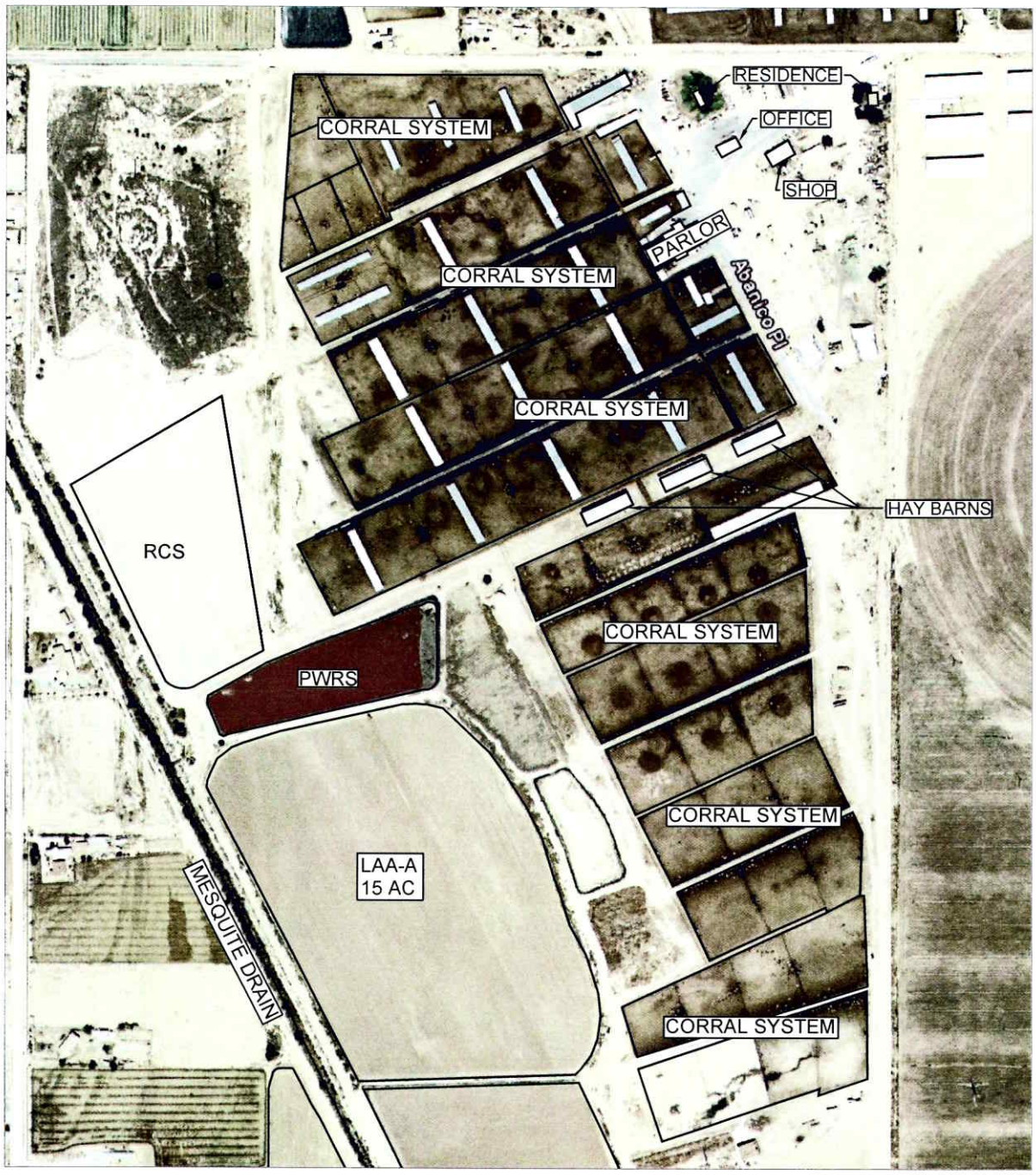


