

TECHNICAL NOTES

U.S. DEPARTMENT OF AGRICULTURE

UTAH

NATURAL RESOURCES CONSERVATION SERVICE

February 6, 2013

ECS - GENERAL - TECHNICAL NOTE UT UT190-13-2
190-VI

SUBJECT: PLAN MAP STANDARDIZATION

Purpose. To transmit information on ensuring Conservation Plan Maps meet or exceed customer expectations.

Effective Date. Upon receipt.

Contents of Technical Note.

Conservation Plan Maps delivered to our customers need to meet the National Planning Procedures Handbook (NPPH), Section 600.3 Guidelines as a Minimum Standard. Identifying everything on one map gets too busy, so there is a need for multiple types of customer maps. The maps should be the best product possible for our clients. If we do a good job on the maps, they can become a key focal point for our clients to consider alternatives, plan conservation application strategies, and symbolize the pride they feel for their land and stewardship.

Map Size

Before Toolkit, Conservation Plan maps larger than 11"x17" were common. The appropriate map size will depend on the size and contiguity of the customer's operation. If the customer has multiple parcels spread across the county, it would be best to make one location map and multiple smaller maps focusing on the individual parcels or groups of parcels. If the customer's operation consists of multiple adjacent parcels it would be better to use one large map with a standard scale such as 1:24,000. The appropriate scale to use will depend on the number and size of planned practices, soil map units, or other details that need to be displayed. Do not be afraid to use plotters to print large map products for our customers.

Map Titles and Map Types

Conservation Plan Map – Typically an aerial image background, but may have a topographic map background if appropriate. The following must be included. Toolkit will auto-populate most of this information but the user will have to add some information manually.

Title block showing:

- Map title "Conservation Plan Map"
- Name of the conservation district, county, and state
- Scale of the map and/or scale bar
- Data needed to locate the specific land unit, such as section numbers, etc.
- Date prepared
- North arrow
- Legal description (brief or abbreviated)
- Total acres
- Agency doing the planning assistance (NRCS, UACD, GIP, etc.)
- Planner name
- Customer name
- Field office

Source: National Planning Procedures Handbook (NPPH), Section 600.3

Body of map with:

- Property boundary lines of the planning unit outlined (Verified and corrected CLU by producer working with FSA or another layer such as Parcels)
- Field boundaries (ie. fences, natural barriers, etc.)
- Appropriate map symbols and a map symbol legend on the map or as an attachment using NRCS map symbols
- Field labels - Try to use labels that the customer commonly uses for their operation. Ensure that numbers are consistent across all maps, contracts, inventory, etc.
 - Land use and acres for each land unit correlating to client land use in the case file
- Location of all planned and applied practices, regardless of program funding.

Common Map Scales

1:63,360 - 1 inch equals 1 mile
1:50,000
1:31,680 - 4 inches equals 1 mile
1:24,000
1:12,000
1:7,920 - 8 inches equals 1 mile

The smaller the number on the bottom of the map scale, the more detailed the map will be. A 1:10,000 map will show objects ten times as large as a 1:100,000 map but will only show 1/10th the land area on the same sized piece of paper.

Soils Map – 1:12,000 or smaller scale map (larger denominator) showing soil types on an aerial image background, or use the same scale as the conservation plan map.

Ecological Site Map (Range and Forest land only) – shows ecological sites observed during field inventory. Use the same scale as the conservation plan map. Typically has an aerial image background. Accompanies a summary of acres of each site by pasture.

Contract Map – Shows all fields in contract and all practices with contract item numbers.

Section 106 Map – 1:24,000 scale topographic map background, no aerial image is needed. Shows area of potential

effect, location of any archaeology site, and legal description – township, range, section.

Resource Inventory Map – locations of existing conditions, infrastructure and areas with existing resource concerns. Typically hand drawn or handwritten notes on an image or topo map background. Used in the field during the inventory process, typically not presented to the client but is retained in the conservation plan folder (NRCS copy).

Location Map – Shows where the property is generally located and/or directions.

