

**TOXICS RELEASE INVENTORY**  
**BASIC PLUS DATA FILES DOCUMENTATION**  
**FILE TYPE 2B: DETAILED ON-SITE WASTE TREATMENT**  
**METHODS AND EFFICIENCY**

**Updated for RY 2016**

October 2017



## OVERVIEW OF TRI BASIC PLUS DATA FILES

| <u>File</u> | <u>Example</u>        | <u>Description of Contents</u>  | <u>Form R/Form A Reference</u>   |
|-------------|-----------------------|---|--|
| Type<br>1   | CA_1_2014_v15.<br>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, reporting year and version number.

File Name = State + File\_Type + Reporting Year + Version number

For example, the file "CA\_1\_2014\_v15.txt" contains facility, chemical identification, chemical use, on-site release and waste management, off-site transfer and summary information for all facilities located in California (CA) that submitted data for calendar year 2014. The version number, "v15," indicates that EPA refreshed the data file using the complete TRI dataset for 2015. (Since facilities may revise or withdraw their data from previous years, each October EPA not only produces new data files for the most recent reporting year, but also updates all of the data files from previous years.)

In addition to the set of data files for each state, there are also federal and national data files. The federal files (FED\_1\_2014\_v15.txt, FED\_2A\_2014\_v15.txt, etc.) contain TRI data for all government-owned-and-operated federal sites. The national files (US\_1\_2014\_v15.txt, US\_2A\_2014\_v15.txt, etc.) contain TRI data for all U.S. states and territories for a specific year.

## DESCRIPTION OF FILE TYPE 2B CONTENTS

File Type 2B contains data from the TRI Reporting Form, as shown in the table below. Each record in File Type 2B represents data from a single chemical reporting form (i.e., Form R) submitted by a facility.

| Part | Section | Description                              |
|------|---------|--|
| I    | 1       | Reporting Year                           |
| I    | 1       | Revision Codes                           |
| I    | 2.1     | Trade Secret Indicator                   |
| I    | 4       | Facility Identification Information      |
| I    | 5       | Parent Company Information               |
| I    | 1       | Chemical Identification Data             |
| II   | 7.A.a   | General Waste Stream Identification Code |
| II   | 7.A.b   | Waste Treatment Methods                  |
| II   | 7.A.c   | Range of Influent of Concentration       |
| II   | 7.A.d   | Waste Treatment Efficiency Estimate      |
| II   | 7.A.e   | Based on Operating Data                  |

## 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 2B” 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)<br>‘N’ for numeric data<br>‘D’ for date   |
| Description  | A brief statement of what the data element represents, plus its TRI System Source (in <b>Table Name</b> . Field Name format) and where on the TRI Reporting Form R the data element is reported (i.e., <i>reference</i> ). TRI System Source refers to the data element’s physical location within EPA’s Envirofacts online data warehouse. |

The data fields in each of the seven files are delimited by tab, meaning a tab is placed between each data element. The first record (row) of each file contains column headers or field names:

|           |                |                        |                     |
|-----------|----------------|------------------------|---------------------|
| FORM TYPE | REPORTING YEAR | TRADE SECRET INDICATOR | SANITIZED INDICATOR |
|-----------|----------------|------------------------|---------------------|

**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 for dioxin and other PBT chemical submissions.

## 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](http://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.

| No. | Field Name             | Type | Description   |
|-----|------------------------|------|---|
| 1   | REPORTING YEAR         | C    | The calendar year in which the reported activities occurred.<br><i>Source: TRI_REPORTING_FORM.REPORTING_YEAR</i><br><i>Reference: Part I, Section 1</i>   |
| 2   | TRADE SECRET INDICATOR | C    | Indicates whether the reporting facility claims the identity of the chemical or chemical category as a trade secret.<br>Yes = Checked (Trade Secret)<br>No = Not checked<br>Note: Only sanitized trade secret submissions are stored in the TRI database.<br><i>Source: TRI_REPORTING_FORM.TRADE_SECRET_IND</i><br><i>Reference: Part I, Section 2.1</i>  |
| 3   | TRIFD                  | C    | Facility identification in the format zzzzznnnnnsssss, where usually zzzzz = facility zip code, nnnnn = first five consonants of the name, and sssss = first five non-specific characters in the street address. The three sections of the format were separated by hyphens prior to RY 2006.<br><b>NOTE:</b> <i>The content of this field is <u>not</u> changed to match facility ownership, or zip code changes. Rather, the TRI Facility ID identifies a specific geographical location which is also identified by the latitude and longitude of that location.</i><br><i>Source: TRI_FACILITY.TRI_FACILITY_ID</i><br><i>Reference: Part I, Section 4.1</i> |
| 4   | FACILITY NAME          | C    | Name of the reporting facility.<br><i>Source: TRI_FACILITY.FACILITY_NAME</i><br><i>Reference: Part I, Section 4.1</i>   |
| 5   | FACILITY STREET        | C    | Street address of the reporting facility.<br><i>Source: TRI_FACILITY.STREET_ADDRESS</i><br><i>Reference: Part I, Section 4.1</i>  |
| 6   | FACILITY CITY          | C    | City in which the reporting facility is located.<br><i>Source: TRI_FACILITY.CITY_NAME</i><br><i>Reference: Part I, Section 4.1</i>  |
| 7   | FACILITY COUNTY        | C    | County in which the reporting facility is located.<br><i>Source: TRI_FACILITY.COUNTY_NAME</i><br><i>Reference: Part I, Section 4.1</i>  |
| 8   | FACILITY STATE         | C    | Two-letter state code of the reporting facility.<br><i>Source: TRI_FACILITY.STATE_ABBR</i><br><i>Reference: Part I, Section 4.1</i>   |
| 9   | FACILITY ZIP CODE      | C    | ZIP code of the reporting facility.<br><i>Source: TRI_FACILITY.ZIP_CODE</i><br><i>Reference: Part I, Section 4.1</i>  |
| 10  | BIA CODE               | C    | Three-letter code indicating the tribal land a facility is on.<br><i>Source: FACILITY.BIA_TRIBAL_CODE</i>   |
| 11  | TRIBE                  | C    | The name of the Tribe.<br><i>Source: V_INDIAN_COUNTRY.</i>  |
| 12  | ENTIRE FACILITY IND    | C    | Indicates whether the information covers an entire facility or part of a facility.  |

