

Appendix C

Mapped Lateral Service Areas

Contents

Lateral Service Areas, Cochiti Division

Lateral Service Areas, Albuquerque Division

Lateral Service Areas, Belen Division

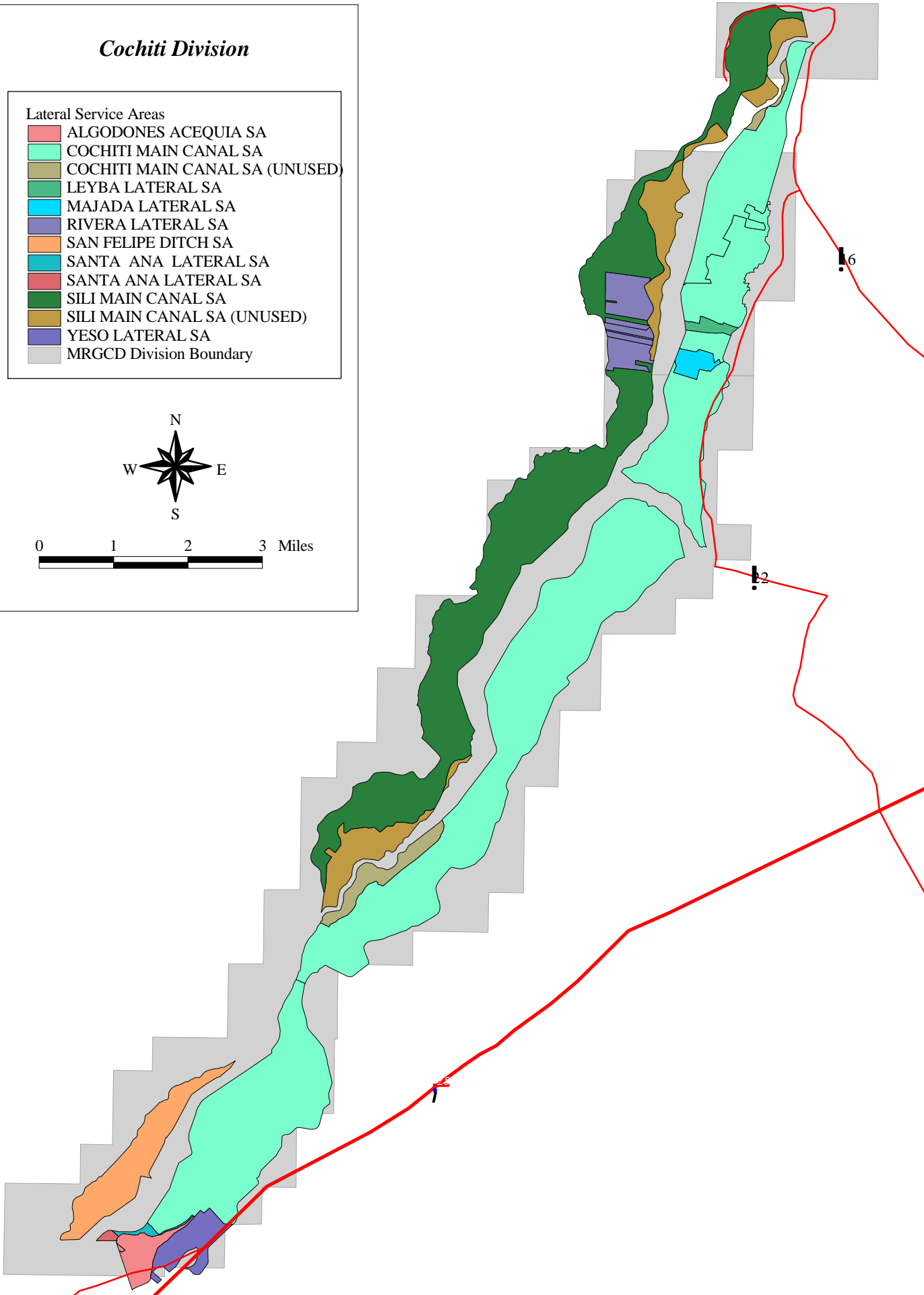
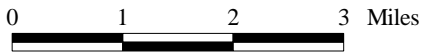
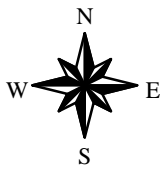
Lateral Service Areas, Socorro Division

