

Water Committee Meeting
Tuesday, December 2, 2025 4:00 PM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. UNFINISHED BUSINESS

2. REGULATORY

2.A. GROUND WATER MANAGEMENT AREA

2.A.1. Well Permit Program

2.A.2. Well Permit Request in the Non-Hydrologically Connected Area (Normal Development Area)

Bryan Hein received an approved variance to apply for a well permit in the SE SE Section 17-15N-3E, Butler County. A condition on the variance was a test hole requirement before issuing a well permit. The test hole information is attached, showing sand and gravel from 311 to 376 feet with more gravel below that with a couple of clay layers down to 412 feet. The static water level is around 200 feet as shown by 3 wells monitored by the LPNNRD.

The Committee discussed conditions that should be met and encouraged Bryan to communicate with his neighbor. Bryan plans on installing soil moisture sensors to assist in irrigation management.

2.A.3. Well Permit Request in the Restricted Development Areas

Greg Fujan received an approved variance allowing him to drill test holes before issuing a well permit. This variance was allowed to move forward because it was within 1 mile of the Non-Hydrologically Connected Area (White). Attached is a map with the 3 sites utilized for geological information. Site 1, red gravel was found between 55–85 feet, with more gravel found between 100–109 with clay layers in between. Site 2 gravel and sand were found between 52–63 with harder rock afterward. Site 3 showed red gravel from 60 to 100 feet. The static water level is around 35 feet with a graph showing information from a LPNNRD water quantity monitoring well.

Mark and Joyce Olsson presented a letter to the Committee for review on this well location. The Committee and staff answered the questions but still wanted to make sure the Committee understood that their domestic well in past years had sufficient water and wanted to continue without issues. (Letter is attached) The Committee encouraged Greg to communicate with his neighbors.

2.A.4. Well Permit Request in the Restricted Development Areas

Larry Rasmussen received an approved variance in 2024 allowing him to drill test holes before issuing a well permit. An extension was granted to Larry until

February 2026 to allow him to utilize Ttem information. This variance was allowed to move forward because it was within 1 mile of the Hydrologically Connected Area (Blue). Attached is a report from the Ttem showing the location of a potential location for a well. A 4th test hole was drilled showing sand and gravel from 50 to 75 feet. By the test hole report, the water level was around 41 feet. The static water level shown by the graphs from LPNNRD water quantity monitoring wells is around 60 feet.

Stuart from AWS well drilling explained the results of the Ttem analysis and drilled a test hole from the report and found better water-bearing material compared to 3 previous test holes. The committee recommended Larry to communicate with his neighbors.

2.A.5. Special Quantity Subareas

September and October Invoices for \$20,509.50 are attached for the SQS evaluation contract.

Discussion is needed for the SQS area from the LRE presentation. The deadline for changing allocations is December 15.

The Committee directed staff to redraw new boundaries for the SQS #2 area with a 1-mile buffer for the next Water Committee Meeting. Rules and Regulations on allocations, new wells and acre expansion will be discussed at this Committee Meeting. The Committee encouraged staff to reach out to producers in this area to attend.

2.A.6. Cost Share Programs

2.A.6.a. Nitrogen Reduction Program

The deadline for this program has been extended to December 15, 2025. As of this time, we have 7 producers signed up for 3500 acres. Staff has been collecting data from last year's participants, so payments can be paid if they qualify.

2.A.7. LPNNRD Operator Certification

Certification classes are set for the upcoming year. This class is required every 4 years for producers to be eligible for services from Lower Platte North NRD like variances, well permits and chemigation permits. The class has been updated from previous versions.

Dates and Locations:

- January 29, 1 pm at ENREEC, Ithaca
- February 4, 1 pm at Extension office, Fremont
- February 17, 10 am at Columbus Library, Columbus
- February 25, 1 pm at Lindsay Town Hall, Lindsay
- March 10, 6 pm at ENREEC, Ithaca

Online certification is available as an option.

