

TOXICS RELEASE INVENTORY (TRI)
DIOXIN AND DIOXIN-LIKE COMPOUNDS
DATA FILES DOCUMENTATION

Updated in January 2025



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Introduction

Dioxins are a group of toxic chemical compounds that can cause cancer, reproductive and developmental problems, damage to the immune system, and interference with hormones. On May 10, 2007, EPA issued a final rule expanding reporting requirements for the TRI dioxin and dioxin-like compounds category. There are 17 distinct members—also called congeners—in this chemical category. The final rule requires that facilities must report the quantity of each congener on the Form R Schedule 1, in addition to reporting the total grams released for the entire category.

The members of the dioxin and dioxin-like compounds category vary in toxicity, so looking at the total quantity of dioxin releases from a facility does not provide enough information to evaluate the potential impact of those releases. To account for the variability among dioxin congeners, EPA calculates Toxic Equivalency (TEQ) values that reflect the relative toxicity of the congeners and publishes them along with the dioxin quantity data.

TEQs are calculated by multiplying the quantity of each congener (in grams) by a Toxic Equivalency Factor (TEF) established by the World Health Organization. TEFs reflect how toxic each dioxin congener is compared to the most toxic members of the category: 2,3,7,8-tetrachlorodibenzo-p-dioxin and 1,2,3,7,8-pentachlorodibenzo-p-dioxin.

When dioxin data are expressed as 'grams TEQ,' facility managers, community members, researchers, and others can better understand the toxicity of dioxin releases and other waste management activities involving dioxin and dioxin-like compounds. Using TEQs also allows easier comparisons between TRI data and other EPA and international data.

Overview of the Dioxin and Dioxin-Like Compounds/TEQ Data Files

Facilities use a supplemental reporting form—the Form R Schedule 1—to submit individual dioxin congener data, in addition to submitting quantity data on the Form R.

Users can download the TRI dioxin and dioxin-like compounds data from <https://www.epa.gov/toxics-release-inventory-tri-program/tri-dioxin-and-dioxin-compounds-and-teq-data-files-calendar>. There is a .zip file for each year from 2008 to the present. Each .zip file contains six .csv files to help make the data more understandable and make the process of calculating the TEQ values transparent and reproducible.

Note that the dioxin and TEQ data are for all U.S. facilities; individual state-level files aren't provided. The national-level data can be viewed using with a spreadsheet application; users can delete any unwanted data.

The six types of .csv files are:

- Toxic Equivalency Factors (TEFs)
- Form R Schedule 1 Congener
- Toxic Equivalents (TEQs)
- Transfers
- Water Congener
- Water Toxic Equivalents (TEQs)

The File Descriptions section below describes the contents of each file. The Record Layouts section below lists the detailed data fields, their data type, and specific definition.

In addition to the dioxin TEQ data files, users can find dioxin and dioxin-like compounds congener data and TEQ data in some of the TRI searches within Envirofacts (<https://www.epa.gov/enviro>), including the EZ Query search.

File Descriptions

1. Toxic Equivalency Factors

File Name: TEF_2023.csv

Description: This file lists the 17 individual chemicals (i.e., congeners) included in the Dioxin or Dioxin-like Compounds category, along with the TEFs that EPA uses to calculate the TEQ values.

2. Form R Schedule One Congener

File Name: Congener_2023.csv

Description: This file contains the quantity data (in grams) for each dioxin congener, as reported on the Form R Schedule 1. Each row is identified by a unique TRI Facility ID, a Document Control Number, and a Congener Number. The file includes data elements in the following categories:

- Facility Name, Address, Latitude & Longitude Coordinates, and NAICS Code
- Chemical Identification and Classification Information
- On-site Release Quantities
- Publicly Owned Treatment Works (POTW) Transfer Quantity
- Summed Off-site Transfer Quantity Totals for Release/Disposal and Further Waste Management
- Summary Pollution Prevention Quantities

Regarding data on water releases, note that this file only contains the total quantity of on-site water releases (from Section 5.3 of the Form R) for each dioxin congener. Please see the Water Congener .csv file for more detailed water release data. Regarding off-site transfer data, these are totalled by type of waste management method (e.g., M66: RCRA Subtitle C Surface Impoundment). More detailed waste transfer data, including off-site transfer location, are found in the TRI Basic Plus files 3A, 3B, and 3C.

3. The TEQ Data File

File Name: TEQ_2023.csv

Description: This file contains the EPA-calculated TEQ values and the associated Toxic Equivalency Factors (TEFs). All quantities are in grams. Each row is identified by a unique TRI Facility ID and a Document Control Number. There is only one TEQ value per environmental medium or waste management method (i.e., one value for fugitive air releases, one value for transfers to POTWs, etc.) The file includes data elements in the following categories:

- Facility Name, Address, Latitude & Longitude Coordinates and NAICS Code
- Chemical Identification and Classification Information
- On-site Release Quantities
- The Publicly Owned Treatment Works (POTW) Transfer Quantity

- Summed Off-site Transfer Quantity Totals for Release/Disposal and Further Waste Management
- Summary Pollution Prevention Quantities

This file only includes the TEQ value for Total On-Site Surface Water Discharges; the individual TEQ amounts for releases into specific water bodies are listed in the Water TEQ Data file. The off-site transfer data is summed by type of waste management (e.g., M66 - RCRA Subtitle C Surface Impoundment). The individual/detailed transfer TEQ amounts along with the off-site transfer location are found in the Basic Plus files 3A, 3B, and 3C.

4. The Water Congener Data File

File Name: Water_Congener_2023.csv

Description: This file contains the water quantity release data (in grams) for each dioxin congener. Each row is identified by a unique TRI Facility ID, a Document Control Number, and Congener Number. A maximum of 10 receiving water bodies are listed.

In addition to the individually reported mass quantity data (in grams) for each congener, the file also includes the total amount of each congener released into all water bodies. The file also includes the total amounts of each dioxin congener transferred to Publicly Owned Treatment Works (POTWs), and the names, addresses, and quantities transferred to each POTW location (for up to four POTWs).

The file includes data elements in the following categories:

- Facility Name, Address, Latitude & Longitude Coordinates and NAICS Code
- Chemical Identification and Classification Information
- On-site Water Releases to Individual Water Bodies
- Total On-site Water Releases for Each Congener
- Publicly Owned Treatment Works (POTW) Total Transfer Quantity
- POTW Names, Addresses and quantity transferred to each POTW location

5. The Water TEQ Data File

File Name: Water_TEQ_2023.csv

Description: This file contains the EPA-calculated TEQ values for each on-site dioxin water release to each water body. Each row is identified by a unique TRI Facility ID and a Document Control Number. A maximum of 10 water bodies are displayed.

In addition to the TEQ values related to each water body, the file also includes the total grams TEQ for all water bodies. The file also contains the total grams TEQ for all transfers to Publicly Owned Treatment Works (POTWs), and the names, addresses and the quantity transferred to each individual POTW location (for up to four POTWs).

