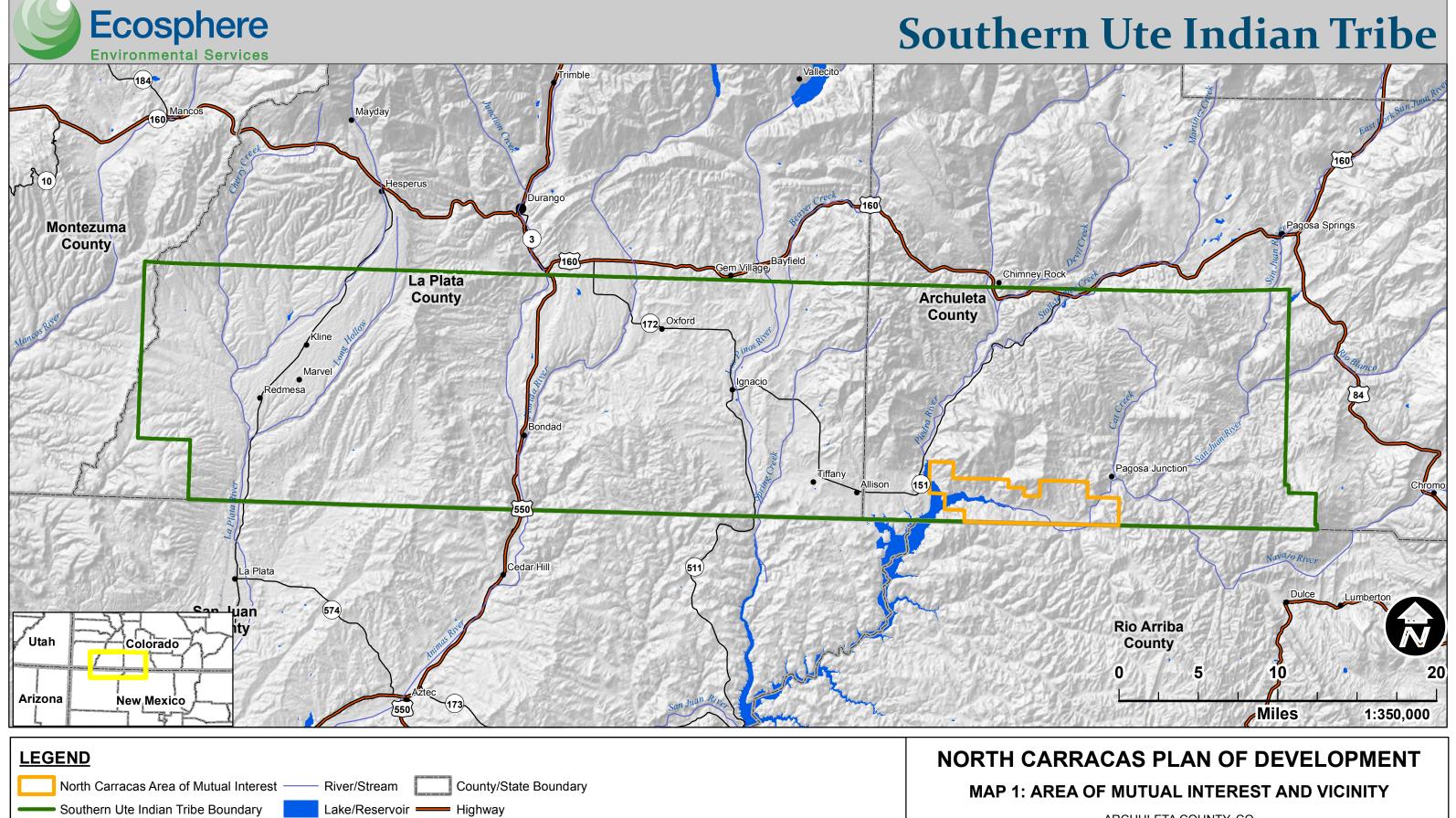
### Appendix A - Maps

- Map 1: Area of Mutual Interest and Vicinity
- **Map 2:** Existing Disturbance
- Map 3: Proposed Action
- Map 4: Surface Ownership
- **Map 5:** Surface Geology
- **Map 6:** Prime Farmland and Highly Erodible Soils
- Map 7: Water Resources
- **Map 8:** Vegetation Resources
- Map 9: Big Game Winter Range Calving and Fawning Area
- **Map 10:** Deer Migration to Winter Range
- Map 11: Deer Movement in Winter Range
- Map 12: Archaeological Site Density
- **Map 13:** American Indian Populations per Census Tract La Plata and Archuleta Counties
- Map 14: Poverty Level, La Plata and Archuleta Counties
- **Map 15:** Land Management Units
- **Map 16:** Range Land Grazing Unites
- **Map 17:** Transportation Corridors



