

## 303D Impaired Waters

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### **Identification Information:**

#### **Citation:**

##### **Citation Information:**

**Originator:** U.S. Environmental Protection Agency

**Publication Date:** 20080401

**Title:** 303D Impaired Waters

**Geospatial Data Presentation Form:** Live Data and Maps

##### **Series Information:**

**Series Name:** 303(d) Listed Waters

**Issue Identification:** 1

##### **Publication Information:**

**Publication Place:** Washington, D.C.

**Publisher:** US EPA

**Online Linkage:** [http://geodata.epa.gov/wmsconnector/com.esri.wms.Esrimap/RAD\\_evt\\_303d\\_Image?request=getcapabilities&service=WMS&version=1.1.1](http://geodata.epa.gov/wmsconnector/com.esri.wms.Esrimap/RAD_evt_303d_Image?request=getcapabilities&service=WMS&version=1.1.1)

**Online Linkage:** <http://epamap32.epa.gov/radims/>

### **Description:**

**Abstract:** The 303(d) image service provides impaired water data and impaired water features to reflect river segments, lakes, and estuaries designated under Section 303(d) of the Clean Water Act. Each State will establish Total Maximum Daily Loads (TMDLs) for these waters. Note the CWA Section 303(d) list of impaired waters does not represent waters that are impaired but have an EPA-approved TMDL established, impaired waters for which other pollution control mechanisms are in place and expected to attain water quality standards, or waters impaired as a result of pollution and is not caused by a pollutant; therefore, the "Impaired Waters" layers do not represent all impaired waters reported in a state's Integrated Report, but only the waters comprised of a state's approved 303(d) list. For more information regarding impaired waters refer to EPA's Integrated Reporting Guidance at: <http://www.epa.gov/owow/tmdl/guidance.html> 303(d) Waterbodies are coded onto NHD linear and area features to create Linear, Polygonal and Point Events. Point events represent impaired waterbody segments that do not fall on an NHD reach. 303(d) Waterbodies are coded onto NHD Waterbody reaches (region.rch) to create Waterbody Shapefiles. In addition to NHD reach indexed data there may also be custom shapefiles (point, line, or polygon) that are not associated with NHD and are in an EPA standard format that is compatible with EPA's Reach Address Database. These custom features are used to represent locations of 303(d) waterbodies that are not represented well in NHD.

**Purpose:** To identify the spatial extent of waters listed under 303(d). These waters can be linked to the 303(d) information stored in EPA's Assessment and TMDL Tracking and Implementation System (ATTAINS) for query and display via EPA's WATERS Expert Query Tool. The source\_feature\_id field in the waterbody shapefile can be linked to the listed\_water\_id in EPA's Assessment and TMDL Tracking and Implementation System (ATTAINS).

**Supplemental Information:** Procedures Used: State Water Quality Agencies supplied

EPAs Office of Water lists of waters reported under 303(d). These lists contained text which identified the locations of individual waters on their list. Many states also submitted GIS coverages and/or maps that outlined the spatial extent of their listed waters. These base materials were used by EPA to code the spatial extent onto NHD linear and area features to create NHD Point and Linear Events. Using the EPA NHD Reach Indexing Tool (NHD-RIT), event tables were created by conflating the state's data to NHD reaches and the reaches were attributed with the 303(d) identifiers supplied by the states. Revisions: The data were sent to each state for review and comment. The format of the reviewed data was state dependent; formats consisted of text descriptions or shapefiles. In many cases, modifications were noted by the State and then corrections were made by RTI. RelatedSpatialandTabular\_Data\_Sets: EPAs Assessment and TMDL Tracking and Implementation System (ATTAINS) contains relevant data that links to this shapefile via the WATERS Expert Query Tool. The source\_feature\_id field in the waterbody shapefile can be linked to the listed\_water\_id in ATTAINS. For spatial layers containing all impaired waters (Integrated Reporting categories 4a, 4b, 4c and 5, 5m) Download the GIS layer, "Assessed Waters" from EPA's Reach Address Database. NHD Vintage: NHDPlus - Current as of May, 2009 (compatible with EPA Reach Address Database Version 3.0)

**Time Period of Content:**

**Currentness Reference:** publication date

**Time Period Information:**

**Single Date/Time:**

**Calendar Date:** 2002

**Status:**

**Progress:** In work

**Maintenance and Update Frequency:** Each State dataset is generally updated once every 2 years. Generally, EPAs Reach Address Database is updated with States impaired waters datasets approximately 3-4 times per year, at irregular intervals.