Metadata for Lateral Service Areas (MRGLATSA) of the Middle Rio Grande Area

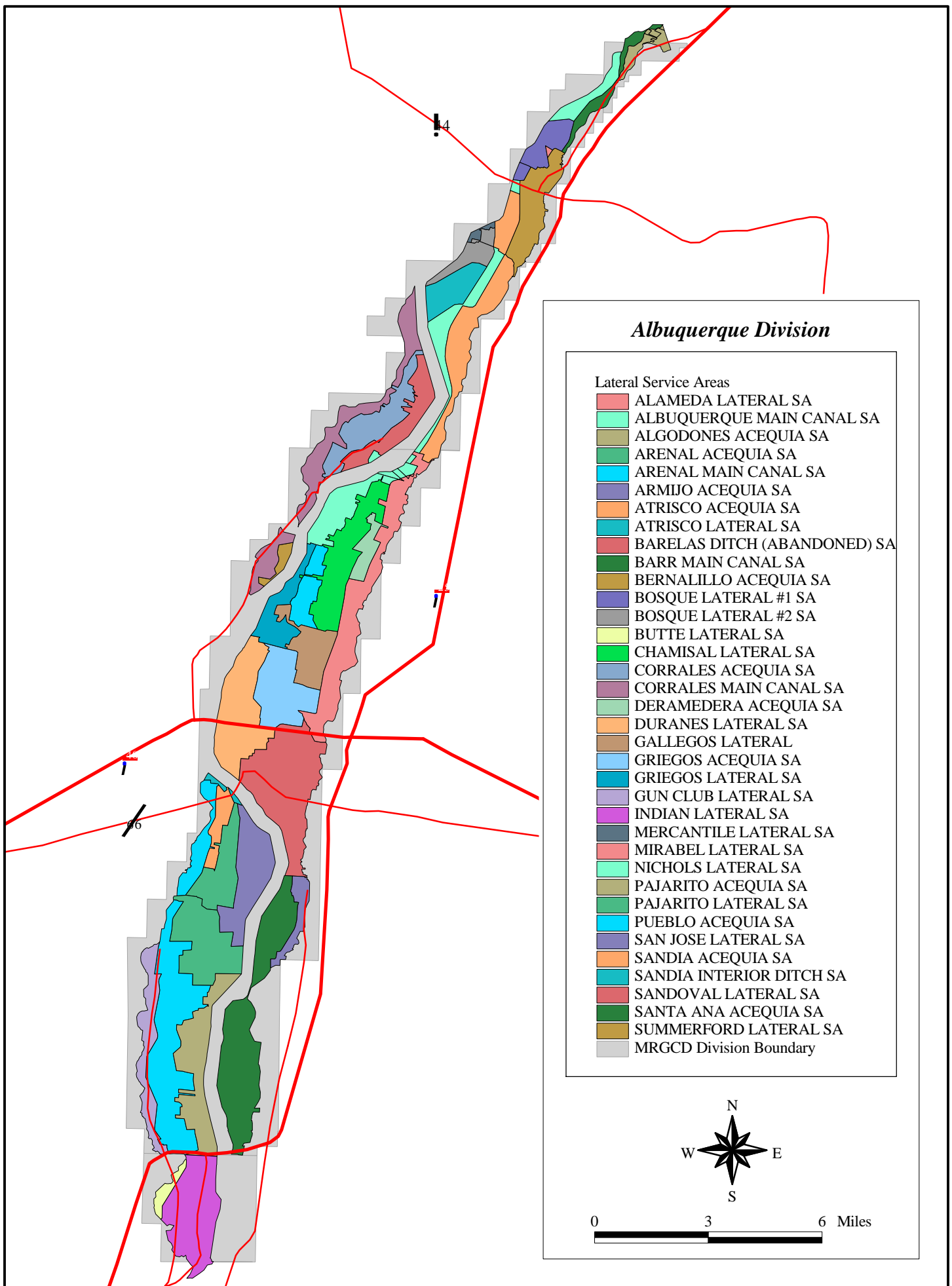
Cochiti Division

Lateral Service Areas

- ALGODONES ACEQUIA SA
- COCHITI MAIN CANAL SA
- COCHITI MAIN CANAL SA (UNUSED)
- LEYBA LATERAL SA
- MAJADA LATERAL SA
- RIVERA LATERAL SA
- SAN FELIPE DITCH SA
- SANTA ANA LATERAL SA
- SANTA ANA LATERAL SA
- SILI MAIN CANAL SA
- SILI MAIN CANAL SA (UNUSED)
- YESO LATERAL SA
- MRGCD Division Boundary