The file includes data elements in the following categories:

- Facility Name, Address, Latitude & Longitude Coordinates and NAICS Code
- Chemical Identification and Classification Information
- On-site Water Release TEQ Values for Individual Water Bodies
- The Total On-site Water Release TEQ to All Water Bodies
- POTW Names, Addresses and quantity transferred to each POTW location

6. The Off-Site Transfer Details Data File

File Name: Transfers_2023.csv

Description: This file contains the dioxin congener amounts (in grams), TEQ value, and location details of all off-site transfers of dioxin and dioxin-like compounds. It includes each individual transfer of dioxin and dioxin-like compounds from the reporting facility to an off-site location for disposal or further waste management. It includes the waste transfer code and description of the transfer (e.g., M66 - RCRA Subtitle C Surface Impoundment). It also lists the individually reported quantities for each transfer of each dioxin congener, the calculated TEQ value, and the total transfer amount as reported on the TRI Form R. Finally, it lists the name, address, and RCRA ID number of the off-site location that received the waste transfer.

Note that there can be multiple transfers to the same off-site location, as well as multiple transfers to the same location for the same purpose. In other words, it's possible to have the same type of transfer (i.e. the same M-code) going to one off-site location listed several times (presumably with different quantities being transferred each time).

The file includes data elements in the following categories:

- Facility Name, Address, Latitude & Longitude Coordinates and NAICS Code
- Chemical Identification and Classification Information
- Individually Reported Mass Grams of Each Off-site Transfer
- TEQ Values for Each Off-Site Transfer
- Total Grams Reported for Each Transfer
- Name, Address and RCRA Number of Each Off-Site Transfer Location

Zeroes in the Data

The *TRI Dioxin and Dioxin-like Compounds Toxic Equivalency (TEQ) Data Files* are intended to be loaded into spreadsheets, databases, and statistical applications. Some of these tools require that numeric data fields be populated with a number (and not a blank) to function correctly. For instance, to calculate a total for a spreadsheet column, all rows in that column must contain a number and not be blank.

Considering this, the TRI Program has inserted zeroes into the *TRI Dioxin and Dioxin-like Compounds Toxic Equivalency (TEQ) Data Files* in places where numeric data fields were blank. There are two reasons why a numeric data field on a TRI reporting form may be blank. The first is facilities that report “NA” or “Not Applicable” for a quantity on the Form R. Reporting “NA” means that the release or waste management quantity is not possible for that facility. For example, if a facility is not located near a water body, it will not have the ability to release any of the chemical to water. Therefore, in section 5.3 of the Reporting Form R, the facility would enter “NA” for on-site water releases. [The TRI Reporting Forms and Instructions](#) contain more information on the use of “NA” in TRI reporting.

The second case where zeroes appear instead of blanks occurs when facilities do not respond to quantity questions on the Form R, leaving them blank. This was primarily an issue prior to the TRI Electronic Reporting Rule, when the TRI Program still accepted paper reporting forms. The TRI-MEweb reporting software, however, doesn’t allow blanks in the reporting of quantity data; facilities are required to enter a number or indicate “NA.”

Leading Zeroes in Data Fields

Some data fields in the files, like the ZIP code and the Parent Company DB Number fields, may contain leading zeroes. When, loading a comma separated value (.CSV) file into some applications, leading zeroes for some data fields may be removed. To remedy this, rename (or copy) the .CSV file to another filename without a .CSV file extension. Once you do this, the file may not load automatically into some applications. Instead, you’ll have to load the file manually and answer a few prompts about its contents. However, this will allow you to define the fields or columns with leading zeroes in them as text fields and be able to see their full content.

Record Layouts

The record layouts for the TRI Dioxin and Dioxin-like Compounds Toxic Equivalency (TEQ) Data appear in the next section. There are eight columns in the layout format. The first column (identified by the column heading '#') is a sequential field number identifier. The second column, "Field" is the name of the data field as it will appear in the data file. Many of the field names begin with a section reference, such as "5.1 - Fugitive Air". The "5 .1" represents the section of the Form R where the data came from. Many users find the data fields easier to use when they are prefaced with the section number.

The third and fourth columns, "Maximum Length" and "Data Type," specify the maximum length and the data type of the field. The "Maximum Length" column also indicates the format of numeric data. Comma notation is used for numbers that may contain decimals. For example, a "Maximum Length" value of "22,7" indicates that the number can be 22 digits long with 7 digits to the right of the decimal point. There are two possible values for "Data Type": 'C' for Character/Text data and 'N' for numeric data.

The fifth, sixth and seventh columns under the "Reference" heading indicate the "Form," "Part" and "Section" where the data originate from. There are three possible values for the "Form" column. They are:

<u>Value</u>	<u>Description</u>
R	Data Element taken from the Form R
S	Data Element taken from the Form R Schedule 1
Blank	Data Element obtained from another source other than the Form R or Schedule 1

The "Definition" column gives a description of each data element and provides notes about its origin and use. There are several data fields that represent totals in the data file. The "Definition" column tells which data fields are added together to obtain the totals.

1. The Toxic Equivalency Factors File

Field Documentation for the "Toxic Equivalency Factors" File						
#	Field	Max Length	Data Type	Reference		Definition
				Form and Part	Section	
1	Year	4	C	R, I	1	The year that the chemical was released or managed as waste. Also known as "reporting year."
2	Congener Number	2	C			The congener sequence number. Range of values is 1 to 17.
3	Congener CAS#	9	C			The number assigned to the dioxin congener by the Chemical Abstract Service.
4	Congener Name	70	C			Name of the congener or dioxin compound.
5	Congener Abbreviation	70	C			Abbreviation of the congener.
6	Toxic Equivalency Factor (TEF)	10, 7	N			<p>"TEF" denotes a dioxin compound's toxicity relative to 2,3,7,8- TCDD which is assigned the maximum toxicity designation of 1. Other dioxin compounds are given equal or lower numbers, with each number roughly proportional to its toxicity relative to that of 2,3,7,8-TCDD.</p> <p>TEFs, developed by the World Health Organization (WHO), are used to calculate the Toxic Equivalency (TEQ) of the dioxin and dioxin-like compounds reported to the TRI. TEQs are calculated by multiplying the grams data for each reported member of the category by its TEF value and then totaling the results.</p>
7	TEF Year	4	C			The year that the World Health Organization (WHO) issued the TEF value.

2. The Schedule One Congener DataFile

Field Documentation for the "Schedule One Congener Data" file						
#	Field	Max Length	Data Type	Reference		Definition
				Form and Part	Section	
1	Year	4	C	R, I	1	The year that the chemical was released or managed as waste. Also known as "reporting year."
2	TRI Facility ID	15	C	R, I	4.1	The unique TRI identification number assigned to each facility by EPA.
3	Facility Name	62	C	R, I	4.1	Name of the facility.
4	Street Address	62	C	R, I	4.1	Street address where the facility is located.
5	City	28	C	R, I	4.1	Name of the city in which the facility is located.
6	County	25	C	R, I	4.1	Name of the county in which the facility is located.
7	ST	2	C	R, I	4.1	Abbreviation of the state in which the facility is located.
8	ZIP	9	C	R, I	4.1	ZIP code in which the facility is located. Either 5 or 9 characters. No hyphens.
9	Latitude	9,6	N			Facility latitude, represented as decimal data.
10	Longitude	10,6	N			Facility longitude, represented as decimal data.
11	Primary NAICS	6	C	R, I	4.5	Primary North American Industry Code System (NAICS) code representing the facility's primary business activity.
12	NAICS 2	6	C	R, I	4.5	Supplemental NAICS code representing other business activities of the facility.
13	NAICS 3	6	C	R, I	4.5	Supplemental NAICS code representing other business activities of the facility.
14	NAICS 4	6	C	R, I	4.5	Supplemental NAICS code representing other business activities of the facility.
15	NAICS 5	6	C	R, I	4.5	Supplemental NAICS code representing other business activities of the facility.
16	NAICS 6	6	C	R, I	4.5	Supplemental NAICS code representing other business activities of the facility.
17	Parent CO Name	60	C	R, I	5.1	Name of the facility's parent company.
18	Parent CO DB NUM	9	C	R, I	5.2	Parent company's Dun & Bradstreet Number.
19	Doc_Ctrl_Num	13	C			The Document Control Number, a unique ID assigned to each reporting form.
20	Chemical name	70	C	R, II	1.2	Name of the chemical. This will be "dioxin and dioxin-like compounds" for the entire file.
21	CAS # / Compound ID	9	C	R, II	1.1	The number assigned to the dioxin and dioxin-like compounds chemical category by the Chemical Abstract Service.
22	Congener Number	2	C			The congener sequence number. Range of values is 1 to 17.