**Spatial Domain:****Bounding Coordinates:**

**West Bounding Coordinate:** -138.21454852

**East Bounding Coordinate:** -12.68151645

**North Bounding Coordinate:** 61.7110157

**South Bounding Coordinate:** 6.65223303

**Keywords:****Theme:**

**Theme Keyword Thesaurus:** None

**Theme Keyword:** impaired waters

**Theme Keyword:** 303d

**Theme Keyword:** TMDL

**Theme Keyword:** clean water act

**Theme Keyword:** map service

**Theme Keyword:** waters10

**Theme Keyword:** listed waters

**Theme Keyword:** shapefile

**Theme Keyword:** total maximum daily loads

**Theme Keyword:** TMDLs

**Theme Keyword:** feature service

**Theme Keyword:** CWA

**Theme Keyword:** point source

**Theme Keyword:** GIS

**Theme Keyword:** EPA

**Theme Keyword:** Stream

**Theme Keyword:** reach

**Theme:**

**Theme Keyword Thesaurus:** ISO 19115 Topic Category

**Theme Keyword:** environment

**Theme Keyword:** inlandWaters

**Place:**

**Place Keyword Thesaurus:** None

**Place Keyword:** US

**Place Keyword:** National

**Access Constraints:** None.

**Use Constraints:** The reach indexing review site is designed for state review of Clean Water Act Section 303(d) spatial data. Research Triangle Institute (RTI), under contract with EPA, georeferenced (or indexed) the states' impaired waters to the National Hydrography Dataset (NHD). EPA would like each state to have the opportunity to review the indexing work. Reviewers are asked to assess the accuracy of 303(d) reach indexing (georeferencing) efforts. More specifically, reviewers are asked to evaluate whether impaired waters are assigned to the appropriate reaches and to assess the accuracy of the locational information. When using this data in a spatial query, errors in determining the overlap can occur. The errors can be grouped as follows: (1) False Positives occur when the locational information is either incorrect or not of sufficient quality to determine its exact location. (2) False Negatives occur when locational information is missing or not available. (3) In addition to the entity locational information, errors, although few, may also exist in the spatial network of rivers, streams, and other waterbodies that comprise the National Hydrography Dataset (NHD) jointly maintained by USGS and USEPA. Errors in the NHD may contribute both to false positive and false negative readings. Please check sources, scale, accuracy, currentness and other available information. Please confirm that you are using the most recent copy of both data and metadata. Acknowledgement of the EPA would be appreciated.

