

TCEQ Surface Water Quality Monitoring Stations

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Identification_Information:

Citation:

Citation_Information:

Originator: Texas Commission on Environmental Quality

Publication_Date: 20120220

Title: SW_ADM.TCEQ_SW_SWQM_STATIONS

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publication_Place: Austin, Texas

Publisher: Texas Commission on Environmental Quality

Online_Linkage:

Description:

Abstract:

This layer contains active and historical TCEQ Surface Water Quality Monitoring Stations for the entire state of Texas. The locations for this layer were obtained from TCEQ surface water quality monitoring programs and from other entities including but not limited to: Texas Commission on Environmental Quality (TCEQ), or predecessor agencies Engineering/Environmental firms U.S. Geological Survey (USGS) Texas Department of Health (TDH) Councils of Governments Local Governments River Authorities and Utility Districts Texas Parks and Wildlife Department (TPWD) Railroad Commission of Texas (RRC) U.S. Army Corps of Engineers (USACE) Texas Institute of Applied Environmental Research (TIAER) University of Texas Marine Science Institute (UTMSI) Texas A & M University Corpus Christi Center for Coastal Studies (TAMUCC CCS) Underground Water Conservation Districts International Boundary and Water Commission (IBWC) This layer was built using the best existing location data available from these sources. All location data has been reviewed by the custodian, but some errors may still remain. If data users identify errors, they are encouraged to provide details to the custodian to facilitate correction.

Purpose:

This dataset is intended for general purpose use, to determine locations of current and historical surface water quality monitoring stations as maintained by TCEQ. It is intended for use in planning future monitoring efforts and for reference when requesting surface water quality monitoring data from the TCEQ.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20120220

Currentness_Reference: ground condition

Status:

Progress: In work

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -106.631111

East_Bounding_Coordinate: -93.041280

North_Bounding_Coordinate: 36.468521

South_Bounding_Coordinate: 25.850000

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: surface water quality monitoring station

Place:

Place_Keyword: Texas

Access_Constraints: None.

Use_Constraints:

None. Acknowledgment of the Texas Commission on Environmental Quality in products derived from this dataset would be appreciated.

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Elizabeth Fawcett

Contact_Organization:

Texas Commission on Environmental Quality, Office of Compliance and Enforcement, Monitoring Operations Division, Data Management and Quality Assurance Section

Contact_Position: Monitoring Data/GIS Specialist

Contact_Address:

Address_Type: mailing address

Address: P.O. Box 13087 (MC-165)

City: Austin

State_or_Province: Texas

Postal_Code: 78711-3087

Country: USA

Contact_Voice_Telephone: (512) 239-3966

Contact_Facsimile_Telephone: (512) 239-1605

Contact_Electronic_Mail_Address: efawcett@tceq.state.tx.us

Hours_of_Service:

7:00 AM to 5:30 PM Monday through Thursday, excluding Texas and Federal holidays.

Contact_Instructions: E-mail is preferred.

Native_Data_Set_Environment:

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog 9.3.1.4000

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

All records are maintained by the dataset custodian. All known inaccuracies and omissions have been corrected, though some may still exist. Those who identify errors within the dataset are urged to contact the data custodian to initiate a correction.

Logical_Consistency_Report:

All data are generated by request of monitoring entities providing surface water quality monitoring data to the TCEQ. These requests for addition of new or changes to existing station records are reviewed and approved by the custodian of this dataset. These data are not consistent with the station inventory in the TCEQ Regulatory Activities and Compliance System (TRACS) database and in the case of conflicts should be considered primary.

Completeness_Report:

All records are maintained by the dataset custodian. All known inaccuracies and omissions have been corrected, though some may still exist. Those who identify errors within the dataset are urged to contact the data custodian to initiate a correction.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Beginning in June of 2003, a project to verify and update all SWQM station records to meet TCEQ locational data standards was implemented. A team within the Data Management and Quality Assurance Section at the TCEQ used the most recent available USGS 7.5 minute topographic quadrangles and 1-meter (or better) resolution digital orthophoto quadrangles (DOQQs) to map, verify, correct, and augment the station records from TRACS. This dataset is the result of this review.