| No. | Field Name           | Type | Description  |
|-----|----------------------|------|--|
|     |                      |      | <p>Yes = entire<br/>No = partial<br/> <i>Source: TRI_REPORTING_FORM.ENTIRE_FAC</i><br/> <i>Reference: Part I, Section 4.2a</i></p>   |
| 13  | PARTIAL FACILITY IND | C    | <p>Indicates whether the information covers an entire facility or part of a facility:<br/> Yes = partial<br/> No = entire<br/> <i>Source: TRI_REPORTING_FORM.PARTIAL_FAC</i><br/> <i>Reference: Part I, Section 4.2b</i></p>                   |
| 14  | FEDERAL FACILITY IND | C    | <p>Code indicating whether a facility is a federal facility or not. Reported by facility.<br/> Yes = Federal<br/> No = non-Federal Value<br/> <i>Source: TRI_REPORTING_FORM.FEDERAL_FAC_IND</i><br/> <i>Reference: Part I Section 4.2c</i></p> |
| 15  | GOCO FACILITY IND    | C    | <p>Code indicating whether a facility is a GOCO (Government Owned, Contractor-Operated) facility or not:<br/> Yes = GOCO<br/> No = non-GOCO<br/> <i>Source: TRI_REPORTING_FORM.GOCO_FLAG</i><br/> <i>Reference: Part I Section 4.2d</i></p>    |
| 16  | PRIMARY SIC CODE     | C    | <p>Primary four-digit Standard Industrial Classification (SIC) code.<br/> <i>Source: TRI_SUBMISSION_SIC.SIC_CODE</i><br/> <i>Where: primary_ind = &gt;1'</i><br/> <i>Reference: Part I, Section 4.5a</i></p>                                   |
| 17  | SIC CODE 2           | C    | <p>Second four-digit Standard Industrial Classification (SIC) code entered by facility.<br/> <i>Source: TRI_SUBMISSION_SIC.SIC_CODE</i><br/> <i>Where: sic_sequence_num = &gt;2'</i><br/> <i>Reference: Part I, Section 4.5b</i></p>           |
| 18  | SIC CODE 3           | C    | <p>Third four-digit Standard Industrial Classification (SIC) code entered by facility.<br/> <i>Source: TRI_SUBMISSION_SIC.SIC_CODE</i><br/> <i>Where: sic_sequence_num = &gt;3'</i><br/> <i>Reference: Part I, Section 4.5c</i></p>            |
| 19  | SIC CODE 4           | C    | <p>Fourth four-digit Standard Industrial Classification (SIC) code entered by facility.<br/> <i>Source: TRI_SUBMISSION_SIC.SIC_CODE</i><br/> <i>Where: sic_sequence_num = &gt;4'</i><br/> <i>Reference: Part I, Section 4.5d</i></p>           |
| 20  | SIC CODE 5           | C    | <p>Fifth four-digit Standard Industrial Classification (SIC) code entered by facility.<br/> <i>Source: TRI_SUBMISSION_SIC.SIC_CODE</i><br/> <i>Where: sic_sequence_num = &gt;5'</i><br/> <i>Reference: Part I, Section 4.5e</i></p>            |

| No. | Field Name         | Type | Description   |
|-----|--------------------|------|---|
| 21  | SIC CODE 6         | C    | Sixth four-digit Standard Industrial Classification (SIC) code entered by facility.<br><i>Source:</i> <b>TRI_SUBMISSION_SIC.SIC_CODE</b><br><i>Where:</i> sic_sequence_num = >6'<br><i>Reference:</i> Part I, Section 4.5f  |
| 22  | NAICS ORIGIN       | C    | Indicates whether NAICS codes were reported or assigned.<br>R = Reported<br>A = Assigned  |
| 23  | PRIMARY NAICS CODE | C    | Primary six-digit North American Standard Industry Classification System (NAICS) code.<br><i>Source:</i> <b>TRI_SUBMISSION_NAICS.NAICS_CODE</b><br><i>Where:</i> primary_ind => 1<br><i>Reference:</i> Part I, Section 4.5a   |
| 24  | NAICS CODE 2       | C    | Second six-digit North American Standard Industry Classification System (NAICS) code entered by facility<br><i>Source:</i> <b>TRI_SUBMISSION_NAICS.NAICS_CODE</b><br><i>Where:</i> naics_sequence_num = 2<br><i>Reference:</i> Part I, Section 4.5b   |
| 25  | NAICS CODE 3       | C    | Third six-digit North American Standard Industry Classification System (NAICS) code entered by facility.<br><i>Source:</i> <b>TRI_SUBMISSION_NAICS.NAICS_CODE</b><br><i>Where:</i> naics_sequence_num = 3<br><i>Reference:</i> Part I, Section 4.5b   |
| 26  | NAICS CODE 4       | C    | Forth six-digit North American Standard Industry Classification System (NAICS) code entered by facility<br><i>Source:</i> <b>TRI_SUBMISSION_NAICS.NAICS_CODE</b><br><i>Where:</i> naics_sequence_num = 4<br><i>Reference:</i> Part I, Section 4.5b  |
| 27  | NAICS CODE 5       | C    | Fifth six-digit North American Standard Industry Classification System (NAICS) code entered by facility<br><i>Source:</i> <b>TRI_SUBMISSION_NAICS.NAICS_CODE</b><br><i>Where:</i> naics_sequence_num = 5<br><i>Reference:</i> Part I, Section 4.5b  |
| 28  | NAICS CODE 6       | C    | Sixth six-digit North American Standard Industry Classification System (NAICS) code entered by facility<br><i>Source:</i> <b>TRI_SUBMISSION_NAICS.NAICS_CODE</b><br><i>Where:</i> naics_sequence_num = 6<br><i>Reference:</i> Part I, Section 4.5b  |
| 29  | 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).<br><i>Source:</i> <b>EPA's Facility Registry System</b> |
| 30  | 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-   |