Filing Instructions. File in the Technical Notes notebook under ECS – General.

Contacts.

Dave Varner, State Technology Specialist, at 435-637-0041 x101 or Dave.Varner@ut.usda.gov.

Ryan Pierce, GIS Specialist, at 801-524-4304 or Ryan.Pierce@ut.usda.gov.



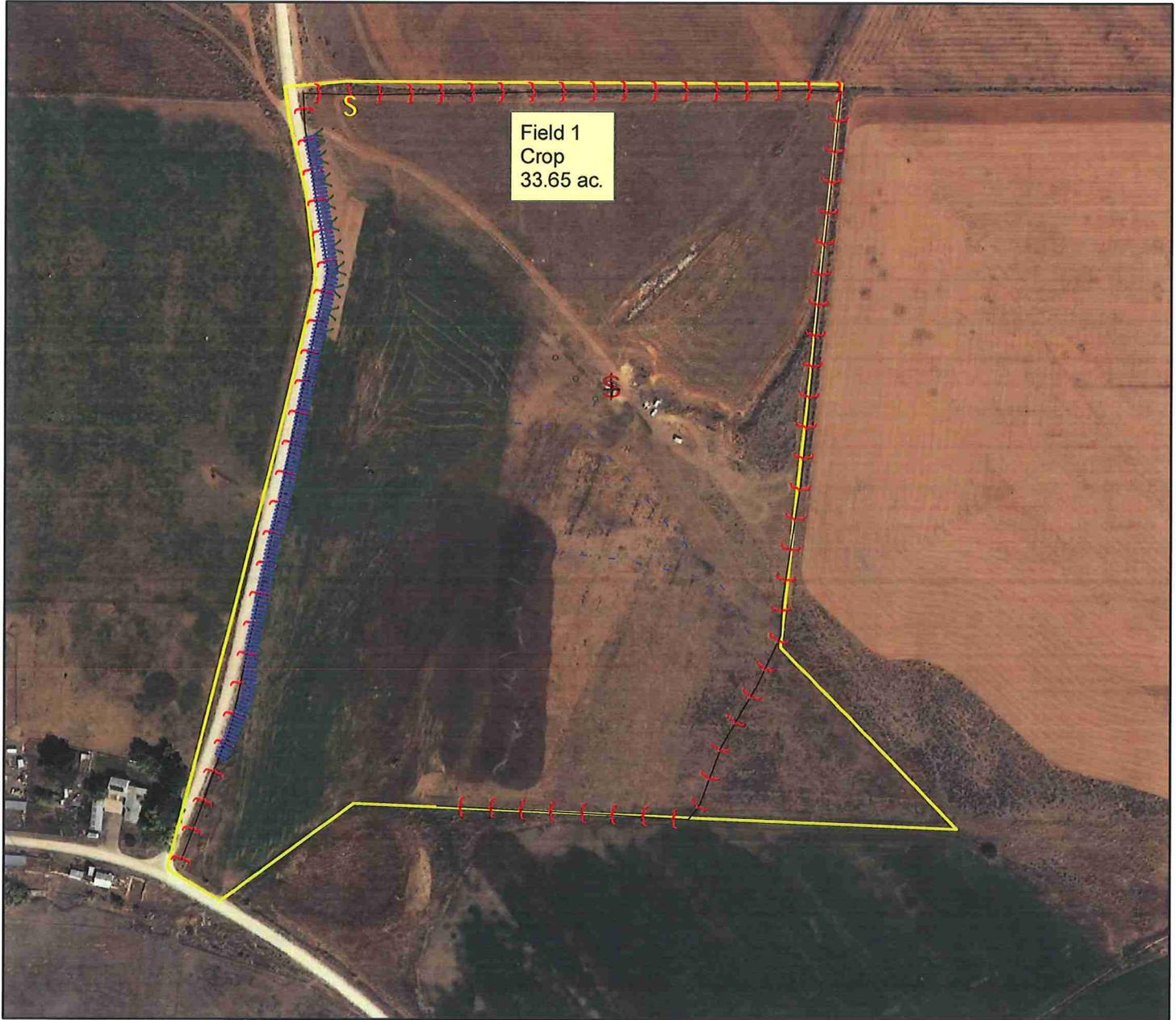
DAVID C. BROWN
State Conservationist

Conservation Plan Map

Date: 1/16/2013

Customer(s): NIELS PETER HANSEN
 District: Sanpete, Utah
 Approximate Acres: 33.65
 Legal Description: Section 36, T13S, R2E