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: 25 m

Horizontal_Positional_Accuracy_Explanation:

Assume that the plotted location represents the actual location in the station verbal description within 25 meters.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: Texas Commission on Environmental Quality
Publication_Date: October 18, 2005
Publication_Time: Unknown
Title: TCEQ Surface Water Quality Monitoring Stations
Edition: October 18, 2005

Source_Scale_Denominator: None.
Type_of_Source_Media: Relational Database
Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: January 12, 2006

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: SWQM Stations

Source_Contribution:

All records are maintained by the dataset custodian. All known inaccuracies and omissions have been corrected, though some may still exist. Those who identify errors within the dataset are urged to contact the data custodian to initiate a correction.

Process_Step:

Process_Description:

Latitude and longitude were corrected to fall in the appropriate location, based on existing site descriptions and original Station Location Request (SLOC) maps. In some cases, where there was no SLOC record, the description lacked specificity, and no record of a monitoring entity using the station recently existed in TRACS, the description was simply enhanced to better describe the existing lat/long. All missing values (most frequently HUC-8, short description, station type, and county information) were added to create complete records. Additional metadata (accuracy and datum information, for example) previously absent were generated to complete the dataset.

Source_Used_Citation_Abbreviation: SWQM Stations

Process_Date: 20030601

Process_Step:

Process_Description:

ArcGIS software is used to create a point shapefile from ASCII or Access data extracted from the TRACS database.

Source_Used_Citation_Abbreviation: SWQM TRACS

Process_Date: 20040806

Process_Step:

Process_Description: Metadata imported.

Source_Used_Citation_Abbreviation: P:\SLOC_stuff\SWQM_Stations_12172005.shp.xml

Process_Step:

Process_Description: Metadata imported.

Source_Used_Citation_Abbreviation: N:\Data\Water\Surface\SWQMS\swqms.shp.xml

Process_Step:

Process_Description: Metadata imported.

Source_Used_Citation_Abbreviation: N:\Data\Water\Surface\SWQMS\swqms.shp.xml

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 9180

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257222

Vertical_Coordinate_System_Definition:

Altitude_System_Definition:

Altitude_Resolution: 1.000000

Altitude_Encoding_Method:

Explicit elevation coordinate included with horizontal coordinates

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: SW_ADM.TCEQ_SW_SWQM_STATIONS

Entity_Type_Definition:

Active and historical surface water quality monitoring stations used by the Texas Commission on Environmental Quality in Texas, surrounding states, and Mexico.

Attribute:

Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: OBJECTID
Attribute_Definition: TCEQ-specific station type.
Attribute_Definition_Source:
A modified subset of EPA stream station type codes. A valid value list/domain applies.
Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%
Attribute_Value_Accuracy_Explanation: Values have been reviewed by the data custodian.

Attribute:

Attribute_Label: STATION_ID

Attribute:

Attribute_Label: LAT_DD

Attribute:

Attribute_Label: LONG_DD

Attribute:

Attribute_Label: HORZ_METH

Attribute:

Attribute_Label: HORZ_ACC

Attribute:

Attribute_Label: HORZ_REF

Attribute:

Attribute_Label: HORZ_DATE

Attribute:

Attribute_Label: HORZ_ORG

Attribute:

Attribute_Label: HORZ_DATUM

Attribute:

Attribute_Label: USGS_GAUGE

Attribute:

Attribute_Label: EPA_TYPE1

Attribute:

Attribute_Label: EPA_TYPE2

Attribute:

Attribute_Label: EPA_TYPE3

Attribute:

Attribute_Label: EPA_TYPE4

Attribute:

Attribute_Label: EPA_TYPE5

Attribute:

Attribute_Label: SHORT_DESC

Attribute:

Attribute_Label: LONG_DESC

Attribute:

Attribute_Label: BASIN_ID

Attribute:

Attribute_Label: CNTY_ID

Attribute:

Attribute_Label: CNTY_NME

Attribute:

Attribute_Label: ECO_REGION

Attribute:

Attribute_Label: HYDR_UNIT_

Attribute:

Attribute_Label: ON_SEG_FLG

Attribute:

Attribute_Label: SEG_ID

Attribute:

Attribute_Label: STREAM_SEQ

Attribute:

Attribute_Label: TWC_DIST_I

Attribute:

Attribute_Label: stream_seq

Attribute:

Attribute_Label: STATION_NU

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: NOTES

Attribute:

Attribute_Label: station_id

Attribute_Definition: Unique identifier of a monitoring location. A TRACS key field.