| No. | Field Name            | Type | Description   |
|-----|-----------------------|------|---|
|     |                       |      | digit whole number, 6 digit decimal positions (+nnn.nnnnnn).<br><i>Source: EPA's Facility Registry System</i>   |
| 31  | D&B NR A              | C    | Unique identification number assigned by Dun and Bradstreet to the reporting facility.<br><i>Source: TRI_FACILITY_DB.DB_NUM</i><br><i>Reference: Part I, Section 4.7a</i>   |
| 32  | D&B NR B              | C    | Unique identification number assigned by Dun and Bradstreet to the reporting facility.<br><i>Source: TRI_FACILITY_DB.DB_NUM</i><br><i>Reference: Part I, Section 4.7b</i>   |
| 33  | RCRA NR A             | C    | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br><i>Source: EPA's Facility Registry System</i>                  |
| 34  | RCRA NR B             | C    | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br><i>Source: EPA's Facility Registry System</i>                  |
| 35  | 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 and began obtaining them from EPA's Facility Registry System (FRS).<br><i>Source: EPA's Facility Registry System</i> |
| 36  | 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 and began obtaining them from EPA's Facility Registry System (FRS).<br><i>Source: EPA's Facility Registry System</i> |
| 37  | 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 and began obtaining them from EPA's Facility Registry System (FRS).<br><i>Source: EPA's Facility Registry System</i>                                     |
| 38  | 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 and began obtaining them from EPA's Facility Registry System (FRS).<br><i>Source: EPA's Facility Registry System</i>                                     |
| 39  | PARENT COMPANY NAME   | C    | Name of the corporation or other business entity that controls the reporting facility.<br><i>Source: TRI_FACILITY.PARENT_CO_NAME</i><br><i>Reference: Part I, Section 5.1</i>   |
| 40  | PARENT COMPANY D&B NR | C    | Unique identification number assigned by Dun and Bradstreet to the parent company of the reporting facility.<br><i>Source: TRI_FACILITY.PARENT_CO_DB_NUM</i>  |



| No. | Field Name              | Type | Description   |
|-----|-------------------------|------|---|
|     |                         |      | <i>Reference: Part I, Section 5.2</i>   |
| 41  | DOCUMENT CONTROL NUMBER | C    | <p>Unique identification number assigned to each submission by EPA. Format: TTYMMMMNNNNNC, where</p> <p>TT = document type<br/> YY = reporting year<br/> MMM = document type<br/> NNNNN= sequential number<br/> C = check digit</p> <p><i>Source: TRI_REPORTING_FORM.DOC_CTRL_NUM</i><br/> <i>Reference: NA (System-generated)</i></p>  |
| 42  | CAS NUMBER              | C    | <p>Chemical Abstracts Service (CAS) Registry Number for unique chemical, or category code (for compounds).</p> <p><b>NOTE:</b> CAS number 999999999 is for sanitized trade secret submissions; CHEM_NAME displays the reported generic chemical name.</p> <p><i>Source: TRI_REPORTING_FORM.TRI_CHEM_ID</i><br/> <i>Reference: Part II, Section 1.1</i></p>  |
| 43  | CHEMICAL NAME           |      | <p>Name of the chemical or generic name if the chemical is claimed as a trade secret.</p> <p><i>Source: TRI_REPORTING_FORM.CAS_CHEM_NAME</i><br/> <i>Reference: Part II, Section 1.2 or Part II, Section 1.3</i></p>  |
| 44  | CLASSIFICATION          | C    | <p>Indicates the classification of the chemical. Chemicals can be classified as either a Dioxin or Dioxin-like compound, a Persistent, Bioaccumulative and Toxic chemical or a general EPCRA Section 313 chemical.</p> <p>Values: {TRI, PBT, DIOXIN} where:<br/> TRI = General EPCRA Section 313 Chem.<br/> PBT = Bioaccumulative and Toxic<br/> DIOXIN = Dioxin or Dioxin-like compound</p> <p><i>Source: TRI_CHEM_INFO.CLASSIFICATION</i><br/> <i>Reference: NONE</i></p> |
| 45  | UNIT OF MEASURE         | C    | <p>Indicates the unit of measure used to quantify the chemical. Dioxin and dioxin-like compounds are measured in grams, while all other TRI chemicals are measured in pounds. Values: {Pounds, Grams}</p> <p><i>Source: TRI_CHEM_INFO.UNIT_OF_MEASURE</i><br/> <i>Reference: NONE</i></p>   |
| 46  | DIOXIN DISTRIBUTION 1   | N    | <p>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).</p> <p><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_1</i><br/> <i>Reference: Part II, Section 1.4</i></p>   |
| 47  | DIOXIN DISTRIBUTION 2   | N    | <p>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).</p> <p><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_2</i></p>   |

| No. | Field Name             | Type | Description   |
|-----|------------------------|------|---|
|     |                        |      | <i>Reference: Part II, Section 1.4</i>  |
| 48  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_3</i><br><i>Reference: Part II, Section 1.4</i>         |
| 49  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_4</i><br><i>Reference: Part II, Section 1.4</i>         |
| 50  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_5</i><br><i>Reference: Part II, Section 1.4</i>         |
| 51  | DIOXIN DISTRIBUTION 6  | N    | Indicates the percentage of 2,3,4,6,7,8 Hexachlorodibenzofuran (CAS # 60851-34-5) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_6</i><br><i>Reference: Part II, Section 1.4</i>         |
| 52  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_7</i><br><i>Reference: Part II, Section 1.4</i>     |
| 53  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_8</i><br><i>Reference: Part II, Section 1.4</i>    |
| 54  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_9</i><br><i>Reference: Part II, Section 1.4</i>     |
| 55  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_10</i><br><i>Reference: Part II, Section 1.4</i> |
| 56  | DIOXIN DISTRIBUTION 11 | N    | Indicates the percentage of 1,2,3,4,6,7,8,9   |