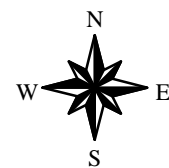
Lateral Service Areas, Cochiti Division



Albuquerque Division

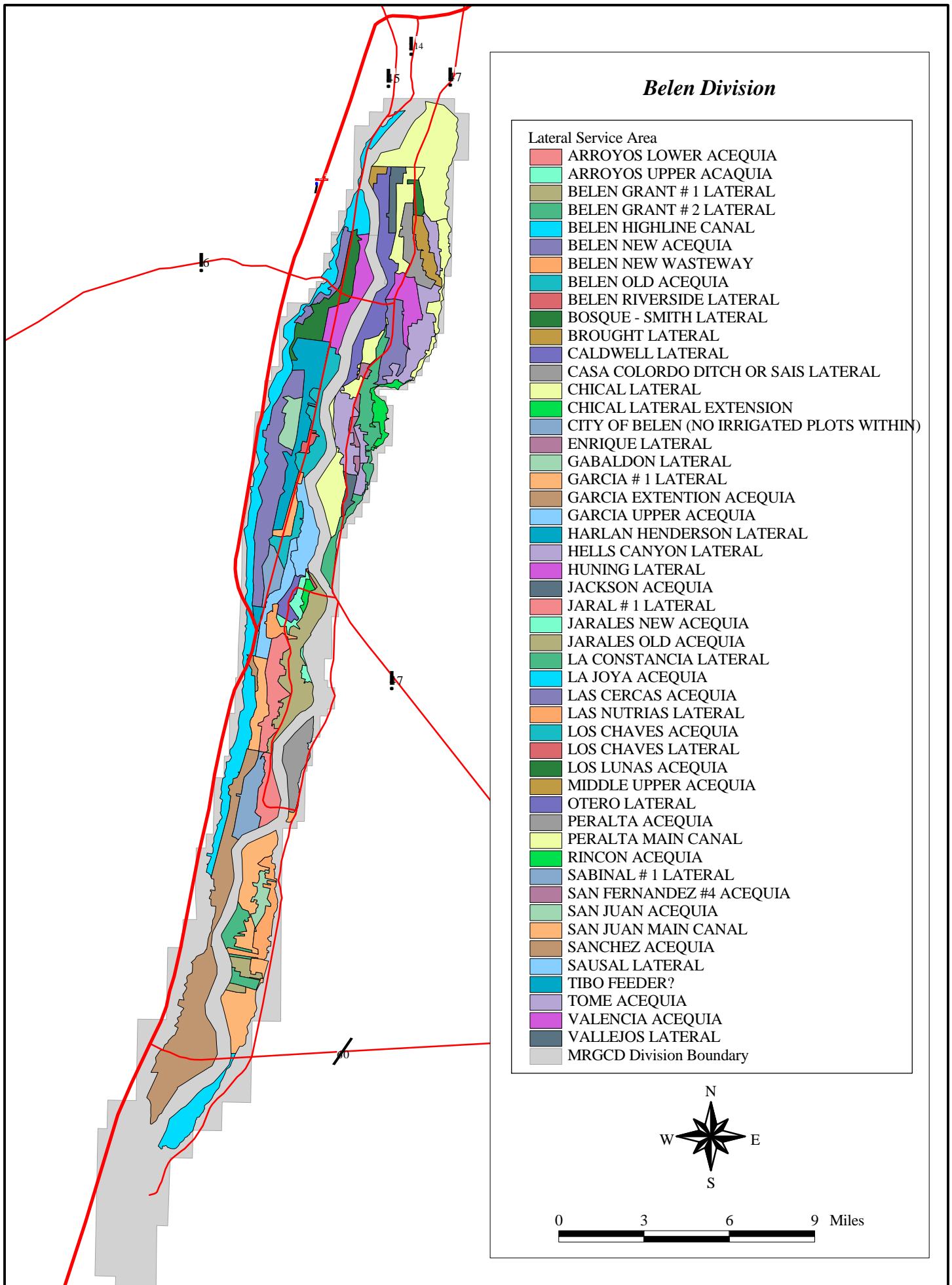
Lateral Service Areas

- ALAMEDA LATERAL SA
- ALBUQUERQUE MAIN CANAL SA
- ALGODONES ACEQUIA SA
- ARENAL ACEQUIA SA
- ARENAL MAIN CANAL SA
- ARMIJO ACEQUIA SA
- ATRISCO ACEQUIA SA
- ATRISCO LATERAL SA
- BARELAS DITCH (ABANDONED) SA
- BARR MAIN CANAL SA
- BERNALILLO ACEQUIA SA
- BOSQUE LATERAL #1 SA
- BOSQUE LATERAL #2 SA
- BUTTE LATERAL SA
- CHAMISAL LATERAL SA
- CORRALES ACEQUIA SA
- CORRALES MAIN CANAL SA
- DERAMEDERA ACEQUIA SA
- DURANES LATERAL SA
- GALLEGOS LATERAL
- GRIEGOS ACEQUIA SA
- GRIEGOS LATERAL SA
- GUN CLUB LATERAL SA
- INDIAN LATERAL SA
- MERCANTILE LATERAL SA
- MIRABEL LATERAL SA
- NICHOLS LATERAL SA
- PAJARITO ACEQUIA SA
- PAJARITO LATERAL SA
- PUEBLO ACEQUIA SA
- SAN JOSE LATERAL SA
- SANDIA ACEQUIA SA
- SANDIA INTERIOR DITCH SA
- SANDOVAL LATERAL SA
- SANTA ANA ACEQUIA SA
- SUMMERFORD LATERAL SA
- MRGCD Division Boundary