Attribute_Definition_Source: SWQM Stations

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation:

This is the unique identifier for these records in the SWQM module of the TRACS database.

Attribute:

Attribute_Label: lat_dd

Attribute_Definition: Latitude in decimal degrees.

Attribute_Definition_Source: SWQM Stations

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 25 m

Attribute_Value_Accuracy_Explanation:

These values have been verified as matching the station verbal description within 25 meters.

Attribute:

Attribute_Label: long_dd

Attribute_Definition: Longitude in decimal degrees.

Attribute_Definition_Source: SWQM Stations

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 25 m

Attribute_Value_Accuracy_Explanation:

These values have been verified as matching the station verbal description within 25 meters.

Attribute:

Attribute_Label: horz_meth

Attribute_Definition: Horizontal collection method.

Attribute_Definition_Source:

Various. May be noted on request for station creation or maintenance, or may be dictated by the custodian of this dataset during review.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation:

All records are assigned a value, either from existing records or through review by the data custodian.

Attribute:

Attribute_Label: horz_acc

Attribute_Definition: Horizontal accuracy.

Attribute_Definition_Source: Determined by the data custodian during review.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 25 m

Attribute_Value_Accuracy_Explanation:

Determined by the data custodian during review; must be 25 meters or greater in accuracy.

Attribute:

Attribute_Label: epa_type5

Attribute_Definition: TCEQ-specific station type.

Attribute_Definition_Source:

A modified subset of EPA stream station type codes. A valid value list/domain applies.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation: Values have been reviewed by the data custodian.

Attribute:

Attribute_Label: short_desc

Attribute_Definition: TCEQ-specific station type.

Attribute_Definition_Source:

A modified subset of EPA stream station type codes. A valid value list/domain applies.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation: Values have been reviewed by the data custodian.

Attribute:

Attribute_Label: long_desc

Attribute_Definition: TCEQ-specific station type.

Attribute_Definition_Source:

A modified subset of EPA stream station type codes. A valid value list/domain applies.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation: Values have been reviewed by the data custodian.

Attribute:

Attribute_Label: horz_ref

Attribute_Definition: Horizontal reference.

Attribute_Definition_Source: Not applicable for this dataset. Default value is "OTHER."

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation:

Value is always "OTHER" for this dataset. This attribute is irrelevant for TCEQ Surface Water Quality Monitoring Program purposes.

Attribute:

Attribute_Label: usgs_gauge

Attribute_Definition: Closest associated TCEQ classified stream segment ID.

Attribute_Definition_Source: TCEQ, TCEQ

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation: These values have been 100% reviewed by the data custodian.

Attribute:

Attribute_Label: horz_datum

Attribute_Definition: Horizontal datum.

Attribute_Definition_Source:

Horizontal reference datum of coordinates represented in the lat_dd and long_dd fields. Valid value list/domain applies.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation:

This value is noted by the requestor and confirmed by the data custodian during review.

Attribute:

Attribute_Label: epa_type1

Attribute_Definition: TCEQ-specific station type.

Attribute_Definition_Source:

A modified subset of EPA stream station type codes. A valid value list/domain applies.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation: Values have been reviewed by the data custodian.

Attribute:

Attribute_Label: horz_date

Attribute_Definition: Horizontal date

Attribute_Definition_Source: The date on which the horizontal coordinate was collected.
Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation:

Value is dictated by the requestor or determined by the data custodian during review.

Attribute:

Attribute_Label: epa_type2

Attribute_Definition: Hydrologic Unit Code, 8-digit

Attribute_Definition_Source: EPA River Reach File 3

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation: Values have been reviewed by the data custodian.