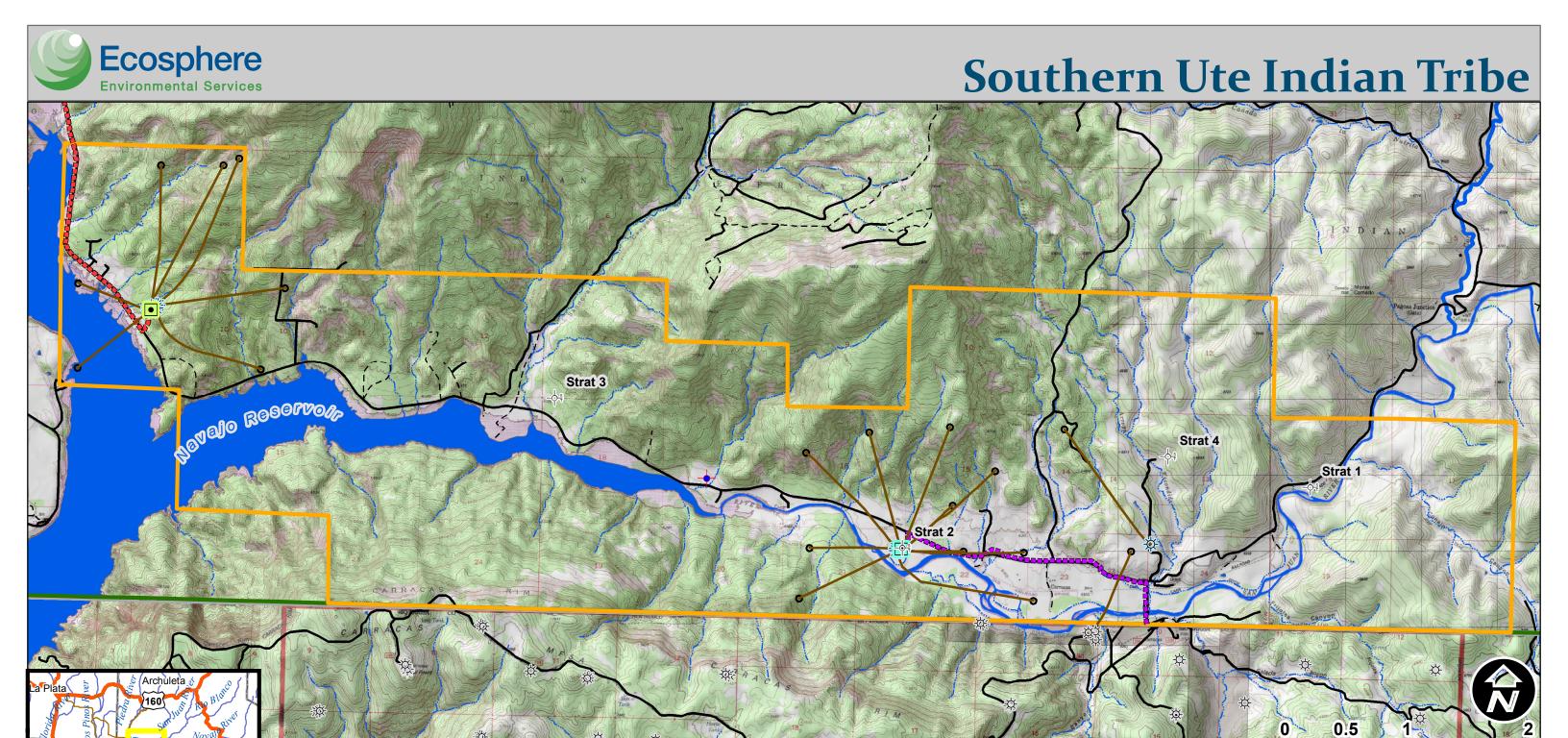
# Cities Major Road

Coordinate System: NAD 1983 UTM Zone 13N

ARCHULETA COUNTY, CO

TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST

CARRACAS AND PAGOSA JUNCTION, CO QUADRANGLES





# NORTH CARRACAS PLAN OF DEVELOPMENT

1:48,000

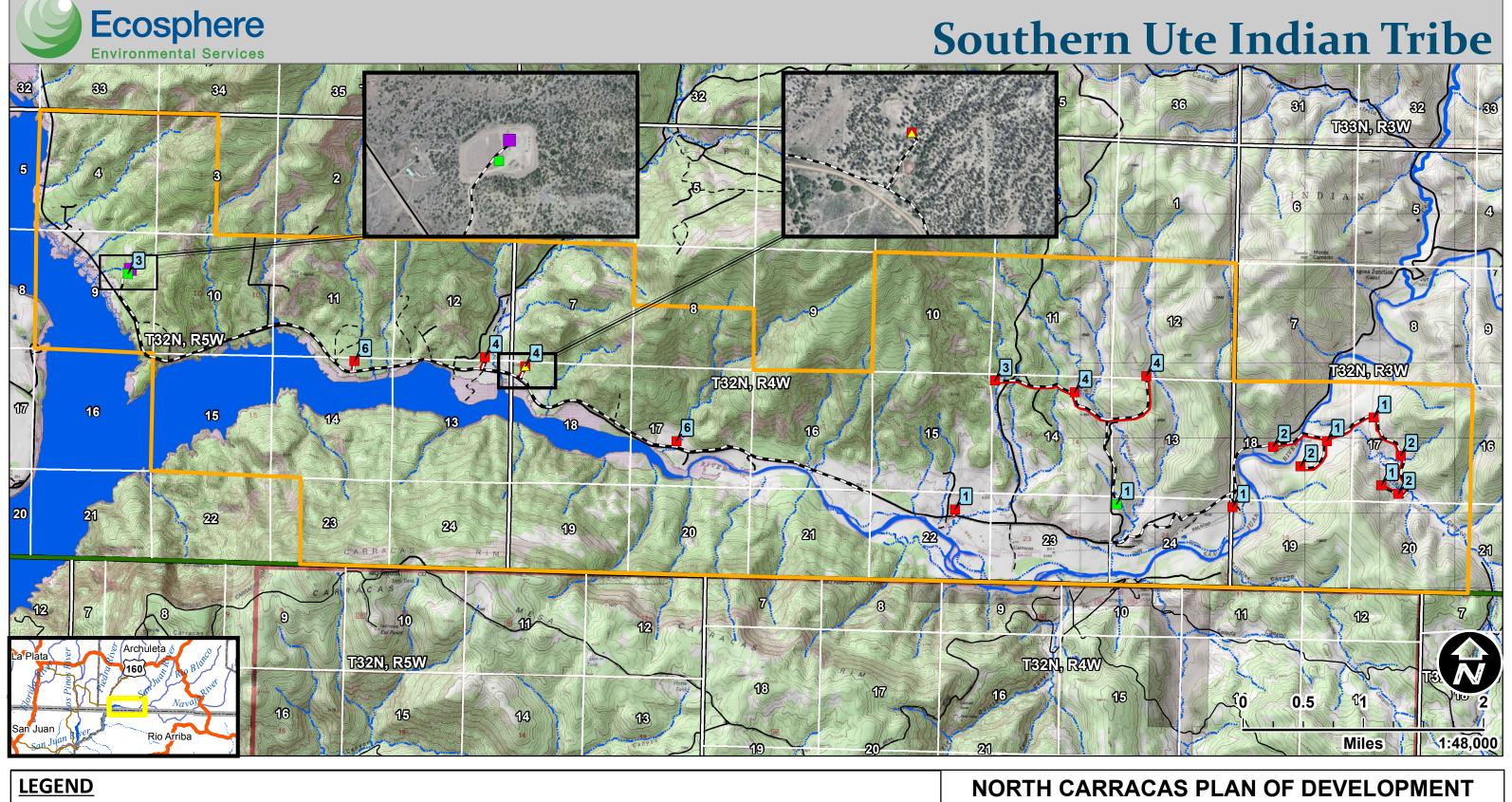
Miles

## **MAP 2: EXISTING DISTURBANCE**

ARCHULETA COUNTY, CO
TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST
CARRACAS AND PAGOSA JUNCTION,
CO QUADRANGLES
DATE: 5/8/2013

Coordinate System: NAD 1983 UTM Zone 13N

Rio Arriba



# ■ Existing Well Pad ■ Proposed New Well Pad ■ Proposed Salt Water Disposal Well ■ Proposed Compressor Station ■ Number of Planned Wells Per Pad ■ Proposed Pipeline ■ Proposed Access Roads ■ Existing Roads ■ Southern Ute Reservation Boundary ■ North Carracas Area of Mutual Interest

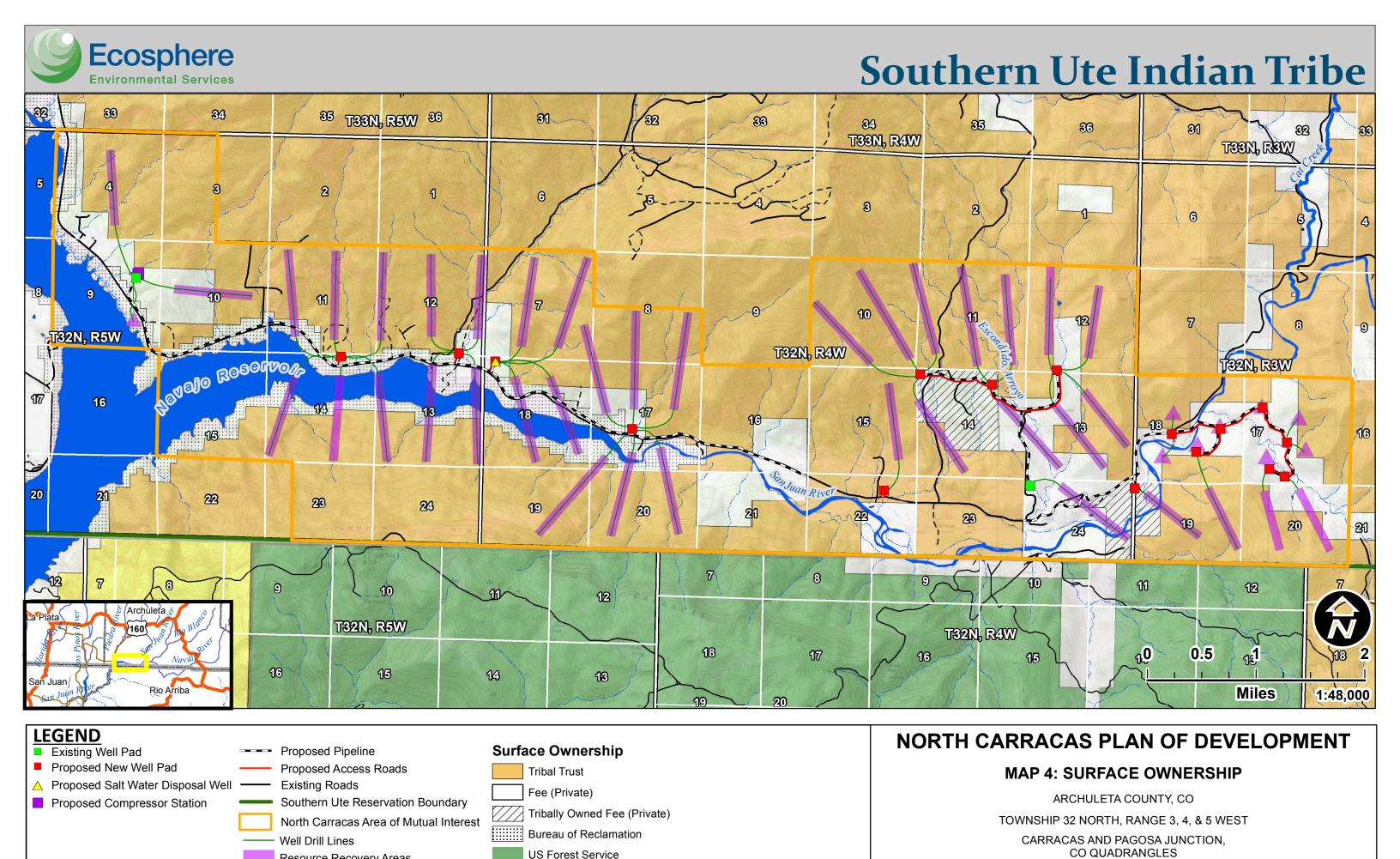
Coordinate System: NAD 1983 UTM Zone 13N

