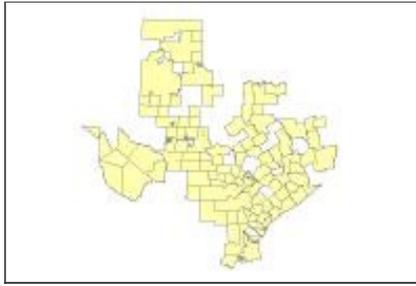# TCEQ Groundwater Conservation Districts

File Geodatabase Feature Class

Tags

Texas Groundwater Conservation Districts, Water Conservation District, Underground Water District, Special Districts, Aquifer Storage and Recovery Conservation District, Water Conservation District, Ground Water Conservation District, River Authority & Ground Water District, Underground Water Conservation & Supply District

Summary

This layer is intended to locate the Texas GCDs, to display the geographic extent of the GCD unit boundaries, and to satisfy the requirements of Texas Water Code, Chapters 35 and 36. Each individual GCD unit is responsible for maintaining its boundary records. TCEQ compiles this dataset to offer a statewide coverage of the existing GCDs for the general public. This dataset serves as a management and planning tool to support the statewide groundwater programs conducted by the state agencies. This dataset should not be used for any private or legal boundary disputes.

Description

Texas groundwater conservation districts (GCD) are units of local government authorized and ratified at the local level to manage and protect groundwater. The GCDs are created through special law by the Texas Legislature or by administrative procedures through the Texas Commission on Environmental Quality (TCEQ).

The GCDs are authorized with powers and duties that enable them to manage groundwater resources, such as conservation, preservation, protection, recharging, and prevention of waste of the groundwater resources within their jurisdictions. The GCDs are governed by an elected or appointed board of directors, having three primary GCD authorities: permitting water wells, developing a comprehensive management plan and adopting the necessary rules to implement the management plan. http://www.tceq.texas.gov/groundwater/districts.html

TCEQ has exclusive jurisdiction for the creation of GCDs, enforment and the dissolution of GCDs under specific circumstances. For more detailed , please refer to Report to the 84th Texas Legislature(TCEQ SFR-053/09, January 2015, pdf)

To find a Groundwater Conservation Districts listed in the TCEQ Water District Database please see TCEQ WDDand TCEQ GCD pages

Credits

Texas Commission on Environmental Quality(TCEQ) Groundwater Planning & Assessment Team. Geodatabase created and maintained Water Availablity Division(WAD) staff, Marcia Workman, GIS System Analyst.

Use limitations

TThe official GCD boundary is its written legal description, not this GIS vector data. This dataset is not intended as a land surveying of any district and does not represent property boundary. TCEQ provided these geographic data "as is". No claim is made to the accuracy or completeness of the data or its suitability for a particular use. Permission and acknowledgment of the TCEQ would be appreciated in products derived from this dataset.

Extent
   West   -105.841578   **East**   -93.507899
   North   36.500380   **South**   26.235330

Scale Range
   Maximum (zoomed in)   1:5,000
   Minimum (zoomed out)   1:150,000,000

ArcGIS Metadata ▶

Topics and Keywords ▶

   * CONTENT TYPE   Downloadable Data
      EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION   No

   Hide Topics and Keywords ▲

Citation ▶

   TITLE   TCEQ Groundwater Conservation Districts
   ALTERNATE TITLES   Texas Groundwater Conservation Districts
   CREATION DATE   2015-12-01   00:00:00
   REVISION DATE   2015-12-04   00:00:00

   PRESENTATION FORMATS   ***** digital map

   Hide Citation ▲

Resource Details ▶

   DATASET LANGUAGES   ***** English (UNITED STATES)
   DATASET CHARACTER SET   utf8 - 8 bit UCS Transfer Format

   SPATIAL REPRESENTATION TYPE   ***** vector

   * PROCESSING ENVIRONMENT   Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.1.4959

   CREDITS
      Texas Commission on Environmental Quality(TCEQ) Groundwater Planning & Assessment Team. Geodatabase created and maintained Water Availablity Division(WAD) staff, Marcia Workman, GIS System Analyst.