2.A.8. Lower Platte River Basin Water Management Plan Coalition (LPRBC)

Annual dues of \$10,000 are attached per contract.

2.B. GROUND WATER ENERGY LEVELS

Fall water levels have been completed. Staff will be mailing out fall groundwater levels. The water levels in Fall 2025 rose 4.97 feet from Fall 2024 and Fall 2025 was 0.29 feet higher than in Spring 2025. 92 percent of the wells were higher in the fall of 2025 compared to fall of 2024.

2.C. GROUND WATER QUALITY SAMPLING

Staff has analyzed 2024 & 2025 water sampling efforts. Several maps are included below, representing the different contaminants sampled throughout the district.

Contaminants sampled

Nitrates

MCL: 10 mg/L

Health effects: Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.

Chloride

SMCL: 250 mg/L

Effects: Unpleasant salty taste. It can contribute to health issues like high blood pressure and sodium-restricted diets. Contributes to corrosion. Can indicate other contaminants are present such as lead, or bacteria.

Sodium

MCL: No MCL.

Health effects: Similar to Chloride. Levels above 50 mg/L can be detrimental to certain crops.

Uranium

MCL: 30 ug/L

Health effects: Increased risk of cancer, kidney toxicity.

Selenium

MCL: 0.05 mg/L or 50 ug/L

Health effects: Hair or fingernail loss; numbness in fingers or toes; circulatory problems.

3. GROUND WATER PROGRAMS

3.A. DECOMMISSIONED WELL PROGRAM

3.A.1. Well Estimates

One new well has been reviewed and approved for decommissioning since the last Committee meeting.

Well Owner	Type of Well	Cost Share Estimate	County
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John Wiese	Domestic	524.79	Madison

3.A.2. Plugged Wells

One well has been plugged, reviewed, and ready for cost share payment approval this month.

Well Owner	Type of Well	Cost Share Estimate	County
Roma Hutton	Irrigation	\$1,025.62	Saunders

3.B. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

3.B.1. Phase Area Update

The following invoices have been received for flow meter costshare:

- Mary Norton Trust for \$1,000.
- Clint Jedlicka for \$2,000.
- Dean Bell for \$2,000.

Received flow cost share applications for the following which will be approved.

- Nancy Killham — 2 flow meters for \$2,000.
- Mike Drinnin --- 1 flow meter for \$1,000.

3.C. SOURCE WATER PROTECTION

The Platte Center Source Water Protection Grant has been completed. Closing paperwork will be done shortly.

The Newman Grove Source Water Protection Grant is close to completion.

The Malmo Wellhead Protection Plan is in development. There was a meeting earlier today to develop the work plan.

3.C.1. NEWMAN GROVE WELL DECOMMISSIONING

The Newman Grove Source Water Protection Contract has the Lower Platte North NRD and DWEE obligated for cost-share on well decommissioning

within the Project Area. There were four wells decommissioned in the project area on October 31st, 2025.

The recommended motion is to pay for 50% of the well decommissioning costs for the Newman Grove Source Water Protection Contract pending proof of payment from the City of Newman Grove. This amount would come out to \$2,925.00 out of the total of \$5,850.

4. SURFACE WATER PROGRAMS

5. OTHER

The GMDA conference will be held in Roswell, NM on March 2–5, 2026.

5.A. COMMENTS FROM THE PUBLIC

Lower Platte North NRD (LPNNRD)

Variance Request Conditions for LPN-V-025-0657 for Bryan Hein Irrigation Well in SE1/4, Section 17, T15N, R3E of the David City Wellhead Protection Area.