Attribute:

Attribute_Label: horz_org

Attribute_Definition: Horizontal organization.

Attribute_Definition_Source:

Code representing the organization that measured the latitude/longitude. Valid value list/domain applies.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation:

Noted as the organization of the requestor or as the TCEQ if location is determined by the data custodian during review.

Attribute:

Attribute_Label: basin_id

Attribute_Definition: Long description.

Attribute_Definition_Source: Longer narrative description of the station location.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 25 m

Attribute_Value_Accuracy_Explanation:

These values have been verified as matching the station latitude and longitude within 25 meters.

Attribute:

Attribute_Label: cnty_id

Attribute_Definition: Texas river basin number.

Attribute_Definition_Source: TCEQ

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation:

Values for this field have been 100% reviewed by the data custodian.

Attribute:

Attribute_Label: cnty_nme
Attribute_Definition: Country name.
Attribute_Definition_Source: TCEQ
Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: N/A
Attribute_Value_Accuracy_Explanation: Optional field, often blank.

Attribute:

Attribute_Label: station_nu
Attribute_Definition: SWQM TRACS legacy station number.
Attribute_Definition_Source: Old tracking number, no longer used.
Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: N/A
Attribute_Value_Accuracy_Explanation:
Only older station records have a value in this field. New stations should leave this field blank.

Attribute:

Attribute_Label: eco_region
Attribute_Definition: Texas county name.
Attribute_Definition_Source: TCEQ
Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%
Attribute_Value_Accuracy_Explanation: These values have been 100% reviewed by the data custodian.

Attribute:

Attribute_Label: on_seg_flg
Attribute_Definition: Location description (extra field).
Attribute_Definition_Source: TCEQ
Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: N/A
Attribute_Value_Accuracy_Explanation: Optional field, rarely used.

Attribute:

Attribute_Label: epa_type3
Attribute_Definition: TCEQ-specific station type.
Attribute_Definition_Source:
A modified subset of EPA stream station type codes. A valid value list/domain applies.
Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%
Attribute_Value_Accuracy_Explanation: Values have been reviewed by the data custodian.

Attribute:

Attribute_Label: on_seg_flg
Attribute_Definition: On/Off TCEQ classified stream segment flag.
Attribute_Definition_Source: TCEQ

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation: These values have been 100% reviewed by the data custodian.

Attribute:

Attribute_Label: seg_id

Attribute_Definition: EPA river reach ID.

Attribute_Definition_Source: EPA, TCEQ

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: N/A

Attribute_Value_Accuracy_Explanation: This field is maintained for archive purposes and not updated.

Attribute:

Attribute_Label: epa_type4

Attribute_Definition: TCEQ-specific station type.

Attribute_Definition_Source:

A modified subset of EPA stream station type codes. A valid value list/domain applies.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation: Values have been reviewed by the data custodian.

Attribute:

Attribute_Label: SHAPE

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute_Value_Accuracy_Information:

Attribute_Value_Accuracy: 100%

Attribute_Value_Accuracy_Explanation: Values have been reviewed by the data custodian.

Overview_Description:

Distribution_Information:

Resource_Description: Downloadable Data

Distribution_Liability: Cite the TCEQ as data owner and publisher

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.231

Metadata_Reference_Information:

Metadata_Date: 20120302

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Elizabeth Fawcett

Contact_Organization:

Texas Commission on Environmental Quality, Office of Compliance and Enforcement, Monitoring Operations Division, Data Management and Quality Assurance Section

Contact_Position: Monitoring Data Specialist

Contact_Address:

Address_Type: mailing address

Address: P.O. Box 13087 (MC-165)

City: Austin

State_or_Province: Texas

Postal_Code: 78711-3087

Country: USA

Contact_Voice_Telephone: (512) 239-3966

Contact_Facsimile_Telephone: (512) 239-1605

Contact_Electronic_Mail_Address: efawcett@tceq.state.tx.us

Hours_of_Service:

7:00 AM to 5:30 PM Monday through Thursday, excluding Texas and Federal holidays.

Contact_Instructions: E-mail is preferred.

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile