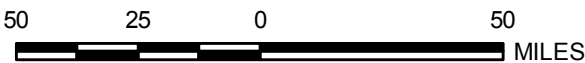
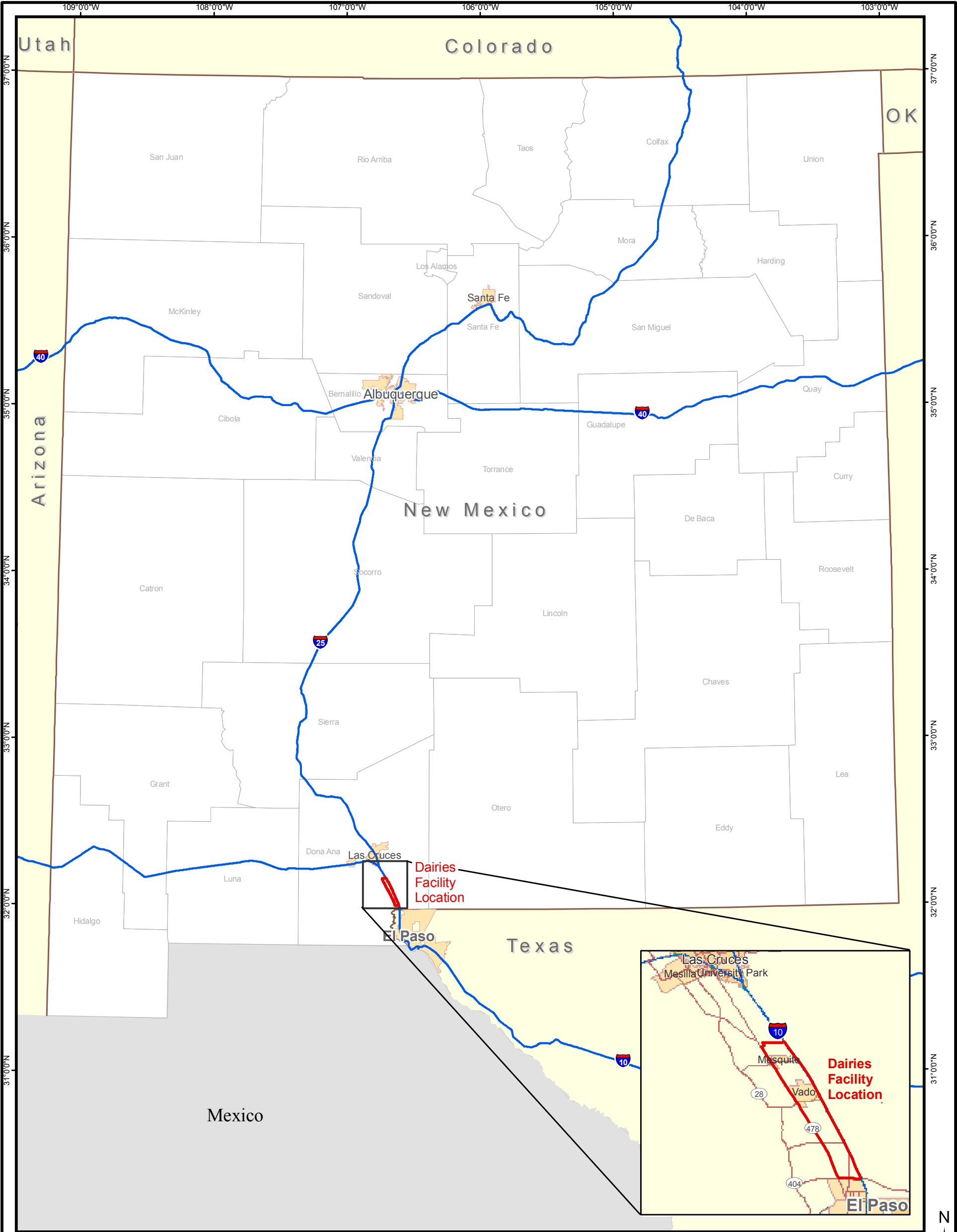


## **FIGURES**



SCALE 1:2,500,000  
WHEN PRODUCED AT 11X17IN

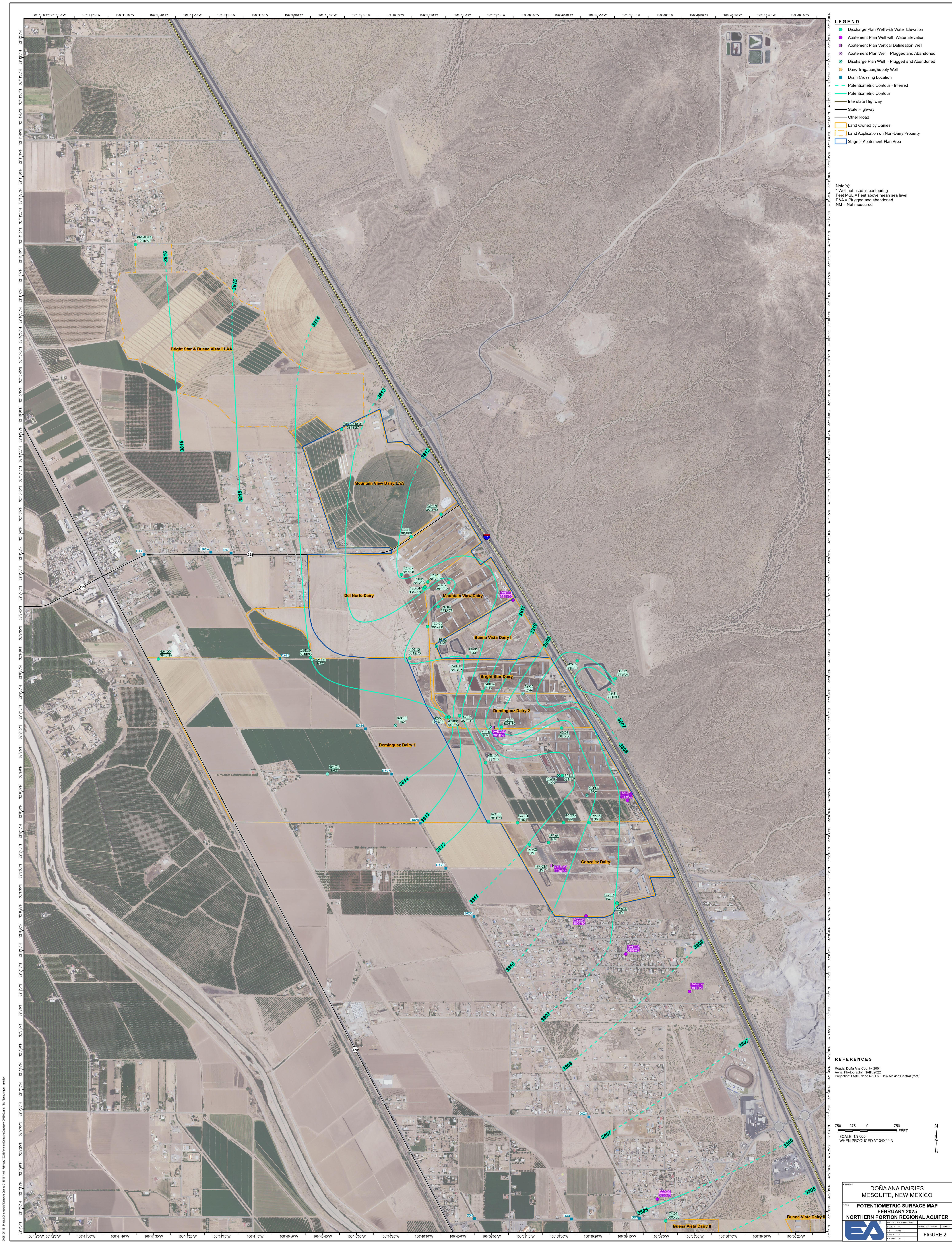
**LEGEND:**

 Facility Boundary

|                                                                                       |             |  |                        |
|---------------------------------------------------------------------------------------|-------------|--|------------------------|
| PROJECT                                                                               |             |  |                        |
| DOÑA ANA DAIRIES<br>MESQUITE, NEW MEXICO                                              |             |  |                        |
| TITLE                                                                                 |             |  |                        |
| SITE LOCATION MAP                                                                     |             |  |                        |
|  | PROJECT No. |  | 11x17_siteloc.mxd      |
|                                                                                       | DESIGN      |  | SCALE AS SHOWN   REV 0 |
|                                                                                       | GIS         |  | FIGURE 1               |
|                                                                                       | CHECK       |  |                        |
|                                                                                       | REVIEW      |  |                        |

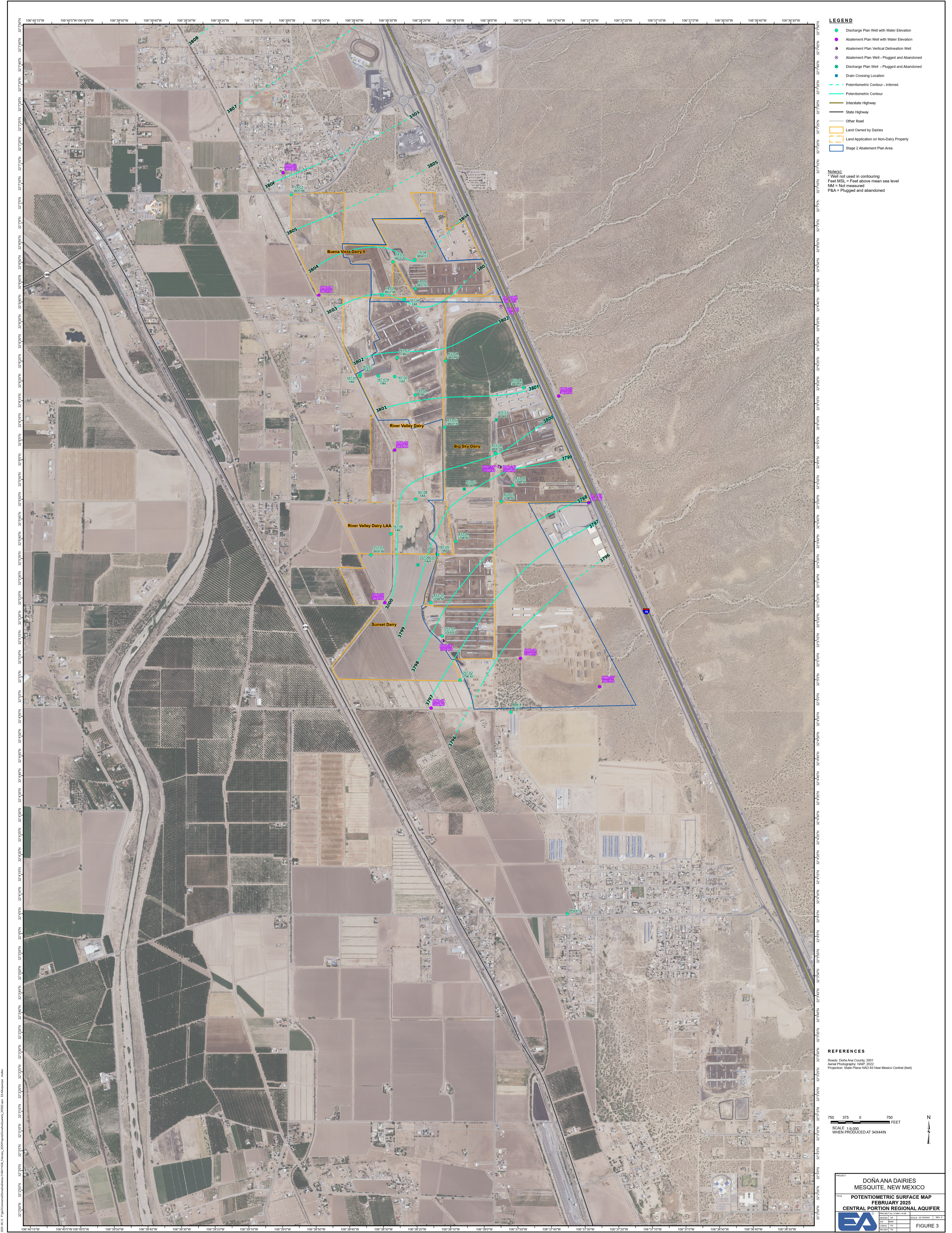
**REFERENCES**  
Base Data: ESRI, 2008.



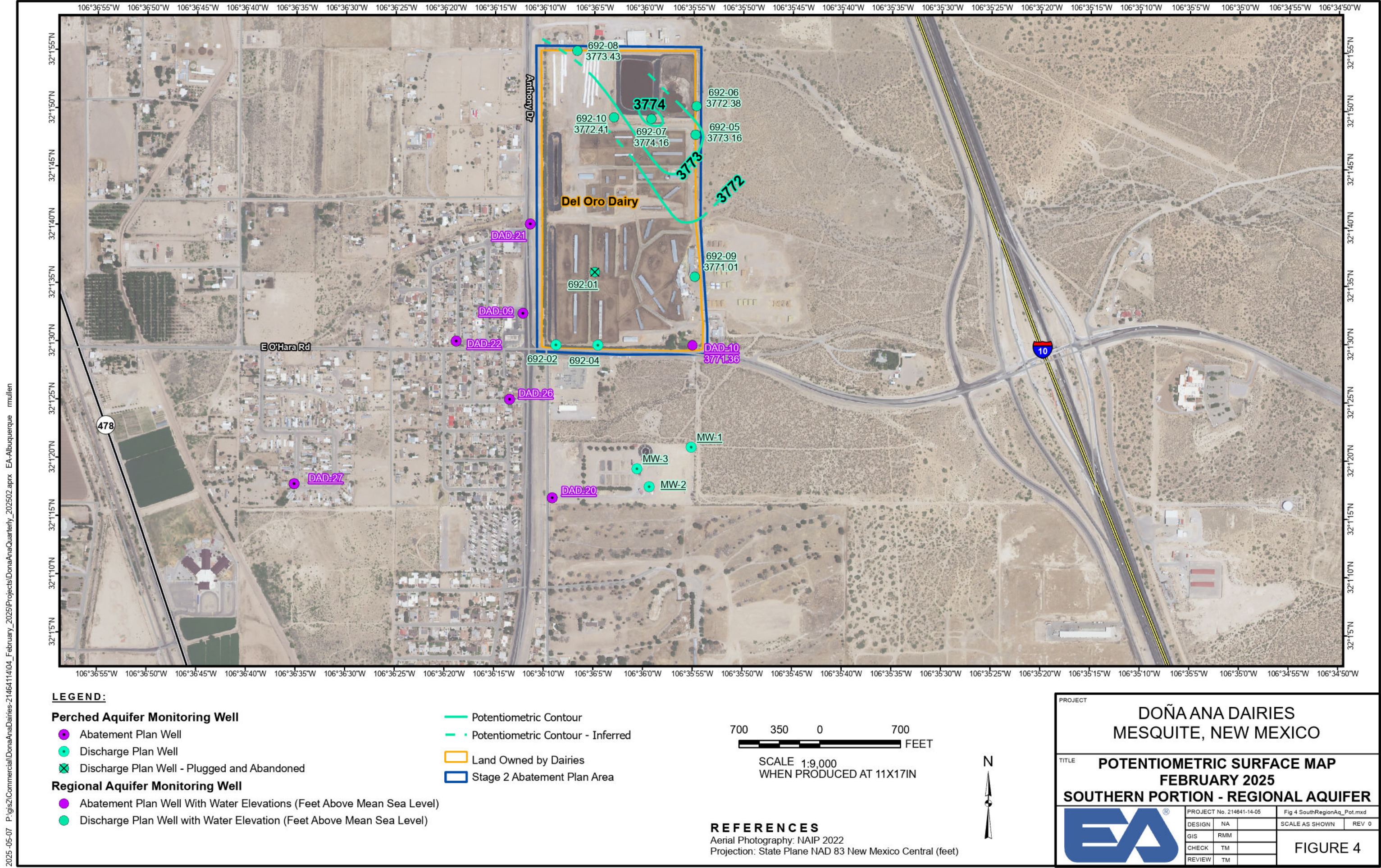




2023-05-12 10:42:12 Page: C:\Users\miller\Documents\2023\Mapa\_2023\Project\CentralPortion\Mapa\_2023.aprx 1x4-Milestones.mxd

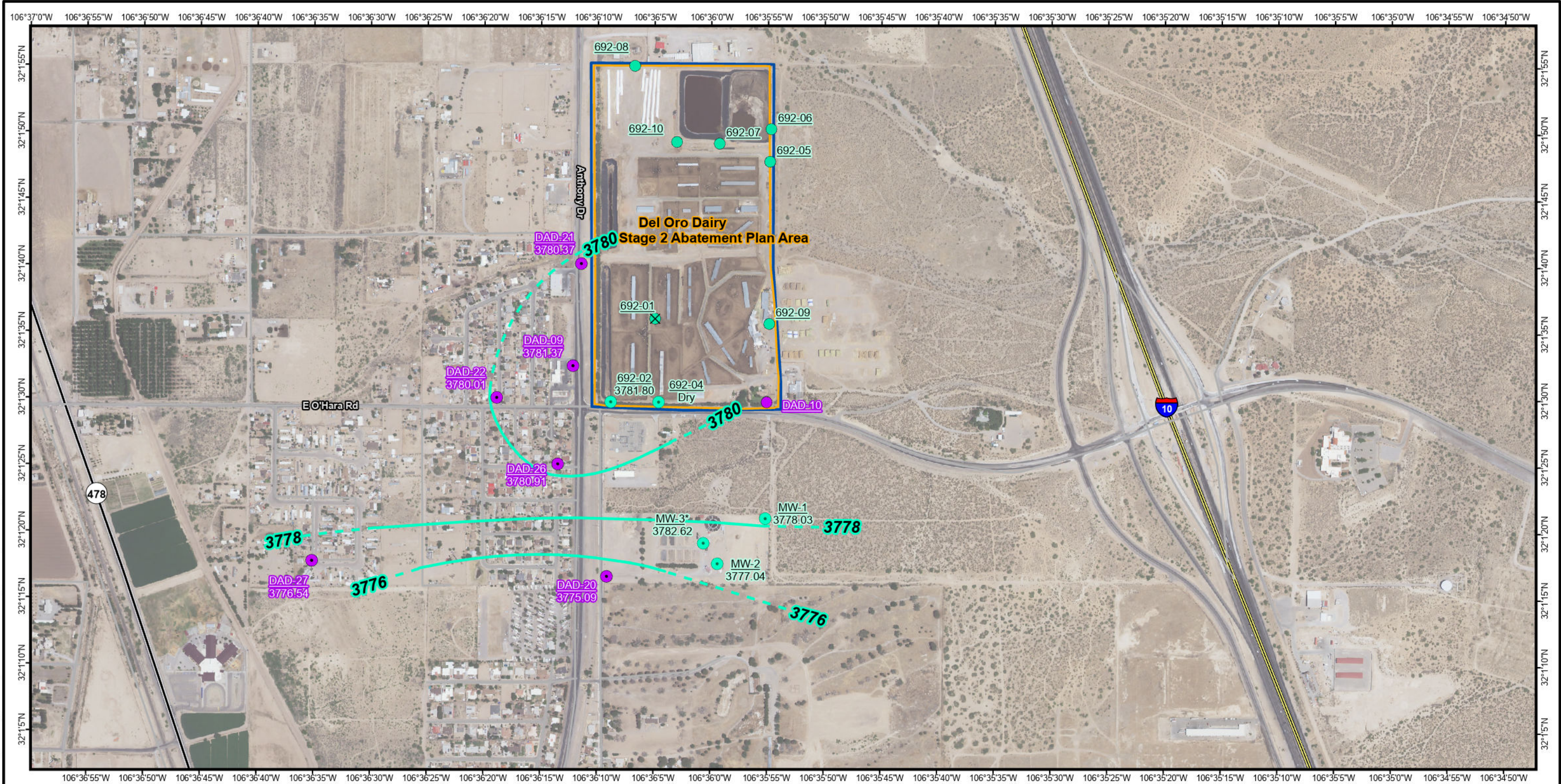








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**LEGEND:**

**Perched Aquifer Monitoring Well**

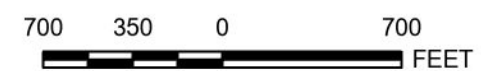
- Abatement Plan Well With Water Elevations (Feet Above Mean Sea Level)
- Discharge Plan Well with Water Elevation (Feet Above Mean Sea Level)
- Discharge Plan Well - Plugged and Abandoned

**Regional Aquifer Monitoring Well**

- Abatement Plan Well
- Discharge Plan Well

- Potentiometric Contour
- Potentiometric Contour - Inferred
- Land Owned by Dairies
- Stage 2 Abatement Plan Area

Note:  
\* = Not used in contouring.



SCALE 1:9,000  
WHEN PRODUCED AT 11X17IN



**REFERENCES**

Aerial Photography: NAIP 2022  
Projection: State Plane NAD 83 New Mexico Central (feet)

|         |                          |                                                                                   |                |  |          |
|---------|--------------------------|-----------------------------------------------------------------------------------|----------------|--|----------|
| PROJECT |                          | DOÑA ANA DAIRIES<br>MESQUITE, NEW MEXICO                                          |                |  |          |
| TITLE   |                          | POTENTIOMETRIC SURFACE MAP<br>FEBRUARY 2025<br>SOUTHERN PORTION - PERCHED AQUIFER |                |  |          |
|         | PROJECT No. 214641-14-05 |                                                                                   | SCALE AS SHOWN |  | FIGURE 5 |
|         | DESIGN                   | NA                                                                                |                |  |          |
|         | GIS                      | RMM                                                                               |                |  |          |
|         | CHECK                    | TM                                                                                |                |  |          |
|         | REVIEW                   | TM                                                                                |                |  |          |





**LEGEND:**

- Abatement Plan Monitoring Well
- Abatement Plan Monitoring Well, Plugged and Abandoned
- Discharge Plan Monitoring Well
- Discharge Plan Monitoring Well, Plugged and Abandoned or Destroyed
- Abatement Plan Vertical Delineation Monitoring Well
- Dairy Irrigation/Supply Well
- Interstate Highway
- State Highway
- Other Road
- Land Owned by Dairies
- Land Application on Non-Dairy Property
- Stage 2 Abatement Plan Area

**Notes:**  
Units are in milligrams per liter.  
\* = Data from November 2024 since February 2025 data were not available.  
Cl = Chloride  
NO<sub>3</sub> = Nitrate as N  
NS = Not Sampled  
TDS = Total Dissolved Solids

**REFERENCES**  
Roads: Doña Ana County, 2001  
Aerial Photography: IAPF, 2022  
Projection: State Plane NAD 83 New Mexico Central (feet)

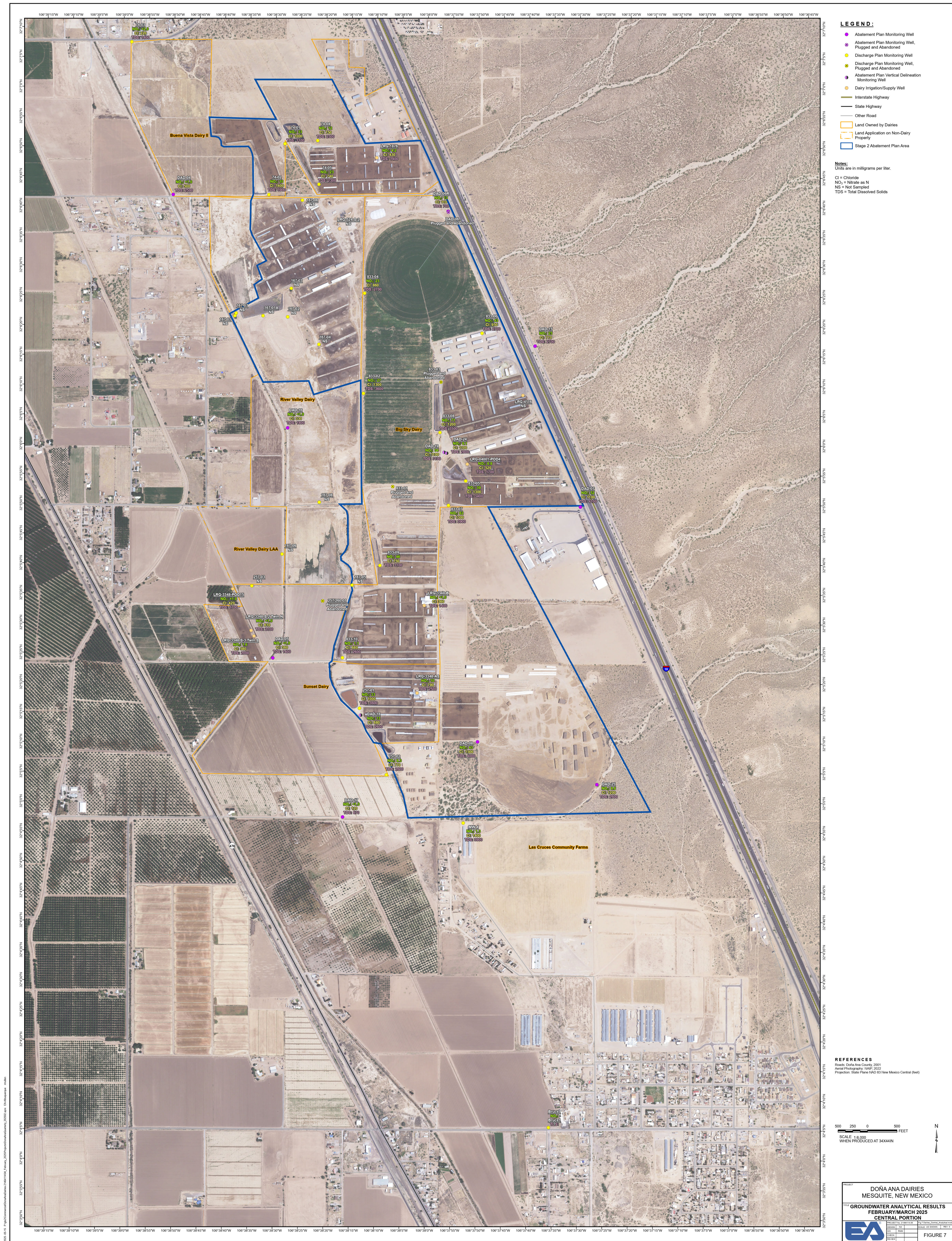
600 300 0 300 600  
SCALE 1:7,200  
WHEN PRODUCED AT 34X44IN

**PROJECT**  
DOÑA ANA DAIRIES  
MESQUITE, NEW MEXICO

**TITLE**  
GROUNDWATER ANALYTICAL RESULTS  
FEBRUARY/MARCH 2025  
NORTHERN PORTION

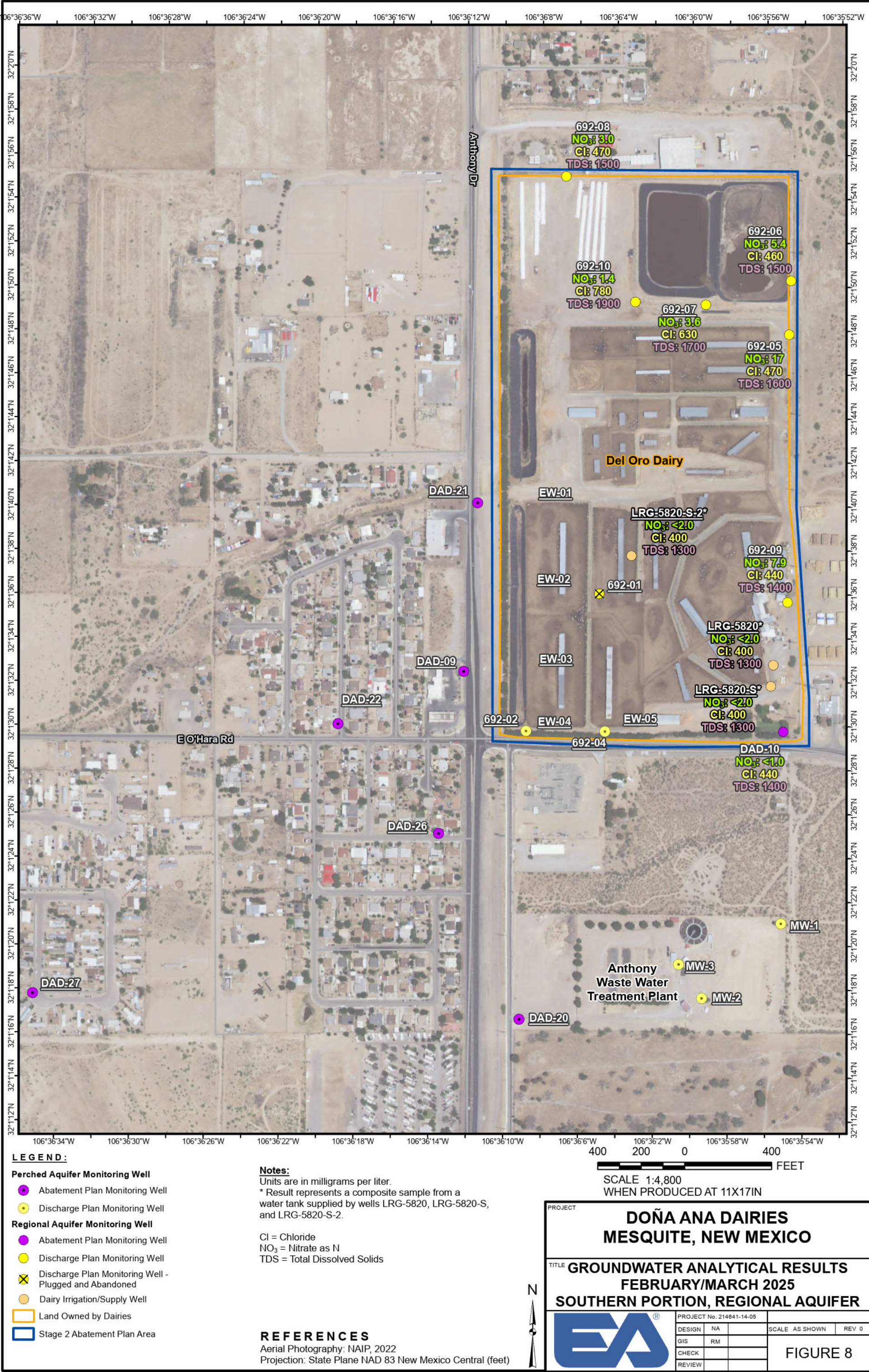
| PROJECT FILE INFORMATION |          | SCALE: AS SHOWN |       | FIGURE 6 |          |
|--------------------------|----------|-----------------|-------|----------|----------|
| REVISION                 | DATE     | BY              | APP'D | FIGURE 6 | FIGURE 6 |
| 1                        | 02/25/25 | EA              | EA    | FIGURE 6 | FIGURE 6 |





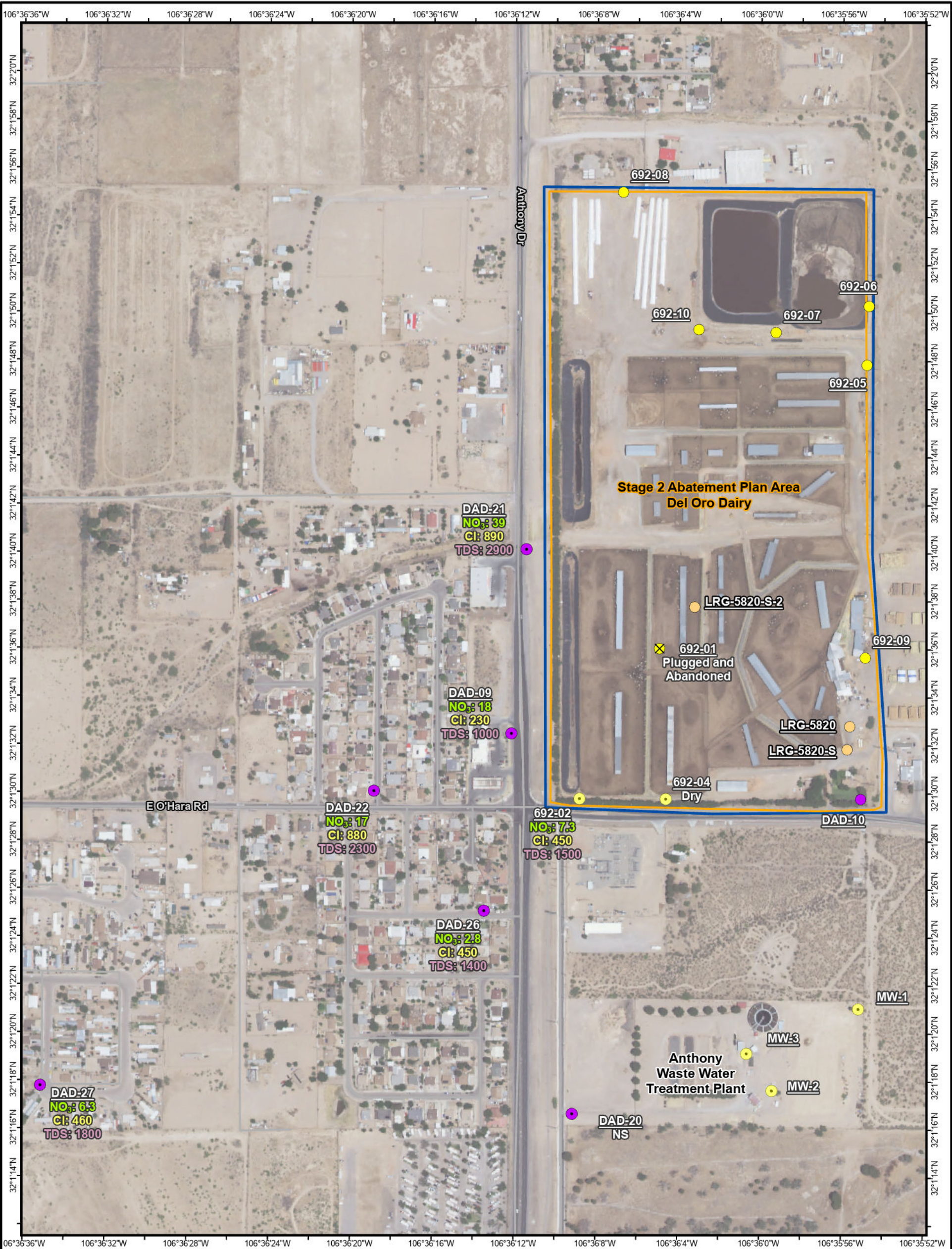


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**LEGEND:**

- Perched Aquifer Monitoring Well**
- Abatement Plan Monitoring Well
  - Discharge Plan Monitoring Well
- Regional Aquifer Monitoring Well**
- Abatement Plan Monitoring Well
  - Discharge Plan Monitoring Well
  - Discharge Plan Monitoring Well, Plugged and Abandoned
  - Dairy Irrigation/Supply Well
  - Land Owned by Dairies
  - Stage 2 Abatement Plan Area

