROPYLENE	0	91	9
000075569	PROPYLENE OXIDE	0	9	91
000075558	PROPYLENEIMINE	1	25	74
000110861	PYRIDINE	0	8	92
000091225	QUINOLINE	1	24	75
000106514	QUINONE	1	59	40
000082688	QUINTOZENE	43	11	46
076578148	QUIZALOFOP-ETHYL	0	0	100
010453868	RESMETHRIN	0	0	100
000078488	S,S,S-TRIBUTYLTRITHIOPHOSPHATE	37	0	63

000081072	SACCHARIN (MANUFACTURING, NO SUPPLIER NOTIFICATION)	1	25	74
000094597	SAFROLE	8	34	58
000078922	SEC-BUTYL ALCOHOL	0	8	92
007782492	SELENIUM	44	56	0
N725	SELENIUM COMPOUNDS	44	56	0
074051802	SETHOXYDIM	0	0	100
007440224	SILVER	66	34	0
N740	SILVER COMPOUNDS	66	34	0
000122349	SIMAZINE	2	77	21
026628228	SODIUM AZIDE	2	98	0
001982690	SODIUM DICAMBA	1	53	46
000128041	SODIUM DIMETHYLDITHIOCARBAMATE	1	28	71
000062748	SODIUM FLUOROACETATE	1	25	74
001310732	SODIUM HYDROXIDE (SOLUTION)	0	0	100
007632000	SODIUM NITRITE	2	98	0
000132274	SODIUM O-PHENYLPHENOXIDE	0	0	100
000131522	SODIUM PENTACHLOROPHENATE	0	0	100
007757826	SODIUM SULFATE (SOLUTION)	0	0	100
N746	STRYCHNINE AND SALTS	2	98	0
000100425	STYRENE	2	13	85
000096093	STYRENE OXIDE	1	25	74
007664939	SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY)	0	0	100
002699798	SULFURYL FLUORIDE	2	98	0
035400432	SULPROFOS	0	0	100
034014181	TEBUTHIURON	2	77	21
003383968	TEMEPHOS	38	0	62
005902512	TERBACIL	0	0	100
000100210	TEREPHTHALIC ACID	0	0	100
000075650	TERT-BUTYL ALCOHOL	1	55	44
000079947	TETRABROMOBISPHENOL A	0	0	100
000127184	TETRACHLOROETHYLENE	6	87	7
000961115	TETRACHLORVINPHOS	7	11	82
000064755	TETRACYCLINE HYDROCHLORIDE	1	55	44
000116143	TETRAFLUOROETHYLENE	0	0	100
007696120	TETRAMETHRIN	0	0	100
000509148	TETRANITROMETHANE	0	0	100
007440280	THALLIUM	54	46	0
N760	THALLIUM COMPOUNDS	54	46	0

000148798	THIABENDAZOLE	2	51	47
000062555	THIOACETAMIDE	1	55	44
028249776	THIOBENCARB	8	35	57
059669260	THIODICARB	1	24	75
023564069	THIOPHANATE ETHYL	0	0	100
023564058	THIOPHANATE-METHYL	1	25	74
000079196	THIOSEMICARBAZIDE	1	55	44
000062566	THIOUREA	1	25	74
000137268	THIRAM	1	24	75
001314201	THORIUM DIOXIDE	90	10	0
013463677	TITANIUM DIOXIDE	0	0	100
007550450	TITANIUM TETRACHLORIDE	2	98	0
000108883	TOLUENE	1	23	76
026471625	TOLUENE DIISOCYANATE (MIXED ISOMERS)	2	1	97
000584849	TOLUENE-2,4-DIISOCYANATE	2	1	97
000091087	TOLUENE-2,6-DIISOCYANATE	2	1	97
008001352	TOXAPHENE	62	1	37
TRD SECRT	TRADE SECRET CHEMICAL	0	0	100
010061026	TRANS-1,3-DICHLOROPROPENE	1	31	68
000110576	TRANS-1,4-DICHLORO-2-BUTENE	2	27	71
043121433	TRIADIMEFON	3	48	49
002303175	TRIALLATE	35	5	60
000068768	TRIAZIQUONE	0	0	100
101200480	TRIBENURON METHYL	2	22	76
001983104	TRIBUTYLTIN FLUORIDE	0	0	100
002155706	TRIBUTYLTIN METHACRYLATE	0	0	100
000052686	TRICHLORFON	0	8	92
000076028	TRICHLOROACETYL CHLORIDE	0	0	100
000079016	TRICHLOROETHYLENE	1	93	6
000075694	TRICHLOROFLUOROMETHANE	1	98	1
057213691	TRICLOPYR TRIETHYLAMMONIUM SALT	1	25	74
000121448	TRIETHYLAMINE	1	56	43
001582098	TRIFLURALIN	57	3	40
026644462	TRIFORINE	0	0	100
000639587	TRIPHENYLTIN CHLORIDE	0	0	100
000076879	TRIPHENYLTIN HYDROXIDE	14	86	0
000126727	TRIS(2,3-DIBROMOPROPYL) PHOSPHATE	0	0	100
000072571	TRYPAN BLUE	1	55	44

000051796	URETHANE	1	55	44
007440622	VANADIUM (EXCEPT WHEN CONTAINED IN AN ALLOY)	32	68	0
N770	VANADIUM COMPOUNDS	32	68	0
050471448	VINCLOZOLIN	0	0	100
000108054	VINYL ACETATE	0	11	89
000593602	VINYL BROMIDE	0	0	100
000075014	VINYL CHLORIDE	0	92	8
000075025	VINYL FLUORIDE	0	0	100
000075354	VINYLIDENE CHLORIDE	1	91	8
N874	WARFARIN AND SALTS	3	97	0
001330207	XYLENE (MIXED ISOMERS)	3	17	80
007440666	ZINC (FUME OR DUST)	66	34	0
N982	ZINC COMPOUNDS	66	34	0
012122677	ZINEB	0	2	98