Field Office: MANTI FIELD OFFICE
 Agency: NRCS
 Assisted By: RYAN PIERCE
 Office: Manti
 Land Units: 1



□ Consplan

LINETYPE

— Fence

— Filtershed

Practice name

S Windmill

Practices (lines)

Practice name

|||| Grassed Waterway

v Hedgerow Planting

— Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, Plastic

o Livestock Pipeline



1:3,284

Soils Map

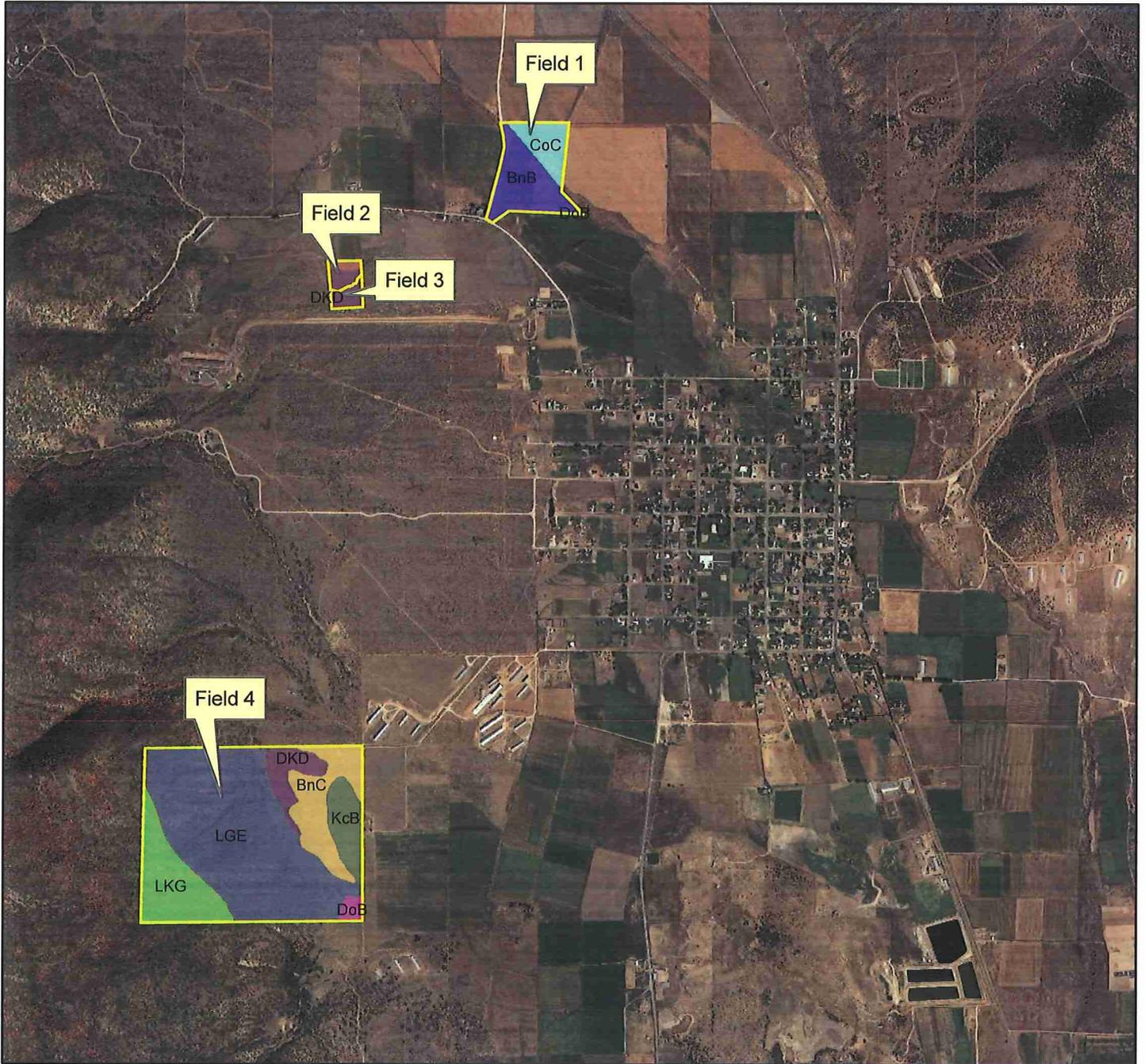
Date: 1/16/2013

Customer(s): NIELS PETER HANSEN