**Security Information:**

**Security Classification System:** FIPS Pub 199

**Security Classification:** No Confidentiality

**Security Handling Description:** Standard Technical Controls

**Point of Contact:**

**Contact Information:**

**Contact Person Primary:**

**Contact Organization:** US EPA Headquarters

**Contact Person:** Wendy Reid

**Contact Address:**

**Address Type:** mailing address

**Address:** 1200 Pennsylvania Avenue, NW MC 4503T

**City:** Washington

**State or Province:** DC

**Postal Code:** 20460

**Contact Voice Telephone:** 202-566-1705

**Contact Electronic Mail Address:** reid.wendy@epa.gov

#### **Data Quality Information:**

**Logical Consistency Report:** Chain-node topology present

**Completeness Report:** Features represented have not been tested for completeness

#### **Positional Accuracy:**

##### **Horizontal Positional Accuracy:**

**Horizontal Positional Accuracy Report:** Statements of horizontal positional accuracy are based on accuracy statements made for USGS topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For horizontal accuracy, this standard is met if at least 90 percent of points tested are within 0.02 inch (at map scale) of their true positions. Additional offsets to positions may have been introduced where there are many features to improve the legibility of map symbols. In addition, the digitizing of maps is estimated to contain a horizontal positional error of less than or equal to 0.003-inch standard error (at map scale) in the two component directions relative to the source maps. Visual comparison between the map graphic (including digital scans of the graphic) and plots or digital displays of points, lines, and areas is used to assess the positional accuracy of digital data. Linear features of the same type along the adjoining edges of data sets are aligned if they are within a 0.02-inch tolerance (at map scale). To align the features, the midpoint between the end of the corresponding features is computed, and the ends of features are moved to this point. Features outside the tolerance are not moved; instead, a feature of the type connector was added to join the features. For more information, see the National Hydrography Dataset Concepts and Contents document (February 2000) available at <<http://nhd.usgs.gov/chapter1/index.html>>.

##### **Vertical Positional Accuracy:**

**Vertical Positional Accuracy Report:** Statements of vertical positional accuracy for elevation of water surfaces are based on accuracy statements made for USGS topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For vertical accuracy, this standard is met if at least 90 percent of well-defined points tested are within one-half contour interval of the correct value. Elevations of water surface printed on the published map meet this standard; the contour intervals of the maps vary. These elevations were transcribed into the digital data; the accuracy of this transcription was checked by visual comparison between the data and the map. For more information, see the National Hydrography Dataset Concepts and Contents document (February 2000) available at <<http://nhd.usgs.gov/chapter1/index.html>>.

#### **Lineage:**

##### **Process Step:**

**Process Date:** 20080401

**Process Description:** Each state sent EPA a marked-up map or existing GIS coverage denoting the location and extent of each waterbody. Using the EPA's NHD Reach Indexing Tool (NHD-RIT), event tables were created by conflating the state's data to NHD. Event identifiers were populated with the 303(d) codes supplied by each states' list.

**Spatial Reference Information:**

**Horizontal Coordinate System Definition:**

**Geographic:**

**Latitude Resolution:** 0.000001

**Longitude Resolution:** 0.000001

**Geographic Coordinate Units:** Decimal degrees

**Geodetic Model:**

**Horizontal Datum Name:** North American Datum of 1983

**Ellipsoid Name:** Geodetic Reference System 1980

**Semi-major Axis:** 6378137.000000

**Denominator of Flattening Ratio:** 298.257222

**Entity and Attribute Information:**

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** TABLE 303d\_p

**Entity Type Definition:** 303d point event table

**Entity Type Definition Source:** RAD

**Attribute:**

**Attribute Label:** COM\_ID

**Attribute Definition:** Unique event identifier

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Unique identifier

**Attribute:**

**Attribute Label:** EVENTDATE

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Currently not in use

**Attribute Definition:** Currently not in use

**Attribute:**

**Attribute Label:** EVENTTYPE

**Attribute Definition:** Attribute type/program being indexed

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Fictitious date value - NULL

**Attribute:**

**Attribute Label:** REACHCODE

**Attribute Definition:** NHD linear reach code: a numeric code that uniquely identifies

a reach. This 14 digit code has two parts: the first eight digits are the HUC for the sub-basin in which the reach is located; the last six digits are a sequentially-ordered randomly assigned number