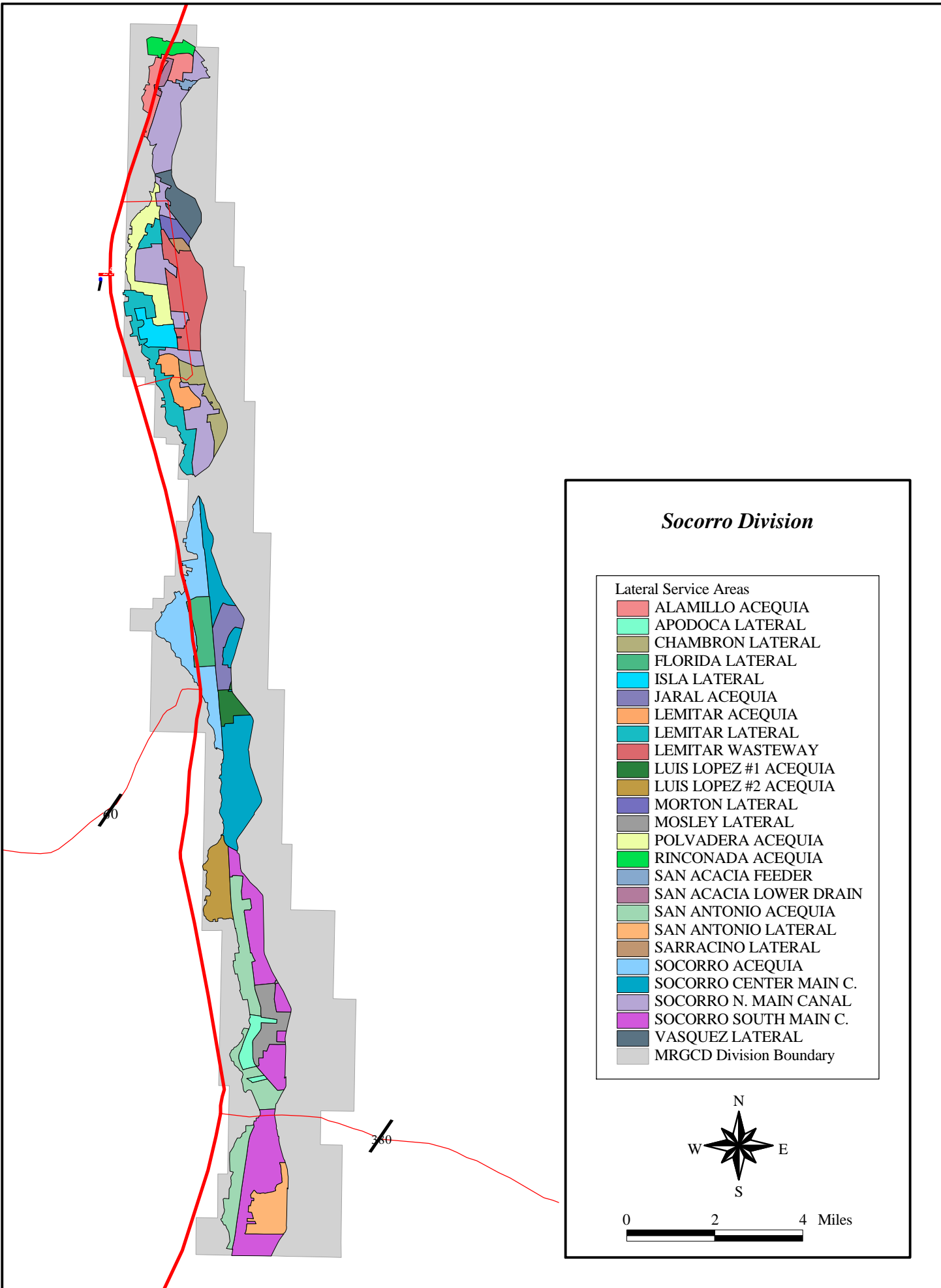


0 3 6 Miles

Lateral Service Areas, Albuquerque Division



Lateral Service Areas, Belen Division



Lateral Service Areas, Socorro Division

Lateral Service Areas (MRGLATSA) of the Middle Rio Grande Area, New Mexico

Metadata also available as

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification <dt_Information:

Citation:

Citation_Information:

Originator:

Middle Rio Grande Conservancy District (MRGCD), GIS Department & intern working for S. S. Papadolupos & Assoc., Albuquerque, NM

Publication_Date: 200108

Title:

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Series_Name: None

Issue_Identification: None

Publication_Information:

Publication_Place: Albuquerque, NM, USA

Publisher: Middle Rio Grande Conservancy District, GIS Department

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Description:

Abstract:

This dataset represents the potential service areas of the major laterals and ditches of the Middle Rio Grande Conservancy District (MRGCD). The dataset contains individual polygons, created for each lateral service area, and is connected to descriptive attributes. These service areas are very PRELIMINARY in nature. The data used to construct these areas was provided by the annually compiled ditchrider logs of MRGCD irrigated lands. The ditchrider data that the service areas are based on is highly incomplete and has been found to be inaccurate in places. Care should be taken in the interpretation of these data. Updating this

dataset through information gathering from the relevant sources (such as MRGCD personnel) as well as field cross-checking, is highly recommended before using the data set as a definitive source. The spatial data with accompanying attributes are a beginning point towards delineating the actual service areas of the major laterals and ditches in MRGCD.

The dataset is divided into 4 subsets (by division). COCLATSA (Cochiti Division Lateral Service Area), ALBLATSA (Albuquerque Division Lateral Service Area), BELLATSA (Belen Division Lateral Service Area), and SOCLATSA (Socorro Division Lateral Service Area). The fifth dataset represents the combination of all four subsets as one coverage (MRGLATSA). Procedures as to the actual service area delineation process are as follows:

DEFINITIONS: Largest Polygon (LP): Polygons that do not fall within the boundaries of larger polygons. LP's are frequently made up of smaller polygons (IPs).