Field Office: MANTI FIELD OFFICE

Agency: NRCS

Assisted By: RYAN PIERCE



Legend

- | | |
|-----------------------|-----|
| Consplan | CoC |
| soils_map_out1 | DKD |
| MUSYM | DoB |
| BnB | KcB |
| BnC | LGE |
| BoB | LKG |

1:26,315



Ecological Site Map

Date: 1/12/2013

Customer(s): NIELS PETER HANSEN

Approximate Acres: 241.35

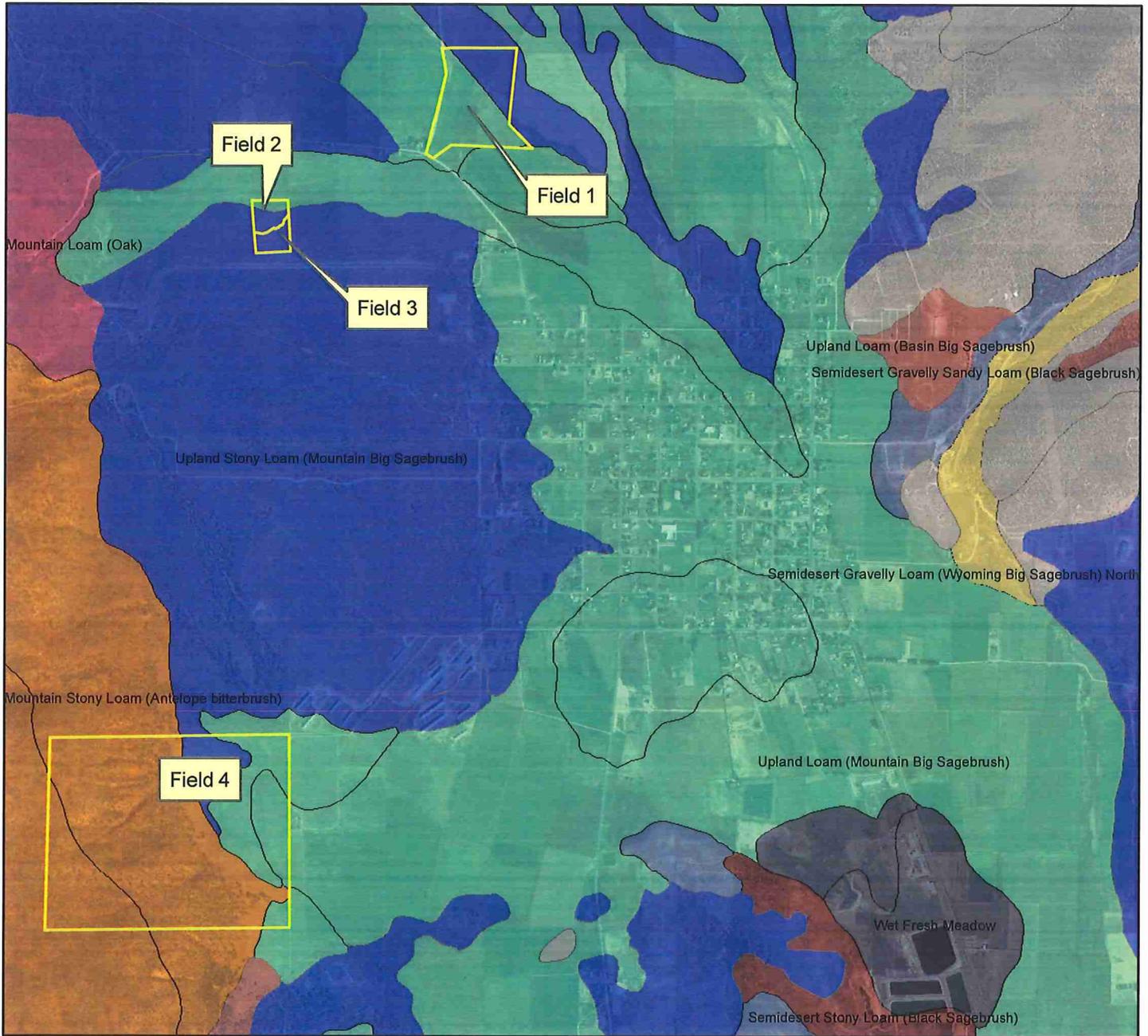
Legal Description: Section 11, T14S, R2E
and Section 36, T13S, R2E

