TOXICS RELEASE INVENTORY (TRI)

BASIC PLUS DATA FILES DOCUMENTATION

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

Updated for RY 2017

July 2018

OVERVIEW OF TRI BASIC PLUS DATA FILES

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

File	Example	Description of Contents	Form R/Form A Reference
Type 1	CA_1_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_1_2017.txt" contains facility, chemical identification, chemical use, on-site release and waste management, off-site transfer and summary information (File Type 1) 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_1_2017.txt, FED_2A_2017.txt, etc.) contain TRI data for all government-owned-and-operated federal sites. The National files (US_1_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 1" 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 1 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 1 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	3	Activities and Uses of the Toxic Chemical
II	4	Maximum Quantity of the Chemical On-site at any one time
II	5	On-site Release data – Amounts Released and Water Bodies released into
II	6.1.A	Total Transfer Quantity to Publicly Owned Treatment Works
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

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 1 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 C - Persistent Bioaccumulative Toxics (PBTs).

HELPFUL RESOURCES FOR USERS OF DOWNLOADABLE DATA FILES

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

FILE TYPE 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	The calendar year in which the reported activities occurred. *Source:* **TRI_REPORTING_FORM.**REPORTING_YEAR *Reference:* Part I, Section 1
3	TRADE SECRET INDICATOR	C	Indicates whether the reporting facility claims the identity of the chemical or chemical category as a trade secret. Yes = Checked (Trade Secret) No = Not checked Note: Only sanitized trade secret submissions are stored in the TRI database. *Source:* **TRI_REPORTING_FORM.**TRADE_SECRET_IND *Reference*: Part I, Section 2.1
4	SANITIZED INDICATOR	C	Indicates whether the reporting facility has sanitized trade secret information. 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	The corporate title of senior official certifying the accuracy and completeness of information on the submission. *Source:* **TRI_REPORTING_FORM.**CERTIF_OFFICIAL_TITLE *Reference:* Part I, Section 3
6	NAME OF CERTIFYING OFFICIAL	C	The name of the senior official certifying the accuracy and completeness of the information on the submission. *Source:* **TRI_REPORTING_FORM.**CERTIF_NAME *Reference:* Part I, Section 3
7	CERTIFYING OFFICIAL'S SIGNATURE INDICATOR	C	Indicates whether the certifying official's signature is provided. Possible values are: Original = original signature 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 signature. The format is YY-MM-DD. *Source*: **TRI_REPORTING_FORM.**CERTIF_DATE_SIGNED *Reference:* Part I, Section 3

No.	Field Name	Type	Description
9	TRIFD	C	TRI facility identification in the format zzzzznnnnnssss, where usually zzzzz = facility zip code, nnnnn = first five consonants of the name, and sssss = first five non-specific characters in the street address. The three sections of the format were separated by hyphens prior to RY 2006. **NOTE:** *The content of this field is **not** changed to match facility ownership, or zip code changes. Rather, the TRI Facility ID identifies a specific geographical location which is also identified by the latitude and longitude of that location.* *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 the facility is on. *Source:* **TRI_FACILITY.**BIA_TRIBAL_CODE
17	TRIBE NAME	C	The name of the Tribe. *Source:* **V_INDIAN_COUNTRY.**
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	State 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

No.	Field Name	Type	Description
			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	Indicates 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	Indicates whether the information covers an entire facility or part of a facility. Yes = partial No = entire *Source:* **TRI_REPORTING_FORM.**PARTIAL_FAC *Reference:* Part I, Section 4.2b
26	FEDERAL FACILITY IND	C	Code indicating whether a facility is a federal facility or not. Reported by the facility. Yes = Federal No = non-Federal Value *Source:* **TRI_REPORTING_FORM.**FEDERAL_FAC_IND *Reference:* Part I Section 4.2c
27	GOCO FACILITY IND	C	Code indicating whether a facility is GOCO (Government-Owned, Contractor-Operated) facility or not: Yes = GOCO No = non-GOCO *Source:* **TRI_REPORTING_FORM.**GOCO_FLAG *Reference:* Part I Section 4.2d
28	ASSIGNED FED. FACILITY FLAG	C	Code indicating whether the facility is federally owned or not. Assigned by TRI. Yes = Federal No = Non-Federal *Reference:* **TRI_FACILITY.** ASGN_FEDERAL
29	PUBLIC CONTACT NAME	C	Name of the individual whom the public may contact if clarification of data is needed. *Source:* **TRI_REPORTING_FORM.**PUBLIC_ CONTACT_PERSON *Reference:* Part I, Section 4.4
30	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
31	PUBLIC CONTACT PHONE EXT	C	Phone extension of the public contact *Source:* **TRI_REPORTING_FORM.**PUBLIC_PHONE_EXT *Reference:* Part I, Section 4.4
32	PUBLIC CONTACT EMAIL	C	Email address of the designated individual whom the public may contact if clarification of the facility's reported data is needed. *Source:* **TRI_REPORTING_FORM.**PUBLIC_CONTACT_PERSON_EMAIL

No.	Field Name	Type	Description
			Reference: Part I, Section 4.4
33	PRIMARY SIC CODE	C	Primary four-digit Standard Industrial Classification (SIC) code. SIC codes reported by facilities from RY 1987 through 2005. *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* primary_ind = '1' *Reference:* Part I, Section 4.5a
34	SIC CODE 2	C	Second four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005. *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = '2' *Reference:* Part I, Section 4.5b
35	SIC CODE 3	C	Third four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005. *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = '3' *Reference:* Part I, Section 4.5c
36	SIC CODE 4	C	Fourth four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005. *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = '4' *Reference:* Part I, Section 4.5d
37	SIC CODE 5	C	Fifth four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005. *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = '5' *Reference:* Part I, Section 4.5e
38	SIC CODE 6	C	Sixth four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005. *Source:* **TRI_SUBMISSION_SIC.**SIC_CODE *Where:* sic_sequence_num = '6' *Reference:* Part I, Section 4.5f
39	NAICS ORIGIN	C	Indicates whether North American Industry Classification System (NAICS) codes were reported or assigned. R = Reported A = Assigned
40	PRIMARY NAICS CODE	C	Primary six-digit North American Standard Industry Classification System (NAICS) code. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. See Appendix E – "NAICS Codes Assignments" for more details. *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* primary_ind = '1' *Reference:* Part I, Section 4.5a

No.	Field Name	Type	Description
41	NAICS CODE 2	C	Second six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '2' *Reference:* Part I, Section 4.5b
42	NAICS CODE 3	C	Third six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '3' *Reference:* Part I, Section 4.5b
43	NAICS CODE 4	C	Forth six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '4' *Reference:* Part I, Section 4.5b
44	NAICS CODE 5	C	Fifth six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '5' *Reference:* Part I, Section 4.5b
45	NAICS CODE 6	C	Sixth six-digit North American Standard Industry Classification System (NAICS) code entered by facility. NAICS codes reported by facilities from RY 2006 to present. NAICS codes in prior years were assigned by EPA. *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE *Where:* naics_sequence_num = '6' *Reference:* Part I, Section 4.5b
46	LATITUDE	N	The latitude value that best represents the facility according to EPA's Facility Registry System (FRS). In RY 2005, EPA stopped collecting the latitude value and began obtaining it from FRS. Format: signed 2-digit whole number, 6 digit decimal positions (+nn.nnnnnn). *Source:* **EPA's Facility Registry System**
47	LONGITUDE	N	The longitude value that best represents the facility according to EPA's Facility Registry System (FRS). In 2005, TRI stopped collecting the longitude value and began obtaining it from FRS. Format: signed 3-digit whole number, 6 digit decimal positions (+nnn.nnnnnn). *Source:* **EPA's Facility Registry System**
48	D&B NR A	C	Unique identification number assigned by Dun and Bradstreet to the reporting facility.