   ARCGIS ITEM PROPERTIES
      * NAME   TCEQ_GCD

* LOCATION   file://\\tceq4apmgisdata\giswrk\irgis\Data\precert\GCDs\gdb\TCEQ_GCD.gdb
    * ACCESS PROTOCOL   Local Area Network

Hide Resource Details ▲

Extents ►

EXTENT
  GEOGRAPHIC EXTENT
    BOUNDING RECTANGLE
      EXTENT TYPE   Extent used for searching
      * WEST LONGITUDE   -105.841578
      * EAST LONGITUDE   -93.507899
      * NORTH LATITUDE   36.500380
      * SOUTH LATITUDE   26.235330
      * EXTENT CONTAINS THE RESOURCE   Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
  * WEST LONGITUDE   -105.841578
  * EAST LONGITUDE   -93.507899
  * SOUTH LATITUDE   26.235330
  * NORTH LATITUDE   36.500380
  * EXTENT CONTAINS THE RESOURCE   Yes

Hide Extents ▲

Resource Points of Contact ►

POINT OF CONTACT
  INDIVIDUAL'S NAME   Marcia Workman
  ORGANIZATION'S NAME   Texas Commission on Environmental Quality
  CONTACT'S POSITION   GIS Spatial Data Manager
  CONTACT'S ROLE   point of contact

Hide Resource Points of Contact ▲

Resource Maintenance ►

RESOURCE MAINTENANCE
  UPDATE FREQUENCY   as needed

Hide Resource Maintenance ▲

Resource Constraints ►

CONSTRAINTS
  LIMITATIONS OF USE
      TThe official GCD boundary is its written legal description, not this GIS vector data. This dataset is not intended as a land surveying of any district and does not represent property boundary. TCEQ provided these geographic data "as is". No claim is made to the accuracy or completeness of the data or its suitability for a particular use. Permission and acknowledgment of the TCEQ would be appreciated in products derived from this dataset.

Hide Resource Constraints ▲

Spatial Reference ▶

ARCGIS COORDINATE SYSTEM
* **TYPE** Geographic
* **GEOGRAPHIC COORDINATE REFERENCE** GCS_North_American_1983
* **COORDINATE REFERENCE DETAILS**

GEOGRAPHIC COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 4269
X ORIGIN -400
Y ORIGIN -400
XY SCALE 999999999.99999988
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 8.9831528411952133e-009
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LEFT LONGITUDE -180
LATEST WELL-KNOWN IDENTIFIER 4269
WELL-KNOWN TEXT GEOGCS["GCS_North_American_1983",DATUM
["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM
["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4269]]

REFERENCE SYSTEM IDENTIFIER
* **VALUE** 4269
* **CODESPACE** EPSG
* **VERSION** 8.6.2

Hide Spatial Reference ▲

Spatial Data Properties ▶

VECTOR ▶
* **LEVEL OF TOPOLOGY FOR THIS DATASET** geometry only

GEOMETRIC OBJECTS
FEATURE CLASS NAME TCEQ_GCD
* **OBJECT TYPE** composite
* **OBJECT COUNT** 101

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ▶
FEATURE CLASS NAME TCEQ_GCD
* **FEATURE TYPE** Simple
* **GEOMETRY TYPE** Polygon
* **HAS TOPOLOGY** FALSE
* **FEATURE COUNT** 101
* **SPATIAL INDEX** TRUE
* **LINEAR REFERENCING** FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Distribution ▶

DISTRIBUTOR ▶
AVAILABLE FORMAT
* NAME   File Geodatabase Feature Class

TRANSFER OPTIONS
ONLINE SOURCE
* LOCATION   file://\\PC046787\C$\Users\mworkman\Documents\mwork1\TxGroundwaterDistricts.gdb
* ACCESS PROTOCOL   Local Area Network
* DESCRIPTION   Downloadable Data

Hide Distributor ▲

DISTRIBUTION FORMAT
* NAME   File Geodatabase Feature Class

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT TCEQ_GCD ▶
* TYPE   Feature Class
* ROW COUNT   101

FIELD OBJECTID ▶
* ALIAS   OBJECTID
* DATA TYPE   OID
* WIDTH   4
* PRECISION   0
* SCALE   0
* FIELD DESCRIPTION
   Internal feature number.