- Variance will be reviewed annually and if this irrigation well is causing well interference with nearby well owners such as declining groundwater energy levels in the aquifer either during static or pumping conditions, the variance can be withdrawn as stated in the LPNNRD Groundwater Management Rules and Regulations.
- Well Permit will be reviewed annually and if this irrigation well is causing well interference with nearby well owners such as declining groundwater energy levels in the aquifer either during static or pumping conditions, the well permit can be suspended.
- Approved Lower Platte North NRD Flow meter must be properly installed according to manufactures specifications. In addition, installation must meet all the conditions as specified on the LPNNRD approved list of flow meters.
- Annual reporting of flow measurements submitted to the LPNNRD by December 15th every year.
- The well pump and irrigation system will be allowed to run anytime in any 24-hour period.
- Well owner agrees to install a small diameter tubing (~1 inch inside diameter) into the gravel pack of this well to within the bottom 10 feet of the well with screen.
- Well owner agrees to allow LPNNRD personnel access to this well during reasonable hours and to install monitoring equipment on this well. Monitoring equipment could be any hour meter or pressure transducer installed in the gravel pack tubing.
- Water Quality sample will be taken during pump test. Parameters to be measured are temperature, pH, conductivity, nitrate-nitrogen, and parameters to measure irrigation suitability.
- Domestic/stock well users need to contact well drillers/pump installers to determine if the irrigation well is causing conflict before other actions would be taken.

Signature by owner _____ Date _____

Signature by NRD Board Chairman _____ Date _____

Sargent Drilling
INDUSTRIAL ENGINEERING
COMPLETE MUNICIPAL AND INDUSTRIAL
WELL AND PUMP SERVICE

PO Box 367
 Geneva, NE 68361-0367

846 South 13th St.

Phone: (402) 759-3902
 1-888-496-3902

TEST HOLE LOG

CUSTOMER: Bryan Hein	
WELL ID:	
LOCATION: SE ¼ SE ¼, 17-T15N-R3E, Butler Co., NE	
LATITUDE: 41° 15' 52.38"	
LONGITUDE: 97° 6' 2.04"	
FOOTAGES: 59 feet from the South section line and 59 feet from the East section line.	
ELEVATION:	
DATE: 11-13-2025	DRILLED BY: Nathan/jk

<u>from feet</u>	<u>- to feet</u>	
0	3	Top soil
3	26	Tan clay
26	46	Blue clay
46	48	Blue and black clay
48	70	Blue clay
70	126	Brown clay
126	180	Sticky gray clay
180	200	Sticky gray clay with trace of cobbles
200	240	Sticky gray clay
240	311	Sticky gray clay with trace of sand and gravel streak
311	376	Fine to medium gravel and coarse sand
376	382	Gray clay
382	386	Fine gravel and coarse sand
386	390	Clay
390	400	Fine gravel and coarse sand
400	412	Medium gravel and coarse sand
412	420	Clay
420	435	Medium gravel and coarse sand with clay layers
435	440	Clay
440	460	Clay and shale with limestone layers

RegCD: G-106369A

Well #: NSAB

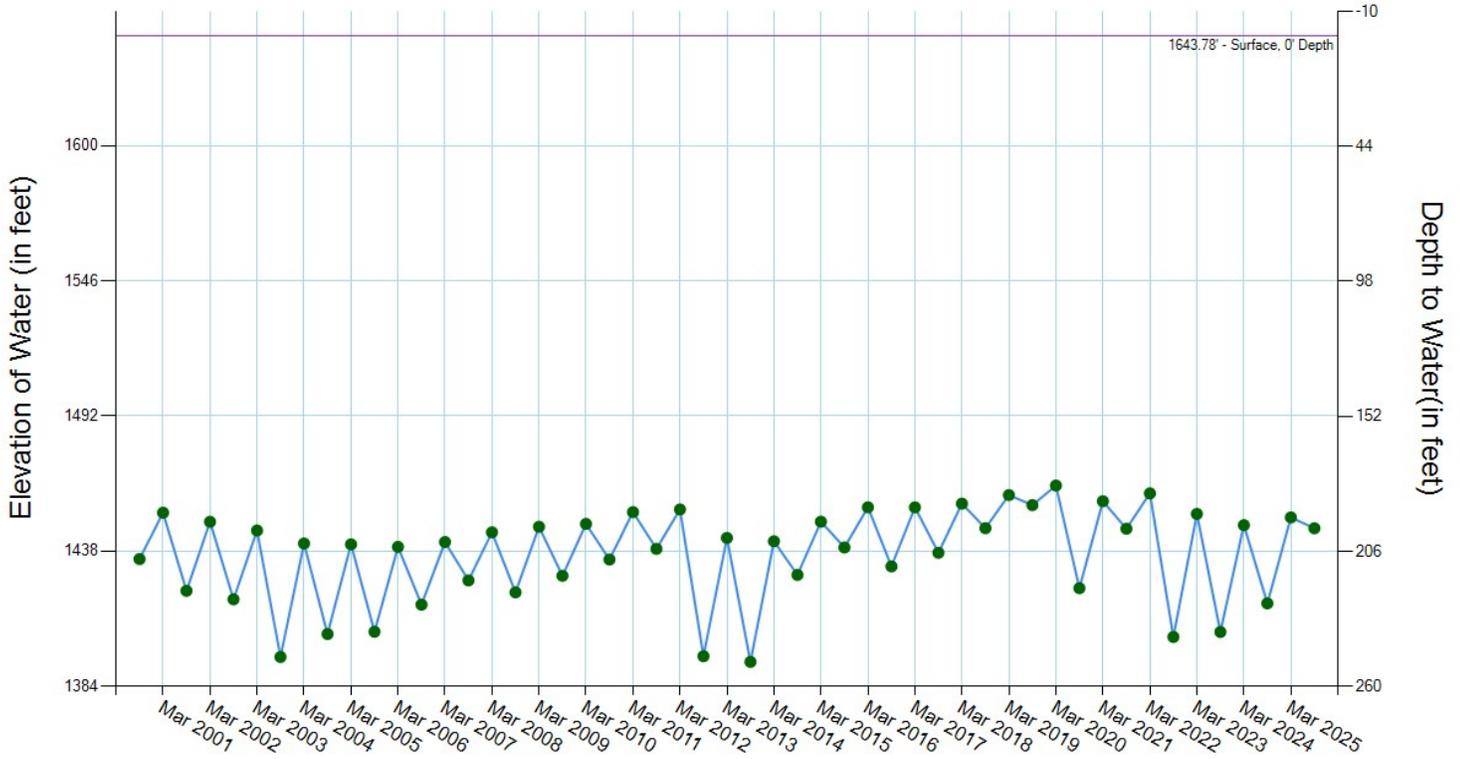
Region: Uplands

County: Butler

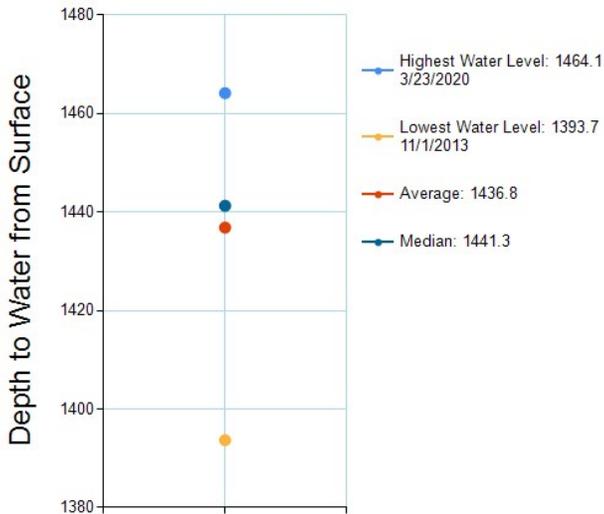
Legal: 15-3E-21

Owner Name: Gregory Sabata

Water Level Readings



Record Results



Historical Readings (date - reading)

11/01/2000 - 1434.8	03/01/2006 - 1416.5	03/01/2013 - 1443.2	10/21/2019 - 1456.3
11/01/2000 - 1434.8	03/01/2007 - 1441.6	11/01/2013 - 1393.7	03/23/2020 - 1464.1
03/01/2001 - 1453.3	11/01/2007 - 1426.2	03/01/2014 - 1441.9	10/19/2020 - 1423.1
11/01/2001 - 1422.1	03/01/2008 - 1445.4	11/01/2014 - 1428.4	03/29/2021 - 1457.9
03/01/2002 - 1449.7	11/01/2008 - 1421.5	03/01/2015 - 1449.7	10/20/2021 - 1446.9
11/01/2002 - 1418.7	03/01/2009 - 1447.7	11/01/2015 - 1439.4	03/18/2022 - 1461
03/01/2003 - 1446.2	11/01/2009 - 1428.1	03/01/2016 - 1455.4	10/17/2022 - 1403.6
11/01/2003 - 1395.6	03/01/2010 - 1448.8	11/01/2016 - 1431.8	03/23/2023 - 1452.8
03/01/2004 - 1441	11/01/2010 - 1434.6	03/01/2017 - 1455.4	10/23/2023 - 1405.6
11/01/2004 - 1404.8	03/01/2011 - 1453.5	11/01/2017 - 1437.3	03/19/2024 - 1448.3
03/01/2005 - 1440.7	11/01/2011 - 1438.9	03/21/2018 - 1456.9	10/21/2024 - 1417.1
11/01/2005 - 1405.7	03/01/2012 - 1454.6	10/18/2018 - 1447.1	03/24/2025 - 1451.4
03/01/2006 - 1439.6	11/01/2012 - 1395.9	03/25/2019 - 1460.3	11/04/2025 - 1447.1

RegCD: G-106369B

Well #: SSAB

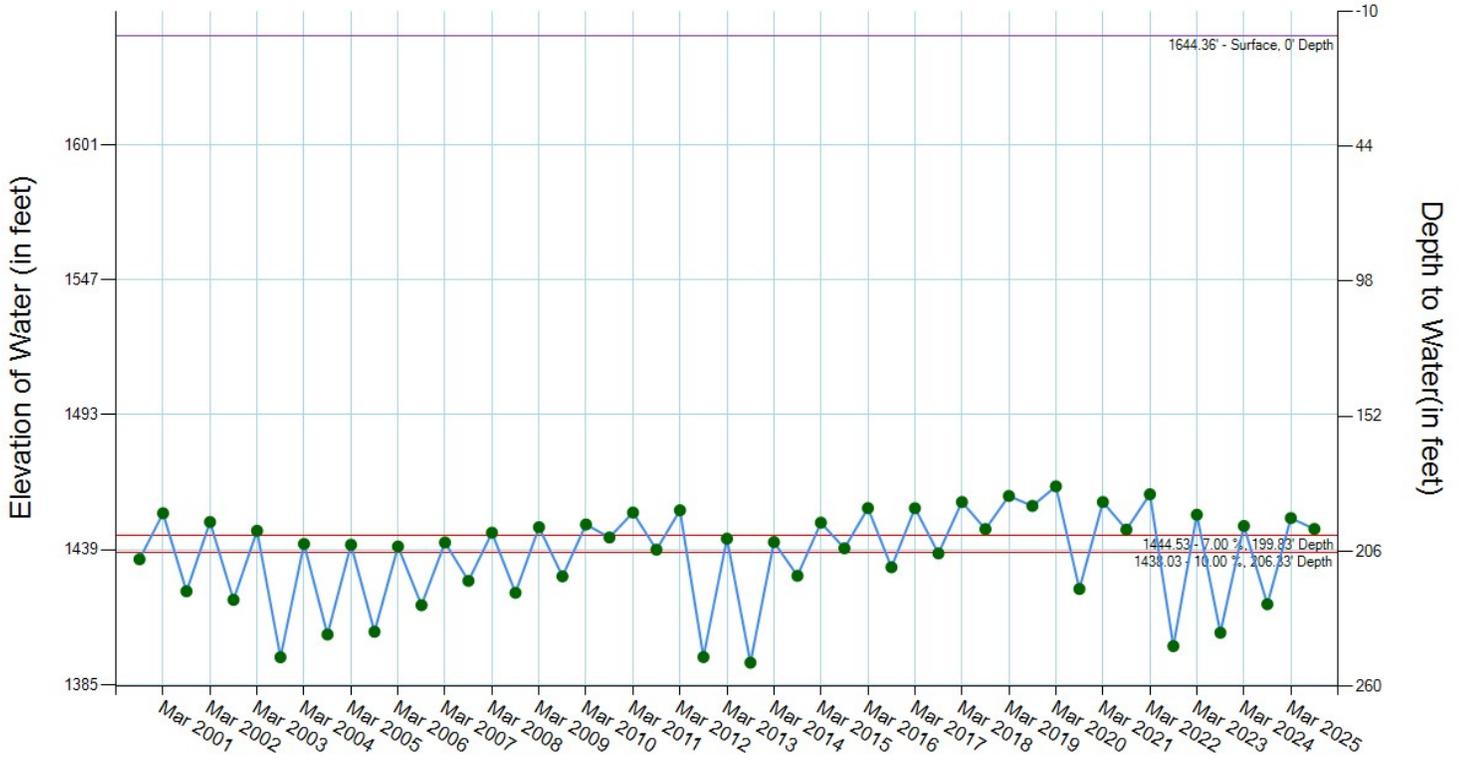
Region: Uplands

County: Butler

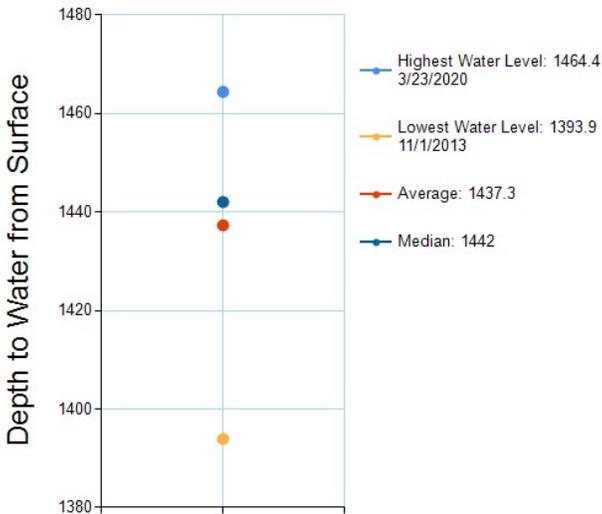
Legal: 15-3E-21

Owner Name: Gregory Sabata

Water Level Readings



Record Results



Historical Readings (date - reading)

11/01/2000 - 1435.3	11/01/2006 - 1416.9	03/01/2013 - 1443.5	10/21/2019 - 1456.6
11/01/2000 - 1435.3	03/01/2007 - 1442	11/01/2013 - 1393.9	03/23/2020 - 1464.4
03/01/2001 - 1453.7	11/01/2007 - 1426.6	03/01/2014 - 1442.1	10/19/2020 - 1423.4
11/01/2001 - 1422.5	03/01/2008 - 1445.9	11/01/2014 - 1428.7	03/29/2021 - 1458.1
03/01/2002 - 1450.2	11/01/2008 - 1421.9	03/01/2015 - 1449.9	10/20/2021 - 1447.1
11/01/2002 - 1419.1	03/01/2009 - 1448.1	11/01/2015 - 1439.6	03/18/2022 - 1461.2
03/01/2003 - 1446.7	11/01/2009 - 1428.4	03/01/2016 - 1455.7	10/17/2022 - 1400.5
11/01/2003 - 1396.1	03/01/2010 - 1449.2	11/01/2016 - 1432.1	03/23/2023 - 1453.1
03/01/2004 - 1441.4	11/01/2010 - 1444	03/01/2017 - 1455.7	10/23/2023 - 1405.9
11/01/2004 - 1405.2	03/01/2011 - 1453.9	11/01/2017 - 1437.6	03/19/2024 - 1448.6
03/01/2005 - 1441.1	11/01/2011 - 1439.1	03/21/2018 - 1458.1	10/21/2024 - 1417.3
11/01/2005 - 1406.3	03/01/2012 - 1454.8	10/18/2018 - 1447.3	03/24/2025 - 1451.7
03/01/2006 - 1440.4	11/01/2012 - 1396.1	03/25/2019 - 1460.6	11/05/2025 - 1447.4