**MAP 3: PROPOSED ACTION** 

ARCHULETA COUNTY, CO

TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST

CARRACAS AND PAGOSA JUNCTION, CO QUADRANGLES

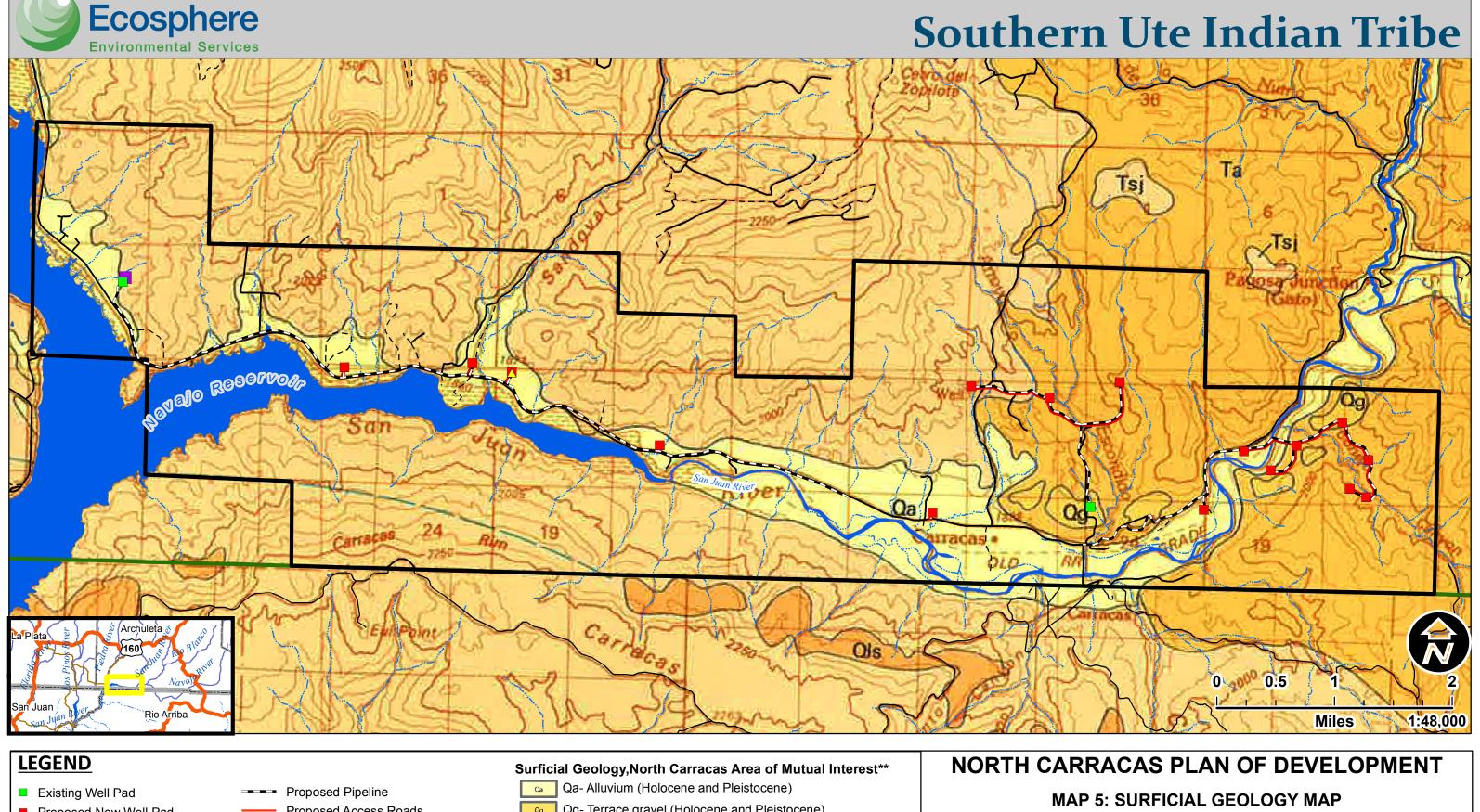


DATE: 5/7/2013

**US Forest Service** 

**Bureau of Land Management** 

Resource Recovery Areas

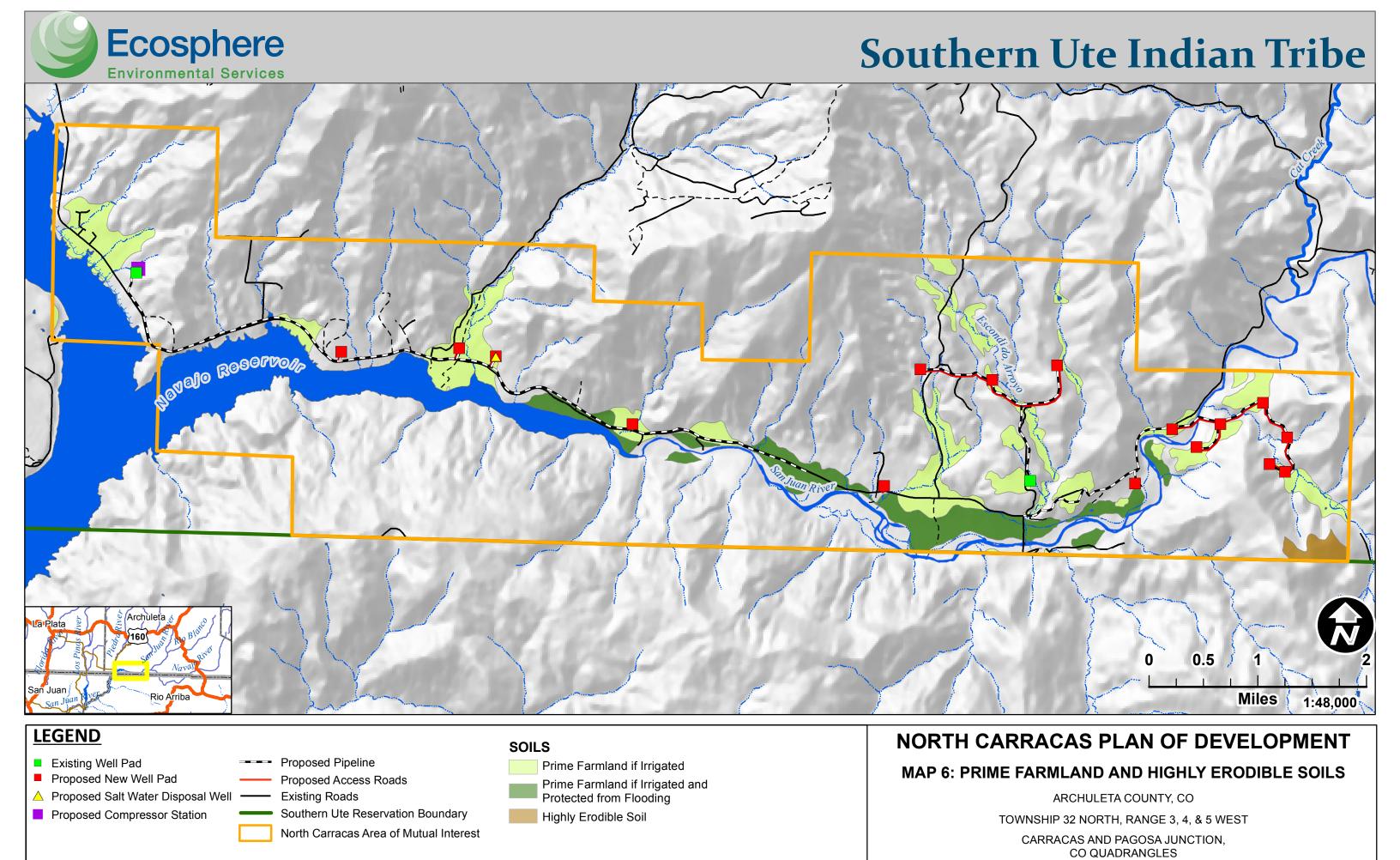


# ■ Existing Well Pad ■ Proposed New Well Pad ■ Proposed Access Roads ■ Proposed Salt Water Disposal Well ■ Proposed Compressor Station ■ Proposed Compressor Station ■ Proposed Compressor Station ■ Proposed Mew Well Pad ■ Proposed Access Roads ■ Existing Roads ■ Southern Ute Reservation Boundary ■ North Carracas Area of Mutual Interest ■ Ta- Animas Formation, Upper Part (Paleocene) ■ Tsj- San Jose Formation (Eocene) ■ \*\*Georeferenced Image from the Ground Water Atlas Of Colorado, 2003

ARCHULETA COUNTY, CO

TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST

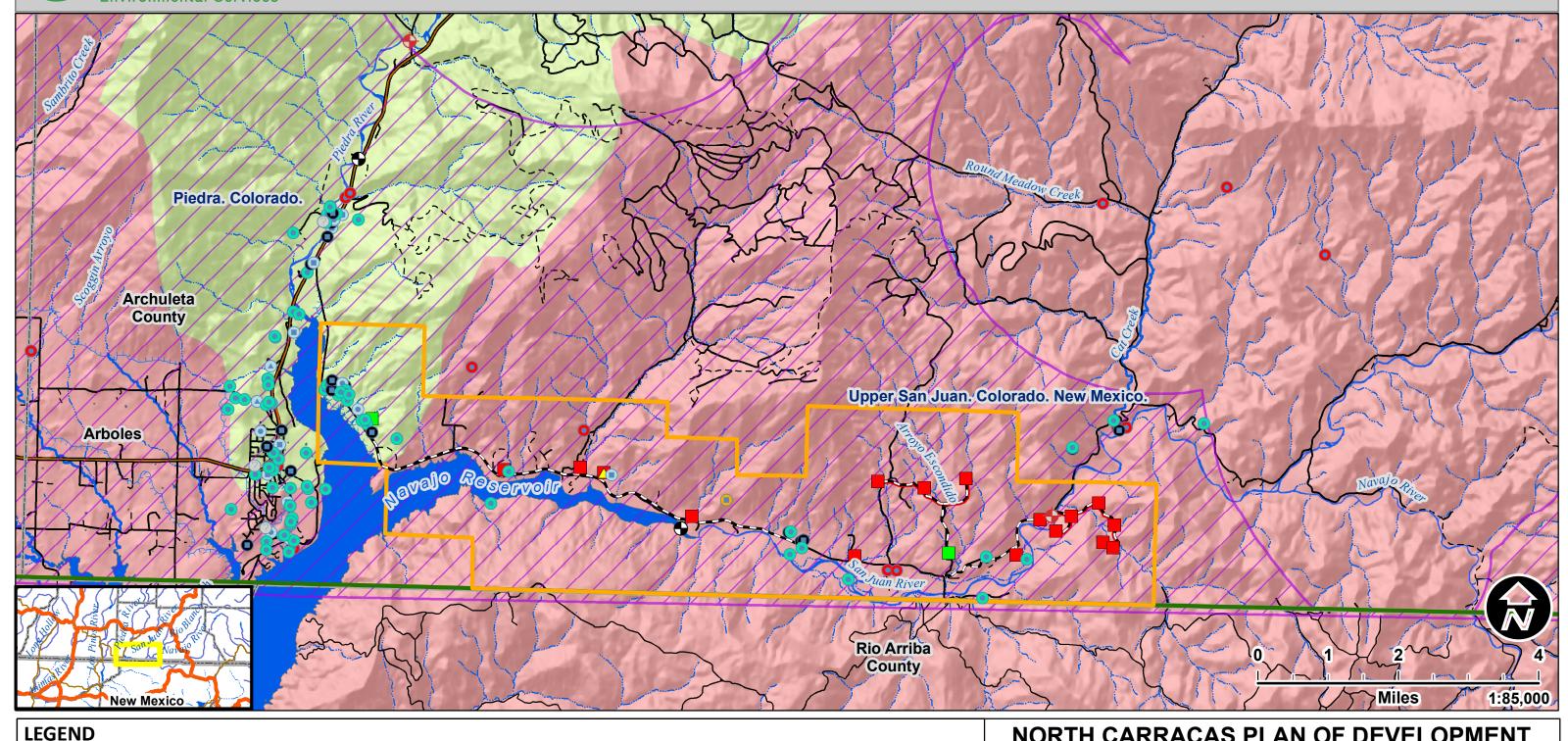
CARRACAS AND PAGOSA JUNCTION, CO QUADRANGLES

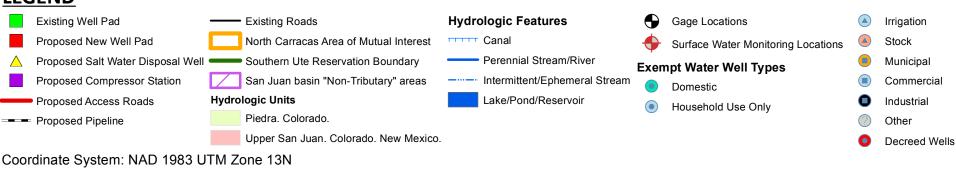


DATE: 5/7/2013



# **Southern Ute Indian Tribe**





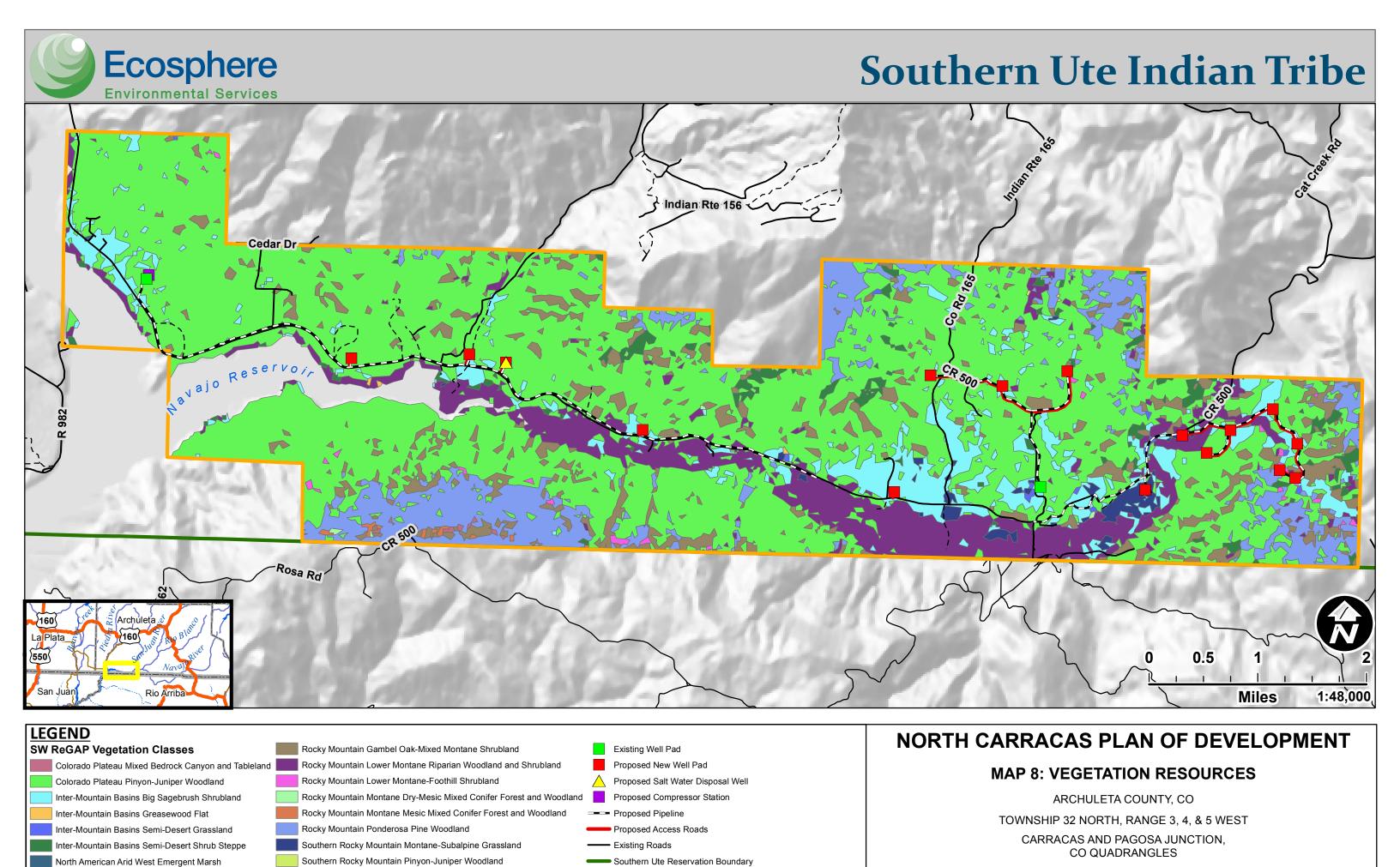
# NORTH CARRACAS PLAN OF DEVELOPMENT

## **MAP 7: WATER RESOURCES**

ARCHULETA COUNTY, CO

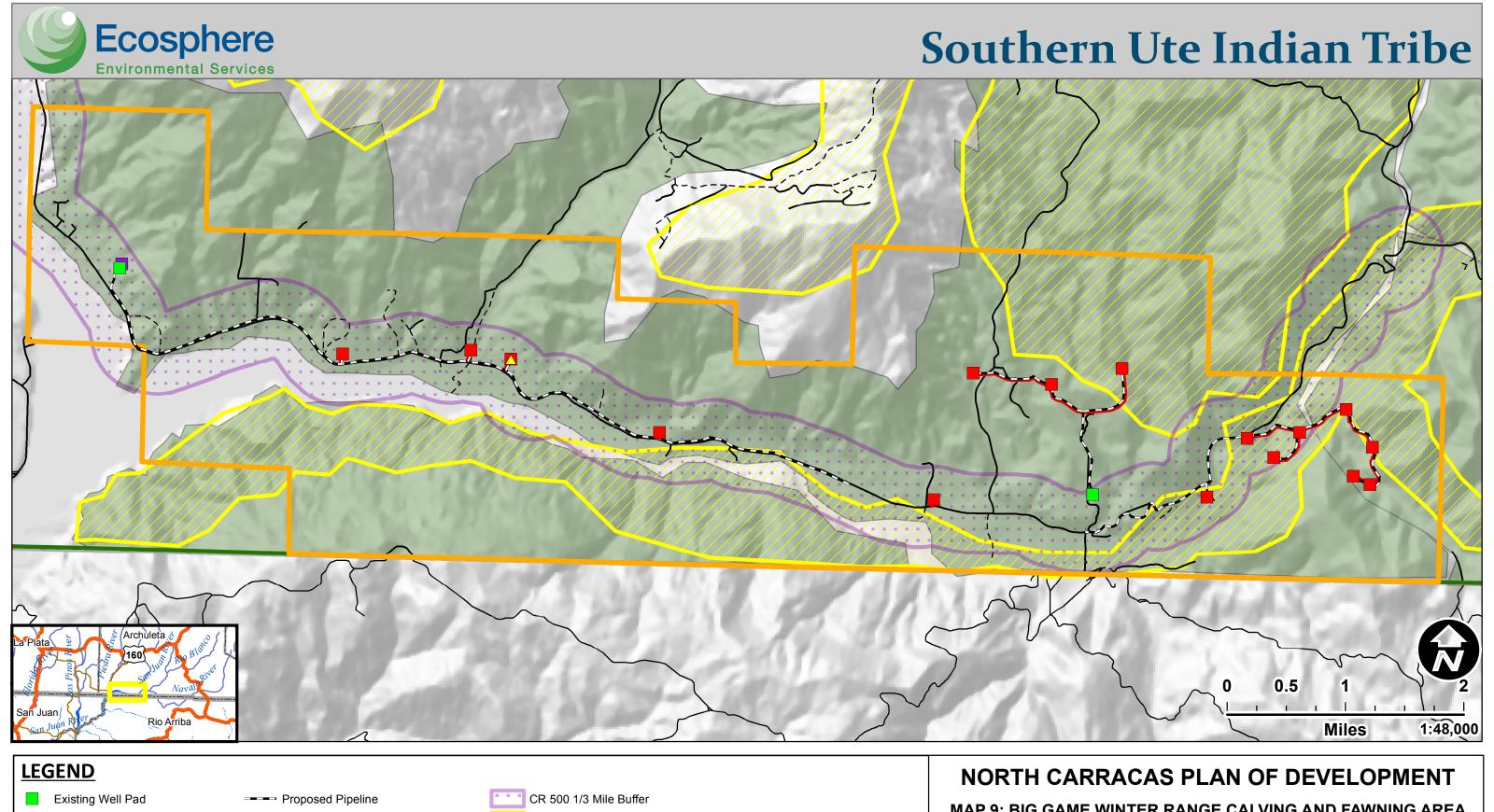
TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST

CARRACAS AND PAGOSA JUNCTION, CO QUADRANGLES



North Carracas Area Of Mutual Interest

Coordinate System: NAD 1983 UTM Zone 13N

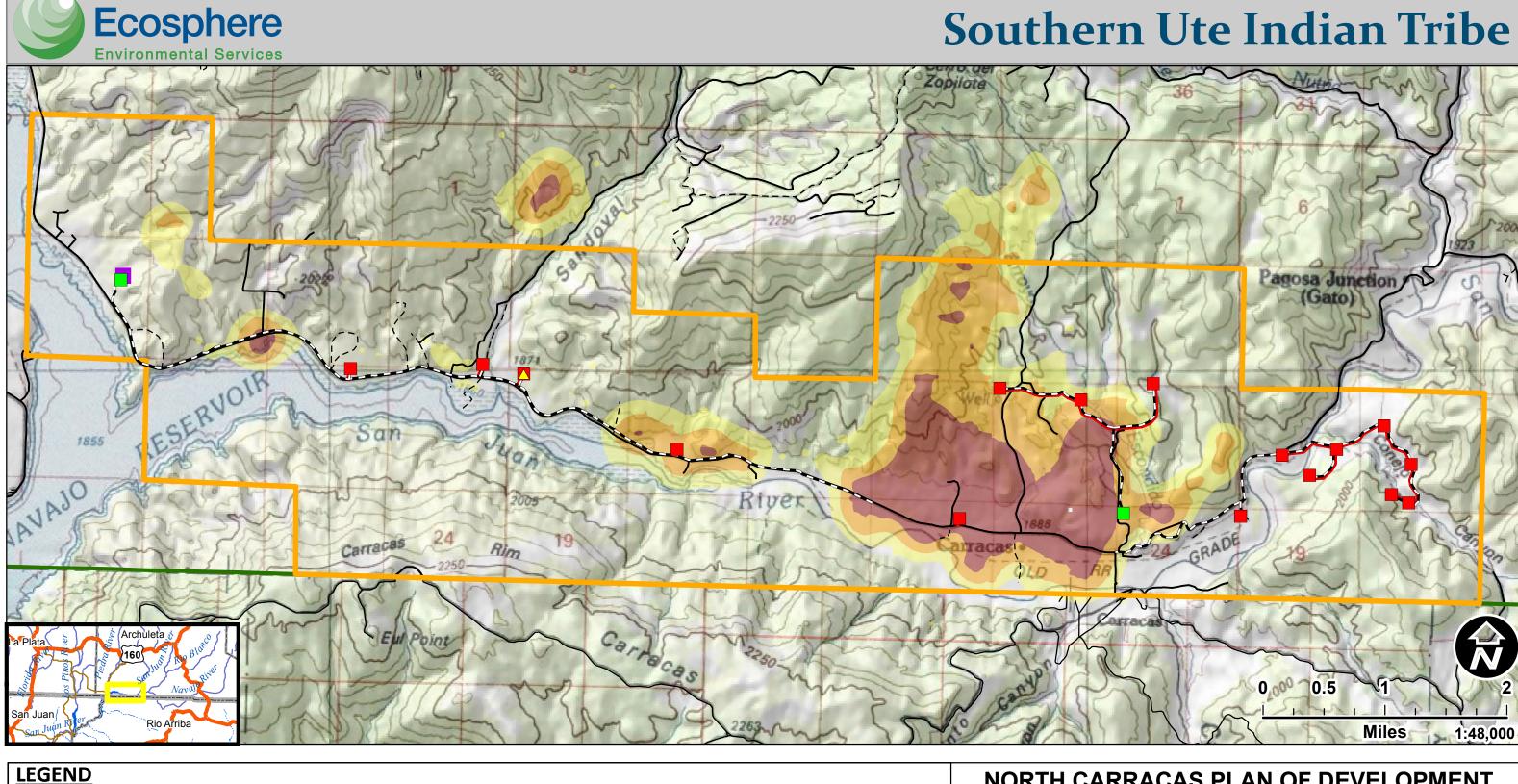


### Proposed New Well Pad Proposed Access Roads Calving/ Fawning Areas Proposed Salt Water Disposal Well —— Existing Roads Big Game Winter Range **Proposed Compressor Station** Southern Ute Reservation Boundary North Carracas Area of Mutual Interest Coordinate System: NAD 1983 UTM Zone 13N

MAP 9: BIG GAME WINTER RANGE CALVING AND FAWNING AREA

ARCHULETA COUNTY, CO

TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST CARRACAS AND PAGOSA JUNCTION, CO QUADRANGLES



#### **Mule Deer Winter Range** Proposed Pipeline Existing Well Pad Proposed New Well Pad Proposed Access Roads Core Use △ Proposed Salt Water Disposal Well **Existing Roads** Primary Use Proposed Compressor Station Southern Ute Reservation Boundary Peripheral Use North Carracas Area of Mutual Interest

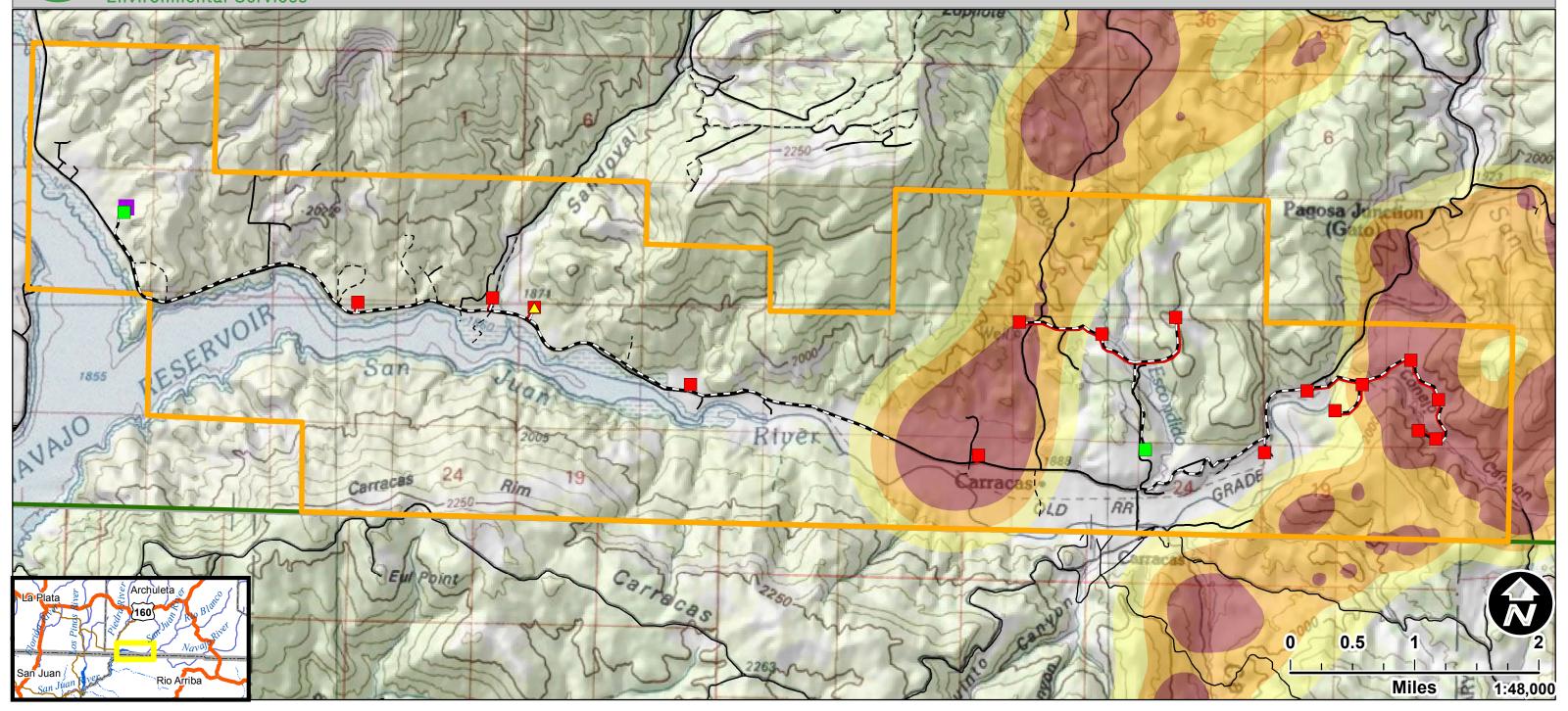
# NORTH CARRACAS PLAN OF DEVELOPMENT

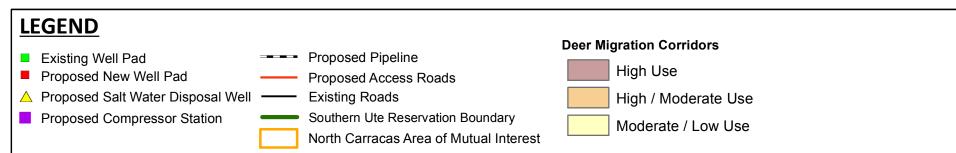
MAP 10: DEER MOVEMENT IN WINTER RANGE (LIMITED, SMALL SAMPLE SIZE)