	Field Documentation for the "Schedule One Congener Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
23	Congener CAS#	9	C			The number assigned to the dioxin congener by the Chemical Abstract Service.
24	Congener	70	C			Name of the dioxin congener.
25	Clean Air Act Chemical	3	C			Indication if the chemical is a regulated by the Clean Air Act. Possible values are "yes" or "no."
26	Classification	6	C			Classification of the chemical. Values are as follows:
						TRI: Standard TRI-listed chemical
						PBT: Persistent Bioaccumulative Toxic chemical
						Dioxin: dioxin or dioxin-like compound
27	Metal	3	C			Indication if the chemical is a metal (Yes or No)
28	Metal Category	1	C			Category of Metal. Values are either 1, 2, 3, or 4 for metals. See Appendix A for definitions and lists of chemicals that belong to each category
29	Carcinogen	3	C			Indication if the chemical is a carcinogen (Yes or No)
30	Form Type	1	C			The form the data was submitted on. Values are:
						A – Form A
						R – Form R
31	Unit of Measure	6	C			The unit of measure the chemical is displayed in. This is grams for all the quantities in this file.
32	5.1 - Fugitive Air	22,7	N	S	5.1	Quantity of on-site fugitive air releases.
33	5.2 - Stack Air	22,7	N	S	5.2	Quantity of on-site stack air releases.
34	5.3 - Water	22,7	N	S	5.3	Quantity of on-site surface water discharges (i.e., releases).
35	5.4.1 - Underground Class I	22,7	N	S	5.4.1	Quantity of on-site releases into Class I underground injection wells.
36	5.4.2 - Underground Class II-V	22,7	N	S	5.4.2	Quantity of on-site releases into Class II-V underground injection wells.
37	5.5.1A - RCRA C Landfills	22,7	N	S	5.5.1A	Quantity of releases into on-site RCRA Subtitle C landfills.
38	5.5.1B - Other Landfills	22,7	N	S	5.5.1B	Quantity of releases into other on-site landfills.
39	5.5.2 - Land Treatment	22,7	N	S	5.5.2	Quantity of releases to on-site land treatment.
40	5.5.3A - RCRA Surface Impoundment	22,7	N	S	5.5.3A	Quantity of releases into on-site RCRA surface impoundments.
41	5.5.3B - Other Surface Impoundment	22,7	N	S	5.5.3B	Quantity of releases into on-site non-RCRA/other surface impoundments.
42	5.5.4 - Other Disposal	22,7	N	S	5.5.4	Quantity of other on-site disposal.
43	On-site Release Total	22,7	N			Total quantity of on-site releases for the dioxin congener at the facility. Total of fields #32 through #42.

	Field Documentation for the "Schedule One Congener Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
44	6.1 - POTW	22,7	N	S	6.1	The total amount of the chemical transferred to a Publicly Owned Treatment Works (POTW).
45	6.2 - M10	22,7	N	S	6.2	Off-site Storage
46	6.2 - M41	22,7	N	S	6.2	Off-site Solidification/Stabilization for Metals and Metal Compounds Only
47	6.2 - M62	22,7	N	S	6.2	Off-site Wastewater Treatment (Excluding POTWs) for Metals and Metal Compounds Only
48	6.2 - M81	22,7	N	S	6.2	Off-site Underground Injection to Class I Wells.
49	6.2 - M82	22,7	N	S	6.2	Off-site Underground Injection to Class II-V Wells.
50	6.2 - M66	22,7	N	S	6.2	Off-site Subtitle C Surface Impoundment.
51	6.2 - M67	22,7	N	S	6.2	Off-site Other Surface Impoundment.
52	6.2 - M64	22,7	N	S	6.2	Off-site Other Landfills.
53	6.2 - M65	22,7	N	S	6.2	Off-site RCRA Subtitle C Landfill.
54	6.2 - M73	22,7	N	S	6.2	Off-site Land Treatment
55	6.2 - M79	22,7	N	S	6.2	Off-site Other Land Disposal
56	6.2 - M90	22,7	N	S	6.2	Off-site Other Off-site Management
57	6.2 - M94	22,7	N	S	6.2	Off-site Transfer to Waste Broker – Disposal
58	6.2 - M99	22,7	N	S	6.2	Off-site Unknown
59	Off-Site Release Total	22,7	N			The Off-site Release Total equals the sum of M10 + M41 + M62 + M64 + M65 + M73 + M79 + M90 + M94 + M99 + M40 (if the chemical is a category 1,3 or 4 metal) + M61 (if the chemical is a category 1,3 or 4 metal) + (6.1 POTW - Metals and Metal Compounds Only)
60	6.2 - M20	22,7	N	S	6.2	Off-site Solvents/Organics Recovery
61	6.2 - M24	22,7	N	S	6.2	Off-site Metals Recovery
62	6.2 - M26	22,7	N	S	6.2	Off-site Other Reuse or Recovery
63	6.2 - M28	22,7	N	S	6.2	Off-site Acid Regeneration
64	6.2 - M93	22,7	N	S	6.2	Off-site Transfer to Waste Broker – Recycling
65	Off-Site Recycled Total	22,7	N			This is the total of the quantities reported as being recycled off site, fields #60-64.
66	6.2 - M56	22,7	N	S	6.2	Off-site Energy Recovery
67	6.2 - M92	22,7	N	S	6.2	Off-site Transfer to Waste Broker for Energy Recovery
68	Off-Site Recovery Total	22,7	N			The sum of fields #66 and #67.
69	6.2 - M40	22,7	N	S	6.2	Off-site Solidification/Stabilization
70	6.2 - M50	22,7	N	S	6.2	Off-site Incineration/Thermal Treatment
71	6.2 - M54	22,7	N	S	6.2	Off-site Incineration/Insignificant fuel value
72	6.2 - M61	22,7	N	S	6.2	Off-site Waster Treatment (Excluding POTW)
73	6.2 - M69	22,7	N	S	6.2	Off-site Other Waste Treatment
74	6.2 - M95	22,7	N	S	6.2	Off-site Transfer to Waste Broker - Waste Treatment
75	Off-Site Treated Total	22,7	N			The sum of fields #69-74.