* DESCRIPTION SOURCE
   ESRI

* DESCRIPTION OF VALUES
   Sequential unique whole numbers that are automatically generated.

Hide Field OBJECTID ▲

FIELD SHAPE ▶
* ALIAS   Shape
* DATA TYPE   Geometry
* WIDTH   0
* PRECISION   0
* SCALE   0
* FIELD DESCRIPTION
   Feature geometry.

* DESCRIPTION SOURCE
   ESRI

* DESCRIPTION OF VALUES
  Coordinates defining the features.

Hide Field SHAPE ▲

FIELD SITETYPE ▶
* ALIAS SITETYPE
* DATA TYPE String
* WIDTH 4
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
  TCEQ abbreviation code which identifies the water utility districts with groundwater functions. A "GCD" abbreviation means Groundwater Water Conservation District.

DESCRIPTION SOURCE
  TCEQ's Water Utilities Database (WUD).

Hide Field SITETYPE ▲

FIELD GWPACODE ▶
* ALIAS GWPACODE
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
  Initial identifier assigned by Groundwater Planning & Assessment team when the GCd is proposed.

DESCRIPTION SOURCE
  TCEQ Groundwater Planning & Assessment team.

Hide Field GWPACODE ▲

FIELD CSTATUS ▶
* ALIAS CSTATUS
* DATA TYPE String
* WIDTH 1
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
  Current status of the district.

DESCRIPTION SOURCE
  C - Confirmed;   U- Unconfirmed;   P- Proposed;

Hide Field CSTATUS ▲

FIELD ORIGHIST ▶
* ALIAS ORIGHIST
* DATA TYPE String

* **WIDTH** 10
* **PRECISION** 0
* **SCALE** 0

FIELD DESCRIPTION

  TCEQ generic classification based on historical groundwater provisions, laws or state programs which affected the boundary overtime.

DESCRIPTION SOURCE

  Antecedent - District boundary that was created before, or carried out preceding records from a former district;   Subsequent - District boundary that was delineated or subsequent to Groundwater Reservoir Delineation, Critical Areas Studies, Priority Management Areas (PGMA), or state agency resolution;   None - District boundary that has not anteceding district history or groundwater designation during its creation process.

LIST OF VALUES

  VALUE Subsequent
  DESCRIPTION   District boundary that was delineated or subsequent to Groundwater Reservoir Delineation,Critical Areas Studies, Priority Management Areas (PGMA), or state agency resolution.

  Hide Field ORIGHIST ▲

FIELD LEGSSION ▶
* **ALIAS** LEGSSION
* **DATA TYPE** SmallInteger
* **WIDTH** 2
* **PRECISION** 0
* **SCALE** 0

FIELD DESCRIPTION

  Indicates the Texas Legislature session which the district was created.(e.g 80 and 81st refers to Texas 80th and 81st legislature, respective). The value "zero"   means that GCD was not created by legislature method.

  Hide Field LEGSSION ▲

FIELD ELECTION ▶
* **ALIAS** ELECTION
* **DATA TYPE** String
* **WIDTH** 12
* **PRECISION** 0
* **SCALE** 0

FIELD DESCRIPTION

  Law ratification by voter election.