Internal Polygons (IP): The polygons that make up the larger polygons (LPs). The smallest division of polygons, each representing an individual lateral service area (SA).

Goal for creating LPs: To include all land "possibly" serviced by a irrigation canal in the MRGCD. The ambiguous "possibly" meaning a conservative (over) estimate of all land that could be reasonably irrigated today or in the near future. This goal is achieved using "LP Rules," or "Pueblo Rules" if on Pueblo land.

LP Rules: The extent of LPs are determined by: 1. Ditchrider logged parcels are always included within the boundaries of LPs. Only under obvious ditchrider error is rule 1 compromised. 2. The highline canals furthest from the river channel. 3. All MRGCD "benefited land" is included. Only under obvious non-agricultural development on benefited land is rule 3 compromised (e.g. Downtown Albuquerque, Interstates). 4. Apparent recently irrigated land as concluded through remote imagery. 5. Rules 1-4 are used together such that the largest "potential" polygon area is created.

Pueblo Rules: Polygon creation within Pueblo lands is determined by: 1. Delineating the area between the waterway facilities furthest from the river channel, and the drain closest to the river channel. 2. If there is no drain present adjacent to the river channel, polygon boundaries are created that extend down to the active river channel. A) Based on USGS DOQQs, the Pueblo polygons are classified as unused when apparent. 3. When Pueblo land is questionable as to whether or not it is servicable by irrigation, a conservative approach is taken, meaning the land is included.

IP General Goal: To delineate polygons that contain all of the land irrigable by specific laterals. This goal is achieved using "IP Rules."

IP Geometric Goal: To have all internal polygons share borders, or buttress each other. This criteria introduces a great deal of subjectivity to the process. When little or no ditchrider information is available for an area, arbitrary lines (shared polygon sides) must be assigned. This goal is achieved using "IP Rules."

IP Rules: 1. Ditchrider logs specifying the lateral which is irrigating a parcel are the paramount indicator of polygon land inclusion. Only under obvious ditchrider error is rule 1 compromised. 2. When ditchrider records are insufficient or unavailable, any combination of the following guidelines may be used: A) IP delineation by continuing with the irrigation pattern of the parcels possessing ditchrider records. B) IP delineation by following major land features, which could also serve as barriers to water conveyance, such as major roads or the spatial arrangement of parcels. C) IP delineation by taking half of the distance between parcels of known irrigation, and constructing a line (shared polygon boarder) that follows these midpoints. D) IP delineation assumes irrigation from highest canal to the next canal in succession towards the river channel.

Important Note: There are large amounts of land included in the service area polygons that are not being irrigated, or have unknown irrigation status. Examples are as follows: Pueblo land, various facilities, urbanized areas, roads, parks,...etc., "benefited land" parcels showing no signs of recent use.

Purpose:

This dataset was created to provide a generalized spatial coverage of the Middle Rio Grande Conservancy District's (MRGCD) potential irrigation lateral service areas.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 1936

Ending_Date: 2001

Currentness_Reference: Publication Date

Status:

Progress: In work

Maintenance_and_Update_Frequency: Unknown

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -106.935

East_Bounding_Coordinate: -106.307

North_Bounding_Coordinate: 35.625

South_Bounding_Coordinate: 33.870

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Service Areas

Theme_Keyword: Irrigation Zones

Theme_Keyword: Ditchrider Areas

Theme_Keyword: Potential Irrigated Area

Theme_Keyword: MRGCD

Theme_Keyword: Irrigation Area

Place:

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: Middle Rio Grande

Place_Keyword: Middle Rio Grande Conservancy District

Place_Keyword: MRGCD

Place_Keyword: Sandoval County

Place_Keyword: Bernalillo County

Place_Keyword: Valencia County

Place_Keyword: Socorro County

Place_Keyword: New Mexico

Access_Constraints: None

Use_Constraints:

The MRGCD provides this data set as a community service. Efforts have been made to provide high quality information. The District is not responsible for any error or liability associated with the use of this information. Notification of errors would be appreciated. The District requests that source documentation be properly cited and that secondary distribution of this information be discouraged. This data will be continually updated; the District prefers that the most recent data set be distributed.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Middle Rio Grande Conservancy District, GIS
Department

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: Mailing and Physical Address

Address: MRGCD

Address: 1931 Second Street SW

City: Albuquerque

State_or_Province: NM

Postal_Code: 87102-4515

Country: USA

Contact_Voice_Telephone: 505-247-0234

Contact_Facsimile_Telephone: 505-243-7308

Contact_Electronic_Mail_Address: <[URL:mailto:dstrech@mrgcd.dst.nm.us](mailto:dstrech@mrgcd.dst.nm.us)>

Hours_of_Service: 8 A.M. to 4:30 P.M. Monday through Friday, Mountain Time
Zone

Native_Data_Set_Environment: ESRI GIS Software.

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: MRGCD QAQC procedures.
Logical_Consistency_Report: MRGCD QAQC procedures.
Completeness_Report: MRGCD QAQC procedures.
Lineage:
Source_Information:
Source_Citation:
Citation_Information:
Originator: Middle Rio Grande Conservancy District, GIS Department
Publication_Date: 2000
Title: MRGCD 2000 Ditchrider Logs
Type_of_Source_Media: Paper/Mylar and database downloads.
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 200003
Ending_Date: 200010
Source_Currentness_Reference: Publication date
Source_Citation_Abbreviation: None
Source_Contribution: Log Information
Process_Step:
Process_Description: Please see Identification Description.
Process_Date: 2000

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: State Plane Coordinate System 1983
State_Plane_Coordinate_System:
SPCS_Zone_Identifier: 4751
Lambert_Conformal_Conic:
Standard_Parallel: 0
Longitude_of_Central_Meridian: 0
Latitude_of_Projection_Origin: 0
False_Easting: 9999
False_Northing: 9999
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: Coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 9999
Ordinate_Resolution: 9999
Planar_Distance_Units: Survey feet
Geodetic_Model:
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Ellipsoid_Name: GRS1980
Semi-major_Axis: 6378206.4

Denominator_of_Flattening_Ratio: 294.98

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label:

MRGLATSA.PAT (As an example. All 5 coverages maintain the same attributes.)

Entity_Type_Definition: Polygon Attribute Table

Entity_Type_Definition_Source: ARC/INFO

Attribute:

Attribute_Label: AREA

Attribute_Definition: Area of polygon in square feet

Attribute_Definition_Source: Computed by ARC/INFO

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: n/a

Enumerated_Domain_Value_Definition: integer

Enumerated_Domain_Value_Definition_Source: n/a

Attribute:

Attribute_Label: PERIMETER

Attribute_Definition: Length of perimeter of polygon in feet.

Attribute_Definition_Source: Computed by ARC/INFO

Attribute_Domain_Values:

Enumerated_Domain:

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Enumerated_Domain_Value_Definition: integer

Enumerated_Domain_Value_Definition_Source: n/a

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Attribute_Label: MRGLATSA#

Attribute_Definition: Internal feature number

Attribute_Definition_Source: Computed by ARC/INFO

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Enumerated_Domain:

Enumerated_Domain_Value: n/a

Enumerated_Domain_Value_Definition: integer

Enumerated_Domain_Value_Definition_Source: n/a

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Attribute_Label: MRGLATSA-ID

Attribute_Definition: User assigned feature number

Attribute_Definition_Source: User defined

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: n/a

Enumerated_Domain_Value_Definition: integer

Enumerated_Domain_Value_Definition_Source: n/a

Attribute:

Attribute_Label: DIVNAM

Attribute_Definition:

Name of the one of four divisions of the Middle Rio Grande Conservancy District.