	Field Documentation for the "Schedule One Congener Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
76	Total Off-site Managed	22,7	N			The sum of the totals of off-site recycling, off-site recovery, and off-site treatment.
77	Total Releases	22,7	N			The total quantity of on- and off-site releases from sections 5 and 6 of the Form R.
78	8.1a - On-site Contained Releases	22,7	N	S	8.1a	The total quantity of on-site disposal to Class I underground injection wells, RCRA Subtitle C landfills, and other landfills, excluding any on-site releases or disposal due to one-time catastrophic events.
79	8.1b - On-site Other Releases	22,7	N	S	8.1b	The total quantity of other on-site releases via fugitive air emissions, stack air emissions, surface water discharges, Class II-V underground injection wells, land treatment, RCRA Subtitle C surface impoundments, other surface impoundments, and other on-site disposal, excluding any on-site releases or disposal due to one-time catastrophic events.
80	8.1c - Off-site Contained Releases	22,7	N	S	8.1c	The total quantity of off-site disposals to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills, excluding any on-site releases or disposals due to one-time catastrophic events.
81	8.1d - Off-site Other Releases	22,7	N	S	8.1d	The total quantity of other off-site releases via fugitive air emissions, stack air emissions, surface water discharges, Class II-V underground injection wells, land treatment, RCRA Subtitle C surface impoundments, other surface impoundments, and other on-site disposal, excluding any on-site releases or disposal due to one-time catastrophic events.
82	8.2 - Energy Recovery On-site	22,7	N	S	8.2	Quantity of on-site energy recovery.
83	8.3 - Energy Recovery Off-site	22,7	N	S	8.3	Quantity of off-site energy recovery.
84	8.4 - Recycling On-Site	22,7	N	S	8.4	Quantity of on-site recycling.
85	8.5 - Recycling Off-Site	22,7	N	S	8.5	Quantity of off-site recycling.
86	8.6 - Treatment On-site	22,7	N	S	8.6	Quantity of on-site treatment.
87	8.7 - Treatment Off-site	22,7	N	S	8.7	Quantity of off-site treatment.
88	8.8 - One-time Release	22,7	N	S	8.8	Quantity of the chemical released into the environment due to remedial actions, catastrophic events, or one-time events not associated with normal production processes.
89	Data Extracted On	11	C	NA	NA	Date the data were extracted. Format YYYYMMDD

3. The TEQ Data File

Field Documentation for the "TEQ Data" file						
#	Field	Max Length	Data Type	Reference		Definition
				Form and Part	Section	
1	Year	4	C	R I	1	The year that the chemical was released or managed as waste. Also known as "reporting year."
2	TRI Facility ID	15	C	R I	4.1	The TRI Facility Identification Number assigned by EPA/TRI
3	Facility Name	62	C	R I	4.1	Name of the facility
4	Street Address	62	C	R I	4.1	Street address at which the facility is located
5	City	28	C	R I	4.1	Name of the city in which the facility is located
6	County	25	C	R I	4.1	Name of the county in which the facility is located
7	ST	2	C	R I	4.1	Abbreviation of the state in which the facility is located
8	ZIP	9	C	R I	4.1	ZIP code in which the facility is located. Either 5 or 9 characters. No hyphens.
9	Latitude	9,6	N			Facility Latitude represented as decimal data
10	Longitude	10,6	N			Facility Longitude represented as decimal data
11	Primary NAICS	6	C	R I	4.5	Primary North American Industry Code System (NAICS) code representing the facility's primary business activity.
12	NAICS 2	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility.
13	NAICS 3	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility.
14	NAICS 4	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility.
15	NAICS 5	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility.
16	NAICS 6	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility.
17	Parent CO Name	60	C	R I	5.1	Name of the facility's parent company.
18	Parent CO DB NUM	9	C	R I	5.2	Parent company's Dun & Bradstreet number.
19	Doc_Ctrl_Num	13	C			Document Control Number, a unique ID assigned to each reporting form.
20	Chemical	70	C	R II	1.2	Name of the chemical, which is 'dioxin and dioxin-like compounds' throughout this file.
21	CAS # / Compound ID	9	C	R II	1.1	The number assigned to the dioxin and dioxin-like compounds chemical category, "N150," by the Chemical Abstract Service.
22	Congener Number	2	C			The value of this data element in this file is "TEQ."
23	Congener CAS#	9	C			The value of this data element in this file will be "N150," which is the general CAS number of dioxins and dioxin-like compounds.

	Field Documentation for the "TEQ Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
24	Congener	70	C			The value of this data element in this file is "Dioxin - Toxic Equivalency (TEQ)"
25	Clean Air Act Chemical	3	C			Indication if the chemical is regulated under the Clean Air Act (Yes or No)
26	Classification	6	C			Classification of the chemical. Values are as follows:
						TRI - Standard TRI-listed Chemical
						PBT - Persistent Bioaccumulative Toxic chemical
						Dioxin - Dioxin or Dioxin-like Compound
27	Metal	3	C			Indication if the chemical is a metal (Yes or No)
28	Metal Category	1	C			Category of Metal. Values are either 1, 2, 3, or 4 for metals.
29	Carcinogen	3	C			Indication if the chemical is a carcinogen (Yes or No)
30	Form Type	1	C			The form the data was submitted on. Values are:
						A – Form A
						R – Form R
31	Unit of Measure	6	C			The unit of measure of the chemical quantity. All dioxin data is reported and presented in grams.
32	5.1 - Fugitive Air	22,7	N	S	5.1	Quantity of on-site fugitive air releases.
33	5.2 - Stack Air	22,7	N	S	5.2	Quantity of on-site stack air releases.
34	5.3 - Water	22,7	N	S	5.3	Quantity of on-site water releases.
35	5.4.1 - Underground Class I	22,7	N	S	5.4.1	Quantity of on-site releases to Class I underground injection wells.
36	5.4.2 - Underground Class II-V	22,7	N	S	5.4.2	Quantity of on-site releases to Class II-V underground injection wells.
37	5.5.1A - RCRA C Landfills	22,7	N	S	5.5.1A	Quantity of releases to on-site RCRA C landfills.
38	5.5.1B - Other Landfills	22,7	N	S	5.5.1B	Quantity of releases to other on-site landfills.
39	5.5.2 - Land Treatment	22,7	N	S	5.5.2	Quantity of on-site releases to land treatment.
40	5.5.3A - RCRA Surface Impoundment	22,7	N	S	5.5.3A	Quantity of releases to on-site RCRA surface impoundments.
41	5.5.3B - Other Surface Impoundment	22,7	N	S	5.5.3B	Quantity of on-site releases to non-RCRA/other surface impoundments.
42	5.5.4 - Other Disposal	22,7	N	S	5.5.4	Quantity of other on-site releases.
43	On-site Release Total	22,7	N			Total quantity of releases of the chemical at the facility. This is the total of all releases reported in section 5 of the reporting form (fields #32 through #42).