| No. | Field Name                      | Type | Description  |
|-----|---------------------------------|------|--|
|     |                                 |      |  |
|     |                                 |      | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_11</i><br><i>Reference: Part II, Section 1.4</i>   |
| 57  | DIOXIN DISTRIBUTION 12          | N    | Indicates the percentage of 1,2,3,4,6,7,8,9 Octachlorodibenzo-p-dioxin (CAS # 03268-87-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_12</i><br><i>Reference: Part II, Section 1.4</i>   |
| 58  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_13</i><br><i>Reference: Part II, Section 1.4</i>  |
| 59  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_14</i><br><i>Reference: Part II, Section 1.4</i>  |
| 60  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_15</i><br><i>Reference: Part II, Section 1.4</i>  |
| 61  | 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).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_16</i><br><i>Reference: Part II, Section 1.4</i>  |
| 62  | DIOXIN DISTRIBUTION 17          | N    | Indicates the percentage of 2,3,7,8 Tetrachlorodibenzo-p-dioxin (CAS # 01746-01-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive).<br><i>Source: TRI_REPORTING_FORM.DIOXIN_DISTRIBUTION_17</i><br><i>Reference: Part II, Section 1.4</i>  |
| 63  | STREAM 1 – WASTE<br>STREAM CODE | C    | This field indicates the type of general waste stream containing the reported chemical that is being treated. Indicator values are:<br><div style="margin-left: 40px;"> A = gaseous<br/> W = wastewater<br/> L = liquid waste<br/> S = solid waste </div> <i>Source: TRI_ONSITE_WASTESTREAM.WASTESTREAM_CODE</i><br><i>Reference: Part II, Section 7A.1a</i> |

| No. | Field Name                              | Type | Description   |
|-----|---|------|---|
| 64  | STREAM 1 - TRTMT<br>METHOD - SEQUENCE 1 | C    | Code corresponding to the first treatment method used on waste stream 1, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.1b  |
| 65  | STREAM 1 - TRTMT<br>METHOD - SEQUENCE 2 | C    | Code corresponding to the second treatment method used on waste stream 1, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.1b |
| 66  | STREAM 1 - TRTMT<br>METHOD - SEQUENCE 3 | C    | Code corresponding to the third treatment method used on waste stream 1, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.1b  |
| 67  | STREAM 1 - TRTMT<br>METHOD - SEQUENCE 4 | C    | Code corresponding to the fourth treatment method used on waste stream 1, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.1b |
| 68  | STREAM 1 - TRTMT<br>METHOD - SEQUENCE 5 | C    | Code corresponding to the fifth treatment method used on waste stream 1, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.1b  |
| 69  | STREAM 1 - TRTMT<br>METHOD - SEQUENCE 6 | C    | Code corresponding to the sixth treatment method used on waste stream 1, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.1b  |

| No. | Field Name                           | Type | Description   |
|-----|--------------------------------------|------|---|
| 70  | STREAM 1 - TRTMT METHOD - SEQUENCE 7 | C    | Code corresponding to the seventh treatment method used on waste stream 1, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.1b                            |
| 71  | STREAM 1 - TRTMT METHOD - SEQUENCE 8 | C    | Code corresponding to the eighth treatment method used on waste stream 1, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.1b                             |
| 72  | STREAM 1 - RANGE INFLUENT CONCENT    | C    | Code corresponding to the range concentration of the chemical as it typically enters the specified waste treatment step or sequence. This data no longer collected as of RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.INFLUENT_CONC_RANGE</b><br><i>Reference:</i> Part II, Section 7A.1c   |
| 73  | STREAM 1 - TRTMT EFFICIENCY EST      | C    | Estimate of the percentage of the chemical removed from the waste stream through destruction, biological degradation, chemical conversion, or physical removal. Reported as a two-character range code beginning in RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.TREATMENT_EFFICIENCY_EST</b><br><i>Reference:</i> Part II, Section 7A.1.c                  |
| 74  | STREAM 1 - BASED ON OPERATING DATA?  | C    | Indicates whether or not the information given in the EFFICIENCY field is based on operating data. Value is either "yes" or "no." This data no longer collected as of RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.OPERATING_DATA_IND</b><br><i>Reference:</i> Part II, Section 7A.1.e  |
| 75  | STREAM 2 - WASTE STREAM CODE         | C    | This field indicates the type of general waste stream containing the reported chemical that is being treated. Indicator values are:<br><div style="margin-left: 40px;"> A = gaseous<br/> W = wastewater<br/> L = liquid waste<br/> S = solid waste </div> <i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.WASTESTREAM_CODE</b><br><i>Reference:</i> Part II, Section 7A.2a |
| 76  | STREAM 2 - TRTMT METHOD - SEQUENCE 1 | C    | Code corresponding to the first treatment method used on waste stream 2, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b>  |

| No. | Field Name                              | Type | Description   |
|-----|---|------|---|
|     |   |      | <i>Reference: Part II, Section 7A.2b</i>  |
| 77  | STREAM 2 - TRTMT<br>METHOD - SEQUENCE 2 | C    | Code corresponding to the second treatment method used on waste stream 2, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source: TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</i><br><i>Reference: Part II, Section 7A.2b</i>  |
| 78  | STREAM 2 - TRTMT<br>METHOD - SEQUENCE 3 | C    | Code corresponding to the third treatment method used on waste stream 2, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source: TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</i><br><i>Reference: Part II, Section 7A.2b</i>   |
| 79  | STREAM 2 - TRTMT<br>METHOD - SEQUENCE 4 | C    | Code corresponding to the fourth treatment method used on waste stream 2, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source: TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</i><br><i>Reference: Part II, Section 7A.2b</i>  |
| 80  | STREAM 2 - TRTMT<br>METHOD - SEQUENCE 5 | C    | Code corresponding to the fifth treatment method used on waste stream 2, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source: TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</i><br><i>Reference: Part II, Section 7A.2b</i>   |
| 81  | STREAM 2 - TRTMT<br>METHOD - SEQUENCE 6 | C    | Code corresponding to the sixth treatment method used on waste stream 2, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source: TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</i><br><i>Reference: Part II, Section 7A.2b</i>   |
| 82  | STREAM 2 - TRTMT<br>METHOD - SEQUENCE 7 | C    | Code corresponding to the seventh treatment method used on waste stream 2, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source: TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</i><br><i>Reference: Part II, Section 7A.2b</i> |