Field Office: MANTI FIELD OFFICE

Agency: NRCS

Assisted By: RYAN PIERCE

MLRA: 28A



Legend

Conspian

Ecological Site Name

(NRCS Rangeland Site), {DCD, <}>

<Null>

Mountain Loam (Oak)

Mountain Stony Loam (Antelope bitterbrush)

Semidesert Gravelly Loam (Wyoming Big Sagebrush) North

Semidesert Gravelly Sandy Loam (Black Sagebrush)

Semidesert Stony Loam (Black Sagebrush)

Upland Loam (Basin Big Sagebrush)

Upland Loam (Mountain Big Sagebrush)

Upland Stony Loam (Pinyon-Utah Juniper)

Upland Stony Loam (Mountain Big Sagebrush)

Wet Fresh Meadow



1:24,000

Eco Site Table

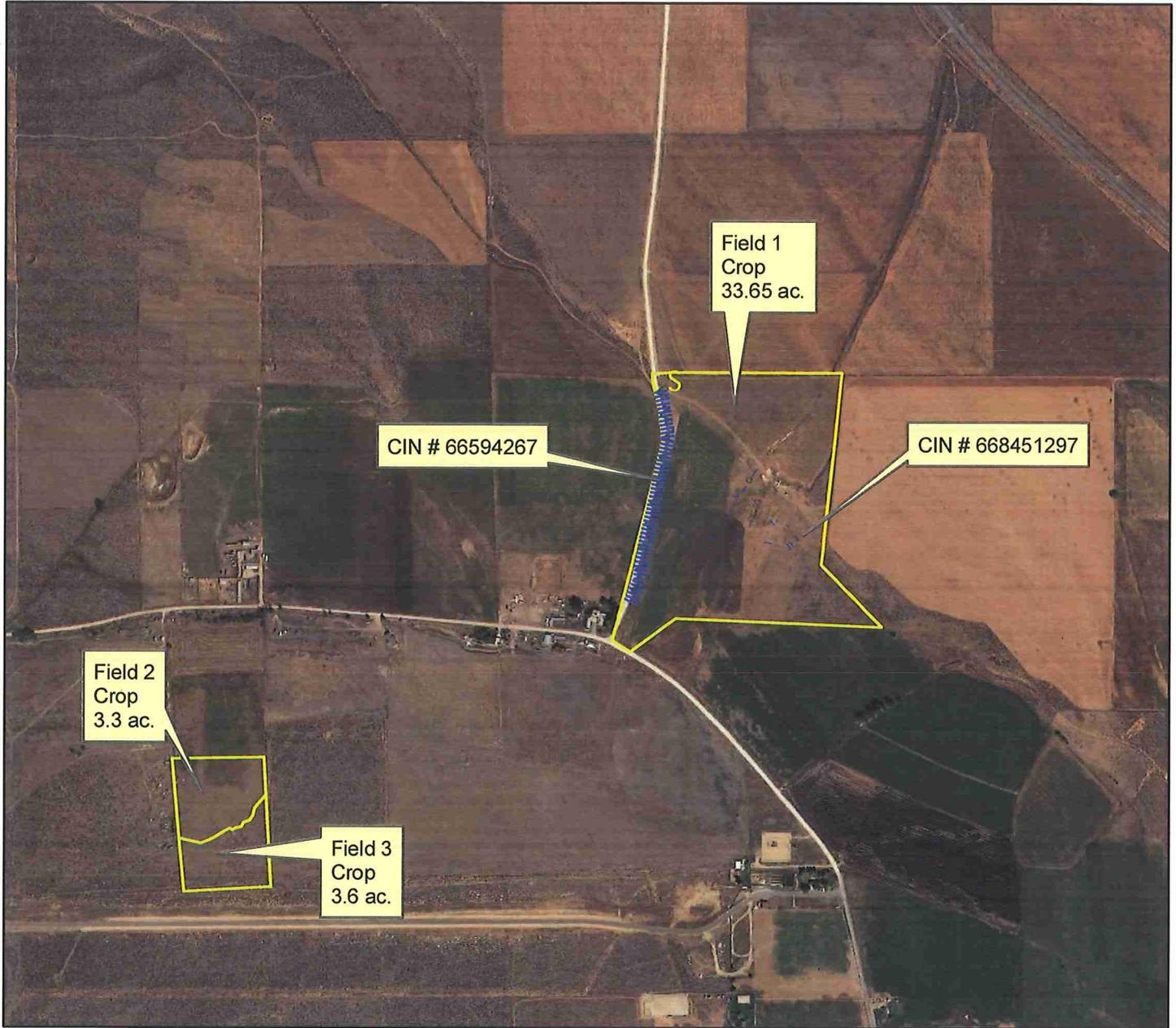
Land Unit	Eco Site Name	Acres
1	Upland Loam (Mountain Big Sagebrush)	22.22
1	Upland Stony Loam (Mountain Big Sagebrush)	10.82
2	Upland Loam (Mountain Big Sagebrush)	1.48
2	Upland Stony Loam (Mountain Big Sagebrush)	2.89
3	Upland Stony Loam (Mountain Big Sagebrush)	3.62
4	Mountain Stony Loam (Antelope bitterbrush)	145.59
4	Upland Loam (Mountain Big Sagebrush)	43.4
4	Upland Stony Loam (Mountain Big Sagebrush)	11.79

Contract Map

Date: 1/16/2013

Customer(s): NIELS PETER HANSEN
 Approximate Acres: 40.55
 Legal Description: Section 36, T13S, R2E
 Contract Number: 66874951

Field Office: MANTI FIELD OFFICE
 Agency: NRCS
 Assisted By: RYAN PIERCE
 Land Units: Field 1,2,3



Consplan

Practices (lines)

Practice name

Practice name

Windmill

Grassed Waterway

Hedgerow Planting

Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, Plastic

Livestock Pipeline



1:9,713



Section 106 Map

Date: 1/16/2013

Customer(s): NIELS PETER HANSEN

Approximate Acres: 197

Legal Description: Section 11, T14S, R2E
and Section 36, T13S, R2E

Field Office: MANTI FIELD OFFICE

Agency: NRCS

Assisted By: RYAN PIERCE

Scale: 1:24,000



Basemaps taken from the Fountain Green North SE and Fountain Green South NE, Utah USGS 7.5 minute series topographic quadrangles