**Attribute Definition Source:** NHD

**Attribute Domain Values:**

**Unrepresentable Domain:** NHD reach code

**Attribute:**

**Attribute Label:** REACHSMDATE

**Attribute Definition:** Date that the RCH\_CODE was assigned

**Attribute Definition Source:** NHD

**Attribute Domain Values:**

**Unrepresentable Domain:** Fictitious date value - NULL

**Attribute:**

**Attribute Label:** REACHRESOLUTION

**Attribute Definition:** Currently not in use

**Attribute Definition Source:** EPA

**Attribute Domain Values:**

**Unrepresentable Domain:** Currently not in use

**Attribute:**

**Attribute Label:** SOURCE\_ORIGINATOR

**Attribute Definition:** Organization abbreviation

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Organization abbreviation

**Attribute:**

**Attribute Label:** SOURCE\_DATADESC

**Attribute Definition:** Attribute value being indexed

**Attribute Definition Source:** EPA

**Attribute Domain Values:**

**Unrepresentable Domain:** Program event name

**Attribute:**

**Attribute Label:** SOURCE\_FEATUREID

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** SOURCE\_FEATUREID

**Attribute Definition:** SOURCE\_FEATUREID

**Attribute:**

**Attribute Label:** FEATUREDETAILURL

**Attribute Definition:** Currently not in use

**Attribute Definition Source:** EPA

**Attribute Domain Values:**

**Unrepresentable Domain:** Currently not in use

**Attribute:**

**Attribute Label:** OFFSET

**Attribute Definition:** Event display offset

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Offset value

**Attribute:**

**Attribute Label:** MEASURE

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** SOURCE\_FEATUREID

**Attribute Definition:** MEASURE

**Attribute:**

**Attribute Label:** GEOGSTATE

**Attribute Definition:** State abbreviation

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** State abbreviation

**Attribute:**

**Attribute Label:** CYCLE\_Year

**Attribute Definition:** Cycle year of data

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Range Domain:**

**Range Domain Minimum:** 2002

**Range Domain Maximum:** 2004

**Attribute:**

**Attribute Label:** START\_DATE

**Attribute Definition:** Start date of data

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Range Domain:**

**Range Domain Minimum:** 4/1/2002

**Range Domain Maximum:** 4/1/2004

**Attribute:**

**Attribute Label:** END\_DATE

**Attribute Definition:** End date of data

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Added to event tables for consistency. Column already existed in archive tables. Column contains the date the event is considered to be inactive and archived. This field is automatically filled out during event maintenance.

**Attribute:**

**Attribute Label:** WBD\_HUC12

**Attribute Definition:** WBD HUC12 unit that most encompasses the NHD feature

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** This field is automatically filled out during event maintenance.

**Attribute:**

**Attribute Label:** WBD\_HUC12\_Percent

**Attribute Definition:** Percentage of the feature contained within the WBD12 unit

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** This field is automatically filled out during event maintenance.

**Attribute:**

**Attribute Label:** vertices

**Attribute Definition:** Numeric count of individual vertices in the NHD feature

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** This field is automatically filled out during event maintenance.

**Attribute:**

**Attribute Label:** shape

**Attribute Definition:** ArcSDE managed geometry type

**Attribute Definition Source:** ESRI

**Attribute Domain Values:**

**Unrepresentable Domain:** Internal feature number

**Attribute:**

**Attribute Label:** objectid

**Attribute Definition:** ArcSDE managed numeric key

**Attribute Definition Source:** ESRI

**Attribute Domain Values:**

**Unrepresentable Domain:** Internal feature number

**Detailed Description:**

**Entity Type:**

**Entity Type Label:** TABLE 303d\_I

**Entity Type Definition:** 303d line event table

**Entity Type Definition Source:** RAD

**Attribute:**

**Attribute Label:** COM\_ID

**Attribute Definition:** Unique event identifier

**Attribute Domain Values:**

**Unrepresentable Domain:** Unique identifier

**Attribute Definition Source:** RAD

**Attribute:**

**Attribute Label:** EVENTDATE

**Attribute Domain Values:**

**Unrepresentable Domain:** Currently not in use

**Attribute Definition:** Currently not in use

**Attribute Definition Source:** RAD

**Attribute:**

**Attribute Label:** EVENTTYPE

**Attribute Definition:** Attribute type/program being indexed

**Attribute Domain Values:**

**Unrepresentable Domain:** Event type

**Attribute Definition Source:** RAD

**Attribute:**

**Attribute Label:** REACHCODE

**Attribute Definition:** NHD linear reach code: a numeric code that uniquely identifies a reach. This 14 digit code has two parts: the first eight digits are the HUC for the sub-basin in which the reach is located; the last six digits are a sequentially-ordered randomly assigned number