| No. | Field Name                           | Type | Description   |
|-----|--------------------------------------|------|---|
| 83  | STREAM 2 - TRTMT METHOD - SEQUENCE 8 | C    | Code corresponding to the eighth treatment method used on waste stream 2, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i><br><b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.2b                          |
| 84  | STREAM 2 - RANGE INFLUENT CONCENT    | C    | Code corresponding to the range concentration of the toxic chemical as it typically enters the specified waste treatment step or sequence. This data no longer collected as of RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.INFLUENT_CONC_RANGE</b><br><i>Reference:</i> Part II, Section 7A.2c   |
| 85  | STREAM 2 - TRTMT EFFICIENCY EST      | C    | Estimate of the percentage of the chemical removed from the waste stream through destruction, biological degradation, chemical conversion, or physical removal. Reported as a two-character range code beginning in RY 2006.<br><i>Source:</i><br><b>TRI_ONSITE_WASTESTREAM.TREATMENT_EFFICIENCY_EST</b><br><i>Reference:</i> Part II, Section 7A.2.d               |
| 86  | STREAM 2 - BASED ON OPERATING DATA?  | C    | Indicates whether or not the information given in the EFFICIENCY field is based on operating data. Value is either "yes" or "no." This data no longer collected as of RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.OPERATING_DATA_IND</b><br><i>Reference:</i> Part II, Section 7A.2.e  |
| 87  | STREAM 3 - WASTE STREAM CODE         | C    | This field indicates the type of general waste stream containing the reported chemical that is being treated. Indicator values are:<br><div style="margin-left: 40px;"> A = gaseous<br/> W = wastewater<br/> L = liquid waste<br/> S = solid waste </div> <i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.WASTESTREAM_CODE</b><br><i>Reference:</i> Part II, Section 7A.3a |
| 88  | STREAM 3 - TRTMT METHOD - SEQUENCE 1 | C    | Code corresponding to the first treatment method used on waste stream 3, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.3b                              |
| 89  | STREAM 3 - TRTMT METHOD- SEQUENCE 2  | C    | Code corresponding to the second treatment method used on waste stream 3, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b>   |



| No. | Field Name                          | Type | Description   |
|-----|-------------------------------------|------|---|
| 90  | STREAM 3 - TRTMT METHOD- SEQUENCE 3 | C    | Code corresponding to the third treatment method used on waste stream 3, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b>              |
| 91  | STREAM 3 - TRTMT METHOD- SEQUENCE 4 | C    | Code corresponding to the fourth treatment method used on waste stream 3, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b>             |
| 92  | STREAM 3 - TRTMT METHOD- SEQUENCE 5 | C    | Code corresponding to the fifth treatment method used on waste stream 3, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b>              |
| 93  | STREAM 3 - TRTMT METHOD- SEQUENCE 6 | C    | Code corresponding to the sixth treatment method used on waste stream 3, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b>              |
| 94  | STREAM 3 - TRTMT METHOD- SEQUENCE 7 | C    | Code corresponding to the seventh treatment method used on waste stream 3, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b>            |
| 95  | STREAM 3 - TRTMT METHOD- SEQUENCE 8 | C    | Code corresponding to the eighth treatment method used on waste stream 3, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b>             |
| 96  | STREAM 3 - RANGE INFLUENT CONCENT   | C    | Code corresponding to the range concentration of the toxic chemical as it typically enters the specified waste treatment step or sequence. This data no longer collected as of RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.INFLUENT_CONC_RANGE</b><br><i>Reference:</i> Part II, Section 7A.3c |
| 97  | STREAM 3 - TRTMT EFFICIENCY EST     | C    | Estimate of the percentage of the chemical removed from the waste stream through destruction, biological degradation, chemical conversion, or physical removal. Reported as a two-character range code beginning in RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.TREATMENT_EFFICIENCY_EST</b>   |



| No. | Field Name                           | Type | Description   |
|-----|--------------------------------------|------|---|
|     |                                      |      | <i>Reference:</i> Part II, Section 7A.3.d   |
| 98  | STREAM 3 - BASED ON OPERATING DATA?  | C    | <p>Indicates that the information given in the EFFICIENCY field is based on operating data. Value is either “yes” or “no”. This data no longer collected as of RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.OPERATING_DATA_IND</b></p> <p><i>Reference:</i> Part II, Section 7A.3.e</p>   |
| 99  | STREAM 4 - WASTE STREAM CODE         | C    | <p>This field indicates the type of general waste stream containing the reported chemical that is being treated. Indicator values are:</p> <p style="margin-left: 40px;">A = gaseous<br/>W = wastewater<br/>L = liquid waste<br/>S = solid waste</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.WASTESTREAM_CODE</b></p> <p><i>Reference:</i> Part II, Section 7A.4a</p> |
| 100 | STREAM 4 - TRTMT METHOD - SEQUENCE 1 | C    | <p>Code corresponding to the first treatment method used on waste stream 4, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b></p> <p><i>Reference:</i> Part II, Section 7A.4.b</p>                    |
| 101 | STREAM 4 - TRTMT METHOD – SEQUENCE 2 | C    | <p>Code corresponding to the second treatment method used on waste stream 4, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b></p> <p><i>Reference:</i> Part II, Section 7A.4.b</p>                   |
| 102 | STREAM 4 - TRTMT METHOD - SEQUENCE 3 | C    | <p>Code corresponding to the third treatment method used on waste stream 4, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b></p> <p><i>Reference:</i> Part II, Section 7A.4.b</p>                    |
| 103 | STREAM 4 - TRTMT METHOD - SEQUENCE 4 | C    | <p>Code corresponding to the fourth treatment method used on waste stream 4, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b></p> <p><i>Reference:</i> Part II, Section 7A.4.b</p>                   |
| 104 | STREAM 4 - TRTMT METHOD - SEQUENCE 5 | C    | <p>Code corresponding to the fifth treatment method used on waste stream 4, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_</b></p>  |