Legend

 Consplan

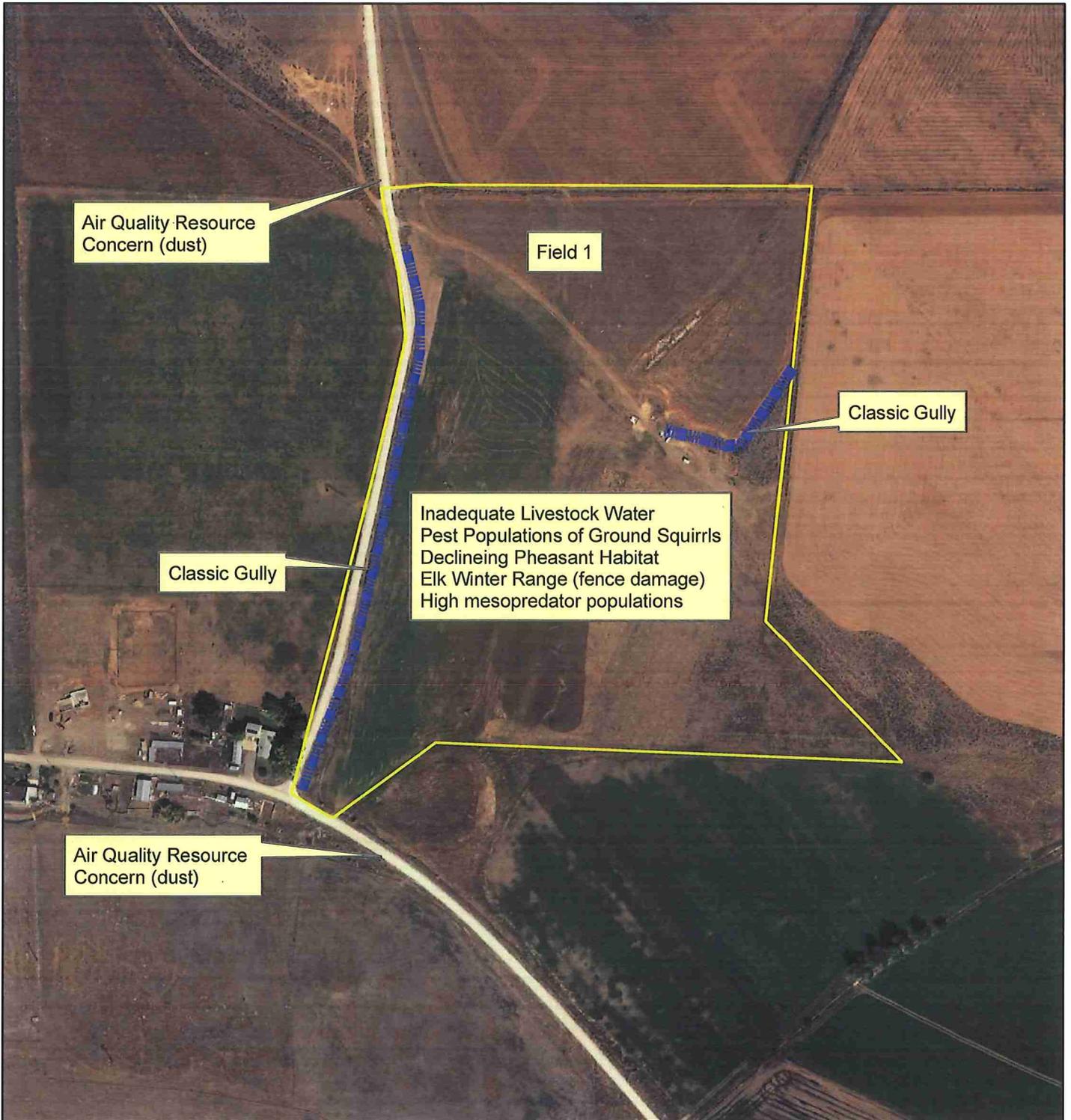


Resource Inventory Map

Date: 1/16/2013

Customer(s): NIELS PETER HANSEN

Field Office: MANTI FIELD OFFICE
Agency: NRCS
Assisted By: RYAN PIERCE



Legend

 Consplan

1:3,938



Location Map