**Attribute Domain Values:**

**Unrepresentable Domain:** This 14 digit code has two parts: the first eight digits are the HUC for the sub-basin in which the reach is located; the last six digits are a sequentially-ordered randomly assigned number

**Attribute Definition Source:** RAD

**Attribute:**

**Attribute Label:** REACHSMDATE

**Attribute Definition:** Date that the RCH\_CODE was assigned

**Attribute Domain Values:**

**Unrepresentable Domain:** Fictitious date value - NULL

**Attribute Definition Source:** RAD

**Attribute:**

**Attribute Label:** REACHRESOLUTION

**Attribute Definition:** Currently not in use

**Attribute Domain Values:**

**Unrepresentable Domain:** Currently not in use

**Attribute Definition Source:** RAD

**Attribute:**

**Attribute Label:** SOURCE\_ORIGINATOR

**Attribute Definition:** Organization abbreviation

**Attribute Domain Values:**

**Unrepresentable Domain:** Organization abbreviation

**Attribute Definition Source:** RAD

**Attribute:**

**Attribute Label:** SOURCE\_DATADESC

**Attribute Definition:** Attribute value being indexed

**Attribute Domain Values:**

**Unrepresentable Domain:** Attribute value being indexed

**Attribute Definition Source:** RAD

**Attribute:**

**Attribute Label:** SOURCE\_FEATUREID

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** SOURCE\_FEATUREID

**Attribute Definition:** SOURCE\_FEATUREID

**Attribute:**

**Attribute Label:** FEATUREDETAILURL

**Attribute Definition:** Currently not in use

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Currently not in use

**Attribute:**

**Attribute Label:** OFFSET

**Attribute Definition:** Event display offset

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Event display offset

**Attribute:**

**Attribute Label:** FMEASURE

**Attribute Definition:** Linear from measure

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Linear from measure

**Attribute:**

**Attribute Label:** TMEASURE

**Attribute Definition:** Linear to measure

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Linear to measure

**Attribute:**

**Attribute Label:** SHAPE\_LENGTH

**Attribute Definition:** Length of linear event in meters

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Length in meters

**Attribute:**

**Attribute Label:** GEOGSTATE

**Attribute Definition:** State abbreviation

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** State abbreviation

**Attribute:**

**Attribute Label:** CYCLE\_Year

**Attribute Definition:** Cycle year of data

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Range Domain:**

**Range Domain Minimum:** 2002

**Range Domain Maximum:** 2004

**Attribute:**

**Attribute Label:** START\_DATE

**Attribute Definition:** Start date of data

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Range Domain:**

**Range Domain Minimum:** 4/1/2002

**Range Domain Maximum:** 4/2/2004

**Attribute:**

**Attribute Label:** END\_DATE

**Attribute Definition:** End date of data

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** End date of data

**Attribute:**

**Attribute Label:** WBD\_HUC12

**Attribute Definition:** WBD HUC12 unit that most encompasses the NHD feature

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Watershed Boundary Dataset

**Attribute:**

**Attribute Label:** WBD\_HUC12\_Percent

**Attribute Definition:** Percentage of the feature contained within the WBD12 unit

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Watershed Boundary Dataset

**Attribute:**

**Attribute Label:** vertices

**Attribute Definition:** Numeric count of individual vertices in the NHD feature

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Numeric count of vertices

**Attribute:**

**Attribute Label:** shape

**Attribute Definition:** ArcSDE managed geometry type

**Attribute Definition Source:** ESRI

**Attribute Domain Values:**

**Unrepresentable Domain:** Internal feature number

**Attribute:**

**Attribute Label:** objectid

**Attribute Definition:** ArcSDE managed numeric key

**Attribute Definition Source:** ESRI

**Attribute Domain Values:**

**Unrepresentable Domain:** Internal feature number

**Detailed Description:****Entity Type:**

**Entity Type Label:** TABLE 303d\_a

**Entity Type Definition:** 303d area event table

**Entity Type Definition Source:** RAD

**Attribute:**

**Attribute Label:** COM\_ID

**Attribute Definition:** Unique event identifier

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Unique identifier

**Attribute:**

**Attribute Label:** EVENTDATE

**Attribute Domain Values:**

**Unrepresentable Domain:** Currently not in use

**Attribute Definition:** Currently not in use

**Attribute Definition Source:** RAD

**Attribute:**

**Attribute Label:** EVENTTYPE

**Attribute Definition:** Attribute type/program being indexed

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Attribute type/program being indexed