| No. | Field Name                           | Type | Description   |
|-----|--------------------------------------|------|---|
|     |                                      |      | <b>MET.TREATMENT_METHOD_CODE</b><br><i>Reference: Part II, Section 7A.4.b</i>   |
| 105 | STREAM 4 - TRTMT METHOD - SEQUENCE 6 | C    | Code corresponding to the sixth treatment method used on waste stream 4, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source: TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</i><br><i>Reference: Part II, Section 7A.4.b</i>                  |
| 106 | STREAM 4 - TRTMT METHOD - SEQUENCE 7 | C    | Code corresponding to the seventh treatment method used on waste stream 4, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source: TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</i><br><i>Reference: Part II, Section 7A.4.b</i>                |
| 107 | STREAM 4 - TRTMT METHOD - SEQUENCE 8 | C    | Code corresponding to the eighth treatment method used on waste stream 4, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.<br><i>Source: TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</i><br><i>Reference: Part II, Section 7A.4.b</i>                 |
| 108 | STREAM 4 - RANGE INFLUENT CONCENT    | C    | Code corresponding to the range concentration of the toxic chemical as it typically enters the specified waste treatment step or sequence. This data no longer collected as of RY 2006.<br><i>Source: TRI_ONSITE_WASTESTREAM.INFLUENT_CONC_RANGE</i><br><i>Reference: Part II, Section 7A.4.c</i>   |
| 109 | STREAM 4 - TRTMT EFFICIENCY EST      | N    | Estimate of the percentage of the toxic chemical removed from the waste stream through destruction, biological degradation, chemical conversion, or physical removal. Reported as a two-character range code beginning in RY 2006.<br><i>Source: TRI_ONSITE_WASTESTREAM.TREATMENT_EFFICIENCY_EST</i><br><i>Reference: Part II, Section 7A.4.d</i> |
| 110 | STREAM 4 - BASED ON OPERATING DATA?  | C    | Indicates that the information given in the EFFICIENCY field is based on operating data. Value is either "yes" or "no". This data no longer collected as of RY 2006.<br><i>Source: TRI_ONSITE_WASTESTREAM.OPERATING_DATA_IND</i><br><i>Reference: Part II, Section 7A.4.e</i>   |
| 111 | STREAM 5 - WASTE STREAM CODE         | C    | This field indicates the type of general waste stream containing the reported chemical that is being treated. Indicator values are:<br>A = gaseous<br>W = wastewater<br>L = liquid waste  |

| No. | Field Name                           | Type | Description   |
|-----|--------------------------------------|------|---|
|     |                                      |      | <p>S = solid waste</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM</b>.WASTESTREAM_CODE</p> <p><i>Reference:</i> Part II, Section 7A.5a</p>   |
| 112 | STREAM 5 - TRTMT METHOD - SEQUENCE 1 | C    | <p>Code corresponding to the first treatment method used on waste stream 5, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET</b>.TREATMENT_METHOD_CODE</p> <p><i>Reference:</i> Part II, Section 7A.5.b</p>  |
| 113 | STREAM 5 - TRTMT METHOD - SEQUENCE 2 | C    | <p>Code corresponding to the second treatment method used on waste stream 5, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET</b>.TREATMENT_METHOD_CODE</p> <p><i>Reference:</i> Part II, Section 7A.5.b</p> |
| 114 | STREAM 5 - TRTMT METHOD - SEQUENCE 3 | C    | <p>Code corresponding to the third treatment method used on waste stream 5, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET</b>.TREATMENT_METHOD_CODE</p> <p><i>Reference:</i> Part II, Section 7A.5.b</p>  |
| 115 | STREAM 5 - TRTMT METHOD - SEQUENCE 4 | C    | <p>Code corresponding to the fourth treatment method used on waste stream 5, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET</b>.TREATMENT_METHOD_CODE</p> <p><i>Reference:</i> Part II, Section 7A.5.b</p> |
| 116 | STREAM 5 - TRTMT METHOD - SEQUENCE 5 | C    | <p>Code corresponding to the fifth treatment method used on waste stream 5, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET</b>.TREATMENT_METHOD_CODE</p> <p><i>Reference:</i> Part II, Section 7A.5.b</p>  |
| 117 | STREAM 5 - TRTMT METHOD - SEQUENCE 6 | C    | <p>Code corresponding to the sixth treatment method used on waste stream 5, regardless of whether the waste treatment method actually removes the specific chemical being reported. Some new codes for RY 2006.</p> <p><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET</b>.TREATMENT_METHOD_CODE</p> <p><i>Reference:</i> Part II, Section 7A.5.b</p>  |
| 118 | STREAM 5 - TRTMT METHOD - SEQUENCE 7 | C    | <p>Code corresponding to the seventh treatment method used on waste stream 5, regardless of whether the waste treatment</p>   |

| No. | Field Name                           | Type | Description  |
|-----|--------------------------------------|------|--|
|     |                                      |      | method actually removes the specific chemical being reported.<br>Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.5.b  |
| 119 | STREAM 5 - TRTMT METHOD - SEQUENCE 8 | C    | Code corresponding to the eighth treatment method used on waste stream 5, regardless of whether the waste treatment method actually removes the specific chemical being reported.<br>Some new codes for RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTE_TREATMENT_MET.TREATMENT_METHOD_CODE</b><br><i>Reference:</i> Part II, Section 7A.5.b              |
| 120 | STREAM 5 - RANGE INFLUENT CONCENT    | C    | Code corresponding to the range concentration of the toxic chemical as it typically enters the specified waste treatment step or sequence. This data no longer collected as of RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.INFLUENT_CONC_RANGE</b><br><i>Reference:</i> Part II, Section 7A.5.c   |
| 121 | STREAM 5 - TRTMT EFFICIENCY EST      | N    | Estimate of the percentage of the toxic chemical removed from the waste stream through destruction, biological degradation, chemical conversion, or physical removal. Reported as a two-character range code beginning in RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.TREATMENT_EFFICIENCY_EST</b><br><i>Reference:</i> Part II, Section 7A.5.d |
| 122 | STREAM 5 - BASED ON OPERATING DATA?  | C    | Indicates that the information given in the EFFICIENCY field is based on operating data. Value is either "yes" or "no". This data no longer collected as of RY 2006.<br><i>Source:</i> <b>TRI_ONSITE_WASTESTREAM.OPERATING_DATA_IND</b><br><i>Reference:</i> Part II, Section 7A.5.e   |
| 123 | ASSIGNED FED. FACILITY FLAG          | C    | Code indicating whether this is a federal facility or not. Assigned by TRI.<br>Yes = Federal<br>No = Non-Federal<br><i>Source:</i> <b>TRI_FACILITY.ASGN_FEDERAL</b>  |
| 124 | PUBLIC CONTACT EMAIL                 | C    | Email address of the person at the facility whom the public may contact with questions about the facility's data.<br><i>Source:</i> <b>TRI_REPORTING_FORM.PUBLIC_CONTACT_PERSON_EMAIL</b><br><i>Reference:</i> Part I, Section 4.4   |
| 125 | REVISION CODE 1                      | C    | Code indicating the reason the facility revised its data, if applicable. Values:<br>RR1 = New Monitoring Data RR2 =<br>New Emission Factors<br>RR3 = New Chemical Concentration Data RR4 =<br>Recalculation(s)<br>RR5 = Other Reason(s)<br><i>Source:</i> <b>TRI_REPORTING_FORM.Revision_Code_1</b>  |
| 126 | REVISION CODE 2                      | C    | Second code indicating the reason the facility revised its   |