	Field Documentation for the "TEQ Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
44	6.1 - POTW	22,7	N	S	6.1	The total amount of transfers to a Publicly Owned Treatment Works (POTW).
45	6.2 - M10	22,7	N	S	6.2	Off-site Storage
46	6.2 - M41	22,7	N	S	6.2	Off-site Solidification/Stabilization for Metals and Metal Compounds Only
47	6.2 - M62	22,7	N	S	6.2	Off-site Wastewater Treatment (Excluding POTWs) for Metals and Metal Compounds Only
48	6.2 - M81	22,7	N	S	6.2	Off-site Underground Injection to Class I Wells.
49	6.2 - M82	22,7	N	S	6.2	Off-site Underground Injection to Class II-V Wells.
50	6.2 - M66	22,7	N	S	6.2	Off-site Subtitle C Surface Impoundment.
51	6.2 - M67	22,7	N	S	6.2	Off-site Other Surface Impoundment.
52	6.2 - M64	22,7	N	S	6.2	Off-site Other Landfills.
53	6.2 - M65	22,7	N	S	6.2	Off-site RCRA Subtitle C Landfill.
54	6.2 - M73	22,7	N	S	6.2	Off-site Land Treatment
55	6.2 - M79	22,7	N	S	6.2	Off-site Other Land Disposal
56	6.2 - M90	22,7	N	S	6.2	Off-site Other Off-site Management
57	6.2 - M94	22,7	N	S	6.2	Off-site Transfer to Waste Broker – Disposal
58	6.2 - M99	22,7	N	S	6.2	Off-site Unknown
59	Off-Site Release Total	22,7	N			The Off-site Release Total equals the sum of M10 + M41 + M62 + M64 + M65 + M73 + M79 + M90 + M94 + M99 + M40 (if the chemical is a category 1,3 or 4 metal) + M61 (if the chemical is a category 1,3 or 4 metal) + (6.1 POTW - Metals and Metal Compounds Only)
60	6.2 - M20	22,7	N	S	6.2	Off-site Solvents/Organics Recovery
61	6.2 - M24	22,7	N	S	6.2	Off-site Metals Recovery
62	6.2 - M26	22,7	N	S	6.2	Off-site Other Reuse or Recovery
63	6.2 - M28	22,7	N	S	6.2	Off-site Acid Regeneration
64	6.2 - M93	22,7	N	S	6.2	Off-site Transfer to Waste Broker – Recycling
65	Off-Site Recycled Total	22,7	N			The sum of M20 + M24 + M26 + M28 + M93
66	6.2 - M56	22,7	N	S	6.2	Off-site Energy Recovery
67	6.2 - M92	22,7	N	S	6.2	Off-site Transfer to Waste Broker for Energy Recovery
68	Off-Site Recovery Total	22,7	N			The sum of M56 + M92
69	6.2 - M40	22,7	N	S	6.2	Off-site Solidification/Stabilization
70	6.2 - M50	22,7	N	S	6.2	Off-site Incineration/Thermal Treatment
71	6.2 - M54	22,7	N	S	6.2	Off-site Incineration/Insignificant fuel value
72	6.2 - M61	22,7	N	S	6.2	Off-site Waster Treatment (Excluding POTW)
73	6.2 - M69	22,7	N	S	6.2	Off-site Other Waste Treatment
74	6.2 - M95	22,7	N	S	6.2	Off-site Transfer to Waste Broker - Waste Treatment
75	Off-Site Treated Total	22,7	N			The sum of M40 + M50 + M54 + M61 + M69 + M95

	Field Documentation for the "TEQ Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
76	Total Off-site Managed	22,7	N			The sum of Off-site Recycled, Recovery and Treated totals
77	Total Releases	22,7	N			The total on and off-site releases from sections 5 and 6
78	8.1a - On-site Contained Releases	22,7	N	S	8.1a	The total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills and other landfills MINUS any on-site release or disposal due to catastrophic events
79	8.1b - On-site Other Releases	22,7	N	S	8.1b	The total other on-site disposal via Air Fugitive, Air Stack, Water, Class II-V Underground Injection Wells, Land Treatment, RCRA Subtitle C Surface Impoundments, Other Surface Impoundments and Other On-site Disposal MINUS any on-site release or disposal due to catastrophic events
80	8.1c - Off-site Contained Releases	22,7	N	S	8.1c	The total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills and other landfills MINUS any on-site release or disposal due to catastrophic events
81	8.1d - Off-site Other Releases	22,7	N	S	8.1d	The total other on-site disposal via Air Fugitive, Air Stack, Water, Class II-V Underground Injection Wells, Land Treatment, RCRA Subtitle C Surface Impoundments, Other Surface Impoundments and Other On-site Disposal MINUS any on-site release or disposal due to catastrophic events
82	8.2 - Energy Recovery On-site	22,7	N	S	8.2	Amount of Energy Recovery On-site
83	8.3 - Energy Recovery Off-site	22,7	N	S	8.3	Amount of Energy Recovery Off-site
84	8.4 - Recycling On-Site	22,7	N	S	8.4	Amount of Recycling On-site
85	8.5 - Recycling Off-Site	22,7	N	S	8.5	Amount of Recycling Off-site
86	8.6 - Treatment On-site	22,7	N	S	8.6	Amount of Treatment On-site
87	8.7 - Treatment Off-site	22,7	N	S	8.7	Amount of Treatment Off-site
88	8.8 - One-time Release	22,7	N	S	8.8	Quantity released to the environment due to remedial actions, catastrophic events, or one-time events not associated with production processing.
89	Data Extracted On	11	C			Date the data were extracted. Format MM/DD/YYYY

4. The Water Congener Data File

Field Documentation for the "Water Congener Data" file						
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
1	Year	4	C	R I	1	The year that the chemical was released or managed as waste. Also known as "reporting year."
2	TRI Facility ID	15	C	R I	4.1	The TRI Facility Identification Number assigned by EPA/TRI
3	Facility Name	62	C	R I	4.1	Name of the facility.
4	Street Address	62	C	R I	4.1	Street address at which the facility is located
5	City	28	C	R I	4.1	Name of the city in which the facility is located
6	County	25	C	R I	4.1	Name of the county in which the facility is located
7	ST	2	C	R I	4.1	Abbreviation of the state in which the facility is located
8	ZIP	9	C	R I	4.1	ZIP code in which the facility is located. Either 5 or 9 characters. No hyphens.
9	Latitude	9,6	N			Facility Latitude represented as decimal data
10	Longitude	10,6	N			Facility Longitude represented as decimal data
11	Primary NAICS	6	C	R I	4.5	Primary North American Industry Code System (NAICS) code that represents the facility's primary business activity.
12	NAICS 2	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility
13	NAICS 3	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility
14	NAICS 4	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility
15	NAICS 5	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility
16	NAICS 6	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility
17	Parent Company Name	60	C	R I	5.1	Name of the facility's parent company.
18	Parent Company DB Number	9	C	R I	5.2	Parent Company's Dun & Bradstreet Number.
19	Doc_Ctrl_Num	13	C			The Document Control Number is a unique ID that is assigned to each reporting form.
20	Chemical	70	C	R II	1.2	Name of Chemical
21	CAS #/Compound ID	9	C	R II	1.1	The Chemical Abstract Service Number of the chemical or chemical compound category
22	Congener No.	2	C			The congener sequence or sort number. Range of values {1 to 17}.

	Field Documentation for the "Water Congener Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
23	Congener CAS#	9	C			The Chemical Abstract Service Number of the congener or dioxin compound
24	Congener	70	C			Name of the Congener or Dioxin Compound
25	Unit of Measure	6	C			The unit of measurement of the chemical. Dioxin and dioxin-like compounds data are reported and displayed in grams.
26	5.3 Total Onsite Water Release	21,7	N	S II	5.3	The total onsite water release to all streams and water bodies.
27	5.3.1 Stream 1 Name	70	C	R II	5.3.1	The name of the first receiving stream or water body
28	5.3.1 Stream 1 Release	21,7	N	S II	5.3.1	Releases to the first receiving stream or water body
29	5.3.2 Stream 2 Name	70	C	R II	5.3.2	The name of the second receiving stream or water body
30	5.3.2 Stream 2 Release	21,7	N	S II	5.3.2	Releases to the second receiving stream or water body
31	5.3.3 Stream 3 Name	70	C	R II	5.3.3	The name of the third receiving stream or water body
32	5.3.3 Stream 3 Release	21,7	N	S II	5.3.3	Releases to the third receiving stream or water body
33	5.3.4 Stream 4 Name	70	C	R II	5.3.4	The name of the fourth receiving stream/water body
34	5.3.4 Stream 4 Release	21,7	N	S II	5.3.4	Releases to the fourth receiving stream or water body
35	5.3.5 Stream 5 Name	70	C	R II	5.3.5	The name of the fifth receiving stream or water body
36	5.3.5 Stream 5 Release	21,7	N	S II	5.3.5	Releases to the fifth receiving stream or water body
37	5.3.6 Stream 6 Name	70	C	R II	5.3.6	The name of the sixth receiving stream or water body
38	5.3.6 Stream 6 Release	21,7	N	S II	5.3.6	Releases to the sixth receiving stream/water body
39	5.3.7 Stream 7 Name	70	C	R II	5.3.7	The name of the seventh receiving stream/water body
40	5.3.7 Stream 7 Release	21,7	N	S II	5.3.7	Releases to the seventh receiving stream or water body

	Field Documentation for the "Water Congener Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
41	5.3.8 Stream 8 Name	70	C	R II	5.3.8	The name of the eighth receiving stream or water body.
42	5.3.8 Stream 8 Release	21,7	N	S II	5.3.8	Releases to the eighth receiving stream or water body.
43	5.3.9 Stream 9 Name	70	C	R II	5.3.9	The name of the ninth receiving stream or water body.
44	5.3.9 Stream 9 Release	21,7	N	S II	5.3.9	Releases to the ninth receiving stream or water body.
45	5.3.10 Stream 10 Name	70	C	R II	5.3.10	The name of the tenth receiving stream or water body.
46	5.3.10 Stream 10 Release	21,7	N	S II	5.3.10	Releases to the tenth receiving stream or water body.
47	6.1 Total POTW Transfer Amount	21,7	N	R II	6.1	Total amount transferred to all Publicly Owned Treatment Works.
48	6.1 POTW A NAME	62	C	R II	6.1.B.1	Name of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
49	6.1 POTW A ADDRESS	62	C	R II	6.1.B.1	Address of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
50	6.1 POTW A CITY	28	C	R II	6.1.B.1	City of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
51	6.1 POTW A COUNTY	25	C	R II	6.1.B.1	Name of the county in which the first POTW to which the chemical was sent is located.
52	6.1 POTW A STATE	2	C	R II	6.1.B.1	State of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
53	6.1 POTW A ZIP	14	C	R II	6.1.B.1	ZIP code of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
54	6.1 POTW A Transfer Amount	21,7	N	S II	6.1.A.1	The quantity transferred to the first publicly-owned treatment works facility (POTW) location. For 2008-2010, this field will be blank because transfer amounts to specific locations were not collected in these reporting years.
55	6.1 POTW B NAME	62	C	R II	6.1.B.2	Name of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.

	Field Documentation for the "Water Congener Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
56	6.1 POTW B ADDRESS	62	C	R II	6.1.B.2	Address of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.
57	6.1 POTW B CITY	28	C	R II	6.1.B.2	City of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.
58	6.1 POTW B COUNTY	25	C	R II	6.1.B.2	County of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.
59	6.1 POTW B STATE	2	C	R II	6.1.B.2	State of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.
60	6.1 POTW B ZIP	14	C	R II	6.1.B.2	ZIP code of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.
61	6.1 POTW B TRANSFER AMOUNT	21,7	N	S II	6.1.A.2	The quantity transferred to the second publicly-owned treatment works facility (POTW) location. For 2008-2010, this field will be blank because transfer amounts to specific locations were not collected in these reporting years.
62	6.1 POTW C NAME	62	C	R II	6.1.B.3	Name of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
63	6.1 POTW C ADDRESS	62	C	R II	6.1.B.3	Address of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
64	6.1 POTW C CITY	28	C	R II	6.1.B.3	City of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
65	6.1 POTW C COUNTY	25	C	R II	6.1.B.3	County of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
66	6.1 POTW C STATE	2	C	R II	6.1.B.3	State of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
67	6.1 POTW C ZIP	14	C	R II	6.1.B.3	ZIP code of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
68	6.1 POTW C Transfer Amount	21,7	N	S II	6.1.A.3	The quantity transferred to the third publicly-owned treatment works facility (POTW) location. For 2008-2010, this field will be blank because transfer amounts to specific locations were not collected in these reporting years.
69	6.1 POTW D NAME	62	C	R II	6.1.B.4	Name of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.
70	6.1 POTW D ADDRESS	62	C	R II	6.1.B.4	Address of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.
71	6.1 POTW D CITY	28	C	R II	6.1.B.4	City of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.
72	6.1 POTW D COUNTY	25	C	R II	6.1.B.4	County of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.

	Field Documentation for the "Water Congener Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
73	6.1 POTW D STATE	2	C	R II	6.1.B.4	State of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.
74	6.1 POTW D ZIP	14	C	R II	6.1.B.4	ZIP code of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.
75	6.1 POTW D Transfer Amount	21,7	N	S II	6.1.A.4	The quantity transferred to the fourth publicly-owned treatment works facility (POTW) location. For 2008-2010, this field will be blank because transfer amounts to specific locations were not collected in these reporting years.
76	Data Extracted On	11	C			Date the data was extracted. Format MM/DD/YYYY

5. The Water TEQ Data File

Field Documentation for the "Water TEQ Data" file						
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
1	Year	4	C	R I	1	The year that the chemical was released or managed as waste. Also known as "reporting year."
2	TRI Facility ID	15	C	R I	4.1	The TRI Facility Identification Number assigned by EPA/TRI
3	Facility Name	62	C	R I	4.1	Name of the facility.
4	Street Address	62	C	R I	4.1	Street address at which the facility is located.
5	City	28	C	R I	4.1	Name of the city in which the facility is located.
6	County	25	C	R I	4.1	Name of the county in which the facility is located.
7	ST	2	C	R I	4.1	Abbreviation of the state in which the facility is located.
8	ZIP	9	C	R I	4.1	ZIP code in which the facility is located. Either 5 or 9 characters. No hyphens.
9	Latitude	9,6	N			Facility Latitude represented as decimal data.
10	Longitude	10,6	N			Facility Longitude represented as decimal data.
11	Primary NAICS	6	C	R I	4.5	Primary North American Industry Code System (NAICS) code representing the facility's primary business activity.
12	NAICS 2	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility.
13	NAICS 3	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility.
14	NAICS 4	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility.
15	NAICS 5	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility.
16	NAICS 6	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility.
17	Parent Company Name	60	C	R I	5.1	Name of the facility's parent company.
18	Parent Company DB Number	9	C	R I	5.2	Parent Company's Dun & Bradstreet Number.
19	Doc_Ctrl_Num	13	C			The Document Control Number is a unique ID that is assigned to each reporting form.
20	Chemical	70	C	R II	1.2	Name of Chemical
21	CAS #/Compound ID	9	C	R II	1.1	The Chemical Abstract Service Number of the chemical or chemical compound category
22	Congener No.	2	C			The congener sequence or sort number. Range of values {1 to 17}.

	Field Documentation for the "Water TEQ Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
23	Congener CAS#	9	C			The Chemical Abstract Service Number of the congener or dioxin compound.
24	Congener	70	C			Name of the Congener or Dioxin Compound
25	Unit of Measure	6	C			The unit of measure for the chemical. All dioxin data are reported and displayed in grams.
26	5.3 Total Onsite Water Release	21,7	N	S II	5.3	The total onsite water release to all streams and water bodies.
27	5.3.1 Stream 1 Name	70	C	R II	5.3.1	The name of the first receiving stream or water body
28	5.3.1 Stream 1 Release	21,7	N	S II	5.3.1	Releases to the first receiving stream or water body
29	5.3.2 Stream 2 Name	70	C	R II	5.3.2	The name of the second receiving stream or water body
30	5.3.2 Stream 2 Release	21,7	N	S II	5.3.2	Releases to the second receiving stream or water body
31	5.3.3 Stream 3 Name	70	C	R II	5.3.3	The name of the third receiving stream or water body
32	5.3.3 Stream 3 Release	21,7	N	S II	5.3.3	Releases to the third receiving stream or water body
33	5.3.4 Stream 4 Name	70	C	R II	5.3.4	The name of the fourth receiving stream/water body
34	5.3.4 Stream 4 Release	21,7	N	S II	5.3.4	Quantity of releases into the fourth receiving stream or water body.
35	5.3.5 Stream 5 Name	70	C	R II	5.3.5	The name of the fifth receiving stream or water body
36	5.3.5 Stream 5 Release	21,7	N	S II	5.3.5	Quantity of releases into the fifth receiving stream or water body.
37	5.3.6 Stream 6 Name	70	C	R II	5.3.6	The name of the sixth receiving stream or water body
38	5.3.6 Stream 6 Release	21,7	N	S II	5.3.6	Quantity of releases into the sixth receiving stream or
39	5.3.7 Stream 7 Name	70	C	R II	5.3.7	The name of the seventh receiving stream/water body
40	5.3.7 Stream 7 Release	21,7	N	S II	5.3.7	Quantity of releases into the seventh receiving stream or water body.

	Field Documentation for the "Water TEQ Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
41	5.3.8 Stream 8 Name	70	C	R II	5.3.8	The name of the eighth receiving stream or water body
42	5.3.8 Stream 8 Release	21,7	N	S II	5.3.8	Releases to the eighth receiving stream or water body
43	5.3.9 Stream 9 Name	70	C	R II	5.3.9	The name of the ninth receiving stream or water body
44	5.3.9 Stream 9 Release	21,7	N	S II	5.3.9	Releases to the ninth receiving stream or water body
45	5.3.10 Stream 10 Name	70	C	R II	5.3.10	The name of the tenth receiving stream or water body
46	5.3.10 Stream 10 Release	21,7	N	S II	5.3.10	Releases to the tenth receiving stream or water body
47	6.1 Total POTW Transfer Amount	21,7	N	R II	6.1	Total amount transferred to all Publicly Owned Treatment Works
48	6.1 POTW A NAME	62	C	R II	6.1.B.1	Name of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
49	6.1 POTW A ADDRESS	62	C	R II	6.1.B.1	Address of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
50	6.1 POTW A CITY	28	C	R II	6.1.B.1	City of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
51	6.1 POTW A COUNTY	25	C	R II	6.1.B.1	County of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
52	6.1 POTW A STATE	2	C	R II	6.1.B.1	State of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
53	6.1 POTW A ZIP	14	C	R II	6.1.B.1	ZIP code of the first publicly-owned treatment works facility (POTW) location to which the chemical was sent.
54	6.1 POTW A Transfer Amount	21,7	N	S II	6.1.A.1	The amount transferred to the first publicly-owned treatment works facility (POTW) location to which the chemical was sent. In reporting years 2008-2010 this field will be blank because transfer amounts to specific locations were not collected in these reporting years.
55	6.1 POTW B NAME	62	C	R II	6.1.B.2	Name of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.

	Field Documentation for the "Water TEQ Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
56	6.1 POTW B ADDRESS	62	C	R II	6.1.B.2	Address of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.
57	6.1 POTW B CITY	28	C	R II	6.1.B.2	City of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.
58	6.1 POTW B COUNTY	25	C	R II	6.1.B.2	County of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.
59	6.1 POTW B STATE	2	C	R II	6.1.B.2	State of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.
60	6.1 POTW B ZIP	14	C	R II	6.1.B.2	ZIP code of the second publicly-owned treatment works facility (POTW) location to which the chemical was sent.
61	6.1 POTW B Transfer Amount	21,7	N	S II	6.1.A.2	The amount transferred to the second publicly-owned treatment works facility (POTW) location to which the chemical was sent. In reporting years 2008-2010 this field will be blank because transfer amounts to specific locations were not collected in these reporting years.
62	6.1 POTW C NAME	62	C	R II	6.1.B.3	Name of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
63	6.1 POTW C ADDRESS	62	C	R II	6.1.B.3	Address of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
64	6.1 POTW C CITY	28	C	R II	6.1.B.3	City of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
65	6.1 POTW C COUNTY	25	C	R II	6.1.B.3	County of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
66	6.1 POTW C STATE	2	C	R II	6.1.B.3	State of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
67	6.1 POTW C ZIP	14	C	R II	6.1.B.3	ZIP code of the third publicly-owned treatment works facility (POTW) location to which the chemical was sent.
68	6.1 POTW C Transfer Amount	21,7	N	S II	6.1.A.3	The amount transferred to the third publicly-owned treatment works facility (POTW) location to which the chemical was sent. For 2008-2010, this field will be blank because transfer amounts to specific locations were not collected in these reporting years.
69	6.1 POTW D NAME	62	C	R II	6.1.B.4	Name of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.
70	6.1 POTW D ADDRESS	62	C	R II	6.1.B.4	Address of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.
71	6.1 POTW D CITY	28	C	R II	6.1.B.4	City of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.
72	6.1 POTW D COUNTY	25	C	R II	6.1.B.4	County of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.

	Field Documentation for the "Water TEQ Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
73	6.1 POTW D STATE	2	C	R II	6.1.B.4	State of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.
74	6.1 POTW D ZIP	14	C	R II	6.1.B.4	ZIP code of the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent.
75	6.1 POTW D Transfer Amount	21,7	N	S II	6.1.A.4	The amount transferred to the fourth publicly-owned treatment works facility (POTW) location to which the chemical was sent. In reporting years 2008-2010 this field will be blank because transfer amounts to specific locations were not collected in these reporting years.
76	Data Extracted On	11	C			Date the data was extracted. Format MM/DD/YYYY