No.	Field Name	Type	Description
			Source: **TRI_FACILITY_DB.**DB_NUM *Reference:* Part I, Section 4.7a
49	D&B NR B	C	Unique identification number assigned by Dun and Bradstreet to the reporting facility. *Source:* **TRI_FACILITY_DB.**DB_NUM *Reference:* Part I, Section 4.7b
50	RCRA NR A	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. *Source:* **EPA's Facility Registry System**
51	RCRA NR B	C	Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs on the Reporting Form R. *Source:* **EPA's Facility Registry System**
52	NPDES NR A	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2006, TRI stopped collecting NPDES IDs on the Reporting Form R. *Source:* **EPA's Facility Registry System**
53	NPDES NR B	C	Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2006, TRI stopped collecting NPDES IDs on the Reporting Form R. *Source:* **EPA's Facility Registry System**
54	UIC NR A	C	Underground injection identification number, assigned by EPA or the state, to a facility. In RY 2006, TRI stopped collecting UIC IDs on the Reporting Form R. *Source:* **EPA's Facility Registry System**
55	UIC NR B	C	Underground injection identification number, assigned by EPA or the state, to a facility. In RY 2006, TRI stopped collecting UIC IDs on the Reporting Form R. *Source:* **EPA's Facility Registry System**
56	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
57	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
58	STANDARDIZED _PARENT COMPANY NAME	C	Standardized Parent Company Name assigned by TRI. Source: **TRI_FACILITY.**STANDARDIZED_PARENT_COMPANY
59	DOCUMENT CONTROL NUMBER	C	Unique identification number assigned to each TRI submission by EPA. Format: TTYYMMMNNNNNC, where TT = document type YY = reporting year MMM = document type NNNNN= sequential number

No.	Field Name	Type	Description
			C = check digit *Source:* **TRI_REPORTING_FORM.**DOC_CTRL_NUM *Reference:* NA (System-generated)
60	CAS NUMBER	C	Chemical Abstracts Service (CAS) Registry Number for unique chemical, or category code (for compounds). **NOTE:** *CAS number 999999999 is for sanitized trade secret submissions; CHEM_NAME displays the reported generic chemical name.* *Source:* **TRI_REPORTING_FORM.**TRI_CHEM_ID *Reference:* Part II, Section 1.1
61	CHEMICAL NAME	----	Name of the chemical 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
62	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 DIOXIN = Dioxin or Dioxin-like compound *Source:* **TRI_CHEM_INFO.**CLASSIFICATION *Reference:* NONE
63	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
64	METAL_IND	C	Code indicating whether the chemical is a metal or not. Yes = Metal No = Non-Metal See "Appendix B -Chemical Classifications – Metals" for a list of TRI Chemical metals. *Source:* **TRI_CHEM_INFO.**Metal_Ind
65	REVISION CODE 1	C	If the facility revised its original TRI reporting form for this chemical, this code indicates the reason for the revision. Values: RR1 = New Monitoring Data RR2 = New Emission Factors RR3 = New Chemical Concentration Data RR4 = Recalculation(s) RR5 = Other Reason(s) *Source:* **TRI_REPORTING_FORM.**Revision_Code_
66	REVISION CODE 2	C	If the facility revised its original TRI reporting form for this chemical, this code indicates the reason for the revision. Values: RR1 = New Monitoring Data

No.	Field Name	Type	Description
			RR2 = New Emission Factors RR3 = New Chemical Concentration Data RR4 = Recalculation(s) RR5 = Other Reason(s) *Source:* **TRI_REPORTING_FORM.**Revision_Code_
67	DIOXIN DISTRIBUTION 1	N	Indicates the percentage of 1,2,3,4,6,7,8 Heptachlorodibenzofuran (CAS # 67562-39-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_1 *Reference:* Part II, Section 1.4
68	DIOXIN DISTRIBUTION 2	N	Indicates the percentage of 1,2,3,4,7,8,9 Heptachlorodibenzofuran (CAS # 55673-89-7) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_2 *Reference:* Part II, Section 1.4
69	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). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_3 *Reference:* Part II, Section 1.4
70	DIOXIN DISTRIBUTION 4	N	Indicates the percentage of 1,2,3,6,7,8 Hexachlorodibenzofuran (CAS # 57117-44-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_4 *Reference:* Part II, Section 1.4
71	DIOXIN DISTRIBUTION 5	N	Indicates the percentage of 1,2,3,7,8,9 Hexachlorodibenzofuran (CAS # 72918-21-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_5 *Reference:* Part II, Section 1.4
72	DIOXIN DISTRIBUTION 6	N	Indicates the percentage of 2,3,4,6,7,8

No.	Field Name	Type	Description
			Hexachlorodibenzofuran (CAS # 60851-34-5) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_6 *Reference:* Part II, Section 1.4
73	DIOXIN DISTRIBUTION 7	N	Indicates the percentage of 1,2,3,4,7,8 Hexachlorodibenzo-p-dioxin (CAS # 39227-28-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_7 *Reference:* Part II, Section 1.4
74	DIOXIN DISTRIBUTION 8	N	Indicates the percentage of 1,2,3,6,7,8 Hexachlorodibenzo- p-dioxin (CAS # 5765385-7) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0. and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_8 *Reference:* Part II, Section 1.4
75	DIOXIN DISTRIBUTION 9	N	Indicates the percentage of 1,2,3,7,8,9 Hexachlorodibenzo-p-dioxin (CAS # 19408-74-3) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_9 *Reference:* Part II, Section 1.4
76	DIOXIN DISTRIBUTION 10	N	Indicates the percentage of 1,2,3,4,6,7,8 Heptachlorodibenzo-p-dioxin (CAS # 35822-46-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_10 *Reference:* Part II, Section 1.4
77	DIOXIN DISTRIBUTION 11	N	Indicates the percentage of 1,2,3,4,6,7,8,9 Octachlorodibenzofuran (CAS # 39001-02-0) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_11 *Reference:* Part II, Section 1.4
78	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

No.	Field Name	Type	Description
			and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_12 *Reference:* Part II, Section 1.4
79	DIOXIN DISTRIBUTION 13	N	Indicates the percentage of 1,2,3,7,8 Pentachlorodibenzofuran (CAS # 57117-41-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_13 *Reference:* Part II, Section 1.4
80	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). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_14 *Reference:* Part II, Section 1.4
81	DIOXIN DISTRIBUTION 15	N	Indicates the percentage of 1,2,3,7,8 Pentachlorodibenzo-p-dioxin (CAS # 40321-76-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_15 *Reference:* Part II, Section 1.4
82	DIOXIN DISTRIBUTION 16	N	Indicates the percentage of 2,3,7,8 Tetrachlorodibenzofuran (CAS # 51207-31-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_16 *Reference:* Part II, Section 1.4
83	DIOXIN DISTRIBUTION 17	N	Indicates the percentage of 2,3,78 Tetrachlorodibenzo-p-dioxin (CAS # 01746-01-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix D - Dioxin and Dioxin-like Compound Data for more information. *Source:* **TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_17 *Reference:* Part II, Section 1.4
84	PRODUCE THE CHEMICAL	C	Indicates whether the chemical is produced at this facility. Yes = produced here No = not produced here *Source:* **TRI_CHEM_ACTIVITY.**PRODUCE

No.	Field Name	Type	Description
			Reference: Part II, Section 3.1a
85	IMPORT THE CHEMICAL	C	Indicates whether the chemical is imported at this facility. Yes = imported No = not imported *Source:* **TRI_CHEM_ACTIVITY.**IMPORTED *Reference:* Part II, Section 3.1b
86	ON-SITE USE OF THE CHEMICAL	C	Indicates whether the chemical is produced or imported on site for use at this facility. Yes = on-site use No = not used on-site *Source:* **TRI_CHEM_ACTIVITY.**USED_PROCESSED *Reference:* Part II, Section 3.1c
87	SALE OR DISTRIBUTION OF THE CHEMICAL	C	Indicates whether the chemical is produced or imported at this facility for sale or distribution. Yes = imported for sale No = not imported for sale *Source:* **TRI_CHEM_ACTIVITY.**SALE_DISTRIBUTION *Reference:* Part II, Section 3.1d
88	AS A BYPRODUCT	C	Indicates whether the chemical is produced or imported at this facility as a byproduct. Yes = byproduct No = not byproduct *Source:* **TRI_CHEM_ACTIVITY.**BYPRODUCT *Reference:* Part II, Section 3.1e
89	AS A MANUFACTURED IMPURITY	C	Indicates whether the chemical is produced or imported at this facility as an impurity. Formerly known as "AS AN IMPURITY" in RY 1999. Yes = impurity No = not impurity *Source:* **TRI_CHEM_ACTIVITY.**MANUFACTURE_IMPURITY *Reference:* Part II, Section 3.1f
90	USED AS A REACTANT	C	Indicates whether the chemical is used at this facility as a reactant. Yes = reactant No = not reactant *Source:* **TRI_CHEM_ACTIVITY.**REACTANT *Reference:* Part II, Section 3.2a
91	ADDED AS A FORMULATION COMPONENT	C	Indicates whether the facility adds the reported chemical to a product or product mixture prior to further distribution of the product to act as a performance enhancer during the use of the product. Yes = formulation component No = not formulation component *Source:* **TRI_CHEM_ACTIVITY.**FORMULATION_COMPONENT *Reference:* Part II, Section 3.2b
92	USED AS AN ARTICLE COMPONENT	C	Indicates whether the facility uses the reported chemical as an integral component of an article distributed for industrial, trade, or consumer use. Yes = integral component