DESCRIPTION SOURCE

  Required - means an election is needed to establish the GCD;   Not Required - means that GCD is established without voter election;

  Hide Field ELECTION ▲

FIELD CREATDT ▶
* **ALIAS** CREATDT
* **DATA TYPE** Date
* **WIDTH** 8
* **PRECISION** 0

* Sᴄᴀʟᴇ   0

Hide Field CREATDT ▲

Fɪᴇʟᴅ CNTYLINE ▶
   * Aʟɪᴀs   CNTYLINE
   * Dᴀᴛᴀ ᴛʏᴘᴇ   String
   * Wɪᴅᴛʜ   13
   * Pʀᴇᴄɪsɪᴏɴ   0
   * Sᴄᴀʟᴇ   0
   Fɪᴇʟᴅ ᴅᴇsᴄʀɪᴘᴛɪᴏɴ
      TCEQ's reference to the statewide GIS dataset used to align the GCD boundary along county lines, and river centerlines;

   Dᴇsᴄʀɪᴘᴛɪᴏɴ sᴏᴜʀᴄᴇ
      TxDOTUrban02 - TxDOT County Urban files DXF Metadata 2002;   TxDOTMdata07-TxDOT County layer obtained from Planning Div Metadata 2007; TCEQGLO1998 - TCEQ county layer referred as GLO line coverage, Metadata Rev.1998; STRATMdata03 - StratMap county boundary, Metadata Rev.2003;

   Hide Field CNTYLINE ▲

Fɪᴇʟᴅ ENABLACT ▶
   * Aʟɪᴀs   ENABLACT
   * Dᴀᴛᴀ ᴛʏᴘᴇ   String
   * Wɪᴅᴛʜ   7
   * Pʀᴇᴄɪsɪᴏɴ   0
   * Sᴄᴀʟᴇ   0
   Fɪᴇʟᴅ ᴅᴇsᴄʀɪᴘᴛɪᴏɴ
      Indicates the Texas legislative act which enabled creation of the district. (eg. "SB" means Senate Bill number; "HB" means House Bill number; The districts not created by legislature act are indicated as "P" meaning petition to a state agency.

   Hide Field ENABLACT ▲

Fɪᴇʟᴅ BNDTYPE ▶
   * Aʟɪᴀs   BNDTYPE
   * Dᴀᴛᴀ ᴛʏᴘᴇ   String
   * Wɪᴅᴛʜ   12
   * Pʀᴇᴄɪsɪᴏɴ   0
   * Sᴄᴀʟᴇ   0
   Dᴇsᴄʀɪᴘᴛɪᴏɴ sᴏᴜʀᴄᴇ
      Coextensive - District boundary is described 100% as county line;   Delimitation District boundary is aligned in a written source format of the land property, subdivision, abstract or survey description used as boundary line;

   Lɪsᴛ ᴏғ ᴠᴀʟᴜᴇs
      Vᴀʟᴜᴇ   DRG
      Dᴇsᴄʀɪᴘᴛɪᴏɴ   Based on 1:24k USGS Topographic Map

      Vᴀʟᴜᴇ   Based on 1:12k digital orthophotos 2004
      Dᴇsᴄʀɪᴘᴛɪᴏɴ   DOQQ 2004

      Vᴀʟᴜᴇ   DOQQ 1995
      Dᴇsᴄʀɪᴘᴛɪᴏɴ   Based on 1:12k DOQQ1995

VALUE   DRAFT
DESCRIPTION   Preliminary drawing only

VALUE   PAPER MAP
DESCRIPTION   Based on non-digital map envied by the entity office

VALUE   OTLS
DESCRIPTION   OTLS Based on Original Texas Land Survey layer

VALUE   OUT SOURCE
DESCRIPTION   Based on third party data source (unverified)

VALUE   TRANSVERSE
DESCRIPTION   Certified COGO Survey Transverse data

Hide Field BNDTYPE ▲

FIELD SHORTNAM ►
* ALIAS   SHORTNAM
* DATA TYPE   String
* WIDTH   60
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Abbreviated name of the district for cartographic purpose only;

Hide Field SHORTNAM ▲

FIELD EST_DATE ►
* ALIAS   EST_DATE
* DATA TYPE   Date
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   Effective date when the district was established by law or by election.