> ARCHULETA COUNTY, CO TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST CARRACAS AND PAGOSA JUNCTION, CO QUADRANGLES DATE: 5/7/2013

# Ecosphere Environmental Services

# **Southern Ute Indian Tribe**



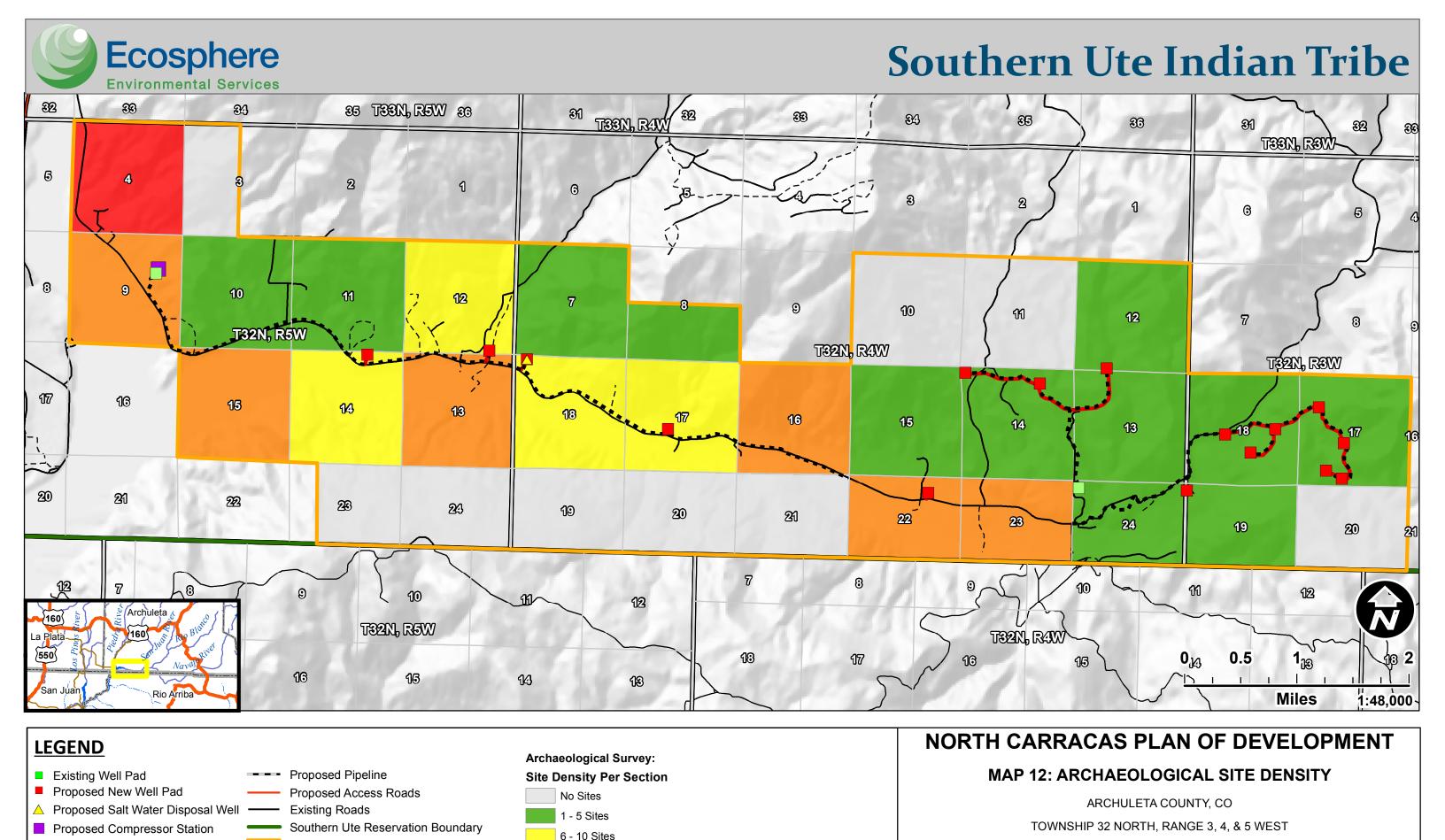


# NORTH CARRACAS PLAN OF DEVELOPMENT

MAP 11: DEER MIGRATION TO WINTER RANGE

ARCHULETA COUNTY, CO
TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST
CARRACAS AND PAGOSA JUNCTION,
CO QUADRANGLES

DATE: 5/7/2013



CARRACAS AND PAGOSA JUNCTION,

CO QUADRANGLES

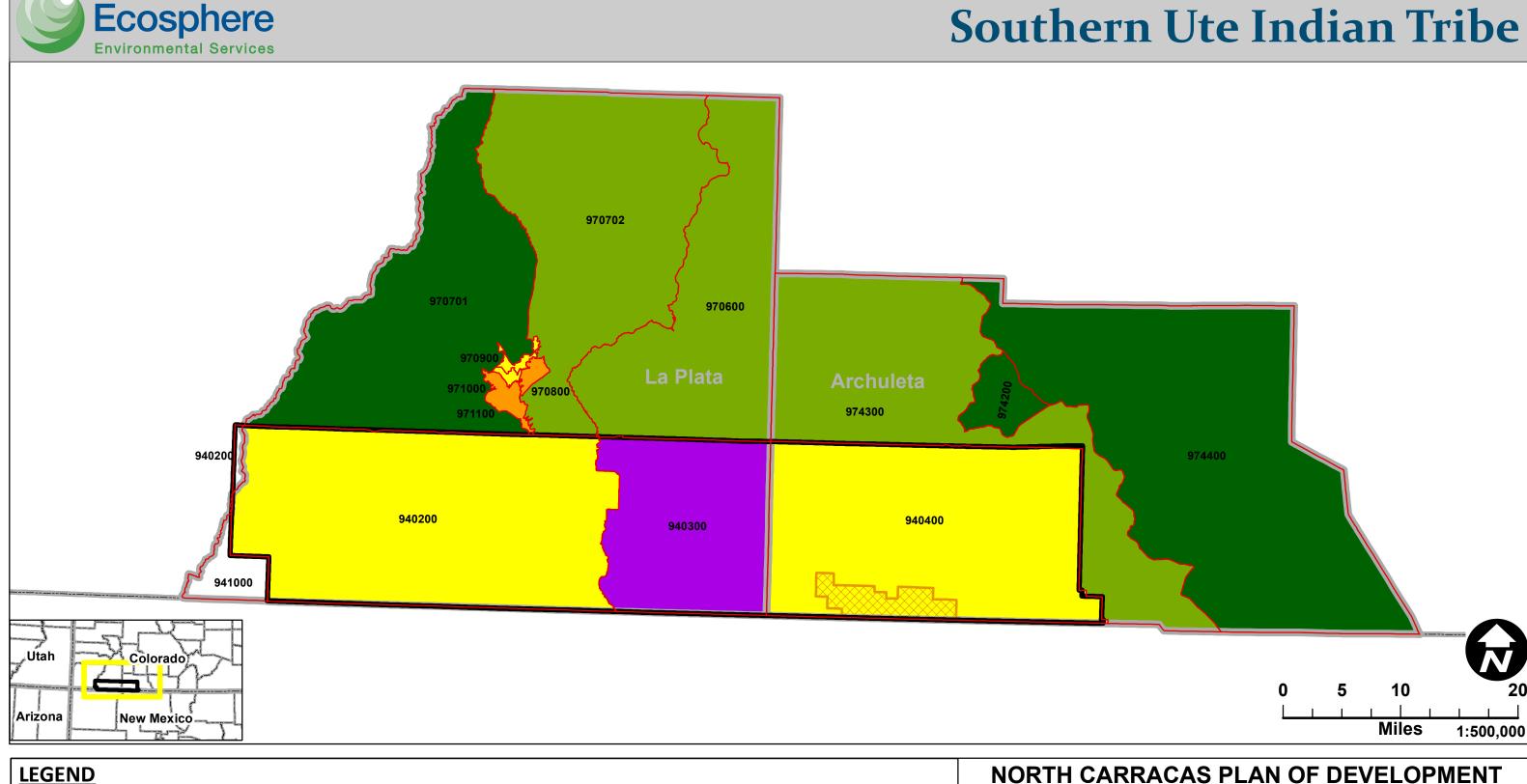
DATE: 5/7/2013

North Carracas Area of Mutual Interest

Coordinate System: NAD 1983 UTM Zone 13N

11 - 15 Sites

16 Sites



#### PERCENTAGE OF POPULATION AMERICAN INDIAN <1% Southern Ute Reservation Boundary 1% - 2% North Carracas Area of Mutual Interest 2.1% - 4% Census Tract 4.1% - 6% **County Boundary** > 6% Coordinate System: NAD 1983 UTM Zone 13N

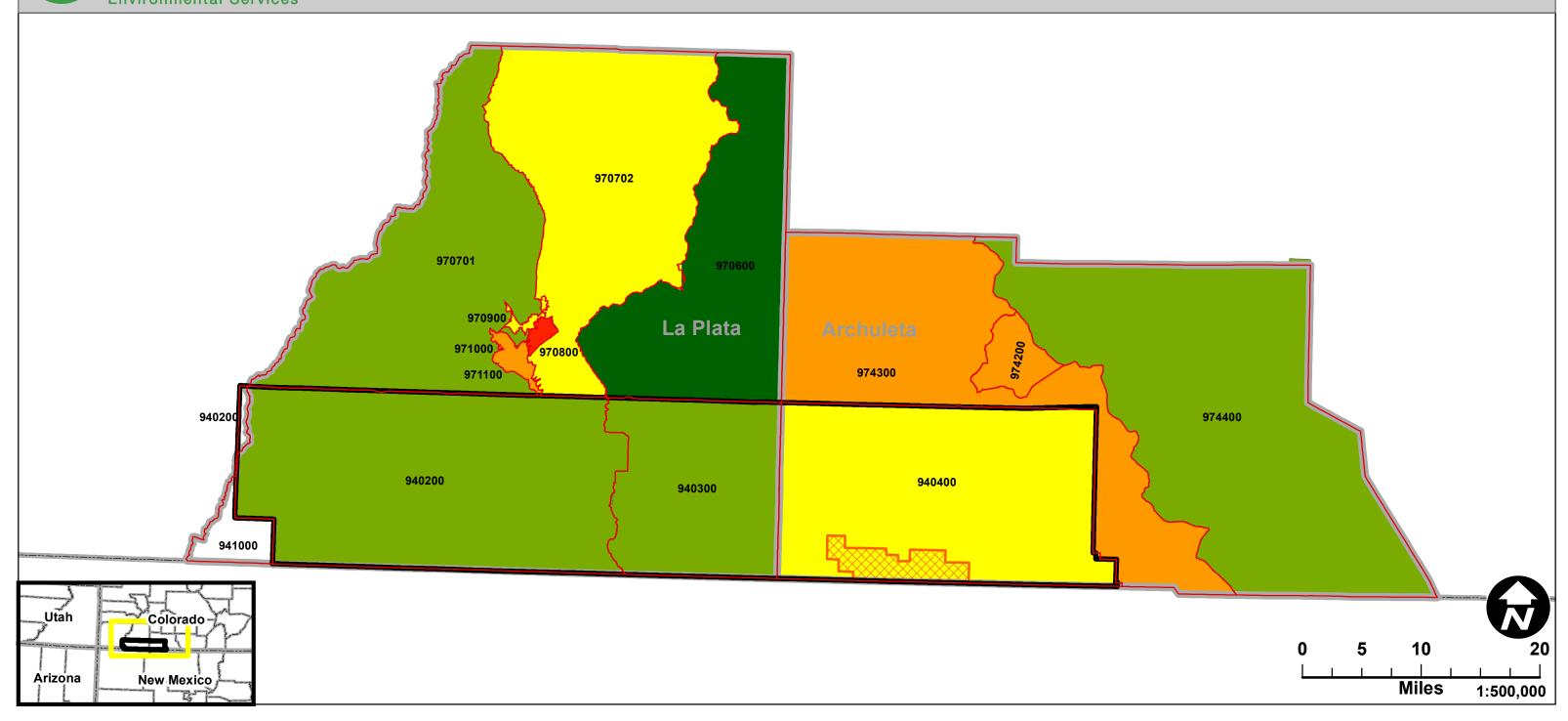
MAP 13: AMERICAN INDIAN POPULATIONS PER CENSUS TRACT LA PLATA AND ARCHULETA COUNTIES

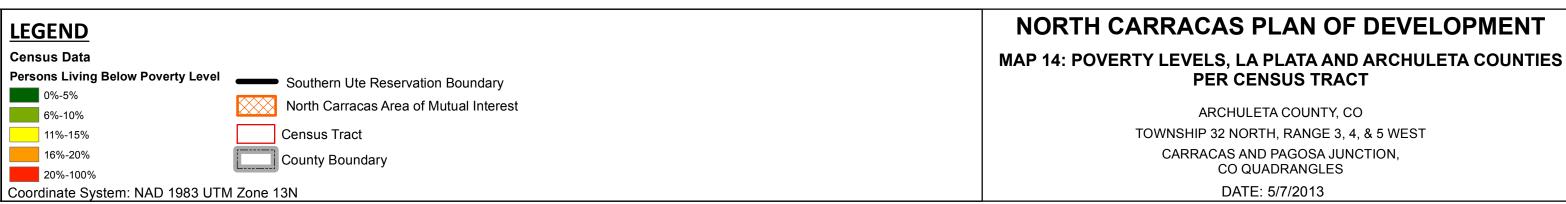
ARCHULETA COUNTY, CO

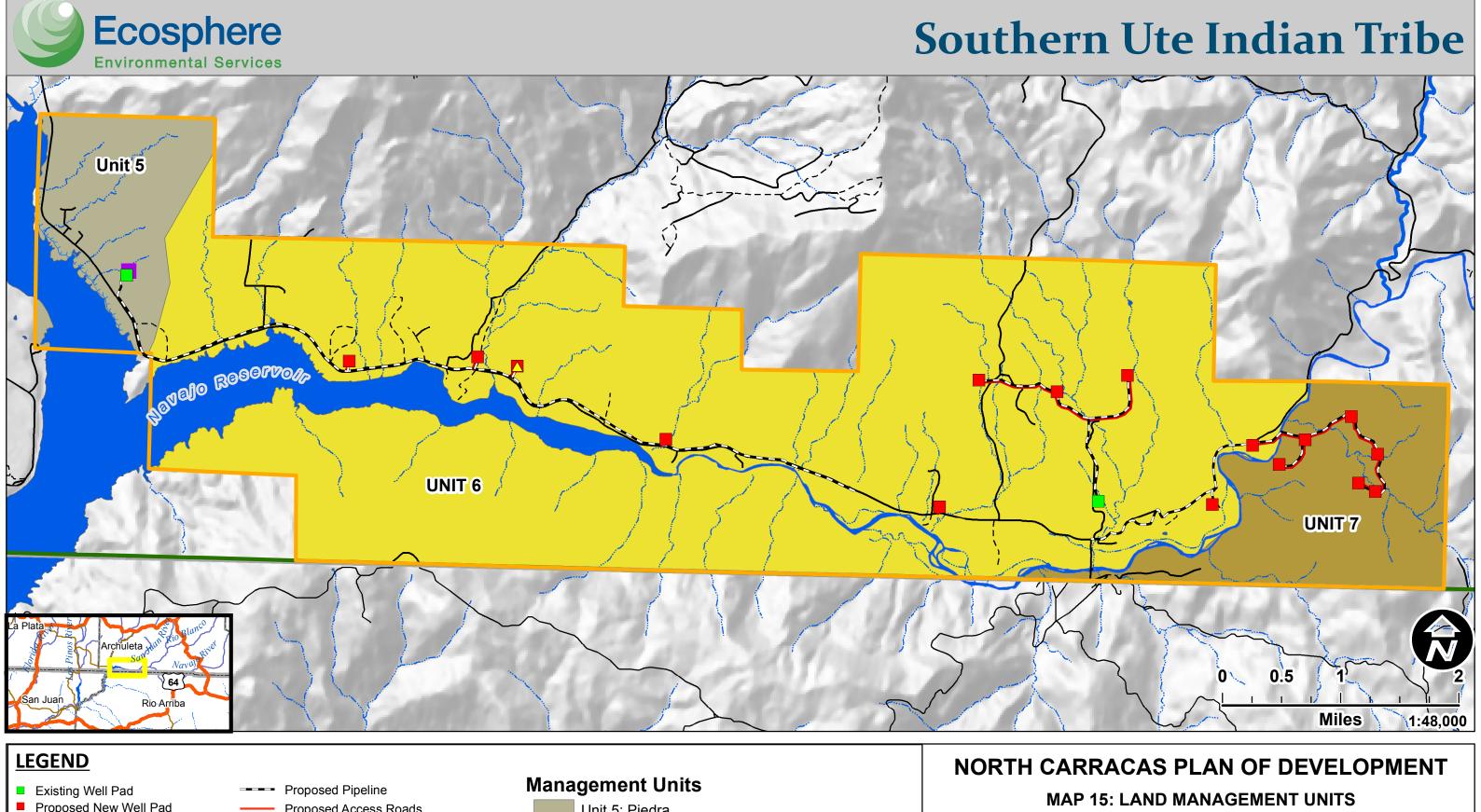
TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST CARRACAS AND PAGOSA JUNCTION, CO QUADRANGLES DATE: 5/7/2013