No.	Field Name	Type	Description
			No = not integral component *Source:* **TRI_CHEM_ACTIVITY.**ARTICLE_COMPONENT *Reference:* Part II, Section 3.2c
93	REPACKAGING	C	Indicates whether the chemical is processed at this facility for distribution in commerce in a different state, or quantity. Yes = repackaged No = not repackaged *Source:* **TRI_CHEM_ACTIVITY.**REPACKAGING *Reference:* Part II, Section 3.2d
94	AS A PROCESS IMPURITY	C	Indicates whether the facility processed the reported chemical but did not separate it and it remains as an impurity in the mixture or trade name product. Yes = Process Impurity No = Not a Process Impurity *Source:* **TRI_CHEM_ACTIVITY.**PROCESS_IMPURITY *Reference:* Part II, Section 3.2e
95	USED AS A CHEMICAL PROCESSING AID	C	Indicates whether the chemical is used at this facility as a chemical processing aid by adding the reported chemical to a reaction mixture to aid in the manufacture or synthesis of another chemical substance without intending for it to remain as a part of the mixture. Yes = processing aid No = not a processing aid *Source:* **TRI_CHEM_ACTIVITY.**CHEM_PROCESSING_AID *Reference:* Part II, Section 3.3a
96	USED AS A MANUFACTURING AID	C	Indicates whether the chemical is used at this facility to aid the manufacturing process, without intending for it to be part of the resulting product or the reaction mixture, during the manufacture or synthesis of another chemical substance. Yes = manufacturing aid No = not a manufacturing aid *Source:* **TRI_CHEM_ACTIVITY.**MANUFACTURE *Reference:* Part II, Section 3.3b
97	ANCILLARY OR OTHER USE	C	Indicates whether the chemical is used at this facility for purposes other than aiding chemical processing or manufacturing. Includes, but not limited to, cleaners, degreasers, lubricants, fuels, and chemicals used for treating wastes. Yes = for ancillary or other use No = not for ancillary or other use *Source:* **TRI_CHEM_ACTIVITY.**ANCILLARY *Reference:* Part II, Section 3.3c
98	MAXIMUM AMOUNT ON SITE	C	This code corresponds to a numerical range that indicates the maximum quantity of the chemical present on site at the facility at any time during the calendar year. (This includes the sum of all on-site locations within any reporting facility. *Source:* **TRI_REPORTING_FORM.**MAX_AMOUNT_OF_CHEM *Reference:* Part II, Section 4.1

No.	Field Name	Type	Description
99	FUGITIVE AIR EMISSIONS – TOTAL RELEASE POUNDS	N	An estimate of the total quantity of the toxic chemical released as fugitive air emissions at the reporting facility. Range codes may be used for releases of less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR FUG' *Reference:* Part II, Section 5.1.A
100	FUGITIVE AIR EMISSIONS – TOTAL RELEASE RANGE CODE	C	For fugitive air emissions of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
101	TOTAL FUGITIVE AIR EMISSIONS	N	System-generated total fugitive air emissions quantity. If the field FUGITIVE AIR EMISSIONS – TOTAL RELEASE POUNDS (#99) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field FUGITIVE AIR EMISSIONS – TOTAL RELEASE RANGE CODE (#100) is used for the total fugitive air emissions value. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR FUG' *Reference:* None
102	FUGITIVE AIR EMISSIONS - BASIS OF ESTIMATE	C	A code indicating the principal method by which the estimate of total fugitive air emissions was calculated. 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
103	STACK AIR EMISSIONS – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released as stack air emissions at the reporting facility. Range codes may be used for releases of less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR STACK' *Reference:* Part II, Section 5.2.A
104	STACK AIR EMISSIONS – RELEASE RANGE CODE	C	For stack air emissions of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds *Source:* **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE

No.	Field Name	Type	Description
			Where: ENVIRONMENTAL_MEDIUM = 'AIR STACK' *Reference:* Part II, Section 5.2.A
105	TOTAL STACK AIR EMISSIONS	N	System-generated total stack air emissions quantity. If the field STACK AIR EMISSIONS – RELEASE POUNDS (#103) is not blank, its contents are used as the total. If blank, the middle of the range indicated in the field STACK AIR EMISSIONS – RELEASE RANGE CODE (#104) is used for the total stack air emissions value. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'AIR STACK' *Reference:* None
106	STACK AIR EMISSIONS - BASIS OF ESTIMATE	C	A code indicating the principal method by which the estimate of total stack air emissions was calculated. 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
107	TOTAL AIR EMISSIONS	N	System-generated value calculated by adding the contents of the TOTAL FUGITIVE AIR EMISSIONS (#101) and TOTAL STACK AIR EMISSIONS (#105). *Source:* **TRI_FORM_TOTALS**.TOTAL_AIR_RELEASE *Reference:* None
108	DISCHARGES TO STREAM A - STREAM NAME	C	The name of the first receiving stream or water body as it appears on the NPDES permit for the facility. *Source:* **TRI_WATER_STREAM.**STREAM_NAME *Reference:* Part II, Section 5.3.1
109	DISCHARGES TO STREAM A - RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into the stream or water body from the reporting facility. Range codes may be used for releases less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.1.A
110	DISCHARGES TO STREAM A - RELEASE RANGE CODE	C	For surface water discharges of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
111	TOTAL DISCHARGES TO STREAM A	N	System-generated quantity of total surface water discharges to the first reported stream/water body. If the field DISCHARGES STREAM A – RELEASE POUNDS (#109) is not

No.	Field Name	Type	Description
			blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field DISCHARGES TO STREAM A – RELEASE RANGE CODE (#110) is used as the value for total discharges to stream A. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* None
112	DISCHARGES TO STREAM A – BASIS OF ESTIMATE	C	A code indicating the principal method by which the estimate of total surface water dischargers to Stream A was calculated. 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
113	DISCHARGES TO STREAM A - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to water 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
114	DISCHARGES TO STREAM B – STREAM NAME	C	The name of the second receiving stream or water body reported as it appears on the NPDES permit for the facility. *Source:* **TRI_WATER_STREAM.**STREAM_NAME *Reference:* Part II, Section 5.3.2
115	DISCHARGES TO STREAM B – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into the stream or water body from the reporting facility. Range codes may be used for releases less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.2.A
116	DISCHARGES TO STREAM B - RELEASE RANGE CODE	C	For surface water discharges of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
117	TOTAL DISCHARGES TO STREAM B	N	System-generated quantity of total surface water discharges to the second reported stream/water body. If the field DISCHARGE STREAM B – RELEASE POUNDS (#115) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field DISCHARGES TO STREAM B – RELEASE RANGE CODE (# 116) is used as the value for total surface water discharges to Stream B.

No.	Field Name	Type	Description
			Source: **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* None
118	DISCHARGES TO STREAM B – BASIS OF ESTIMATE	C	A code indicating the principal method by which the estimate of total surface water discharges to Stream B was calculated. 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 5.3.2.B
119	DISCHARGES TO STREAM B – % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to water 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
120	DISCHARGES TO STREAM C – STREAM NAME	C	The name of the third receiving stream or water body reported as it appears on the NPDES permit for the facility. *Source:* **TRI_WATER_STREAM.**STREAM_NAME *Reference:* Part II, Section 5.3.3
121	DISCHARGES TO STREAM C – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into the stream or water body from the reporting facility. Range codes may be used for releases less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3.3.A
122	DISCHARGES TO STREAM C – RELEASE RANGE CODE	C	For surface water discharges of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
123	TOTAL DISCHARGES TO STREAM C	N	System-generated total release to the third reported stream or water body in pounds/year. If the field DISCHARGES STREAM C – RELEASE POUNDS (# 121) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field DISCHARGES TO STREAM C – RELEASE RANGE CODE (#122) is used as the value for total surface water discharges to Stream C. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* None

No.	Field Name	Type	Description
124	DISCHARGES TO STREAM C – BASIS OF ESTIMATE	C	A code indicating the principal method by which the estimate of total surface water discharges to Stream C was calculated. 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
125	DISCHARGES TO STREAM C - % FROM STORMWATER	N	Percentage of the total quantity (by weight) of the chemical released to water 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
126	DISCHARGES TO STREAM D – STREAM NAME	C	Name of the fourth receiving stream or waterbody reported as it appears on the NPDES permit for the facility. *Source:* **TRI_WATER_STREAM.**STREAM_NAME *Reference:* Part II, Section 5.3
127	DISCHARGES TO STREAM D – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into the stream or water body from the reporting facility. Range codes may be used for releases less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
128	DISCHARGES TO STREAM D – RELEASE RANGE CODE	C	For surface water discharges of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
129	TOTAL DISCHARGES TO STREAM D	N	System-generated total release to the forth reported stream or water body in pounds/year. If the field DISCHARGES STREAM D – RELEASE POUNDS (# 127) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field DISCHARGES TO STREAM D – RELEASE RANGE CODE (#128) is used as the value for total surface water discharges to Stream D. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* None
130	DISCHARGES TO STREAM D – BASIS OF ESTIMATE	C	A code indicating the principal method by which the estimate of total surface water discharges to Stream D was calculated. 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'

No.	Field Name	Type	Description
			Reference: Part II, Section 5.3
131	DISCHARGES TO STREAM D - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to water 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
132	DISCHARGES TO STREAM E – STREAM NAME	C	The name of the fifth receiving stream or water body reported as it appears on the NPDES permit for the facility. *Source:* **TRI_WATER_STREAM.**STREAM_NAME *Reference:* Part II, Section 5.3
133	DISCHARGES TO STREAM E – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into the stream or water body from the reporting facility. Range codes may be used for releases less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
134	DISCHARGES TO STREAM E – RELEASE RANGE CODE	C	For surface water discharges of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
135	TOTAL DISCHARGES TO STREAM E	N	System-generated total release to the fifth reported stream or water body in pounds/year. If the field DISCHARGES STREAM E – RELEASE POUNDS (#133) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field DISCHARGES TO STREAM E – RELEASE RANGE CODE (#134) is used as the value for total surface water discharges to Stream E. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* None
136	DISCHARGES TO STREAM E – BASIS OF ESTIMATE	C	A code indicating the principal method by which the estimate of total surface water discharges to Stream E was calculated. 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

No.	Field Name	Type	Description
137	DISCHARGES TO STREAM E - % FROM STORMWATER	N	Percentage of the total quantity (by weight) of the chemical released to water 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
138	DISCHARGES TO STREAM F – STREAM NAME	C	The name of the sixth receiving stream or water body reported as it appears on the NPDES permit for the facility. *Source:* **TRI_WATER_STREAM.**STREAM_NAME *Reference:* Part II, Section 5.3
139	DISCHARGES TO STREAM F – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into the stream or water body from the reporting facility. Range codes may be used for releases less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
140	DISCHARGES TO STREAM F – RELEASE RANGE CODE	C	For surface water discharges of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
141	TOTAL DISCHARGES TO STREAM F	N	System-generated total release to the sixth reported stream or water body in pounds/year. If the field DISCHARGES STREAM F – RELEASE POUNDS (#139) is not blank, its contents are used as the total. If it is blank, the middle of range indicated in the field DISCHARGES TO STREAM D – RELEASE RANGE CODE (#140) is used as the value for total surface water discharges to Stream F. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* None
142	DISCHARGES TO STREAM F – BASIS FOR ESTIMATE	C	A code indicating the principal method by which the estimate of total surface water discharges to Stream F was calculated. 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
143	DISCHARGES TO STREAM F - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to water 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

No.	Field Name	Type	Description
144	DISCHARGES TO STREAM G – STREAM NAME	C	The name of the seventh receiving stream or water body reported as it appears on the NPDES permit for the facility. *Source:* **TRI_WATER_STREAM.**STREAM_NAME *Reference:* Part II, Section 5.3
145	DISCHARGES TO STREAM G – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into the stream or water body from the reporting facility. Range codes may be used for releases less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
146	DISCHARGES TO STREAM G – RELEASE RANGE CODE	C	For surface water discharges of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
147	TOTAL DISCHARGES TO STREAM G	N	System-generated total release to the seventh reported stream or water body in pounds/year. If the field DISCHARGES STREAM G – RELEASE POUNDS (#145) is not blank, its contents are used as the total. If it is blank, the middle of range indicated in the field DISCHARGES TO STREAM G – RELEASE RANGE CODE (#146) is used as the value for total surface water discharges to Stream G. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* None
148	DISCHARGES TO STREAM G – BASIS FOR ESTIMATE	C	A code indicating the principal method by which the estimate of total surface water discharges to Stream G was calculated. 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
149	DISCHARGES TO STREAM G - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to water 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
150	DISCHARGES TO STREAM H – STREAM NAME	C	The name of the eighth receiving stream or water body reported as it appears on the NPDES permit for the facility. *Source:* **TRI_WATER_STREAM.**STREAM_NAME *Reference:* Part II, Section 5.3

No.	Field Name	Type	Description
151	DISCHARGES TO STREAM H – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into the stream or water body from the reporting facility. Range codes may be used for releases less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* Part II, Section 5.3
152	DISCHARGES TO STREAM H – RELEASE RANGE CODE	C	For surface water discharges of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
153	TOTAL DISCHARGES TO STREAM H	N	System-generated total release to the eighth reported stream or water body in pounds/year. If the field DISCHARGES STREAM H – RELEASE POUNDS (#151) is not blank, its contents are used as the total. If it is blank, the middle of range indicated in the field DISCHARGES TO STREAM D – RELEASE RANGE CODE (#152) is used as the value for total surface water discharges to Stream H. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* None
154	DISCHARGES TO STREAM H – BASIS FOR ESTIMATE	C	A code indicating the principal method by which the estimate of total surface water discharges to Stream H was calculated. 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
155	DISCHARGES TO STREAM H - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to water 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
156	DISCHARGES TO STREAM I – STREAM NAME	C	The name of the ninth receiving stream or water body reported as it appears on the NPDES permit for the facility. *Source:* **TRI_WATER_STREAM.**STREAM_NAME *Reference:* Part II, Section 5.3
157	DISCHARGES TO STREAM I – RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into the stream or water body from the reporting facility. Range codes may be used for releases less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER'

No.	Field Name	Type	Description
			Reference: Part II, Section 5.3
158	DISCHARGES TO STREAM I – RELEASE RANGE CODE	C	For surface water discharges of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
159	TOTAL DISCHARGES TO STREAM I	N	System-generated total release to the ninth reported stream or water body in pounds/year. If the field DISCHARGES STREAM I – RELEASE POUNDS (#157) is not blank, its contents are used as the total. If it is blank, the middle of range indicated in the field DISCHARGES TO STREAM I – RELEASE RANGE CODE (#158) is used as the value for total surface water discharges to Stream I. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'WATER' *Reference:* None
160	DISCHARGES TO STREAM I – BASIS FOR ESTIMATE	C	A code indicating the principal method by which the estimate of total surface water discharges to Stream I was calculated. 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
161	DISCHARGES TO STREAM I - % FROM STORMWATER	N	The percentage of the total quantity (by weight) of the chemical released to water 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
162	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:* None
163	TOTAL SURFACE WATER DISCHARGE	N	Total of all stream surface water discharge quantities. Sum of fields 111,117,123,129,135,141,147,153,159. *Source:* **TRI_FORM_TOTALS.**TOTAL_WATER_RELEASE *Reference:* None
164	ON-SITE UGRND INJ – RELEASE POUNDS	N	An estimate of the total quantity of the chemical (in pounds/year) injected on site at the facility to underground injection wells. Range codes may be used for releases of less than 1,000 pounds. This data element was reported from RY 1987 through 1995. In RY 1996, it was replaced by "ON-SITE

No.	Field Name	Type	Description
			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
165	ON-SITE UGRND INJ – RELEASE RANGE CODE		For underground injection releases of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. A = 1-10 pounds B = 11-499 pounds C = 500-999 pounds This data element was reported from RY 1987 through 1995. In 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.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ9795' *Reference:* Part II, Section 5.4.1
166	TOTAL ON-SITE UGRND INJ – POUNDS	C	System-generated total quantity of on-site injection well releases in pounds/year. If the field ON-SITE UGRND INJ – RELEASE POUNDS (#164) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field ON-SITE UGRND INJ – RELEASE RANGE CODE (#165) is used as the value for total on-site underground injection. This data element was reported from RY 1987 through 1995. In 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, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ9795' *Reference:* None
167	ON-SITE UGRND INJ – BASIS OF ESTIMATE	C	A code indicating the principal method by which the total on-site underground injection quantity was calculated. See Appendix A, "Section 5 On-site Releases - Basis of Estimate Codes" for a list of values. This data element was reported from RY 1987 through 1995. In 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.**RELEASE_BASIS_EST_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ9795' *Reference:* Part II, Section 5.4.1
168	ON-SITE UGRND INJ TO CL I WELLS – RELEASE POUNDS	N	An estimate of the total quantity of the chemical (in pounds/year) injected on site at the facility to Class I wells. Range codes may be used for releases of less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ I' *Reference:* Part II, Section 5.4.1A

No.	Field Name	Type	Description
169	ON-SITE UGRND INJ TO CL I WELLS - RELEASE RANGE CODE	C	For underground injection releases of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
170	TOTAL ON-SITE UGRND INJ TO CL I WELLS – POUNDS	N	System-generated total quantity of on-site Class I well injection releases in pounds/year. If the field ON-SITE UGRND INJ TO CL I WELLS – RELEASE POUNDS (#168) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field ON-SITE UGRND INJ TO CL I WELLS – RELEASE RANGE CODE (#169) is used as the value for total on-site underground injection to Class I wells. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ I' *Reference:* None
171	ON-SITE UGRND INJ TO CL I WELLS - BASIS OF ESTIMATE	C	A code indicating the principal method by which the total on-site underground injection quantity was calculated. 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
172	ON-SITE UGRND INJ TO CL II-V WELLS - RELEASE POUNDS	N	An estimate of the total quantity of the chemical (in pounds/year) injected on site at the facility to Class II-V wells. Range codes may be used for releases of less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ IIV' *Reference:* Part II, Section 5.4.2.A
173	ON-SITE UGRND INJ TO CL II-V WELLS - RELEASE RANGE CODE	C	For underground injection releases of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
174	TOTAL ON-SITE UGRND INJ TO CL II-V WELLS – POUNDS	N	System-generated total quantity of on-site Class II-V well injection releases in pounds/year. If the field ON-SITE UGRND INJ TO CL II-V WELLS – RELEASE POUNDS (#172) is not blank, its

No.	Field Name	Type	Description
			contents are used as the total. If it is blank, the middle of range indicated in the field ON-SITE UGRND INJ TO CL II-V WELLS – RELEASE RANGE CODE (#173) is used as the value for total on-site underground injection to Class II-V wells. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'UNINJ IIV *Reference:* None
175	ON-SITE UNGRND INJ TO CL II-V WELLS - BASIS OF ESTIMATE	C	A code indicating the principal method by which the total on-site underground injection quantity was calculated. 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
176	TOTAL ON-SITE UNDERGROUND INJECTION	N	Total quantity, in pounds, of on-site underground injection releases to underground injection wells from RY 1987-95, Class I wells and Class II-V wells: rows #166 + #170 + #174. *Source:* System-generated *Reference:* None
177	ON-SITE LANDFILLS – RELEASE POUNDS	N	An estimate of the total quantity of the chemical (in pounds/year) released to on-site landfills. Range codes may be used for releases of less than 1,000 pounds. 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
178	ON-SITE LANDFILLS – RELEASE RANGE CODE	C	For releases of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released to on-site landfills within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
179	TOTAL ON-SITE LANDFILLS	N	System-generated quantity of total on-site landfill releases in pounds/year. If the field ON-SITE LANDFILLS– RELEASE POUNDS (# 177) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field ON-SITE LANDFILLS - RELEASE RANGE CODE (#178) is used as the value for total on-site releases to on-site landfills. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'LANDF8795' *Reference:* None

No.	Field Name	Type	Description
180	ON-SITE LANDFILLS - BASIS OF ESTIMATE	C	A code indicating the principal method by which the quantity of total on-site releases to landfills was calculated. 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
181	ON-SITE RCRA SUBTITLE C LANDFILLS - RELEASE POUNDS	N	An estimate of the total quantity of the chemical (in pounds/year) released on-site to RCRA Subtitle C landfills. Range codes may be used for releases of less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'RCRA C' *Reference:* Part II, Section 5.5.1A.A
182	ON-SITE RCRA SUBTITLE C LANDFILLS - RELEASE RANGE CODE	C	For releases of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released to on-site RCRA Subtitle C landfills within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
183	TOTAL ON-SITE RCRA SUBTITLE C LANDFILLS	N	System-generated quantity of total on-site RCRA Subtitle C landfill releases in pounds/year. If the field ON-SITE RCRA SUBTITLE C LANDFILLS– RELEASE POUNDS (# 181) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field ON-SITE RCRA SUBTITLE C LANDFILLS - RELEASE RANGE CODE (#182) is used as the value for total on-site releases to RCRA Subtitle C landfills. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'RCRA C' *Reference:* None
184	ON-SITE RCRA SUBTITLE C LANDFILLS - BASIS OF ESTIMATE	C	A code indicating the principal method by which the quantity of total on-site releases to RCRA Subtitle C landfills was calculated. 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
185	OTHER LANDFILLS - RELEASE POUNDS	N	An estimate of the total quantity of the chemical (in pounds/year) released to other on-site (non-RCRA Subtitle C) landfills. Range codes may be used for releases of less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'OTH LANDF' *Reference:* Part II, Section 5.5.1B.A

No.	Field Name	Type	Description
186	OTHER LANDFILLS - RELEASE RANGE CODE	C	For releases of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually to other on-site landfills within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
187	TOTAL OTHER ON-SITE LANDFILLS	N	System-generated quantity of total non-RCRA Subtitle C landfill release in pounds/year. If the field OTHER LANDFILLS – RELEASE POUNDS (#185) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field OTHER LANDFILLS – RELEASE RANGE CODE (#186) is used as the value for total other on-site landfills. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where: ENVIRONMENTAL_MEDIUM = 'OTH LANDF'* *Reference:* None
188	OTHER LANDFILLS - BASIS OF ESTIMATE	C	A code indicating the principal method by which the quantity of total releases to other on-site landfills was calculated. 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
189	LAND TRTMT/APPL FARMING - RELEASE POUNDS	N	An estimate of the quantity of the chemical (in pounds/year) disposed of through on-site land treatment/application farming. Range codes may be used for releases of less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'LAND TREA' *Reference:* Part II, Section 5.5.2.A
190	LAND TRTMT/APPL FARMING - RELEASE RANGE CODE	C	For releases of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical disposed of through on-site land treatment/application farming within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
191	TOTAL ON-SITE LAND TREATMENT	N	System-generated quantity of total land treatment/application farming releases in pounds/year. If the field LAND TRTMT/APPL FARMING – RELEASE POUNDS (#189) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field LAND TRTMT/APPL

No.	Field Name	Type	Description
			FARMING – RELEASE RANGE CODE (#190) is used as the value for the quantity of total on-site land treatment/application farming releases. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'LAND TREA' *Reference:* None
192	LAND TRTMT/APPL FARMING - BASIS OF ESTIMATE	C	A code indicating the principal method by which the quantity of total land treatment/application farming releases was calculated. 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
193	SURFACE IMPOUNDMENT - RELEASE POUNDS	N	An estimate of the total quantity of the chemical (in pounds/year) released on site into surface impoundments. Range codes may be used for releases of less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'SURF IMP' *Reference:* Part II, Section 5.5.3. col. A
194	SURFACE IMPOUNDMENT - RANGE CODE	C	For on-site surface impoundment releases of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually from the reporting facility within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
195	TOTAL SURFACE IMPOUNDMENTS	N	System-generated quantity of total on-site surface impoundment releases in pounds/year. If the field SURFACE IMPOUNDMENT – RELEASE POUNDS (#193) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field SURFACE IMPOUNDMENT – RANGE CODE (#194) is used as the value for the quantity of total releases to on site surface impoundments. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'SURF IMP' *Reference:* None
196	SURFACE IMPOUNDMENT – BASIS OF ESTIMATE	C	A code indicating the principal method by which the quantity of total surface impoundment releases was calculated. 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

No.	Field Name	Type	Description
197	RCRA C SURFACE IMPOUNDMENT - RELEASE POUNDS	N	An estimate of the total quantity of the chemical released into on-site RCRA Subtitle C surface impoundments. Range codes may be used for releases of less than 1,000 pounds. 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
198	RCRA C SURFACE IMPOUNDMENT - RANGE CODE	C	For releases of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually into on-site RCRA Subtitle C surface impoundments, within a range. This field was added in RY 2003. 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
199	TOTAL RCRA C SURFACE IMPOUNDMENTS	N	System-generated total quantity of on-site RCRA Subtitle C surface impoundment releases. If the field RCRA SURFACE IMPOUNDMENT – RELEASE POUNDS (#197) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field RCRA C SURFACE IMPOUNDMENT – RANGE CODE (#198) is used as the value for total on-site RCRA Subtitle C surface impoundment releases. 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:* None
200	RCRA C SURFACE IMPOUNDMENT - BASIS OF ESTIMATE	C	A code indicating the principal method by which the total quantity of on-site RCRA Subtitle C surface impoundment releases was calculated. 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
201	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. 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
202	OTHER SURFACE IMPOUNDMENT - RANGE CODE	C	For releases of less than 1,000 pounds, this field provides the code corresponding to the quantity of the chemical released annually to other (non-RCRA Subtitle C) surface impoundments at the facility, within a range. This field was added in RY 2003. A = 1-10 pounds B = 11-499 pounds

