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## PURPOSE AND USE OF THIS DOCUMENT

This data set contributes to the Environmental Public Health Tracking Network. The EPHT cooperative agreement states that “by September 30, 2008 [...all grantees must] track and make available core environmental health tracking measures on the State and National EPHT Network [...including ...] data/information on key water contaminants, as defined through the Content workgroup process.” The Content Workgroup Water Team identified initial contaminants of concern for the national EPHT program, identified nationally consistent data sources, and developed nationally consistent indicators and measures. This data set can be used to calculate the nationally consistent measures for the initial contaminants of concern.

This data set contains the information needed to calculate Environmental Public Health Tracking (EPHT) measures of contaminants in public water supply for arsenic, disinfection byproducts, nitrates, atrazine, di(2-ethylhexyl) phthalate (DEHP), radium, tetrachloroethene (tetrachloroethylene) (PCE), trichloroethene (trichloroethylene) (TCE), and uranium. Data are derived from state Safe Drinking Water Act databases. The data set consists of two tables:

1. PWS Inventory. This file is required and contains descriptive and locational information about each public water system (PWS) with which water quality data is provided. This dataset should only include Community Water Systems (CWS) as defined and regulated by the Safe Drinking Water Act. It does not include Non-Transient Non-Community (NTNC) and Transient Non-Community water systems (TNC). There is one record for every year that a CWS was active, delivering drinking water to customers, and in which water quality data is complete. CWS that were once active and are currently inactive should be included if State's data support this scenario.
2. Drinking Water Quality Sampling Results. This file is required and contains one record for each community water system (CWS) for the mean and maximum concentrations per year of each of arsenic, disinfection byproducts (HAA5 and TTHM), nitrates, atrazine, di(2-ethylhexyl) phthalate (DEHP), radium, tetrachloroethene (tetrachloroethylene) (PCE), trichloroethene (trichloroethylene) (TCE), and uranium; and the mean concentrations per quarter of disinfection byproducts, nitrates and atrazine.

## VERSION HISTORY V.18.1

18.0 This version has been updated to remove three sample level variables and any mention of sample level data throughout the document.

18.1 this version has added new analytes lead, PFOS and PFOA

| Field Name         | Description |
|--------------------|-------------|
| [Insert info here] |             |

## DATA DICTIONARY

PWS Inventory (all variables are required)

| Field Name/Schema Name     | Field Description                                            | Format  | Allowed Values                                                                                                                                                                                                                                                           |
|----------------------------|--------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| StateFIPSCode              | State FIPS code                                              | AN(2)   | FIPS State Code                                                                                                                                                                                                                                                          |
| PWSIDNumber                | PWS identifier                                               | AN(9)   | nine-character value consisting of the 2-letter state abbreviation followed by 7 numbers                                                                                                                                                                                 |
| YearAssociatedTo           | Year data are associated to with regards to sampling results | Text(4) | YYYY. 1999 through latest complete year (e.g., 2021)                                                                                                                                                                                                                     |
| YearPulled                 | Year that these data were pulled from state records          | Text(4) | YYYY. 1999 through latest year.                                                                                                                                                                                                                                          |
| PWSName                    | Name of PWS                                                  | AN(40)  | Any; "U" = Unknown; "NS" = Not submitted                                                                                                                                                                                                                                 |
| PrincipalCountyServed FIPS | Principal county FIPS served by the CWS                      | AN(5)   | Any; "U" = Unknown; "NS" = Not submitted                                                                                                                                                                                                                                 |
| PrincipalCityFeatureID     | Principal city, town or village Feature ID served by the CWS | N(10)   | 9999999999;"-999" for Missing; "-888" for Not Submitted<br>Feature ID can be obtained from:<br><a href="http://geonames.usgs.gov/domestic/download_data.htm">http://geonames.usgs.gov/domestic/download_data.htm</a>                                                     |
| TotalConnections           | Number of residential service connections                    | N(7)    | 1-9999999                                                                                                                                                                                                                                                                |
| SystemPopulation           | Permanent population uniquely served by the CWS              | N(8)    | 10-99999999 "                                                                                                                                                                                                                                                            |
| PrimarySourceCode          | Type of water source                                         | AN(3)   | GU = ground water under direct influence of surface water, GUP = purchased ground water under direct influence of surface water, GW = ground water, GWP = purchased ground water, SW = surface water, SWP = purchased surface water; "U" = Unknown; "NS" = Not submitted |
| Latitude                   | Latitude in NAD83                                            | N(10)   | 00.0000000 to 90.0000000;"-99.99" for                                                                                                                                                                                                                                    |