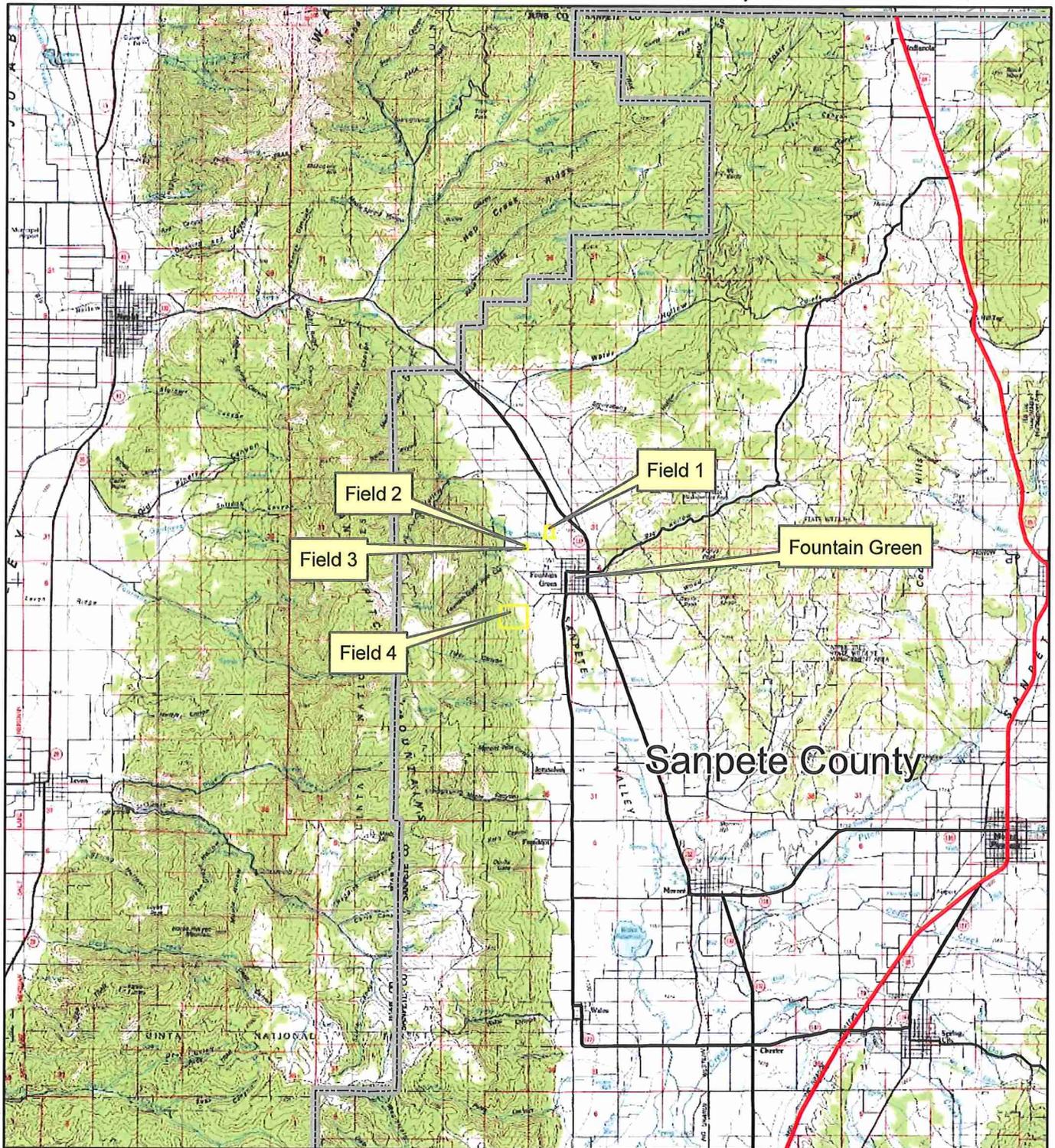
Date: 11/6/2013

Customer(s): NIELS PETER HANSEN

Field Office: MANTI FIELD OFFICE

Agency: NRCS

Assisted By: RYAN PIERCE



 Consplan  cnty24k_dm_a_ut039

highway_dm_l_ut039

NAME

1:200,000

 US Highways

 State Highways

 Major Roads