**Notes:**  
Units are in milligrams per liter.  
Cl = Chloride  
mg/L = Milligram(s) per liter  
NO<sub>3</sub> = Nitrate as N  
NS = Not sampled  
TDS = Total Dissolved Solids

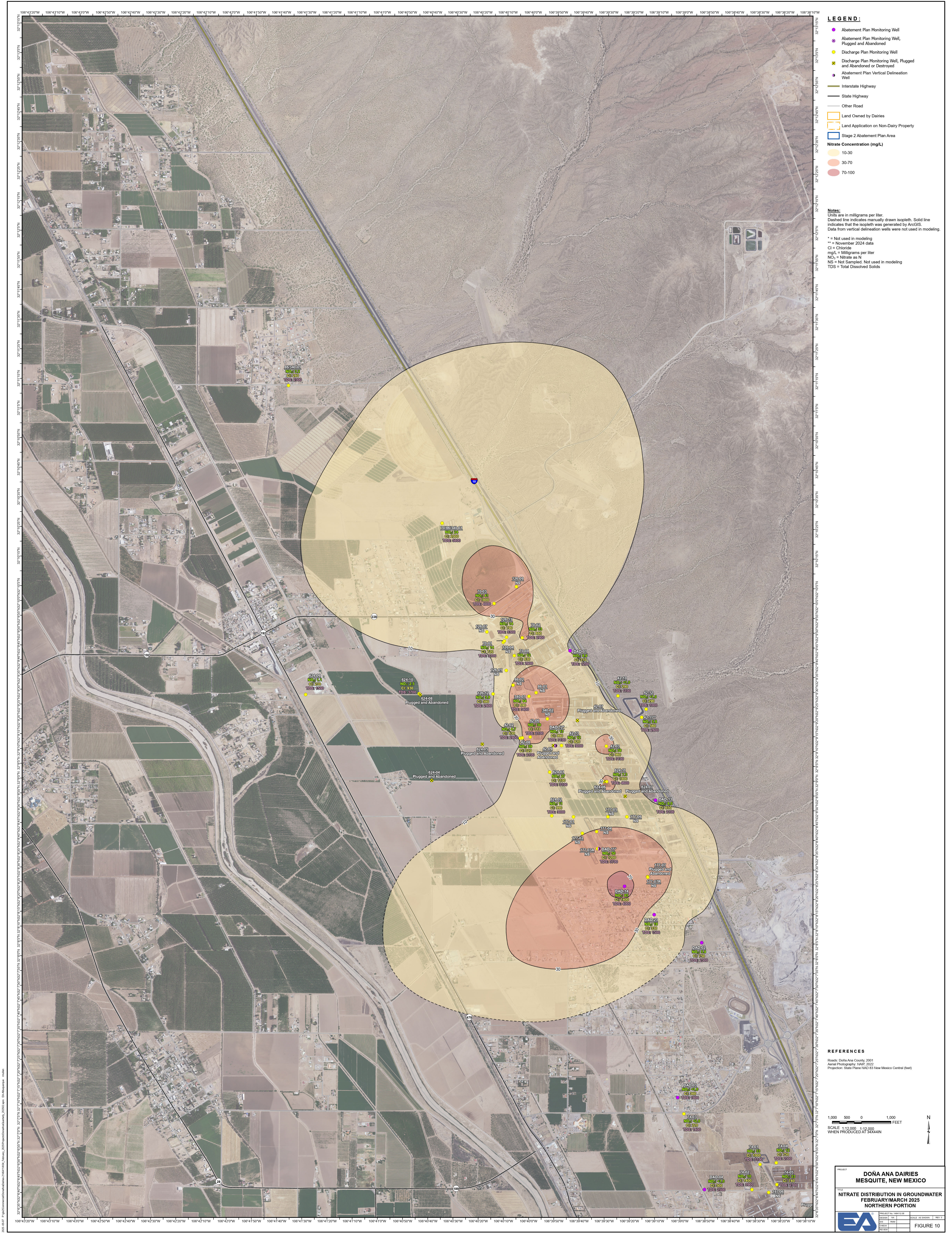
**REFERENCES**  
Aerial Photography: NAIP, 2022  
Projection: State Plane NAD 83 New Mexico Central (feet)

SCALE 1:4,800  
WHEN PRODUCED AT 11X17IN

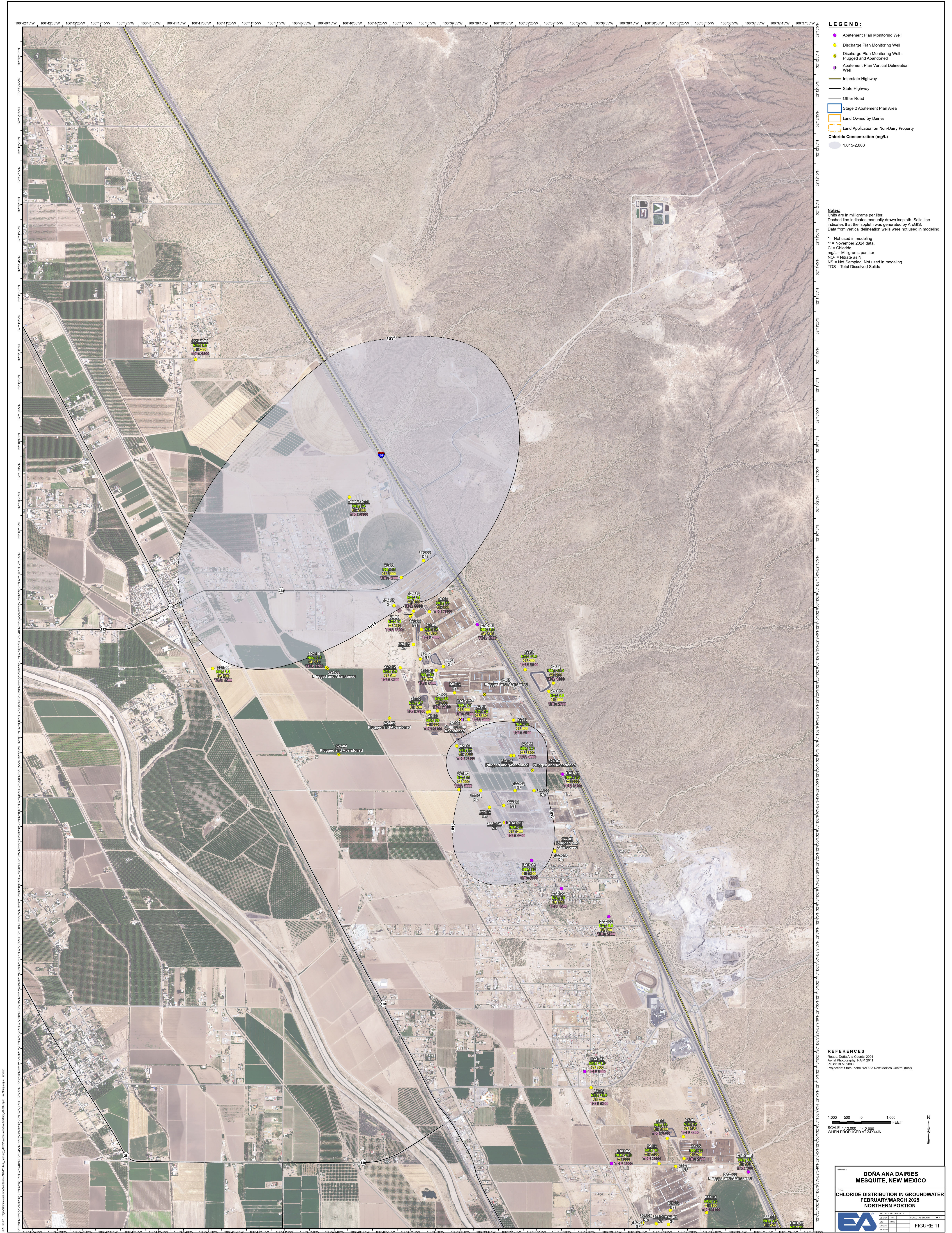


|                                                                                               |                          |                |          |
|-----------------------------------------------------------------------------------------------|--------------------------|----------------|----------|
| PROJECT                                                                                       |                          |                |          |
| DOÑA ANA DAIRIES<br>MESQUITE, NEW MEXICO                                                      |                          |                |          |
| TITLE                                                                                         |                          |                |          |
| GROUNDWATER ANALYTICAL RESULTS<br>NOVEMBER/DECEMBER 2024<br>SOUTHERN PORTION, PERCHED AQUIFER |                          |                |          |
|                                                                                               | PROJECT No. 214641-14-04 |                | FIGURE 9 |
|                                                                                               | DESIGN                   | NA             |          |
|                                                                                               | GIS                      | RM             |          |
|                                                                                               | CHECK                    |                |          |
| REVIEW                                                                                        |                          |                |          |
|                                                                                               |                          | SCALE AS SHOWN | REV 0    |









**LEGEND:**

- Abatement Plan Monitoring Well
- Discharge Plan Monitoring Well
- Plugged and Abandoned
- Abatement Plan Vertical Delineation Well
- Interstate Highway
- State Highway
- Other Road
- Stage 2 Abatement Plan Area
- Land Owned by Dairies
- Land Application on Non-Dairy Property
- Chloride Concentration (mg/L)
- 1,015-2,000

**Notes:**  
Units are in milligrams per liter.  
Dashed line indicates manually drawn isopleth. Solid line indicates that the isopleth was generated by ArcGIS.  
Data from vertical delineation wells were not used in modeling.  
\* = Not used in modeling  
\*\* = November 2024 data.  
Cl = Chloride  
mg/L = Milligrams per liter  
NO<sub>3</sub> = Nitrate as N  
NS = Not Sampled. Not used in modeling.  
TDS = Total Dissolved Solids

**REFERENCES**

Roads: Doña Ana County, 2001  
Aerial Photography: HAIR, 2011  
NAD 83, ILM, 2000  
Projection: State Plane NAD 83 New Mexico Central (feet)

1,000 500 0 1,000  
SCALE 1:12,000 1:12,000  
WHEN PRODUCED AT 34X44IN

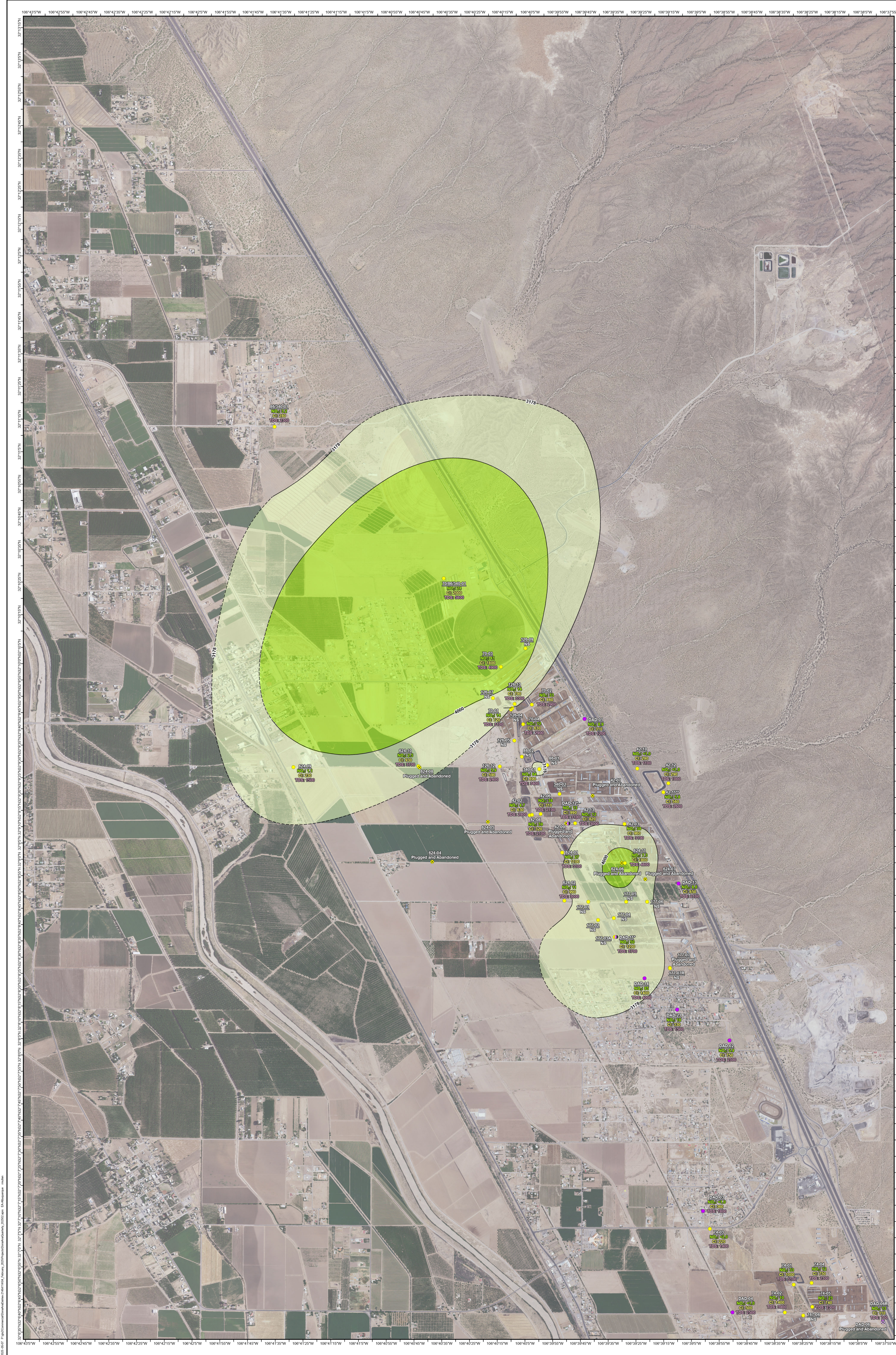
PROJECT

DOÑA ANA DAIRIES  
MESQUITE, NEW MEXICO

CHLORIDE DISTRIBUTION IN GROUNDWATER  
FEBRUARY/MARCH 2025  
NORTHERN PORTION

FIGURE 11





LEGEND:

- Abatement Plan Monitoring Well
- Abatement Plan Monitoring Well - Plugged and Abandoned
- Discharge Plan Monitoring Well
- Discharge Plan Monitoring Well - Plugged and Abandoned
- Abatement Plan Vertical Delineation Well
- Interstate Highway
- State Highway
- Other Road
- Land Owned by Dairies
- Land Application on Non-Dairy Property
- Stage 2 Abatement Plan Area
- TDS Concentration (mg/L)
  - 3,178-4,000
  - 4,000-6,000
  - > 6,000

Notes:  
Units are in milligrams per liter.  
Dashed line indicates manually drawn isopleth. Solid line indicates that the isopleth was generated by ArcGIS.  
Data from vertical delineation wells were not used in modeling.  
\* = Not used in modeling  
\*\* = November 2024 data  
Cl = Chloride  
mg/L = Milligrams per liter  
NO<sub>3</sub> = Nitrate as N  
NS = Not sampled. Not used in modeling.  
TDS = Total Dissolved Solids

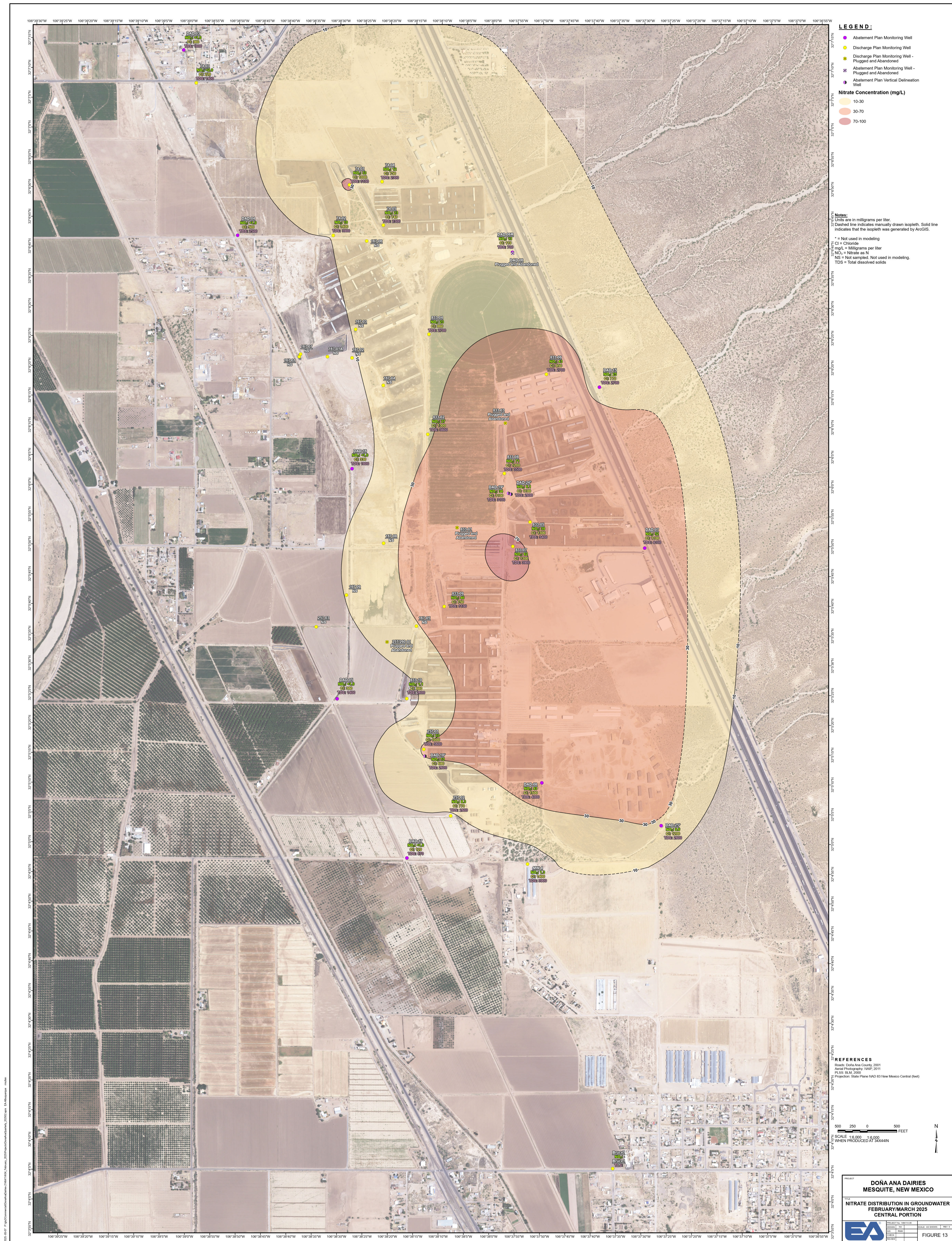
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SCALE 1:12,000 1:12,000  
WHEN PRODUCED AT 34X44IN

PROJECT: DOÑA ANA DAIRIES  
MESQUITE, NEW MEXICO

TITLE: TDS DISTRIBUTION IN GROUNDWATER  
FEBRUARY/MARCH 2025  
NORTHERN PORTION

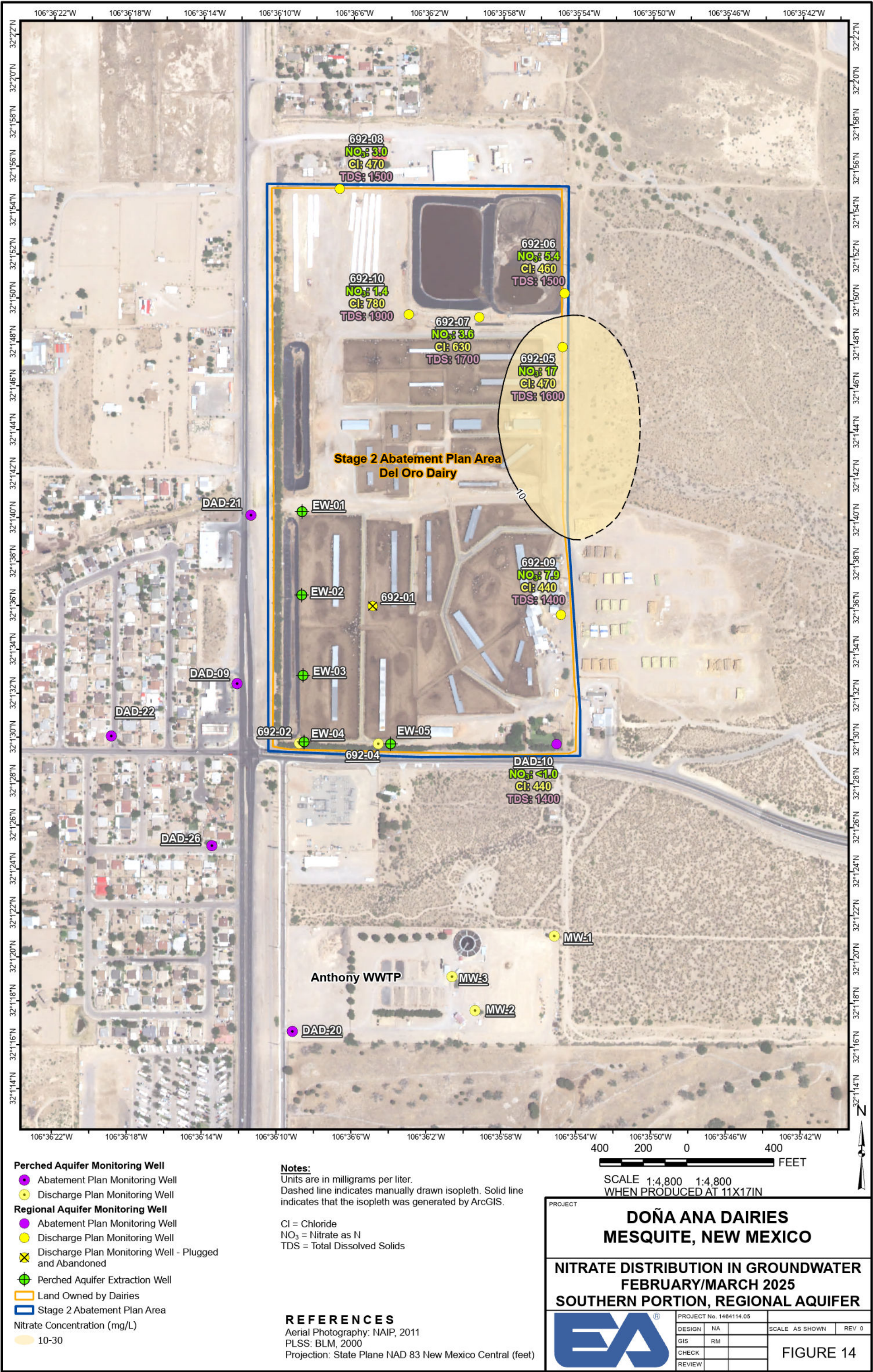
FIGURE 12





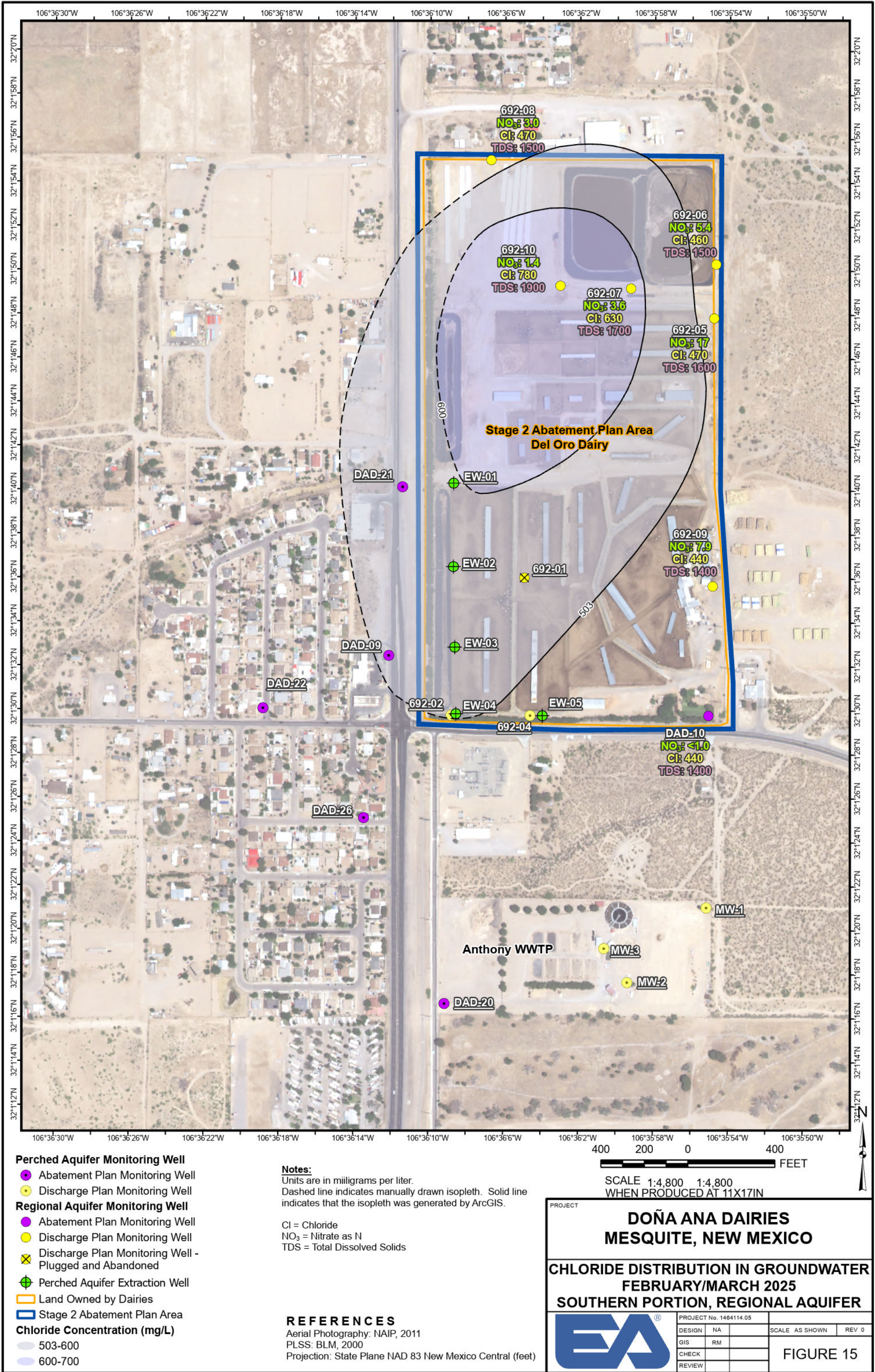