Hide Field EST_DATE ▲

FIELD ESTABNUM ►
* ALIAS   ESTABNUM
* DATA TYPE   SmallInteger
* WIDTH   2
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   A sequence number assigned for cartographic purpose only

Hide Field ESTABNUM ▲

FIELD TXT_4YR ►
* ALIAS   TXT_4YR
* DATA TYPE   String
* WIDTH   4
* PRECISION   0

* SCALE   0
FIELD DESCRIPTION
  Indicates the year when the district was established.

Hide Field TXT_4YR ▲

FIELD BNDCHGDT ►
  * ALIAS   BNDCHGDT
  * DATA TYPE   Date
  * WIDTH   8
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    The effective date when the district modified its territorial jurisdiction by land annexation or exclusion. GCDs are required to update their records at TCEQ supervision files within 60 days.

  DESCRIPTION SOURCE
    Title 30, Texas Administrative Code, Section 293.20(b)(3)

Hide Field BNDCHGDT ▲

FIELD SHPEFORM ►
  * ALIAS   SHPEFORM
  * DATA TYPE   String
  * WIDTH   10
  * PRECISION   0
  * SCALE   0
  DESCRIPTION SOURCE
    Fragmented - District boundary splits into many non-bounded regions;   Enclave - District boundary that is totally surrounded and limited by another groundwater district description (not a gap or overlap);   Shared - District boundary that is "known" to have shared region or overlap regions;   Perforated - District boundary that totally surrounds an area but excludes such territory (city limits, municipal utilities, land track) from its jurisdiction; Compacted - District boundary that is single bounded region without any written exclusion of territories or jurisdictions.

  FIELD DESCRIPTION
    A generic classification based on the GCD territorial morphology to describe its current spatial form.

Hide Field SHPEFORM ▲

FIELD BNDYCOMM ►
  * ALIAS   BNDYCOMM
  * DATA TYPE   String
  * WIDTH   50
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    A short comment related to the last boundary change reported by the district office to TCEQ.

Hide Field BNDYCOMM ▲

FIELD DIST_NUM ▶
* ALIAS   DIST_NUM
* DATA TYPE   String
* WIDTH   7
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Unique identification number assigned by TCEQ

DESCRIPTION SOURCE
CEQ Water Supply Division/Utility Certification & District Creation

Hide Field DIST_NUM ▲

FIELD BNDCHECK ▶
* ALIAS   BNDCHECK
* DATA TYPE   String
* WIDTH   10
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
TCEQ reference to positional accuracy and scale used to adjust and update the feature relative its true location in the ground;

DESCRIPTION SOURCE
DRG-Based on 1:24k USGS Topographic Map; DOQQ 2004 - Based on 1:12k digital orthophotos 2004; DOQQ 1995 Based on 1:12k DOQQ1995;   DRAFT- Preliminary drawing only;   PAPER MAP - Based on non-digital map envied by the entity office; OTLS Based on Original Texas Land Survey layer; OUT SOURCE - Based on third party data source (unverified); TRANSVERSE - Certified COGO Survey Transverse data.

Hide Field BNDCHECK ▲

FIELD CRREFNUM ▶
* ALIAS   CRREFNUM
* DATA TYPE   String
* WIDTH   11
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
TCEQ Central Registry unique id assigned to district, as a regulated entity. This reference number allows users to find and query data at TCEQ central registry database;

DESCRIPTION SOURCE
TCEQ Regulated Entity nunber.

Hide Field CRREFNUM ▲

FIELD ACREAGE ▶
* ALIAS   ACREAGE
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION

Approximate size of the district in Acres

DESCRIPTION SOURCE
   US acres units.

Hide Field ACREAGE ▲

FIELD SHAPE_Length ►
   * ALIAS   Shape_Length
   * DATA TYPE   Double
   * WIDTH   8
   * PRECISION   0
   * SCALE   0
   * FIELD DESCRIPTION
      Length of feature in internal units.

   * DESCRIPTION SOURCE
      ESRI

   * DESCRIPTION OF VALUES
      Positive real numbers that are automatically generated.

Hide Field SHAPE_Length ▲

FIELD SHAPE_Area ►
   * ALIAS   Shape_Area
   * DATA TYPE   Double
   * WIDTH   8
   * PRECISION   0
   * SCALE   0
   * FIELD DESCRIPTION
      Area of feature in internal units squared.

   * DESCRIPTION SOURCE
      ESRI

   * DESCRIPTION OF VALUES
      Positive real numbers that are automatically generated.

Hide Field SHAPE_Area ▲

FIELD CNTIESNUM ►
   * ALIAS   CNTIESNUM
   * DATA TYPE   SmallInteger
   * WIDTH   2
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      Number of counties overlapped by the district

Hide Field CNTIESNUM ▲

FIELD WSDQAQC ►
 * ALIAS   WSDQAQC
 * DATA TYPE   String
 * WIDTH   3
 * PRECISION   0
 * SCALE   0
 FIELD DESCRIPTION
   Initial of TCEQ staff who updated the boundary information.

 Hide Field WSDQAQC ▲

FIELD DISTNAME ►
 * ALIAS   DISTNAME
 * DATA TYPE   String
 * WIDTH   70
 * PRECISION   0
 * SCALE   0
 FIELD DESCRIPTION
   The official name of the District, as it was last registered at TCEQ.

 DESCRIPTION SOURCE
   TCEQ Water Supply Division/Utility Certification & District

 Hide Field DISTNAME ▲

FIELD LEGALDES ►
 * ALIAS   LEGALDES
 * DATA TYPE   String
 * WIDTH   80
 * PRECISION   0
 * SCALE   0

 Hide Field LEGALDES ▲

FIELD Yr ►
 * ALIAS   Yr
 * DATA TYPE   SmallInteger
 * WIDTH   2
 * PRECISION   0
 * SCALE   0

 Hide Field Yr ▲

FIELD Decade ►
 * ALIAS   Decade
 * DATA TYPE   SmallInteger
 * WIDTH   2
 * PRECISION   0
 * SCALE   0

 Hide Field Decade ▲

FIELD Decade_txt ►

* ALIAS   Decade_txt
* DATA TYPE   String
* WIDTH   6
* PRECISION   0
* SCALE   0

Hide Field Decade_txt ▲

FIELD Count_by1 ▶
* ALIAS   Count_by1
* DATA TYPE   SmallInteger
* WIDTH   2
* PRECISION   0
* SCALE   0

Hide Field Count_by1 ▲

Hide Details for object TCEQ_GCD ▲

Hide Fields ▲

Metadata Details ▶

* METADATA LANGUAGE   English (UNITED STATES)
* METADATA CHARACTER SET   utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA   * dataset
SCOPE NAME   * dataset

* LAST UPDATE   2015-12-04

ARCGIS METADATA PROPERTIES
   METADATA FORMAT   ArcGIS 1.0
   METADATA STYLE   FGDC CSDGM Metadata
   STANDARD OR PROFILE USED TO EDIT METADATA   FGDC

   CREATED IN ARCGIS FOR THE ITEM   2015-12-04   15:58:16
   LAST MODIFIED IN ARCGIS FOR THE ITEM   2015-12-04   16:26:08

   AUTOMATIC UPDATES
      HAVE BEEN PERFORMED   Yes
      LAST UPDATE   2015-12-04   16:26:08

Hide Metadata Details ▲

Metadata Contacts ▶

METADATA CONTACT
   INDIVIDUAL'S NAME   Marcia Workman
   ORGANIZATION'S NAME   Texas Commission on Environmental Quality
   CONTACT'S POSITION   GIS System Analyst
   CONTACT'S ROLE   originator

Hide Metadata Contacts ▲

Metadata Maintenance ▶

MAINTENANCE
UPDATE FREQUENCY   monthly

Hide Metadata Maintenance ▲

Thumbnail and Enclosures ▶

THUMBNAIL
THUMBNAIL TYPE   JPG

Hide Thumbnail and Enclosures ▲

FGDC Metadata (read-only) ▼