No.	Field Name	Type	Description
			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
203	TOTAL OTHER SURFACE IMPOUNDMENTS	N	System-generated total quantity of releases to other (non-RCRA Subtitle C) surface impoundments. If the field OTHER SURFACE IMPOUNDMENT – RELEASE POUNDS (#201) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field OTHER SURFACE IMPOUNDMENT – RANGE CODE (#202) is used as the value for total quantity of releases to other surface impoundments. 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:* None
204	OTHER SURFACE IMPOUNDMENT - BASIS OF ESTIMATE	C	A code indicating the principal method by which the total quantity of other surface impoundment releases was calculated. 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
205	OTHER DISPOSAL – RELEASE POUNDS	N	An estimate of the total quantity of the chemical (in pounds/year) disposed of on site by methods other than landfills, land treatment and surface impoundments. Range codes may be used for releases of less than 1,000 pounds. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE *Where:* ENVIRONMENTAL_MEDIUM = 'OTH DISP' *Reference:* Part II, Section 5.5.4 col. a
206	OTHER DISPOSAL – RANGE CODE	N	For releases of less than 1,000 pounds, this field provides a code corresponding to the quantity of the chemical disposed of on site by other methods within a range. If the release is less than or equal to 0.5 pounds, the submitter may enter zero. 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
207	TOTAL OTHER DISPOSAL	N	System-generated quantity of total other on-site disposal in pounds/year. If the field OTHER DISPOSAL - RELEASE POUNDS (#205) is not blank, its contents are used as the total. If it is blank, the middle of the range indicated in the field OTHER DISPOSAL – RANGE CODE (#206) is used as the value for the quantity of total other on-site disposal. *Source:* **TRI_RELEASE_QTY.**TOTAL_RELEASE, or **TRI_RELEASE_QTY.**RELEASE_RANGE_CODE *Where:* ENVIRONMENTAL_MEDIUM = 'OTH DISP'

No.	Field Name	Type	Description
			Reference: None
208	OTHER DISPOSAL – BASIS OF ESTIMATE	C	A code indicating the principal method by which the quantity of total other disposal was calculated. 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
209	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: 166+170+174+179+183+187+191+195+199+203+207. *Source:* **TRI_FORM_TOTALS**.TOTAL_LAND_RELEASE *Reference:* None
210	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 (#107) + TOTAL SURFACE WATER DISCHARGE (#163) + TOTAL ON-SITE LAND RELEASES (#209) *Source:* **TRI_FORM_TOTALS.**TOTAL_ONSITE_RELEASE *Reference:* None
211	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 regarding this calculation. *Source:* **TRI_FORM_TOTALS**.POTW_RELEASE *Reference:* Part II, Section 6.1
212	OFF-SITE - STORAGE ONLY	N	The total quantity of the chemical reported as transferred off site for disposal using code **M10**: "Storage Only." *Source:* **TRI_FORM_TOTALS.M10** *Reference:* Part II, Section 6.2A
213	OFF-SITE - SOLIDIFICATION/STABILIZATION - METALS AND METAL COMPOUNDS ONLY	N	The total quantity of the chemical reported as transferred off site for disposal using code **M41**: "Solidification/Stabilization." Note this only applies to metals and metal compounds. *Source:* **TRI_FORM_TOTALS.M41** *Reference:* Part II, Section 6.2A
214	OFF-SITE - WASTEWATER TREATMENT RELEASE (EXCLUDING POTWs) – METALS AND METAL COMPOUNDS ONLY	N	The total quantity of the chemical reported as transferred off site for disposal using code **M62**: "Wastewater Treatment (Excluding POTWs) – Metals and Metal Compounds Only." *Source:* **TRI_FORM_TOTALS.M62** *Reference:* Part II, Section 6.2A
215	OFF-SITE – SOLIDIFICATION/STABLIZATION – RELEASE - METALS AND METAL COMPOUNDS ONLY		The total quantity of the chemical reported as transferred off site for treatment or disposal using code **M40**: "SOLIDIFICATION/STABLIZATION" where the chemical is a metal. NOTE: **M40** is used to represent a method for treatment. However, when a metal is reported under M40 it's considered a release/disposal because a metal can't be treated via this method.

No.	Field Name	Type	Description
			Source: **TRI_FORM_TOTALS.M40_METAL** *Reference:* Part II, Section 6.2A
216	OFF-SITE – WASTEWATER TREATMENT (EXCLUDING POTWS) - METALS AND METAL COMPOUNDS ONLY	N	The total quantity of the chemical reported as transferred off site for treatment using code **M61**: "WASTEWATER TREATMENT (EXCLUDING POTWS)" where the chemical is a metal. NOTE: M61 is used to represent a method for treatment. However, when a metal is reported 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
217	OFF-SITE UNDERGROUND INJECTION	N	The total quantity of the chemical reported as transferred off site for disposal using the code **M71**: "Underground Injection." *Source:* **TRI_FORM_TOTALS.M71** *Reference:* Part II, Section 6.2A *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 #218 and #219 of this table.*
218	OFF-SITE – UNDERGROUND INJECTION - CLASS 1 WELLS	N	Total quantity of the chemical reported as transferred off site for disposal using 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
219	OFF-SITE – UNDERGROUND INJECTION - CLASS II-V WELLS	N	Total quantity of the chemical reported as transferred off site for disposal using 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
220	OFF-SITE - LANDFILLS/DISPOSAL SURFACE IMPOUNDMENTS	N	The total quantity of the chemical reported as transferred off site for disposal using the code **M72**: "Landfills/Disposal Surface Impoundments." *Source:* **TRI_FORM_TOTALS.M72** *Reference:* Part II, Section 6.2A *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).*
221	OFF-SITE - SURFACE IMPOUNDMENT	N	The total quantity of the chemical reported as transferred off site for disposal using the code **M63**: "Surface Impoundment." *Source:* **TRI_FORM_TOTALS.M63** *Reference:* Part II, Section 6.2A *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).*
222	OFF-SITE - RCRA SUBTITLE C SURFACE IMPOUNDMENTS	N	Total quantity of the chemical reported as transferred off site for disposal using code **M66**: "RCRA Subtitle C Surface Impoundments." This field was added in RY 2003.

No.	Field Name	Type	Description
			Source: **TRI_FORM_TOTALS.M66** *Reference:* Part II, Section 6.2A
223	OFF-SITE - OTHER SURFACE IMPOUNDMENTS	N	Total quantity of the chemical reported as transferred off site for disposal using code **M67**: "Other Surface Impoundments." This field was added in RY 2003. *Source*: **TRI_FORM_TOTALS.M67** *Reference:* Part II, Section 6.2A
224	OFF-SITE - OTHER LANDFILLS	N	Total quantity of the chemical reported as transferred off site for disposal using code **M64**: "Other Landfills." *Source*: TRI_FORM_TOTALS.M64 *Reference:* Part II, Section 6.2A
225	OFF-SITE - RCRA SUBTITLE C LANDFILLS	N	Total quantity of the chemical reported as transferred off site for disposal using code **M65**: "RCRA Subtitle C Landfills." *Source:* **TRI_FORM_TOTALS.M65** *Reference:* Part II, Section 6.2A
226	OFF-SITE - DISPOSAL - LAND TREATMENT	N	Total quantity of the chemical reported as transferred off site for disposal using code **M73**: "Land Treatment." *Source:* **TRI_FORM_TOTALS.M73** *Reference:* Part II, Section 6.2A
227	OFF-SITE - DISPOSAL - OTHER LAND DISPOSAL	N	Total quantity of the chemical reported as transferred off site for disposal using code **M79**: "Other Land Disposal." *Source:* **TRI_FORM_TOTALS.M79** *Reference:* Part II, Section 6.2A
228	OFF-SITE DISPOSAL - OTHER OFF-SITE MGMT	N	Total quantity of the chemical reported as transferred off site for disposal using code **M90**: "Other Off-Site Management." *Source:* **TRI_FORM_TOTALS.M90** *Reference:* Part II, Section 6.2A
229	OFF-SITE - DISPOSAL - TRANSFER TO WASTE BROKER	N	Total quantity of the chemical reported as transferred off site for disposal using code **M94**: "Transfer to Waste Broker for Disposal." *Source:* **TRI_FORM_TOTALS.M94** *Reference:* Part II, Section 6.2A
230	OFF-SITE - DISPOSAL - UNKNOWN	N	Total quantity of the chemical reported as transferred off site for disposal using code **M99**: "Unknown." *Source:* **TRI_FORM_TOTALS.M99** *Reference:* Part II, Section 6.2A
231	TOTAL TRANSFERRED OFF SITE FOR DISPOSAL	N	Total quantity of the toxic 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 211 through 230. *Source:* **TRI_FORM_TOTALS.**TOTAL_OFFSITE_RELEASE *Reference:* Part II, Section 6.2
232	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." *Source:* **TRI_FORMS_TOTALS.M20** *Reference:* Part II, Section 6.2A