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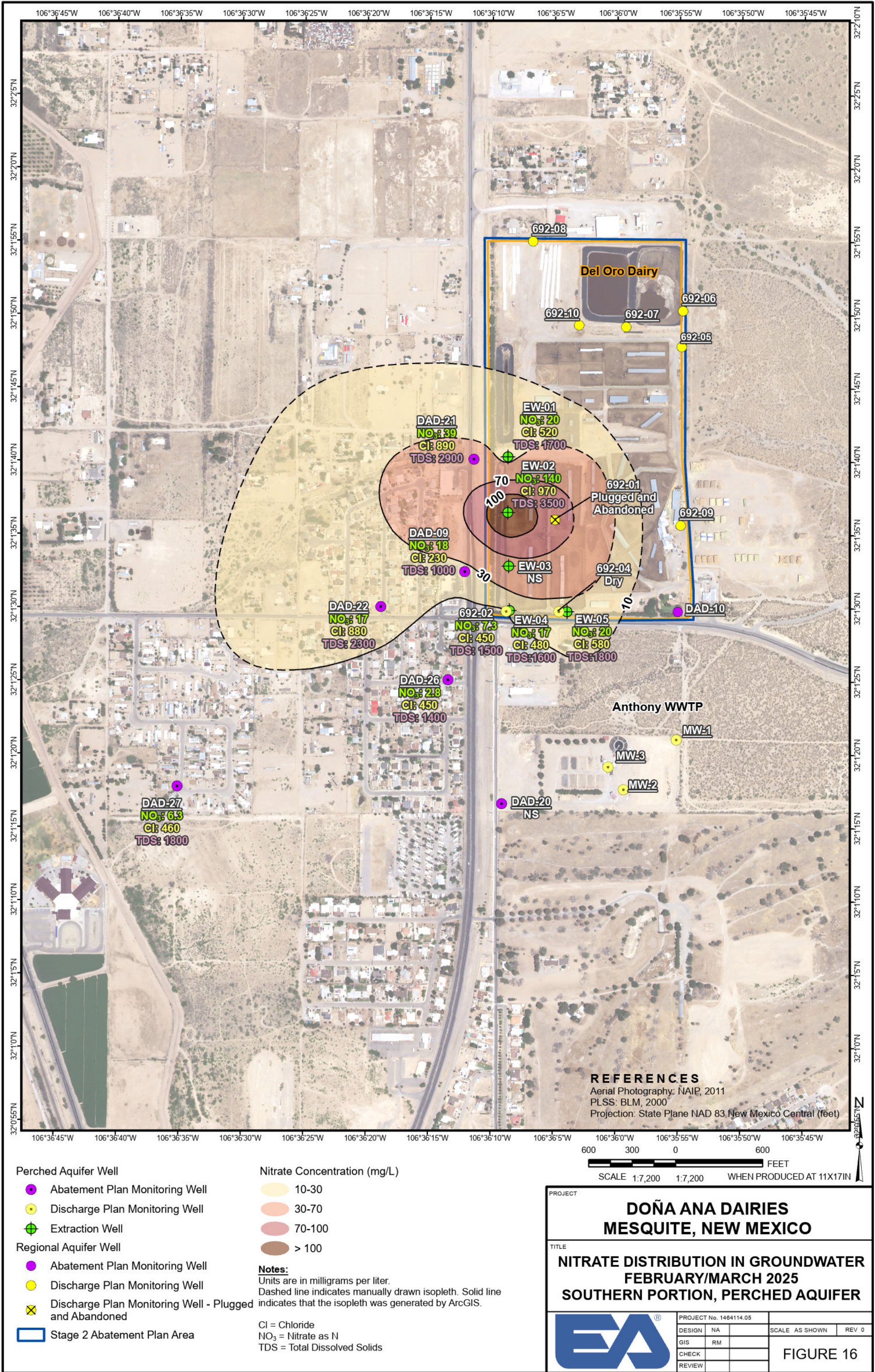


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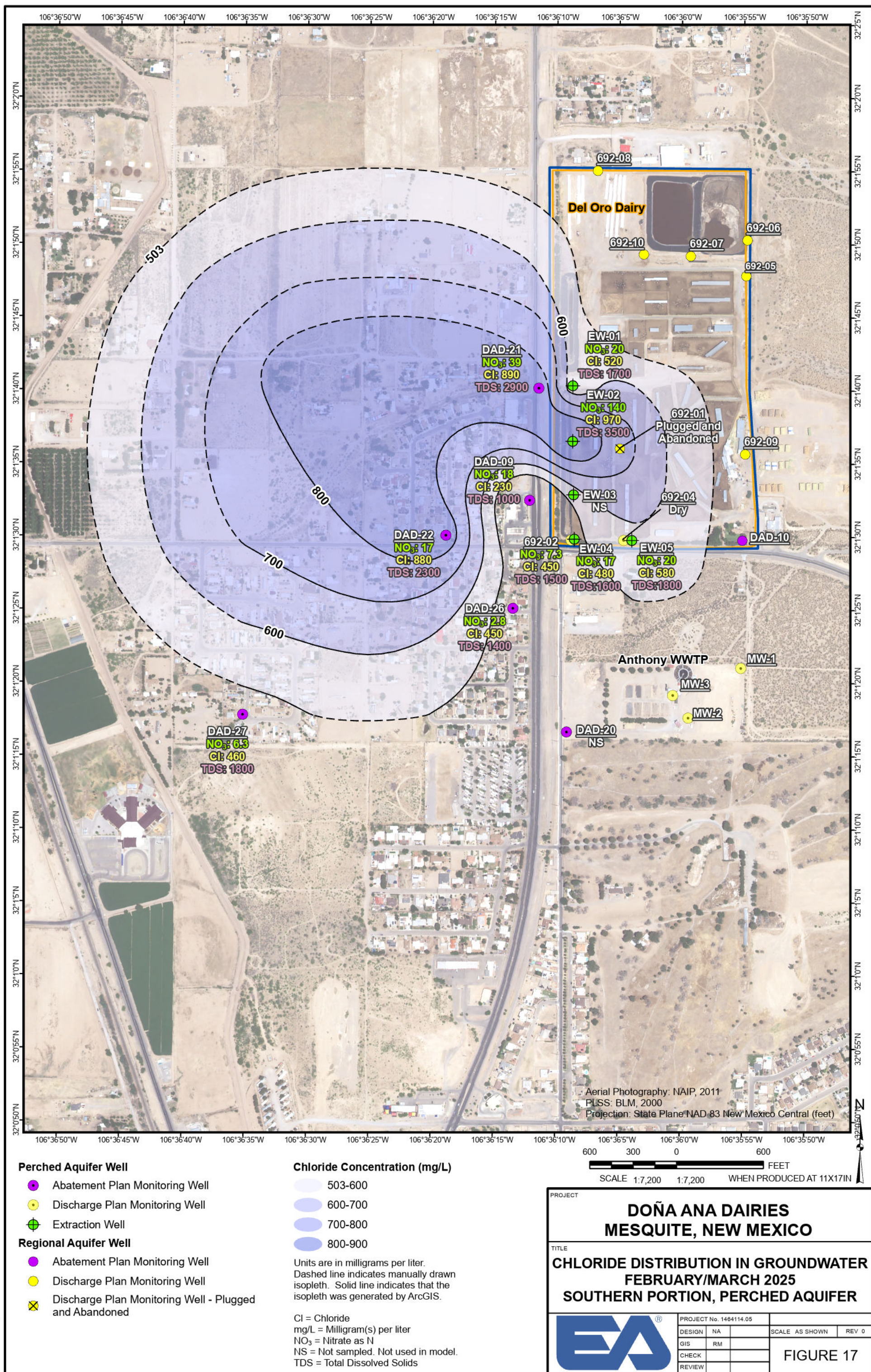




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