| No. | Field Name | Type | Description  |
|-----|------------|------|--|
|     |            |      |  |
|     |            |      | data, if applicable. Values:<br>RR1 = New Monitoring Data RR2 =<br>New Emission Factors<br>RR3 = New Chemical Concentration Data RR4 =<br>Recalculation(s)<br>RR5 = Other Reason(s)<br><i>Source: TRI_REPORTING_FORM.Revision_Code_2</i> |
| 127 | METAL_IND  | C    | Code indicating whether the chemical is a metal or not.<br>Yes = Metal<br>No = Non-Metal<br><i>Source: TRI_CHEM_INFO.Metal_Ind</i>   |

## **APPENDIX – LIST OF VALUES**

### **Section 7A. On-Site Waste Treatment Methods and Efficiency General Waste Stream**

- A Gaseous (gases, vapors, airborne particulates) W  
Wastewater (aqueous waste)
- L Liquid waste streams (non-aqueous waste)
- S Solid waste streams (including sludges and slurries) **Waste Treatment**

### **Methods (New list for Codes for RY 2006) Air Emissions Treatment**

- A01 Flare
- A02 Condenser
- A03 Scrubber
- A04 Absorber
- A05 Electrostatic Precipitator
- A06 Mechanical Separation
- A07 Other Air Emission Treatment

### **Chemical Treatment**

- H040 Incineration--thermal destruction other than use as a fuel
- H071 Chemical reduction with or without precipitation
- H073 Cyanide destruction with or without precipitation
- H075 Chemical oxidation
- H076 Wet air oxidation
- H077 Other chemical precipitation with or without pre-treatment

### **Biological Treatment**

- H081 Biological treatment with or without precipitation

### **Physical Treatment**

- H082 Adsorption
- H083 Air or steam stripping
- H101 Sludge treatment and/or dewatering
- H103 Absorption
- H111 Stabilization or chemical fixation prior to disposal
- H112 Macro-encapsulation prior to disposal
- H121 Neutralization
- H122 Evaporation
- H123 Settling or clarification
- H124 Phase separation
- H129 Other treatment

### **Section 7B. On-Site Energy Recovery Processes**

- U01 Industrial Kiln
- U02 Industrial Furnace
- U03 Industrial Boiler

## Section 7C. On-Site Recycling Processes

- 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)

## Crosswalk for Section 7A, Column B. Waste Treatment Method (s) Sequence

| Air Emissions Treatment (applicable to gaseous waste streams only)<br>(No change - same as previous codes) |                              |  |  |
|--|------------------------------|--|--|
| A01  | Flare                        |  |  |
| A02  | Condenser                    |  |  |
| A03  | Scrubber                     |  |  |
| A04  | Absorber                     |  |  |
| A05  | Electrostatic Precipitator   |  |  |
| A06  | Mechanical Separation        |  |  |
| A07  | Other Air Emission Treatment |  |  |
| Previous Codes   |                              | New Codes (adapted from RCRA Hazardous Waste Management Codes) |  |
| Biological Treatment:  |                              |  |  |
| B11  | Aerobic                      | H081   | Biological treatment with or without precipitation |
| B21  | Anaerobic                    | H081   | Biological treatment with or without precipitation |
| B31  | Facultative                  | H081   | Biological treatment with or without precipitation |
| B99  | Other Biological Treatment   | H081   | Biological treatment with or without precipitation |
|  |                              |  |  |

| Previous Codes      |   | New Codes (adapted from RCRA Hazardous Waste Management Codes) |  |
|---------------------|---|--|--|
|                     |   |  |  |
| Chemical Treatment: |   |  |  |
| C01                 | Chemical Precipitation B Lime or Sodium Hydroxide | H071   | Chemical reduction with or without precipitation           |
| C02                 | Chemical Precipitation B Sulfide                  | H071   | Chemical reduction with or without precipitation           |
| C09                 | Chemical Precipitation B Other                    | H077   | Other chemical precipitation with or without pre-treatment |
| C11                 | Neutralization                                    | H121   | Neutralization   |

|  |   |  |   |
|--|---|--|---|
| C21  | Chromium Reduction  | H071   | Chemical reduction with or without precipitation            |
| C31  | Complexed Metals Treatment (other than pH adjustment)     | H129   | Other treatment   |
| C41  | Cyanide Oxidation B Alkaline Chlorination                 | H073   | Cyanide destruction with or without precipitation           |
| C42  | Cyanide Oxidation B Electrochemical                       | H073   | Cyanide destruction with or without precipitation           |
| C43  | Cyanide Oxidation B Other                                 | H073   | Cyanide destruction with or without precipitation           |
| C44  | General Oxidation (including Disinfection) B Chlorination | H075   | Chemical oxidation  |
| C45  | General Oxidation (including Disinfection) B Ozonation    | H075   | Chemical oxidation  |
| C46  | General Oxidation (including Disinfection) B Other        | H075   | Chemical oxidation  |
| C99  | Other Chemical Treatment                                  | H129   | Other treatment   |
| <p>Incineration/Thermal Treatment: (Note: Only report combustion for the purposes of incineration/thermal treatment in Section 7A. If the method involves combustion for the purposes of energy recover, report as U01, U02, or U03 in Section 7B. If the method involves combustion for the purposes of materials recovery, report as H39 in Section 7C.)</p> |   |  |   |
| F01  | Liquid Injection  | H040   | Incineration B thermal destruction other than use as a fuel |
| F11  | Rotary Kiln with Liquid Injection Unit                    | H040   | Incineration B thermal destruction other than use as a fuel |
| F19  | Other Rotary Kiln   | H040   | Incineration B thermal destruction other than use as a fuel |
| F31  | Two Stage   | H040   | Incineration B thermal destruction other than use as a fuel |
| F41  | Fixed Hearth  | H040   | Incineration B thermal destruction other than use as a fuel |
| Previous Codes   |   | New Codes (adapted from RCRA Hazardous Waste Management Codes) |   |
| F42  | Multiple Hearth   | H040   | Incineration B thermal destruction other than use as a fuel |
| F51  | Fluidized Bed   | H040   | Incineration B thermal destruction other than use as a fuel |
| F61  | Infra-Red   | H040   | Incineration B thermal destruction other than use as a fuel |