RegCD: G-153268

Well #: DC-01

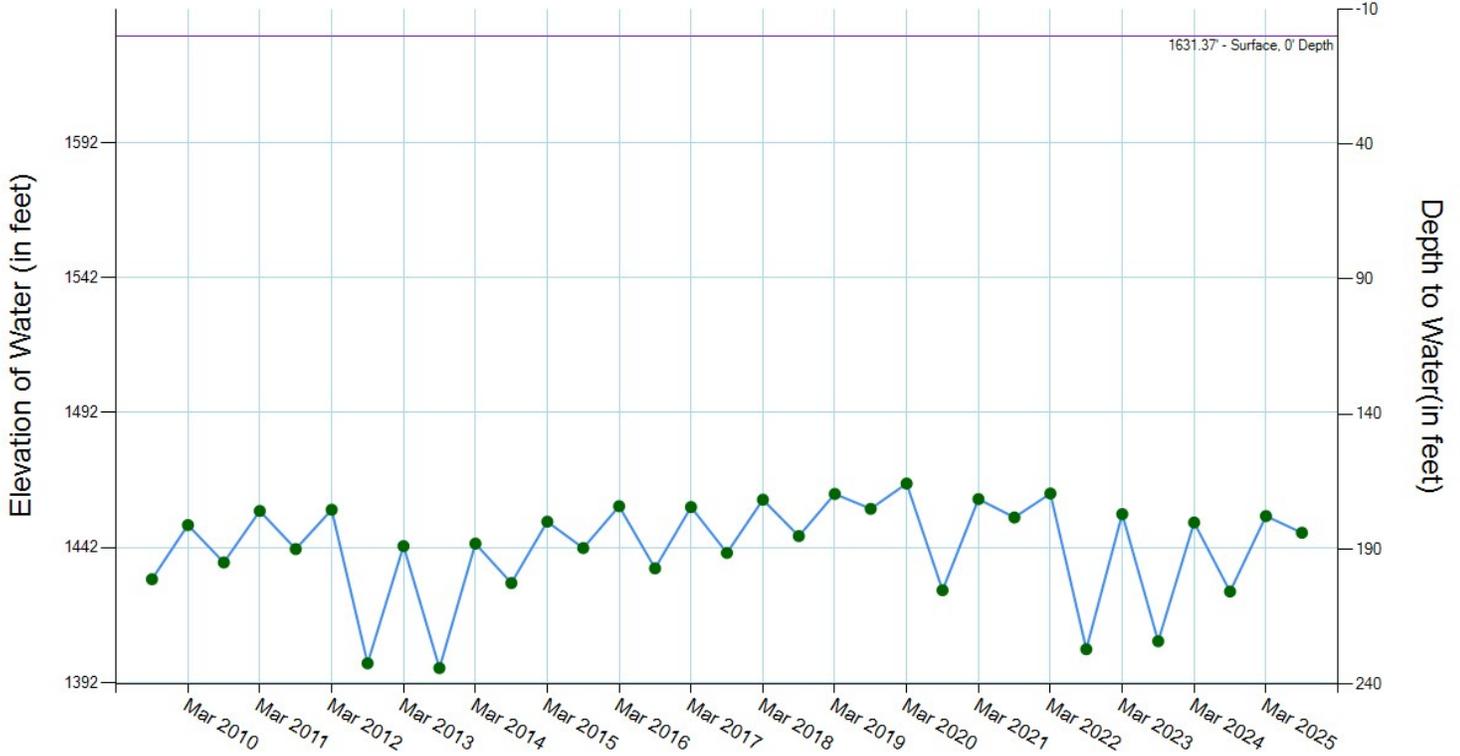
Region: Uplands

County: Butler

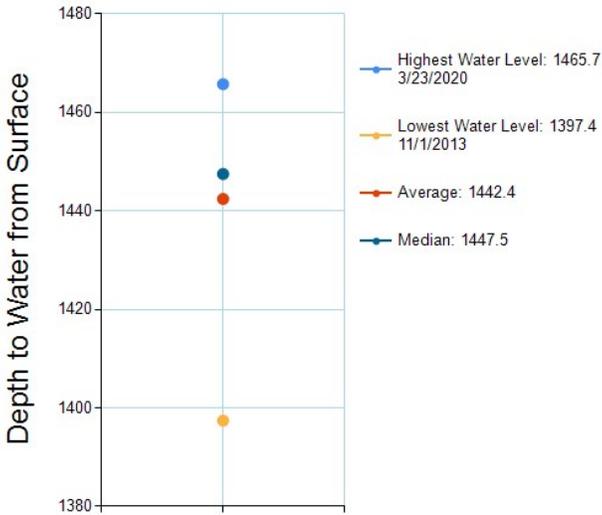
Legal: 15-3E-19

Owner Name: Lower Platte North Natural Resources District

Water Level Readings

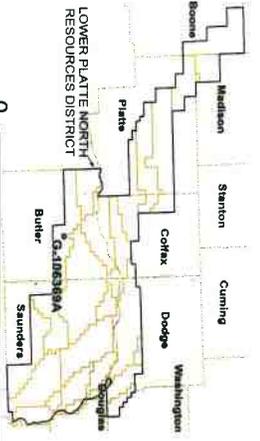


Record Results



Historical Readings (date - reading)

11/01/2009 - 1430.3	11/01/2013 - 1397.4	11/01/2017 - 1440	11/04/2021 - 1453.2
03/01/2010 - 1450.4	03/01/2014 - 1443.5	03/21/2018 - 1459.7	03/18/2022 - 1462
11/01/2010 - 1436.5	11/01/2014 - 1428.9	10/18/2018 - 1446.3	10/17/2022 - 1404.4