6. The Transfer Details Data File

Field Documentation for the "Transfer Details Data" file						
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
1	Year	4	C	R I	1	The Reporting Year - Year the chemical was released or waste managed
2	TRI Facility ID	15	C	R I	4.1	The unique TRI Facility Identification Number assigned by EPA/TRI.
3	Facility Name	62	C	R I	4.1	Facility Name
4	Street Address	62	C	R I	4.1	Street address where facility is located.
5	City	28	C	R I	4.1	Name of the city in which the facility is located.
6	County	25	C	R I	4.1	County Name where facility is located
7	ST	2	C	R I	4.1	State Abbreviation where the facility is located
8	ZIP	9	C	R I	4.1	ZIP code where facility is located. Either 5 or 9 characters. No hyphens.
9	Latitude	9,6	N			Facility Latitude represented as decimal data
10	Longitude	10,6	N			Facility Longitude represented as decimal data
11	Primary NAICS	6	C	R I	4.5	Primary North American Industry Code System (NAICS) code that represents the facility's primary business activity.
12	NAICS 2	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility
13	NAICS 3	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility
14	NAICS 4	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility
15	NAICS 5	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility
16	NAICS 6	6	C	R I	4.5	Supplemental NAICS code representing other business activities of the facility
17	Parent Company Name	60	C	R I	5.1	Name of facility's parent company.
18	Parent Company DB Number	9	C	R I	5.2	Parent Company's Dun & Bradstreet Number.
19	Doc_Ctrl_Num	13	C			The Document Control Number is a unique ID that is assigned to each form.
20	Chemical	70	C	R II	1.2	Name of Chemical
21	CAS #/Compound ID	9	C	R II	1.1	The Chemical Abstract Service Number of the chemical or chemical compound category
22	Unit of Measure	6	C			The units of measure the chemical is displayed in (Grams or Pounds)

Field Documentation for the "Transfer Details Data" file						
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
23	Waste Management Code	3	C	R II	6.2	A three-character code that identifies the type of Waste Management that was used for the off-site transfer. Matches to field 24, Waste Management Description.
24	Waste Management Description	80	C			Description of the waste management process used for the chemical.
25	Category of Waste Management	16	C			Categories of waste management include: {Energy Recovery, Recycling, Release/Disposal and Treatment}
26	Sequence No.	9	C			A number that represents the sequence in which the facility listed the off-site transfer locations on their form R
27	Off-site Amount Sequence					A number that represents the sequence in which the facility listed the individual transfers to a single off-site transfer location.
28	Release NA	3	C	S		Indicates whether off-site transfers are or are not possible for the facility and chemical. Values = {Yes,No}
29	Dioxin Congener 1	22,7	N		6.2	Amount of congener #1, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (CAS# 001746016) transferred off-site
30	Dioxin Congener 2	22,7	N		6.2	Amount of congener #2, 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (CAS# 040321764) transferred off-site
31	Dioxin Congener 3	22,7	N		6.2	Amount of congener #3, 1,2,3,4,7,8-Hexachlorodibenzo- p-dioxin (CAS# 039227286) transferred off-site
32	Dioxin Congener 4	22,7	N		6.2	Amount of congener #4, 1,2,3,6,7,8-Hexachlorodibenzo- p-dioxin (CAS# 057653857) transferred off-site
33	Dioxin Congener 5	22,7	N		6.2	Amount of congener #5, 1,2,3,7,8,9-Hexachlorodibenzo- p-dioxin (CAS# 019408743) transferred off-site
34	Dioxin Congener 6	22,7	N	S	6.2	Amount of congener #6, 1,2,3,4,6,7,8-Heptachlorodibenzo- p-dioxin (CAS# 035822469) transferred off-site
35	Dioxin Congener 7	22,7	N	S	6.2	Amount of congener #7, 1,2,3,4,6,7,8,9-Octachlorodibenzo- p-dioxin (CAS# 003268879) transferred off-site
36	Dioxin Congener 8	22,7	N	S	6.2	Amount of congener #8, 2,3,7,8-Tetrachlorodibenzofuran 2,3,7,8-TCDF (CAS# 051207319) transferred off-site
37	Dioxin Congener 9	22,7	N	S	6.2	Amount of congener #9, 1,2,3,7,8-Pentachlorodibenzofuran 1,2,3,7,8-PeCDF (CAS# 057117416) transferred off-site
38	Dioxin Congener 10	22,7	N	S	6.2	Amount of congener #10, 2,3,4,7,8-Pentachlorodibenzofuran 2,3,4,7,8-PeCDF (CAS# 057117314) transferred off-site
39	Dioxin Congener 11	22,7	N	S	6.2	Amount of congener #11, 1,2,3,4,7,8-Hexachlorodibenzofuran 1,2,3,4,7,8-HxCDF

	Field Documentation for the "Transfer Details Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
						(CAS# 070648269) transferred off-site
40	Dioxin Congener 12	22,7	N	S	6.2	Amount of congener #12, 1,2,3,6,7,8-Hexachlorodibenzofuran 1,2,3,6,7,8-HxCDF (CAS# 057117449) transferred off-site
41	Dioxin Congener 13	22,7	N	S	6.2	Amount of congener #13, 1,2,3,7,8,9-Hexachlorodibenzofuran 1,2,3,7,8,9-HxCDF (CAS# 072918219) transferred off-site
42	Dioxin Congener 14	22,7	N	S	6.2	Amount of congener #14, 2,3,4,6,7,8-Hexachlorodibenzofuran 2,3,4,6,7,8-HxCDF (CAS# 060851345) transferred off-site.
43	Dioxin Congener 15	22,7	N	S	6.2	Amount of congener #15, 1,2,3,4,6,7,8-Heptachlorodibenzofuran 1,2,3,4,6,7,8-HpCDF (CAS# 067562394) transferred off-site.
44	Dioxin Congener 16	22,7	N	S	6.2	Amount of congener #16, 1,2,3,4,7,8,9-Heptachlorodibenzofuran 1,2,3,4,7,8,9-HpCDF (CAS# 055673897) transferred off-site.
45	Dioxin Congener 17	22,7	N	S	6.2	Amount of congener #17, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran 1,2,3,4,6,7,8,9-OCDF (CAS# 039001020) transferred off-site.
46	Calculated TEQ	22,7	N			The EPA-calculated TEQ value. this value is calculated by summing the product of each reported congener amount by its established Toxic Equivalency Factor.
47	Total Transfer	22,7	N	R II	6.2	The total amount of transfers of the chemical off-site as listed on the Form R, in section 6.2. This amount should also be equal the sum of the congeners.
48	Off Site Name	62	C	R II	6.2	Name of the Off-site transfer location
49	Off Site Address	62	C	R II	6.2	Address of the off-site transfer location
50	Off Site City	28	C	R II	6.2	City where the off-site transfer site is located
51	Off Site County	25	C	R II	6.2	County where the off-site transfer site is located
52	Off Site State	2	C	R II	6.2	State where the off-site transfer site is located
53	Off Site Province	25	C	R II	6.2	Province (non-US) where the off-site transfer site is located
54	Off Site ZIP	14	C	R II	6.2	ZIP code of the off-site transfer location
55	Off Site Country Abbr	3	C			3-character abbreviation of the country where the off-site transfer site is located. Examples = {USA, MEX, CAN, etc.}
56	Off Site Country	25	C			Name of the country where the off-site transfer site is located.

	Field Documentation for the "Transfer Details Data" file					
				Reference		
#	Field	Max Length	Data Type	Form and Part	Section	Definition
57	RCRA Num	12	C	R II	6.2	The Resource Conservation and Recovery Act (RCRA) number of the off-site transfer location.
58	Controlled Location	12	C	R II	6.2	Indication of whether the off-site transfer location is under the control of the reporting facility. Values = {Yes,No}
59	Data Extracted On	11	C			Date the data were extracted. Format MM/DD/YYYY