**Attribute:**

**Attribute Label:** REACHCODE

**Attribute Definition:** NHD linear reach code: a numeric code that uniquely identifies a reach. This 14 digit code has two parts: the first eight digits are the HUC for the sub-basin in which the reach is located; the last six digits are a sequentially-ordered randomly assigned number

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** This 14 digit code has two parts: the first eight digits are the HUC for the sub-basin in which the reach is located; the last six digits are a sequentially-ordered randomly assigned number

**Attribute:**

**Attribute Label:** REACHSMDATE

**Attribute Definition:** Date that the RCH\_CODE was assigned

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Fictitious date value- NULL

**Attribute:**

**Attribute Label:** REACHRESOLUTION

**Attribute Definition:** Currently not in use

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Currently not in use

**Attribute:**

**Attribute Label:** SOURCE\_ORIGINATOR

**Attribute Definition:** Organization abbreviation

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Currently not in use

**Attribute:**

**Attribute Label:** SOURCE\_DATADESC

**Attribute Definition:** Attribute value being indexed

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Attribute value being indexed

**Attribute:**

**Attribute Label:** SOURCE\_FEATUREID

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** SOURCE\_FEATUREID

**Attribute Definition:** SOURCE\_FEATUREID

**Attribute:**

**Attribute Label:** FEATUREDETAILURL

**Attribute Definition:** Currently not in use

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Currently not in use

**Attribute:**

**Attribute Label:** GEOGSTATE

**Attribute Definition:** State abbreviation

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** State abbreviation

**Attribute:**

**Attribute Label:** CYCLE\_Year

**Attribute Definition:** Cycle year of data

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Range Domain:**

**Range Domain Minimum:** 2002

**Range Domain Maximum:** 2004

**Attribute:**

**Attribute Label:** START\_DATE

**Attribute Definition:** Start date of data

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Range Domain:**

**Range Domain Minimum:** 4/1/2002

**Range Domain Maximum:** 4/1/2004

**Attribute:**

**Attribute Label:** END\_DATE

**Attribute Definition:** End date of data

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** End date of data

**Attribute:**

**Attribute Label:** WBD\_HUC12

**Attribute Definition:** WBD HUC12 unit that most encompasses the NHD feature

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Watershed Boundary Dataset

**Attribute:**

**Attribute Label:** WBD\_HUC12\_Percent

**Attribute Definition:** Percentage of the feature contained within the WBD12 unit

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Watershed Boundary Dataset

**Attribute:**

**Attribute Label:** vertices

**Attribute Definition:** Numeric count of individual vertices in the NHD feature

**Attribute Definition Source:** RAD

**Attribute Domain Values:**

**Unrepresentable Domain:** Numeric count of vertices

**Attribute:**

**Attribute Label:** shape

**Attribute Definition:** ArcSDE managed geometry type

**Attribute Definition Source:** ESRI

**Attribute Domain Values:**

**Unrepresentable Domain:** Internal feature number

**Attribute:**

**Attribute Label:** objectid

**Attribute Definition:** ArcSDE managed numeric key

**Attribute Definition Source:** ESRI

**Attribute Domain Values:**

**Unrepresentable Domain:** Internal feature number

**Distribution Information:**

**Resource Description:** Live Data and Maps

**Distribution Liability:** Although these data have been processed successfully on a computer system at the Environmental Protection Agency, no warranty expressed or implied is made regarding the accuracy or utility of the data on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. It is strongly

recommended that careful attention be paid to the contents of the metadata file associated with these data to evaluate data set limitations, restrictions or intended use. The U.S. Environmental Protection Agency shall not be held liable for improper or incorrect use of the data described and/or contained herein.