# **Southern Ute Indian Tribe**







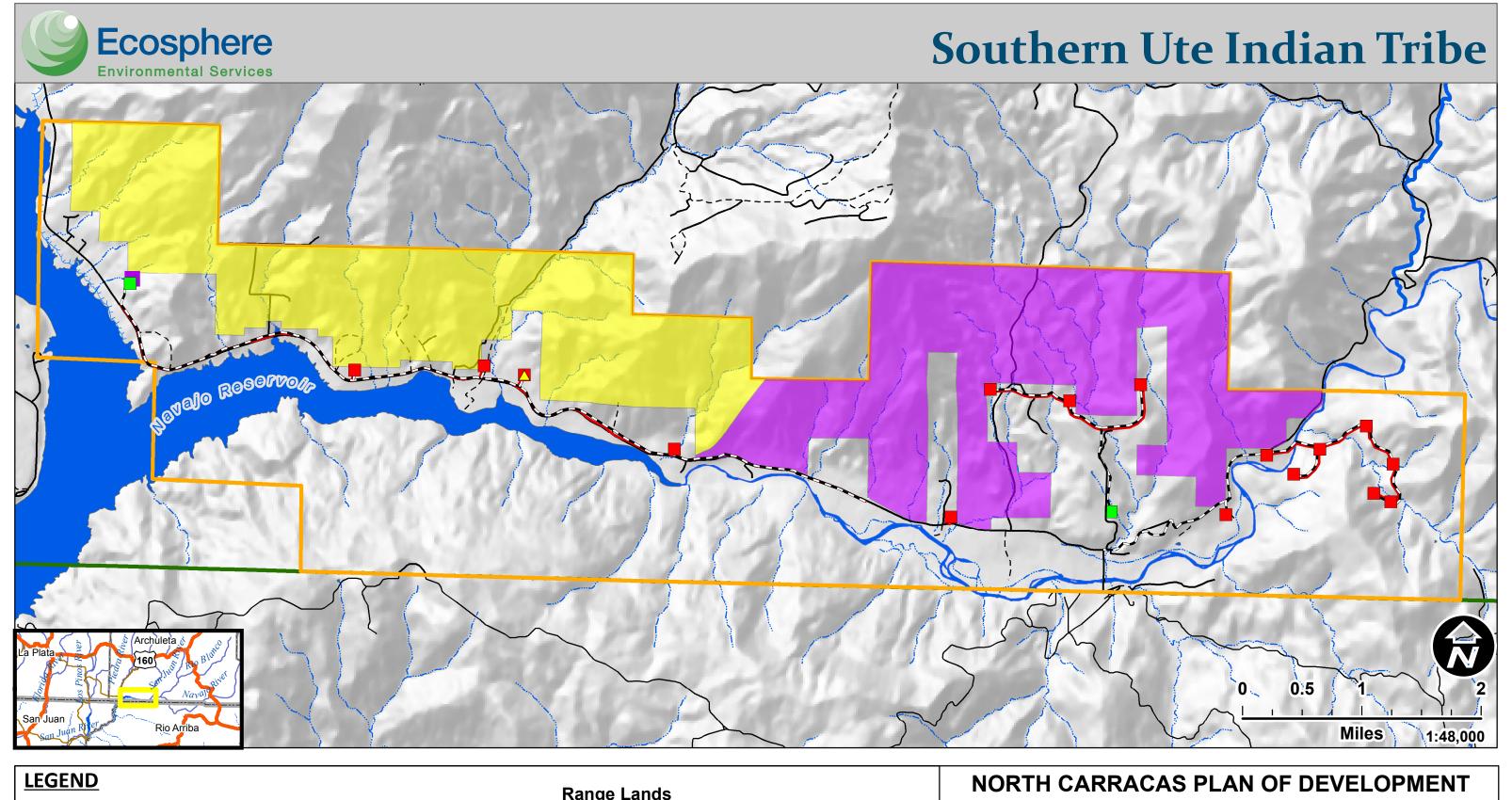
# Existing Well Pad Proposed New Well Pad Proposed Access Roads Proposed Salt Water Disposal Well Proposed Compressor Station Proposed Compressor Station Proposed Pipeline Proposed Pipeline Unit 5: Piedra Unit 6: Lower San Juan Unit 7: Upper San Juan

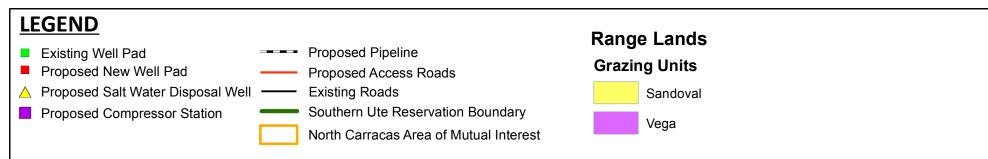
Coordinate System: NAD 1983 UTM Zone 13N

ARCHULETA COUNTY, CO

TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST

CARRACAS AND PAGOSA JUNCTION, CO QUADRANGLES





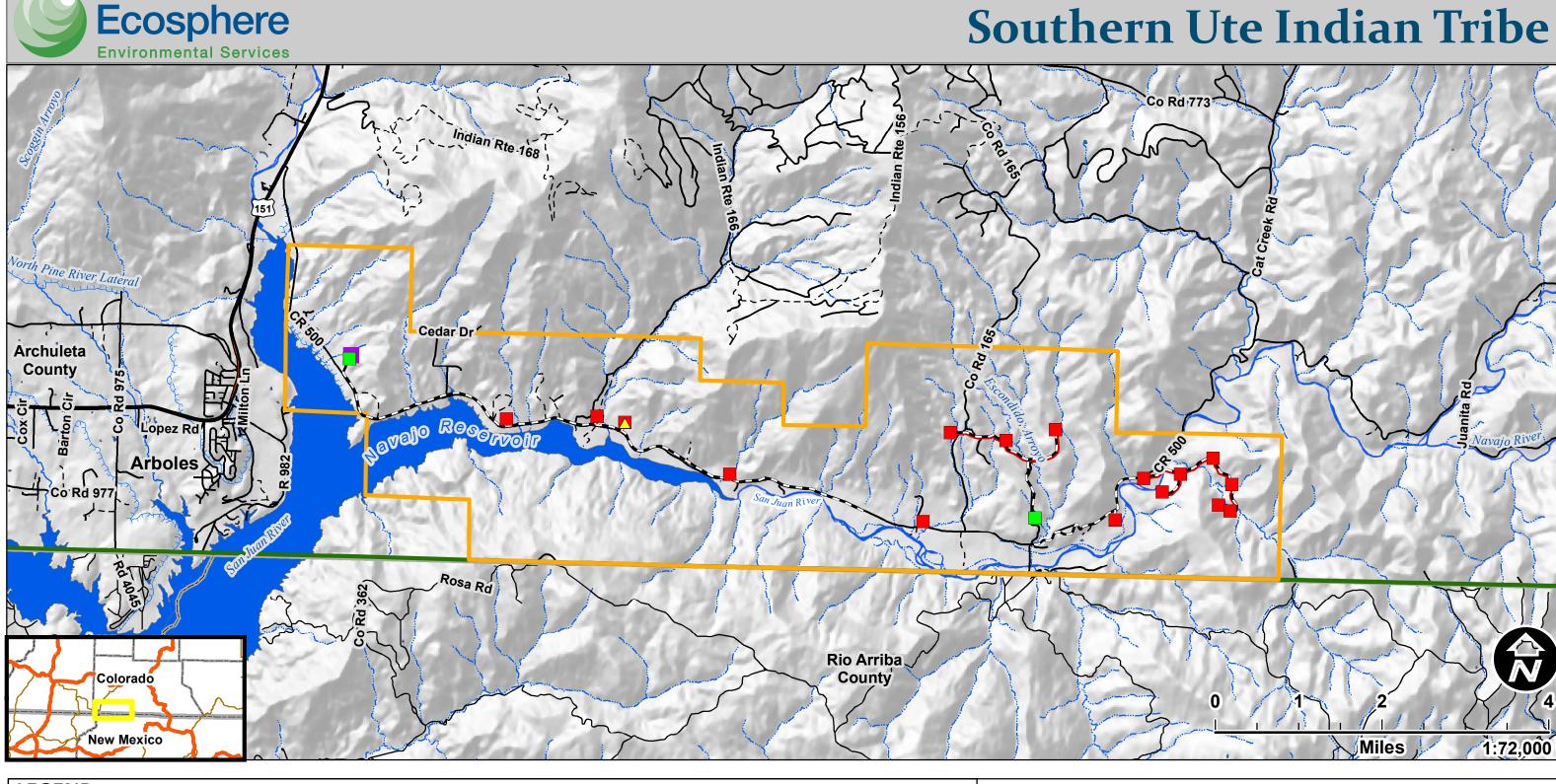
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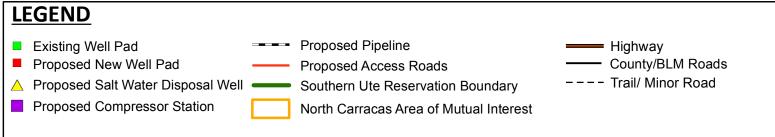
MAP 16: RANGE LAND GRAZING UNITS

ARCHULETA COUNTY, CO

TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST

CARRACAS AND PAGOSA JUNCTION, CO QUADRANGLES





Coordinate System: NAD 1983 UTM Zone 13N

# NORTH CARRACAS PLAN OF DEVELOPMENT

**MAP 17: TRANSPORTATION CORRIDORS** 

ARCHULETA COUNTY, CO

TOWNSHIP 32 NORTH, RANGE 3, 4, & 5 WEST CARRACAS AND PAGOSA JUNCTION, CO QUADRANGLES