Attribute_Definition_Source: Middle Rio Grande Conservancy District

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: "Cochiti," "Albuquerque," "Belen," or "Socorro"

Enumerated_Domain_Value_Definition: string

Enumerated_Domain_Value_Definition_Source: n/a

Attribute:

Attribute_Label: SA_NAME

Attribute_Definition:

The name of the lateral service area polygon, based on the primary lateral contained in that polygon. The name used for the specific lateral is the name provided by the ditchrider logs.

Attribute_Definition_Source: Creator defined

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Unrepresentable domain

Enumerated_Domain_Value_Definition: string

Enumerated_Domain_Value_Definition_Source: creator defined

Attribute:

Attribute_Label: SA_ACRES

Attribute_Definition: Total acres of Lateral service area polygon.

Attribute_Definition_Source: Calculated by creator

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: n/a

Enumerated_Domain_Value_Definition: number

Enumerated_Domain_Value_Definition_Source: n/a

Attribute:

Attribute_Label: PUEBLO_YN

Attribute_Definition:

Specification of land ownership, being either Pueblo or non-Pueblo owned.

Attribute_Definition_Source: MRGCD mapping department

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: "Y" or "N"

Enumerated_Domain_Value_Definition: Y=Pueblo land, N=non-Pueblo land

Enumerated_Domain_Value_Definition_Source: n/a

Attribute:

Attribute_Label: SUB_LATS

Attribute_Definition:

The names of the laterals that are contained within a lateral service area polygon, and are not the primary lateral for which the SA_NAME was given to. These sublaterals should be fed by the primary lateral.

Attribute_Definition_Source: Creator defined

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Unrepresentable domain

Enumerated_Domain_Value_Definition: string

Enumerated_Domain_Value_Definition_Source: Creator defined

Attribute:

Attribute_Label: AKA_NAME

Attribute_Definition:

A name used for the primary lateral irrigating a service area polygon other than the SA_NAME.

Attribute_Definition_Source: Creator defined

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: unrepresentable domain

Enumerated_Domain_Value_Definition: string

Enumerated_Domain_Value_Definition_Source: Creator defined

Attribute:

Attribute_Label: AKA_NAME2

Attribute_Definition:

A name used for the primary lateral irrigating a service area polygon other than SA_NAME or the AKA_NAME.

Attribute_Definition_Source: Creator defined

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Enumerated_Domain_Value: Unrepresentable domain

Enumerated_Domain_Value_Definition: String

Enumerated_Domain_Value_Definition_Source: Creator defined

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Middle Rio Grande Conservancy District, GIS
Department

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: Physical Address

Address: Middle Rio Grande Conservancy District

Address: 1931 Second Street SW

City: Albuquerque

State_or_Province: NM

Postal_Code: 87102-4515

Country: USA
Contact_Address:
Address_Type: Mailing Address
Address: Middle Rio Grande Conservancy District
Address: P.O. Box 581
City: Albuquerque
State_or_Province: NM
Postal_Code: 87103-0581
Country: USA
Contact_Voice_Telephone: 505-247-0234
Contact_Facsimile_Telephone: 505-243-7308
Contact_Electronic_Mail_Address: <[URL:mailto:dstrech@mrgcd.dst.nm.us](mailto:dstrech@mrgcd.dst.nm.us)>
Hours_of_Service: 8 A.M. to 4:30 P.M. Monday through Friday, Mountain Time
Zone
Distribution_Liability:
The Middle Rio Grande Conservancy District assumes no liability.
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: ESRI GIS Formats
Format_Version_Number: 8.1+
Format_Specification: NT/DOS
File-Decompression_Technique: PKZIP or NONE
Transfer_Size: 1
Digital_Transfer_Option:
Offline_Option:
Offline_Media: 3.5" Floppy or CDROM
Recording_Format: n/a
Fees: Varies

Metadata_Reference_Information:

Metadata_Date: 200108
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Middle Rio Grande Conservancy District, GIS
Department
Contact_Voice_Telephone: 505-247-0234
Contact_Address:
Address_Type: Mailing Address
Address: Middle Rio Grande Conservancy District
Address: P.O. Box 581
City: Albuquerque
State_or_Province: NM
Postal_Code: 87103-0581
Country: USA

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial
Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

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