|                               |  |  |   |
|-------------------------------|--|--|---|
| F71                           | Fume/Vapor                                     | H040   | Incineration B thermal destruction other than use as a fuel |
| F81                           | Pyrolytic destructor                           | H040   | Incineration B thermal destruction other than use as a fuel |
| F82                           | Wet air oxidation                              | H076   | Wet air oxidation   |
| F83                           | Thermal Drying/Dewatering                      | H122   | Evaporation   |
| F99                           | Other Incineration/Thermal Treatment           | H040   | Incineration B thermal destruction other than use as a fuel |
| Physical Treatment:           |  |  |   |
| P01                           | Equalization                                   | H129   | Other treatment   |
| P09                           | Other blending                                 | H129   | other treatment   |
| P11                           | Settling/clarification                         | H123   | Settling or clarification                                   |
| P12                           | Filtration                                     | H123   | Settling or clarification                                   |
| P13                           | Sludge dewatering (non-thermal)                | H101   | Sludge treatment and/or dewatering                          |
| P14                           | Air flotation                                  | H124   | Phase separation  |
| P15                           | Oil skimming                                   | H124   | Phase separation  |
| P16                           | Emulsion breaking B thermal                    | H124   | Phase separation  |
| P17                           | Emulsion breaking B chemical                   | H124   | Phase separation  |
| P18                           | Emulsion breaking B other                      | H124   | Phase separation  |
| P19                           | Other liquid phase separation                  | H124   | Phase separation  |
| P21                           | Adsorption B Carbon                            | H082   | Adsorption  |
| P22                           | Adsorption B Ion exchange (other than for      | H082   | Adsorption  |
| P23                           | Adsorption B Resin                             | H082   | Adsorption  |
| P29                           | Adsorption B Other                             | H082   | Adsorption  |
| P31                           | Reverse Osmosis (other than for                | H129   | Other treatment   |
| P41                           | Stripping B Air                                | H083   | Air or steam stripping                                      |
| P42                           | Stripping B Steam                              | H083   | Air or steam stripping                                      |
| Previous Codes                |  | New Codes (adapted from RCRA Hazardous Waste Management Codes) |   |
| P49                           | Stripping B Other                              | H083   | Air or steam stripping                                      |
| P51                           | Acid Leaching (other than for recovery/reuse)  | H129   | Other treatment   |
| P61                           | Solvent Extraction (other than recovery/reuse) | H129   | Other treatment   |
| P99                           | Other Physical Treatment                       | H129   | Other treatment   |
| Solidification/Stabilization: |  |  |   |

|     |  |      |  |
|-----|--|------|--|
| G01 | Cement processes (including silicates)           | H111 | Stabilization or chemical fixation prior to disposal |
| G09 | Other Pozzolonic Processes (including silicates) | H111 | Stabilization or chemical fixation prior to disposal |
| G11 | Asphaltic Techniques                             | H111 | Stabilization or chemical fixation prior to disposal |
| G20 | Thermoplastic Techniques                         | H111 | Stabilization or chemical fixation prior to disposal |
| G99 | Other Solidification Processes                   | H111 | Stabilization or chemical fixation prior to disposal |

## Chemical Classifications

| Category 1 Metals   | Category 2 Metals                              |
|---|--|
| ANTIMONY  | ALUMINUM OXIDE (FIBROUS FORMS)                 |
| ANTIMONY COMPOUNDS  | ALUMINUM PHOSPHIDE                             |
| ARSENIC   | ASBESTOS (FRIABLE)                             |
| ARSENIC COMPOUNDS   | BIS(TRIBUTYLTIN) OXIDE                         |
| BERYLLIUM   | BORON TRICHLORIDE                              |
| BERYLLIUM COMPOUNDS   | BORON TRIFLUORIDE                              |
| CADMIUM   | C.I. DIRECT BLUE 218                           |
| CADMIUM COMPOUNDS   | C.I. DIRECT BROWN 95                           |
| CHROMIUM  | FENBUTATIN OXIDE                               |
| CHROMIUM COMPOUNDS<br>(EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION) | FERBAM   |
| COBALT  | IRON PENTACARBONYL                             |
| COBALT COMPOUNDS  | LITHIUM CARBONATE                              |
| COPPER  | MANEB  |
| COPPER COMPOUNDS  | METIRAM  |
| LEAD  | MOLYBDENUM TRIOXIDE                            |
| LEAD COMPOUNDS  | OSMIUM TETROXIDE                               |
| MANGANESE   | POTASSIUM BROMATE                              |
| MANGANESE COMPOUNDS   | SODIUM NITRITE                                 |
| MERCURY   | THORIUM DIOXIDE                                |
| MERCURY COMPOUNDS   | TITANIUM TETRACHLORIDE                         |
| NICKEL  | TRIBUTYLTIN FLUORIDE                           |
| NICKEL COMPOUNDS  | TRIBUTYLTIN METHACRYLATE                       |
| SELENIUM  | TRIPHENYLTIN CHLORIDE                          |
| SELENIUM COMPOUNDS  | TRIPHENYLTIN HYDROXIDE                         |
| SILVER  | ZINEB  |
| SILVER COMPOUNDS  |  |
| THALLIUM  | Category 4 Metals                              |
| THALLIUM COMPOUNDS  | ALUMINUM ( FUME OR DUST )                      |
| VANADIUM COMPOUNDS  | VANADIUM ( EXCEPT WHEN CONTAINED IN AN ALLOY ) |
| ZINC COMPOUNDS  | ZINC ( FUME OR DUST )                          |
| Category 3 Metals   |  |
| BARIUM  |  |
| BARIUM COMPOUNDS  |  |