| Field Name/Schema Name | Field Description                                                                                       | Format | Allowed Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | decimal degrees describing approximate center of retail service area of water system                    |        | Missing; “-88.88” for Not Submitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Longitude              | Longitude in NAD83 decimal degrees describing approximate center of retail service area of water system | N(11)  | -180.000000 to 180.000000;“-999” for Missing; “-888” for Not Submitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| LocationDerivationCode | Code describing how approximate latitude/longitude location was derived                                 | AN(3)  | SA = Service area polygon centroid; MFL = Mean of 1 or more facility locations that are expected to be proximate to service area extent; PCS = GNIS coordinates for Principal City Served; GSH = The geocoded address of water system headquarters; PNS - GNIS coordinates for Principal County Served; O= Other (e.g., zip code, etc.)<br>“-999” = Missing; “-888” = Not Submitted;<br>(See “Appendix A. Service Area Location Derivation Guidance of the How-To Guide” on EPHTN Share Point site for more information & guidance for deriving water system locations.) |

## Drinking Water Quality Sampling Results

| Field Name/Schema Name | Field Description                                                                                                                               | Format     | Allowed Values                                                                                                                                                                                                                                                                     | Required (Y/N) |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| PWSIDNumber            | PWS identifier                                                                                                                                  | AN(9)      | Nine-character value consisting of the 2-letter state abbreviation followed by 7 numbers                                                                                                                                                                                           | Y              |
| StateFIPSCode          | State FIPS code                                                                                                                                 | AN(2)      | FIPS State Code                                                                                                                                                                                                                                                                    | Y              |
| Year                   | Year                                                                                                                                            | Text(4)    | YYYY; 1999 through latest complete year (e.g., 2011)                                                                                                                                                                                                                               | Y              |
| AnalyteCode            | USEPA Analyte code for required constituents (arsenic, nitrate, TTHM, HAA5, atrazine, PCE, TCE, DEHP, radium, uranium, lead, PFOS, PFOA).       | N(4)       | 1005=Arsenic<br>2050=Atrazine<br>2456=HAA5<br>2950=TTHM<br>2039=DEHP<br>1040=Nitrate<br>2987=PCE<br>2984=TCE<br>4010=Combined Radium<br>226 & 228<br>4006=Uranium (see How-To-Guide for converting gross alpha particle activity to U in ug/L) 1030=Lead<br>2805=PFOS<br>2806=PFOA | Y              |
| ConcentrationUnits     | The analyte-specific units of summary-level measures as reported in the Concentration field. Each analyte has a standard unit for this dataset. | AN(6)      | “ug/L” <b>allowed only for</b> (Arsenic, TTHM, HAA5, Atrazine, DEHP, PCE, TCE, uranium, lead, PFOS, PFOA); “mg/L” <b>allowed only for</b> (Nitrate as nitrogen); “pCi/L” <b>allowed only for</b> (Radium)                                                                          | Y              |
| Concentration          | Reported summary-level concentration                                                                                                            | 6.4        | >0 for summary-level measure                                                                                                                                                                                                                                                       | Y              |
| DateSampled            | Date last sampled (summary-level data)                                                                                                          | YYYY-MM-DD | A valid date from 1/1/1999 through December 31 <sup>st</sup> of the latest complete year (e.g., 2011-12-31).                                                                                                                                                                       | Y              |
| AggregationType        | Type of summary operation performed (i.e., mean or max) for summary-level data.                                                                 | AN(3)      | “X” = Mean (for Annual and Quarterly data); “MX” = Maximum (For Annual Data <b>ONLY; DO NOT SUBMIT FOR QUARTERLY DATA</b> )<br>90X = annual 90 <sup>th</sup> percentile                                                                                                            | Y              |
| NumSamplingLocati      | Number of                                                                                                                                       | N(4)       | 1-9999; “-888” for Not Submitted                                                                                                                                                                                                                                                   | Y              |

| Field Name/Schema Name | Field Description                                                                                                            | Format | Allowed Values                                                                                                                                  | Required (Y/N) |
|------------------------|------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ons                    | compliance sampling locations from which summary-level records were derived.                                                 |        |                                                                                                                                                 |                |
| SummaryTimePeriod      | Year or Quarter for summary-level data                                                                                       | AN(10) | YYYY for annual summarized values;<br>YYYY-Q for quarterly summarized values<br><b>Allowed Only for Analyte Codes 2050, 2456, 2950 and 1040</b> | Y              |
| NumSamples             | Number of samples used in calculating the mean/max/90 <sup>th</sup> percentile for a given analyte during a quarter or year. | N(4)   | 1-XXXX                                                                                                                                          | Y              |
| NumNonDetects          | The number of samples that were non-detections for summary-level data.                                                       | N(4)   | 0-XXXX (XXXX must be no greater than NumSamples)                                                                                                | Y              |

## CDC'S ENVIRONMENTAL PUBLIC HEALTH TRACKING PROGRAM

Contact us: [trackingsupport@cdc.gov](mailto:trackingsupport@cdc.gov)

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