Appendix G: Codes for Off-Site Waste Management

Disposal
M10 Storage Only
M41 Solidification/Stabilization - Metals and Metal Category Compounds only
M62 Wastewater Treatment (Excluding POTW) - Metals and Metal Category Compounds only M64 Other Landfills
M65 RCRA Subtitle C Landfills
M66 Subtitle C Surface Impoundments
M67 Other Surface Impoundments
M73 Land Treatment
M79 Other Land Disposal
M81 Underground Injection to Class I Wells
M82 Underground Injection to Class II-V Wells
M90 Other Off-Site Management
M94 Transfer to Waste Broker - Disposal
M99 Management Method Unknown

Treatment
M40 Solidification/Stabilization
M50 Incineration/Thermal Treatment
M54 Incineration/Insignificant Fuel Value
M61 Wastewater Treatment (Excluding POTW)
M69 Other Waste Treatment
M95 Transfer to Waste Broker - Waste Treatment

Energy Recovery
M56 Energy Recovery
M92 Transfer to Waste Broker - Energy Recovery

Recycling
M20 Solvents/Organics Recovery
M24 Metals Recovery – Metals and Metal Category Compounds only
M26 Other Reuse or Recovery
M28 Acid Regeneration
M93 Transfer to Waste Broker – Recycling

Appendix H: On-Site Energy Recovery Process Codes

Code	Definition

U01	Industrial Kiln
U02	Industrial Furnace
U03	Industrial Boiler
U09	Other Energy Recovery Methods
INV	Invalid
NA	Not Applicable

Appendix I: On-Site Recycling Process Codes

In Reporting Year (RY) 2005, EPA reduced the number of Section 7C recycling codes 16 to 3. The 3 new codes introduced in RY 2005 were the 'H' codes (H10, H20 and H39). The 'R' codes (R11-R99) were retired and replaced by 'H' codes. Even though the switch to the new 'H' codes was made in RY 2005, a small number (less than 50 per year) of 'R' codes were reported in years 2005 to 2010. These strays were due to facilities reporting on paper forms on which enforcing data quality checking was more difficult.

Below is the list of all codes and definitions that have appeared in section 7C. For the 'R' codes, which were retired in RY 2005, an indication of the new corresponding 'H' codes also appears.

All Section 7C: On-site Recycling Process Codes

Code	Definition
H10	Metal recovery (by retorting, smelting, or chemical or physical extraction)
H20	Solvent recovery (including distillation, evaporation, fractionation, or extraction)
H39	Other recovery or reclamation for reuse (including acid regeneration or other chemical reaction process)
R11	Solvents/Organics Recovery – Batch Still Distillation
R12	Solvents/Organics Recovery – Thin-Film Evaporation
R13	Solvents/Organics Recovery – Fractionation
R14	Solvents/Organics Recovery – Solvent Extraction
R19	Solvents/Organics Recovery – Other
R21	Metals Recovery – Electrolytic
R22	Metals Recovery – Ion Exchange
R23	Metals Recovery – Acid Leaching
R24	Metals Recovery – Reverse Osmosis
R26	Metals Recovery – Solvent Extraction

R27	Metals Recovery – High Temperature
R28	Metals Recovery – Retorting
R29	Metals Recovery – Second Smelting
R30	Metals Recovery – Other
R40	Acid Regeneration
R99	Other Reuse or Recovery
INV	Invalid Code
NA	Not Applicable

Crosswalk for Section 7C – On-site Recycling Process Codes

Previous Code	Definition	New Code	Definition
R11	Solvents/Organics Recovery – Batch Still Distillation	H20	Solvent recovery (including distillation, evaporation, fractionation, or extraction)
R12	Solvents/Organics Recovery – Thin- Film Evaporation	H20	Solvent recovery (including distillation, evaporation, fractionation, or extraction)
R13	Solvents/Organics Recovery – Fractionation	H20	Solvent recovery (including distillation, evaporation, fractionation, or extraction)
R14	Solvents/Organics Recovery – Solvent Extraction	H20	Solvent recovery (including distillation, evaporation, fractionation, or extraction)
R19	Solvents/Organics Recovery – Other	H20	Solvent recovery (including distillation, evaporation, fractionation, or extraction)
R21	Metals Recovery – Electrolytic	H10	Metal recovery (by retorting, smelting, or chemical or physical extraction)
R22	Metals Recovery – Ion Exchange	H10	Metal recovery (by retorting, smelting, or chemical or physical extraction)
R23	Metals Recovery – Acid Leaching	H10	Metal recovery (by retorting, smelting, or chemical or physical extraction)

R24	Metals Recovery – Reverse Osmosis	H10	Metal recovery (by retorting, smelting, or chemical or physical extraction)
R26	Metals Recovery – Solvent Extraction	H10	Metal recovery (by retorting, smelting, or chemical or physical extraction)
R27	Metals Recovery – High Temperature	H10	Metal recovery (by retorting, smelting, or chemical or physical extraction)
R28	Metals Recovery – Retorting	H10	Metal recovery (by retorting, smelting, or chemical or physical extraction)
R29	Metals Recovery – Second Smelting	H10	Metal recovery (by retorting, smelting, or chemical or physical extraction)
R30	Metals Recovery – Other	H10	Metal recovery (by retorting, smelting, or chemical or physical extraction)
R40	Acid Regeneration	H39	Other recovery or reclamation for reuse (including acid regeneration or other chemical reaction process)
R99	Other Reuse or Recovery	H39	Other recovery or reclamation for reuse (including acid regeneration or other chemical reaction process)