No.	Field Name	Type	Description
233	OFF-SITE - RECYCLING -METALS RECOVERY	N	Total quantity of the chemical reported as transferred off site for recycling using the code **M24**: "Metals Recovery." *Source:* **TRI_FORM_TOTALS.M24** *Reference:* Part II, Section 6.2A
234	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." *Source:* **TRI_FORM_TOTALS.M26** *Reference:* Part II, Section 6.2A
235	OFF-SITE - RECYCLING – ACID REGENERATION	N	Total quantity of the chemical reported as transferred off site for recycling using the code **M28**: "Acid Regeneration." *Source:* **TRI_FORM_TOTALS.M28** *Reference:* Part II, Section 6.2A
236	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." *Source:* **TRI_FORM_TOTALS.M93** *Reference:* Part II, Section 6.2A
237	TOTAL TRANSFERRED OFF SITE FOR RECYCLING	N	Total quantity of the toxic 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: 232+233+234+235+236. *Source:* **TRI_FORM_TOTALS.**TOTAL_RECYCLING_TRANSFER *Reference:* Part II, Section 6.2
238	OFF-SITE - ENERGY RECOVERY	N	Total quantity of the chemical reported as transferred off site to energy recovery using the code **M56**: "Energy Recovery." *Source:* **TRI_FORM_TOTALS.M56** *Reference:* Part II, Section 6.2A
239	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." *Source:* **TRI_FORM_TOTALS.M92** *Reference:* Part II, Section 6.2A
240	TOTAL TRANSFERRED OFF SITE FOR ENERGY RECOVERY	N	Total quantity of the toxic 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 238+239. *Source:* **TRI_FORM_TOTALS**.TOTAL_RECOVERY_TRANSFER *Reference:* Part II, Section 6.2
241	OFF-SITE – POTW TREATMENT	N	Total quantity of the toxic chemical transferred off site to a POTW for treatment. See "Appendix F – POTW Release and Treatment Calculations" for details for regarding this calculation. *Source:* **TRI_FORM_TOTALS.POTW_TREATMENT** *Reference:* Part II, Section 6.2A

No.	Field Name	Type	Description
242	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" where the chemical is a non-metal. NOTE: When a metal is reported under M40 it's considered a release/disposal because a metal can't be treated via this method. When a metal is reported under M40 it is included in the TOTAL TRANSFERRED OFF SITE FOR DISPOSAL (Field #231). *Source:* **TRI_FORM_TOTALS.M40_NON_METAL** *Reference:* Part II, Section 6.2A
243	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." *Source:* **TRI_FORM_TOTALS.M50** *Reference:* Part II, Section 6.2A
244	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." *Source:* **TRI_FORM_TOTALS.M54** *Reference:* Part II, Section 6.2A
245	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)" For non-metals. *Source:* **TRI_FORM_TOTALS.M61_NON_METALS** *Reference:* Part II, Section 6.2A
246	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." *Source:* **TRI_FORM_TOTALS.M69** *Reference:* Part II, Section 6.2A
247	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." *Source:* **TRI_FORM_TOTALS.M95** *Reference:* Part II, Section 6.2A
248	TOTAL TRANSFERRED OFF SITE FOR TREATMENT	N	Total quantity of the toxic 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: 241+242+243+244+245+246+247. *Source:* **TRI_FORM_TOTALS**.TOTAL_TREATMENT_TRANSFER *Reference:* Part II, Section 6.2
249	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". 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.

No.	Field Name	Type	Description
			Source: **TRI_FORM_TOTALS.M91** *Reference:* Part II, Section 6.2A
250	TOTAL TRANSFERRED OFF SITE FOR FURTHER WASTE MGMT	N	Total amount, in grams for dioxins and in pounds for all other chemicals, of toxic chemical in wastes reported as being transferred off site for further waste management. Sum of rows 231+237+240+248+249. *Source:* **TRI_FORM_TOTALS**.TOTAL_TRANSFER *(*System generated) *Reference:* Part II, Section 6.1 and 6.2
251	TOTAL POTW TRANSFER	N	Total quantity of the toxic chemical reported as transferred to POTWS. Quantity is in grams for dioxins and pounds for all other chemicals. Sum of rows: 211+241 *Source:* System-generated *Reference:* Part II, Section 6.2
252	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
253	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
254	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
255	TOTAL ON-SITE WASTE MANAGEMENT	N	Total quantity of the chemical recycled, treated or combusted for energy recovery on site: rows 252 + 253 + 254. *Source:* System-generated. *Reference:* None
256	ON-SITE ENERGY RECOVERY METHOD 1	C	Code identifying the first on-site energy recovery method used for the reported chemical (and the greatest, based on the amount of the chemical entering the method). Codes are given for only those chemicals that have a significant heating value and are combusted in an energy recovery unit. See "**Form R, Section 7B. On-Site Energy Recovery Processes**" in Appendix A for code definitions. *Source:* **TRI_ENERGY_RECOVERY.**ONSITE_ENERGY_PROC_CODE *Reference:* Part II, Section 7B.1
257	ON-SITE ENERGY RECOVERY METHOD 2	C	Code identifying the second on-site energy recovery method used for the reported chemical (and the second-greatest, based on the amount of the chemical entering the method). Codes are given for only those chemicals that have a

No.	Field Name	Type	Description
			significant heating value and are combusted in an energy recovery unit. See "**Form R, Section 7B. On-Site Energy Recovery Processes**" in Appendix A for code definitions. *Source:* **TRI_ENERGY_RECOVERY.**ONSITE_ENERGY_PROC_CODE *Reference:* Part II, Section 7B.2
258	ON-SITE ENERGY RECOVERY METHOD 3	C	Code identifying the third on-site energy recovery method used for the reported chemical (and the second-least, based on the amount of the chemical entering the method). Codes are given for only those chemicals that have a significant heating value and are combusted in an energy recovery unit. See "**Form R, Section 7B. On-Site Energy Recovery Processes**" in Appendix A for code definitions. *Source:* **TRI_ENERGY_RECOVERY.**ONSITE_ENERGY_PROC_CODE *Reference:* Part II, Section 7B.3
259	ON-SITE ENERGY RECOVERY METHOD 4	C	Code identifying the fourth on-site energy recovery method used for the reported chemical (and the least, based on the amount of the chemical entering the method). Codes are given for only those chemicals that have a significant heating value and are combusted in an energy recovery unit. See "**Form R, Section 7B. On-Site Energy Recovery Processes**" in Appendix A for code definitions. *Source:* **TRI_ENERGY_RECOVERY.**ONSITE_ENERGY_PROC_CODE *Reference:* Part II, Section 7B.4
260	ON-SITE RECYCLING METHOD 1	C	Code identifying the first recycling process used for the reported chemical. Facilities report recycling methods in descending order (greatest to least) based on the volume of the chemical recovered by each process. See "**Form R, Section 7C. On-Site Recycling Processes**" in Appendix A for code definitions. *Source:* **TRI_RECYCLING_PROCESS.** ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.1
261	ON-SITE RECYCLING METHOD 2	C	Code identifying the second recycling process used for the reported chemical. Facilities report recycling methods in descending order (greatest to least) based on the volume of the chemical recovered by each process. See "**Form R, Section 7C. On-Site Recycling Processes**" in Appendix A for code definitions. *Source:* **TRI_RECYCLING_PROCESS.** ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.2
262	ON-SITE RECYCLING METHOD 3	C	Code identifying the third recycling process used for the reported chemical. Facilities report recycling methods in descending order (greatest to least) based on the volume of the chemical recovered by each process. See "**Form R, Section 7C. On-Site Recycling Processes**" in Appendix A for code definitions. *Source:* **TRI_RECYCLING_PROCESS.**