**Standard Order Process:**

**Digital Form:**

**Digital Transfer Information:**

**Format Name:** Shapefile

**Format Information Content:** National Shapefiles - These static files reflect the information in the NHD Reach Address Database (RAD) on the date of extract.

**File Decompression Technique:** Zipped (compressed) file

**Digital Transfer Option:**

**Online Option:**

**Computer Contact Information:**

**Network Address:**

**Network Resource Name:** <http://www.epa.gov/waters/data/downloads.html>

**Fees:** None

**Digital Form:**

**Digital Transfer Information:**

**Format Name:** Shapefile

**Format Information Content:** These spatial files represent the most up-to-date publicly available Water program data by State or Watershed from the Reach Address Database (RAD).

**File Decompression Technique:** Zip (compressed) file

**Digital Transfer Option:**

**Online Option:**

**Computer Contact Information:**

**Network Address:**

**Network Resource Name:** <http://www.epa.gov/waters/data/downloads.html>

**Access Instructions:** The RAD data downloaded from this page are delivered in zipped (compressed) shapefile format. Links to metadata are also provided.

**Digital Form:**

**Digital Transfer Information:**

**Format Name:** ArcIMS Image Service

**Digital Transfer Option:**

**Online Option:**

**Computer Contact Information:**

**Network Address:**

**Network Resource Name:** <http://map24.epa.gov/emr/>

**Access Instructions:** Viewable data - not downloadable

**Digital Form:**

**Digital Transfer Information:****Format Name:** WMS Image Service**Digital Transfer Option:****Online Option:****Computer Contact Information:****Network Address:****Network Resource Name:** [http://geodata.epa.gov/wmsconnector/com.esri.wms.Esrimap/RAD\\_evt\\_303d\\_Image?request=getcapabilities&service=WMS&version=1.1.1](http://geodata.epa.gov/wmsconnector/com.esri.wms.Esrimap/RAD_evt_303d_Image?request=getcapabilities&service=WMS&version=1.1.1)**Digital Form:****Digital Transfer Information:****Format Name:** WFS Vector Data Service**Digital Transfer Option:****Online Option:****Computer Contact Information:****Network Address:****Network Resource Name:** [http://geodata.epa.gov/wfsconnector/com.esri.wfs.Esrimap/RAD\\_evt\\_303d\\_Feature?request=getcapabilities&service=WFS&version=1.1.1](http://geodata.epa.gov/wfsconnector/com.esri.wfs.Esrimap/RAD_evt_303d_Feature?request=getcapabilities&service=WFS&version=1.1.1)**Distributor:****Contact Information:****Contact Organization Primary:****Contact Organization:** US EPA Headquarters**Contact Person:** Office of Water**Contact Address:****Address Type:** mailing address**Address:** 1200 Pennsylvania Avenue, NW MC 4503T**City:** Washington**State or Province:** DC**Postal Code:** 20460**Contact Electronic Mail Address:** reid.wendy@epa.gov**Contact Voice Telephone:** 202-566-1705**Metadata Reference Information:****Metadata Date:** 20071101**Metadata Future Review Date:** 20111101**Metadata Standard Name:** FGDC Content Standards for Digital Geospatial Metadata**Metadata Standard Version:** FGDC-STD-001-1998**Metadata Time Convention:** local time**Metadata Contact:****Contact Information:****Contact Address:****Address Type:** mailing address

**Address:** 1200 Pennsylvania Avenue, NW MC 4503T

**City:** Washington

**State or Province:** DC

**Postal Code:** 20460

**Contact Voice Telephone:** 202-566-1705

**Contact Electronic Mail Address:** reid.wendy@epa.gov

**Contact Organization Primary:**

**Contact Organization:** US EPA Headquarters

**Contact Person:** Office of Water