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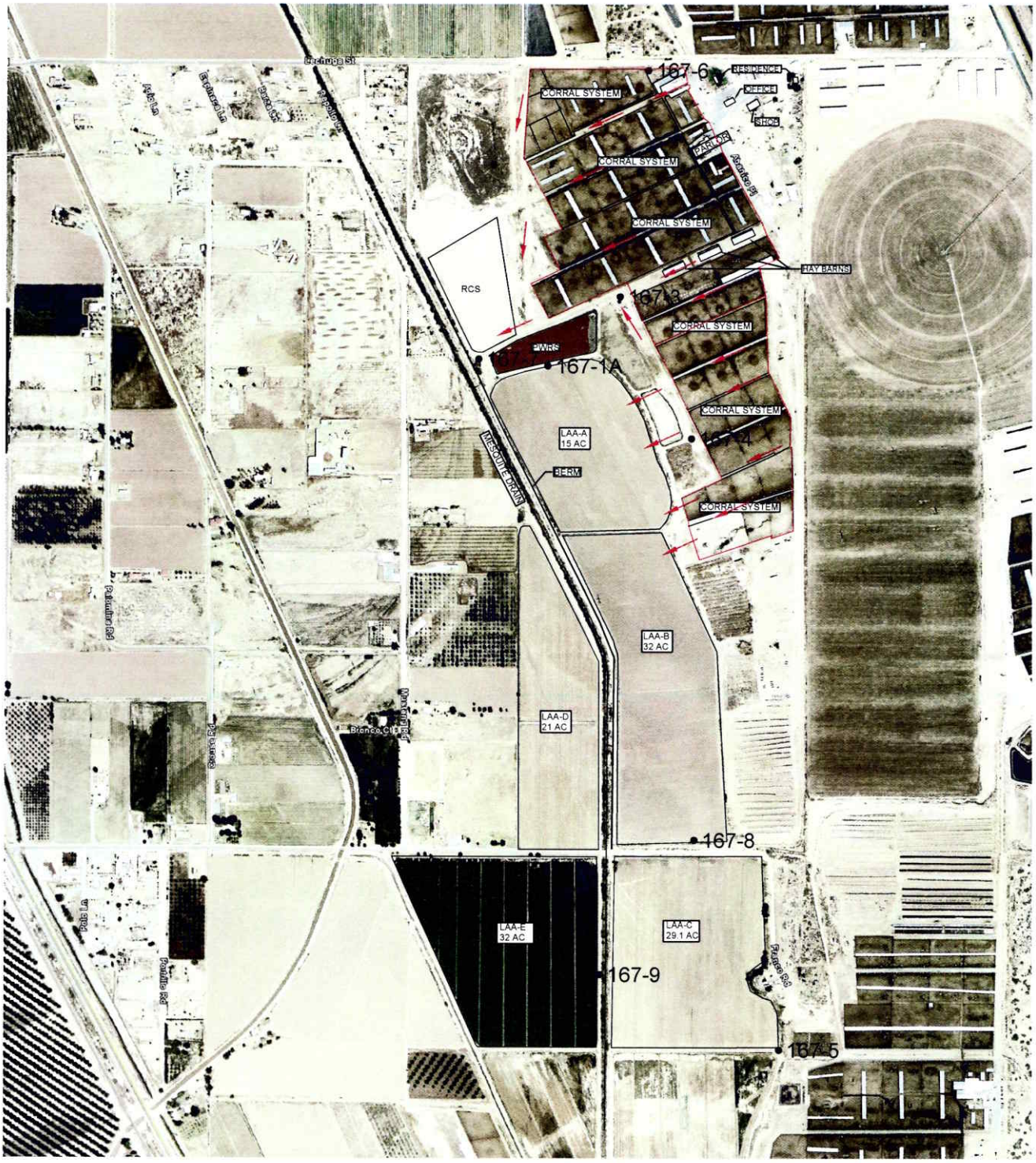
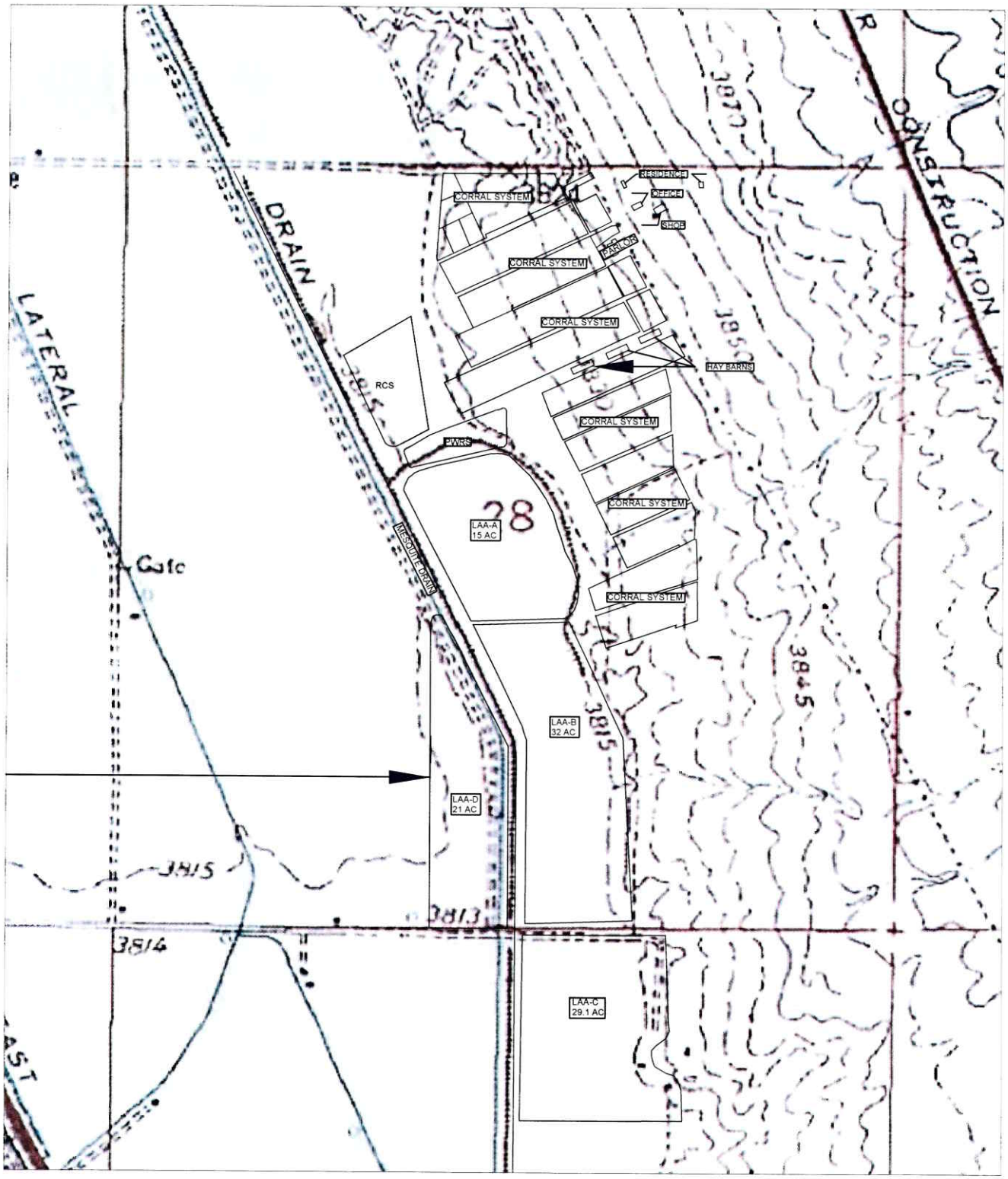
500 250 0 500

SCALE 1" = 500'

| Title: RIVER VALLEY DP-170 PRODUCTION AREA | |
|---|---|
| Date: 12/2/09 | DWG/Doc Ref 1"=500' Sheet No 1/1 |


Chihuahua St
Pueblo Ln
Pueblo Rd
Pueblo Rd
Pueblo Ln
Pueblo Rd
Pueblo Rd
Pueblo Rd

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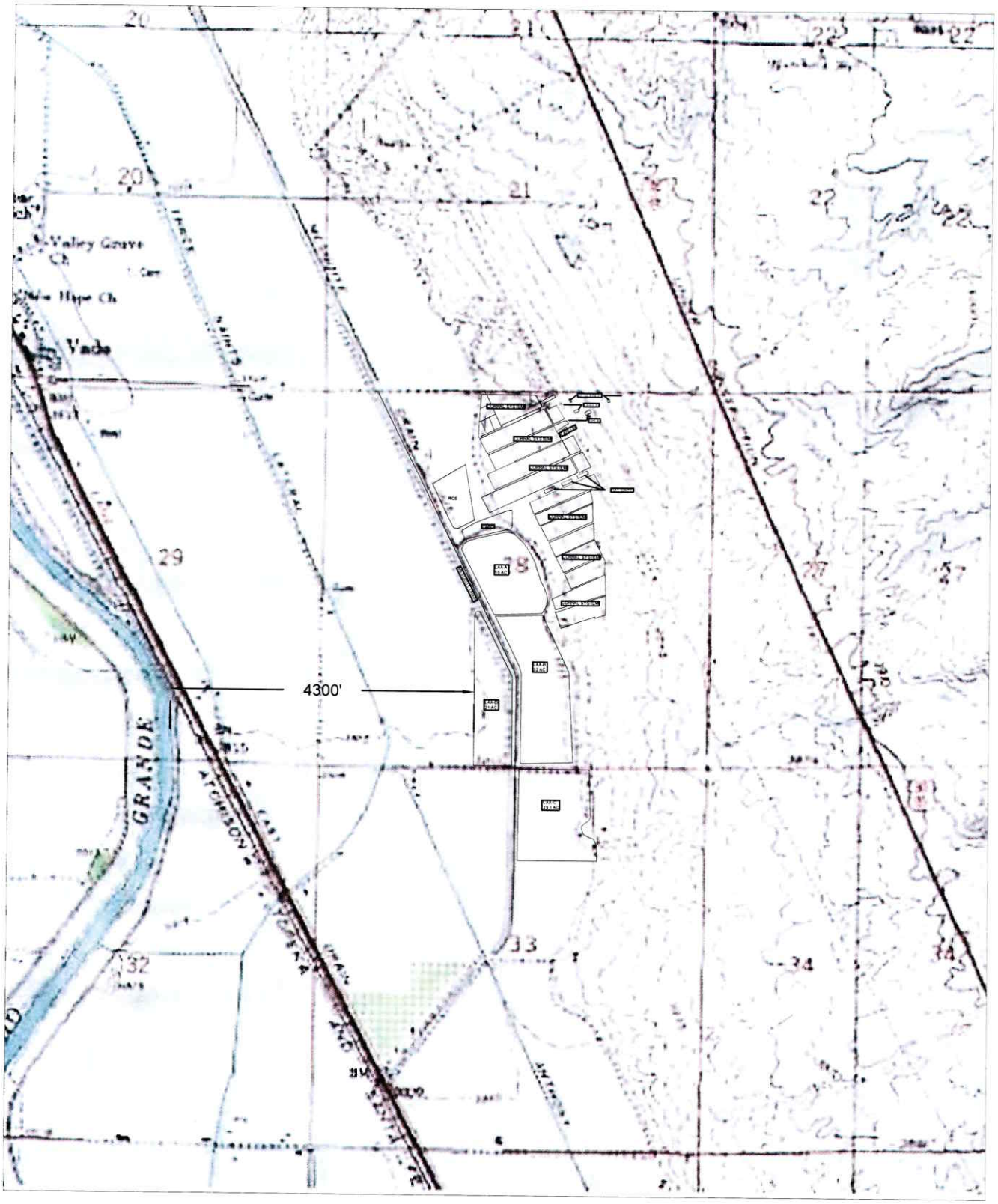
1000 500 0 1000

SCALE 1" = 1000'

| Title: RIVER VALLEY DP-170 SITE WITH CONTOURS | | |
|---|---|---|
| Date: 12/2/09 | DWG/Doc Ref 1"=1000' | Sheet No 1/1 |




2000 1000 0 2000

SCALE 1" = 2000'

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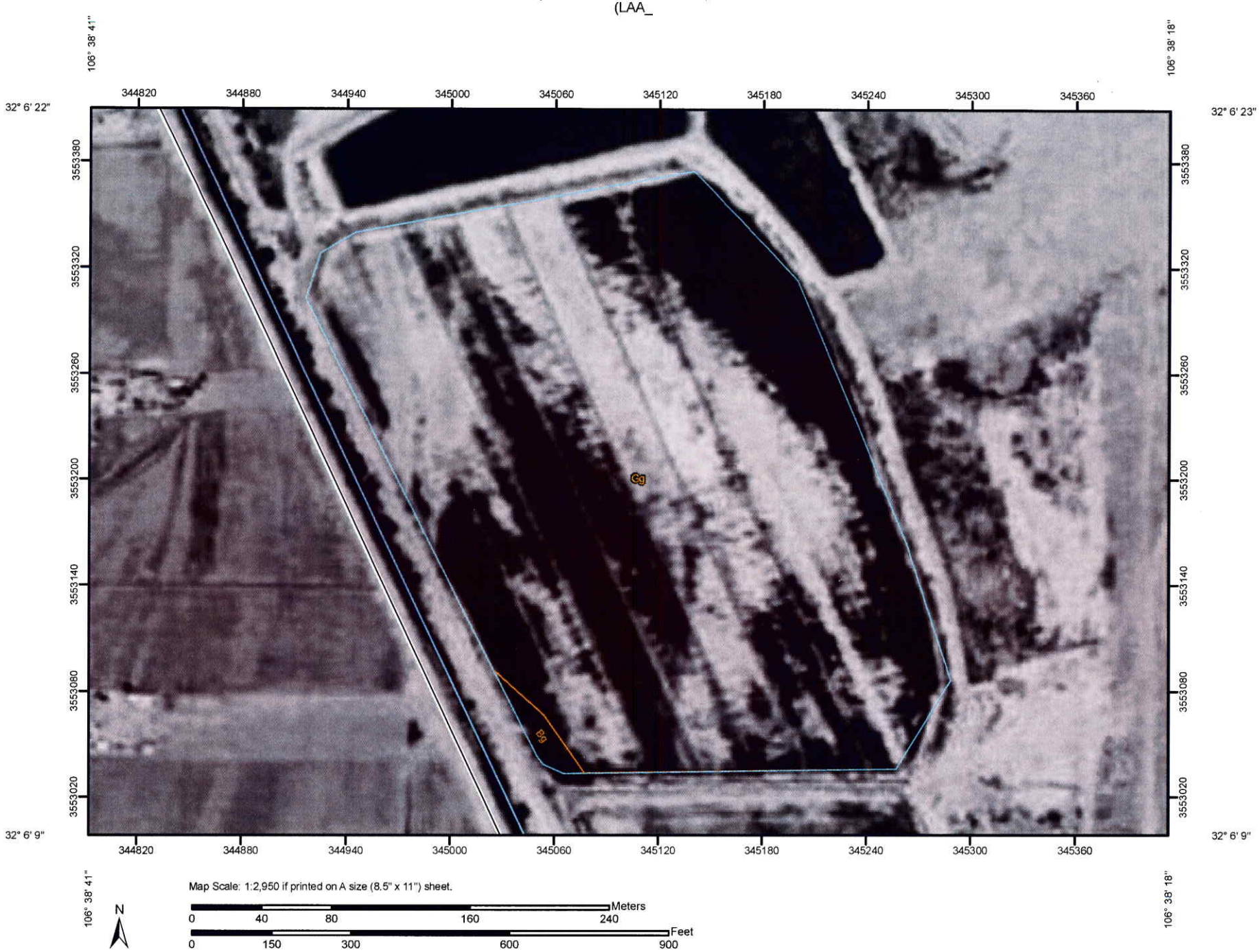
| Title: RIVER VALLEY DP-170 SITE RELATIONSHIP TO RIVER | | |
|---|---|---|
| Date: 12/2/09 | DWG/Doc Ref 1"=2000' | Sheet No 1/1 |

Soil Map—Dona Ana Co Area, New Mexico
(LAA_



## MAP LEGEND

**Area of Interest (AOI)**

- Area of Interest (AOI)

**Soils**

- Soil Map Units

**Special Point Features**

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

**Special Line Features**

- Gully
- Short Steep Slope
- Other

**Political Features**

- Cities

**Water Features**

- Oceans
- Streams and Canals

**Transportation**

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

## MAP INFORMATION

Map Scale: 1:2,950 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dona Ana County Area, New Mexico
Survey Area Data: Version 10, Sep 24, 2009

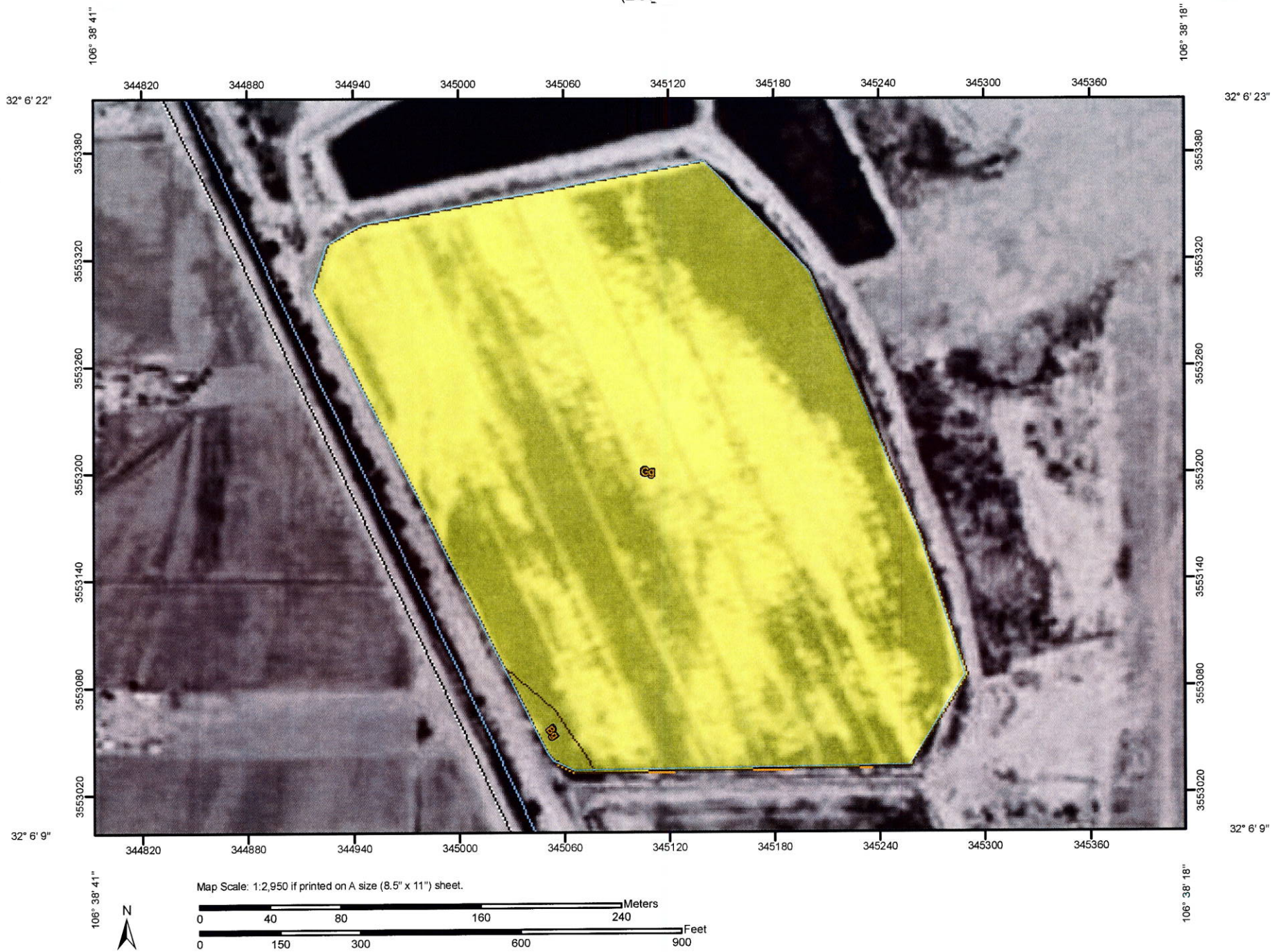
Date(s) aerial images were photographed: 3/9/1996

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

| Dona Ana County Area, New Mexico (NM690) | | | |
|---|---|---|---|
| **Map Unit Symbol** | **Map Unit Name** | **Acres in AOI** | **Percent of AOI** |
| Bg | Belen clay | 0.2 | 0.9% |
| Gg | Glendale clay loam, alkali | 21.0 | 99.1% |
| **Totals for Area of Interest** | | **21.2** | **100.0%** |

Drainage Class—Dona Ana nty Area, New Mexico
(LAA_




USDA Natural Resources Conservation Service

Web Soil Survey
National Cooperative Soil Survey

## MAP LEGEND

**Area of Interest (AOI)**

- Area of Interest (AOI)

**Soils**

- Soil Map Units

**Soil Ratings**

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Not rated or not available

**Political Features**

- Cities

**Water Features**

- Oceans
- Streams and Canals

**Transportation**

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

## MAP INFORMATION

Map Scale: 1:2,950 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dona Ana County Area, New Mexico
Survey Area Data: Version 10, Sep 24, 2009

Date(s) aerial images were photographed: 3/9/1996

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Drainage Class

| Drainage Class— Summary by Map Unit — Dona Ana County Area, New Mexico | | | | |
|---|---|---|---|---|
| **Map unit symbol** | **Map unit name** | **Rating** | **Acres in AOI** | **Percent of AOI** |
| Bg | Belen clay | Well drained | 0.2 | 0.9% |
| Gg | Glendale clay loam, alkali | Well drained | 21.0 | 99.1% |
| **Totals for Area of Interest** | | | **21.2** | **100.0%** |

## Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* *None Specified*

*Tie-break Rule:* Higher

# Hydrologic Soil Group

| Hydrologic Soil Group— Summary by Map Unit — Dona Ana County Area, New Mexico | | | | |
|---|---|---|---|---|
| **Map unit symbol** | **Map unit name** | **Rating** | **Acres in AOI** | **Percent of AOI** |
| Bg | Belen clay | D | 0.2 | 0.9% |
| Gg | Glendale clay loam, alkali | B | 21.0 | 99.1% |
| **Totals for Area of Interest** | | | **21.2** | **100.0%** |

## Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff: None Specified*

Soil Map—Dona Ana County Area, New Mexico
(LAA-B)

## MAP LEGEND

**Area of Interest (AOI)**

Area of Interest (AOI)

**Soils**

Soil Map Units

**Special Point Features**

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

**Special Line Features**

Gully

Short Steep Slope

Other

**Political Features**

Cities

**Water Features**

Oceans

Streams and Canals

**Transportation**

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

## MAP INFORMATION

Map Scale: 1:3,340 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dona Ana County Area, New Mexico
Survey Area Data: Version 10, Sep 24, 2009

Date(s) aerial images were photographed: 3/9/1996

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

| Dona Ana County Area, New Mexico (NM690) | | | |
|---|---|---|---|
| **Map Unit Symbol** | **Map Unit Name** | **Acres in AOI** | **Percent of AOI** |
| Ao | Anapra clay loam | 0.4 | 1.4% |
| Bg | Belen clay | 0.0 | 0.0% |
| Bn | Bluepoint loamy sand, 5 to 15 percent slopes | 0.2 | 0.7% |
| Gf | Glendale clay loam | 28.1 | 88.5% |
| Gg | Glendale clay loam, alkali | 2.7 | 8.6% |
| Hg | Harkey loam | 0.3 | 0.8% |
| **Totals for Area of Interest** | | **31.8** | **100.0%** |

Drainage Class—Dona Ana County Area, New Mexico
(LAA-B)

## MAP LEGEND

**Area of Interest (AOI)**

Area of Interest (AOI)

**Soils**

Soil Map Units

**Soil Ratings**

Excessively drained

Somewhat excessively drained

Well drained

Moderately well drained

Somewhat poorly drained

Poorly drained

Very poorly drained

Not rated or not available

**Political Features**

Cities

**Water Features**

Oceans

Streams and Canals

**Transportation**

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

## MAP INFORMATION

Map Scale: 1:3,340 if printed on A size (8.5" × 11") sheet.

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Date(s) aerial images were photographed: 3/9/1996

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# Drainage Class

| Drainage Class— Summary by Map Unit — Dona Ana County Area, New Mexico | | | | |
|---|---|---|---|---|
| **Map unit symbol** | **Map unit name** | **Rating** | **Acres in AOI** | **Percent of AOI** |
| Ao | Anapra clay loam | Well drained | 0.4 | 1.4% |
| Bg | Belen clay | Well drained | 0.0 | 0.0% |
| Bn | Bluepoint loamy sand, 5 to 15 percent slopes | Somewhat excessively drained | 0.2 | 0.7% |
| Gf | Glendale clay loam | Well drained | 28.1 | 88.5% |
| Gg | Glendale clay loam, alkali | Well drained | 2.7 | 8.6% |
| Hg | Harkey loam | Well drained | 0.3 | 0.8% |
| **Totals for Area of Interest** | | | **31.8** | **100.0%** |

## Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* *None Specified*

*Tie-break Rule:* Higher

# Drainage Class

| Drainage Class— Summary by Map Unit — Dona Ana County Area, New Mexico | | | | |
|---|---|---|---|---|
| **Map unit symbol** | **Map unit name** | **Rating** | **Acres in AOI** | **Percent of AOI** |
| Ao | Anapra clay loam | Well drained | 0.4 | 1.4% |
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| Gf | Glendale clay loam | Well drained | 28.1 | 88.5% |
| Gg | Glendale clay loam, alkali | Well drained | 2.7 | 8.6% |
| Hg | Harkey loam | Well drained | 0.3 | 0.8% |
| **Totals for Area of Interest** | | | **31.8** | **100.0%** |

## Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* *None Specified*

*Tie-break Rule:* Higher