No.	Field Name	Type	Description
			ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.3
263	ON-SITE RECYCLING PROCESSES METHOD 4	C	Code identifying the fourth recycling process used for the reported chemical. Facilities report recycling methods in descending order (greatest to least) based on the volume of the chemical recovered by each process. See "**Form R, Section 7C. On-Site Recycling Processes**" in Appendix A for code definitions. *Source:* **TRI_RECYCLING_PROCESS.** ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.4
264	ON-SITE RECYCLING PROCESSES METHOD 5	C	Code identifying the fifth recycling process used for the reported chemical. Facilities report recycling methods in descending order (greatest to least) based on the volume of the chemical recovered by each process. See "**Form R, Section 7C. On-Site Recycling Processes**" in Appendix A for code definitions. *Source:* **TRI_RECYCLING_PROCESS.** ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.5
265	ON-SITE RECYCLING PROCESSES METHOD 6	C	Code identifying the sixth recycling process used for the reported chemical. Facilities report recycling methods in descending order (greatest to least) based on the volume of the chemical recovered by each process. See "**Form R, Section 7C. On-Site Recycling Processes**" in Appendix A for code definitions. *Source:* **TRI_RECYCLING_PROCESS.** ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.6
266	ON-SITE RECYCLING PROCESSES METHOD 7	C	Code identifying the seventh recycling process used for the reported chemical. Facilities report recycling methods in descending order (greatest to least) based on the volume of the chemical recovered by each process. See "**Form R, Section 7C. On-Site Recycling Processes**" in Appendix A for code definitions. *Source:* **TRI_RECYCLING_PROCESS.** ONSITE_RECYCLING_PROC_CODE *Reference:* Part II, Section 7C.7

APPENDIX A – LIST OF VALUES FOUND IN FILE TYPE 1

Form R, Section 5. On-site Releases – Basis of Estimate Codes (Column B)

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

Form R, Section 7B. On-Site Energy Recovery Processes

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

Form R, Section 7C. On-Site Recycling Processes

In Reporting Year (RY) 2005, the number of recycling codes for section 7C (On-site Recycling Process) of the Form R, Part II were reduced from 16 to 3. The 3 new codes that were introduced in RY 2005 were the 'H' codes (H10, H20 and H39). The codes that were retired and replaced by the 'H' codes were the 'R' codes (R11-R99). Even though the switch to the new 'H' codes were made in RY 2005, a small number (less than 50 per year) of 'R' codes were reported in years 2005-10. These strays were due to facilities reporting on paper forms where enforcing data quality checking was more difficult.

Below is the list of all codes and definitions that appeared in section 7C over the course of the TRI program. For the 'R' codes, which were retired in RY 2005, a mapping to the new 'H' 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)

Previous Code	Definition	New Code	Definition
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)

APPENDIX B – Chemical Classification - Metals

Category 1 Metals (Metal_Ind = '1')

Chemical	CAS#	TRI Chemical ID
ANTIMONY	7440-36-0	007440360
ANTIMONY COMPOUNDS	N010	N010
ARSENIC	7440-38-2	007440382
ARSENIC COMPOUNDS	N020	N020
BERYLLIUM	7440-41-7	007440417
BERYLLIUM COMPOUNDS	N050	N050
CADMIUM	7440-43-9	007440439
CADMIUM COMPOUNDS	N078	N078
CHROMIUM	7440-47-3	007440473
CHROMIUM COMPOUNDS (EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION)	N090	N090
COBALT	7440-48-4	007440484
COBALT COMPOUNDS	N096	N096
COPPER	7440-50-8	007440508
COPPER COMPOUNDS	N100	N100
LEAD	7439-92-1	007439921
LEAD COMPOUNDS	N420	N420
MANGANESE	7439-96-5	007439965
MANGANESE COMPOUNDS	N450	N450
MERCURY	7439-97-6	007439976
MERCURY COMPOUNDS	N458	N458
NICKEL	7440-02-0	007440020
NICKEL COMPOUNDS	N495	N495
SELENIUM	7782-49-2	007782492
SELENIUM COMPOUNDS	N725	N725
SILVER	7440-22-4	007440224
SILVER COMPOUNDS	N740	N740
THALLIUM	7440-28-0	007440280
THALLIUM COMPOUNDS	N760	N760
VANADIUM COMPOUNDS	N770	N770
ZINC COMPOUNDS	N982	N982

APPENDIX B – Chemical Classification - Metals (cont.)

Category 2 Metals (Metal_Ind = '2')

Chemical	CAS#	TRI Chemical ID
ALUMINUM OXIDE (FIBROUS FORMS)	1344-28-1	001344281
ALUMINUM PHOSPHIDE	20859-73-8	020859738
ASBESTOS (FRIABLE)	1332-21-4	001332214
BIS(TRIBUTYLTIN) OXIDE	56-35-9	000056359
BORON TRICHLORIDE	10294-34-5	010294345
BORON TRIFLUORIDE	7637-07-2	007637072
C.I. DIRECT BLUE 218	28407-37-6	028407376
C.I. DIRECT BROWN 95	16071-86-6	016071866
FENBUTATIN OXIDE	13356-08-6	013356086
FERBAM	14484-64-1	014484641
IRON PENTACARBONYL	13463-40-6	013463406
LITHIUM CARBONATE	554-13-2	000554132

MANEB	12427-38-2	012427382
METIRAM	9006-42-2	009006422
MOLYBDENUM TRIOXIDE	1313-27-5	001313275
OSMIUM TETROXIDE	20816-12-0	020816120
POTASSIUM BROMATE	7758-01-2	007758012
SODIUM NITRITE	7632-00-0	007632000
THORIUM DIOXIDE	1314-20-1	001314201
TITANIUM TETRACHLORIDE	7550-45-0	007550450
TRIBUTYLTIN FLUORIDE	1983-10-4	001983104
TRIBUTYLTIN METHACRYLATE	2155-70-6	002155706
TRIPHENYLTIN CHLORIDE	639-58-7	000639587
TRIPHENYLTIN HYDROXIDE	76-87-9	000076879
ZINEB	12122-67-7	012122677

Category 3 Metals (Metal_Ind = '3')

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

Category 4 Metals (Metal_Ind = '4')

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

APPENDIX C - Persistent Bio-accumulative Toxics (PBTs)

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

APPENDIX D - Dioxin and Dioxin-like Compound Data

In reporting year (RY) 2000, the Toxics Release Inventory Program began collecting congener data for dioxin and dioxin-like compounds to better convey the relative toxicity of these chemicals being released or managed at facilities. From RY 2000 through 2007, Part II, Section 1.4 of the Reporting Form R asked facilities to specify the percentages of the 17 individual chemicals that make up a dioxin or dioxin-like compound for all media (air, water and land). Fields #65-#83 of this file should contain those reported percentages.

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

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

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

APPENDIX E – NAICS Code Assignments

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

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

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

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

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

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

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

EPA Facility Registry System (FRS) – In this method, the TRI Program used NAICS codes found in EPA's Facility Registry System (FRS) to assign a primary NAICS code to each TRI chemical submission. This method was only

used if FRS listed only one primary NAICS code for a facility. 11% of all assignments were made using this method.

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

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

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

APPENDIX F – POTW Release and Treatment Calculations

The calculation of POTW Releases and POTW Treatment is divided into two categories, those prior to and including reporting year (RY) 2013 and those in RY 2014 and after.

For RY 2013 and before, to calculate the amount released at a POTW (POTW Release), simply 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 chemicals that are metals. Prior to and including RY 2013, all POTW transfers for chemicals that were metals are considered 100% released. To calculate the POTW Treatment, subtract the POTW Release from the total POTW transfer.

In RY 2014, the Toxics Release Inventory (TRI) program required all facilities to submit their data to EPA electronically (accept for trade secret submissions) using the TRI-MEweb software. Along with this change, 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 3 percentages regarding how their POTW transfers are managed. They correspond to the "Source Reduction and Recycling Activities" in Section 8 of the Form R and are as follows:

Item	Description	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 A.	8.1d
C	Percentage not released, but treated in some manner.	8.7

If a facility does provide these percentages, then the POTW Release amount 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 lbs and provided the following percentages below, the POTW Release would be 90 lbs and the POTW Treatment amount would be 10 lbs.

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" below.

The first step in this procedure 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. Then, to calculate the POTW Treatment amount, subtract the POTW Release from the total POTW transfer.

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
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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

CAS#/Chemical Category	Chemical	Default % to 8.1C	Default % to 8.1D	Default % to 8.7
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