03/01/2011 - 1455.6	03/01/2015 - 1451.6	03/25/2019 - 1461.9	03/23/2023 - 1454.4
11/01/2011 - 1441.5	11/01/2015 - 1441.8	10/22/2019 - 1456.4	10/20/2023 - 1407.3
03/01/2012 - 1456	03/01/2016 - 1457.3	03/23/2020 - 1465.7	03/28/2024 - 1451.3
11/01/2012 - 1399.2	11/01/2016 - 1434.3	10/19/2020 - 1426.2	11/01/2024 - 1425.8
03/01/2013 - 1442.6	03/01/2017 - 1457	03/29/2021 - 1460	03/24/2025 - 1453.7
			10/20/2025 - 1447.5



LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

G-106369A/NSAB

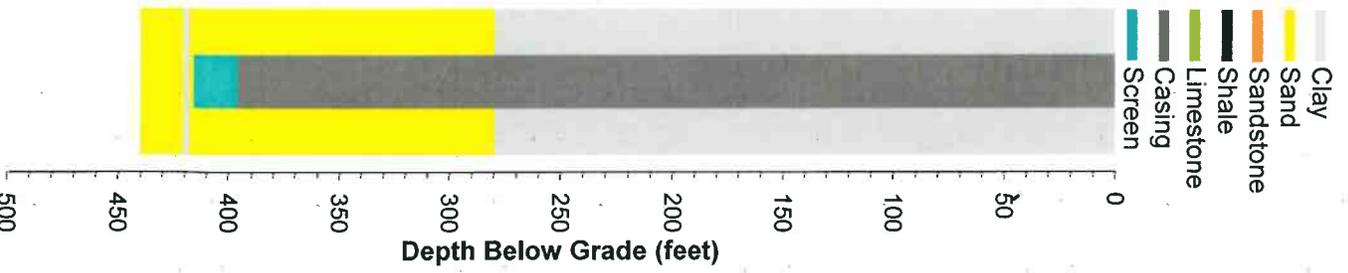
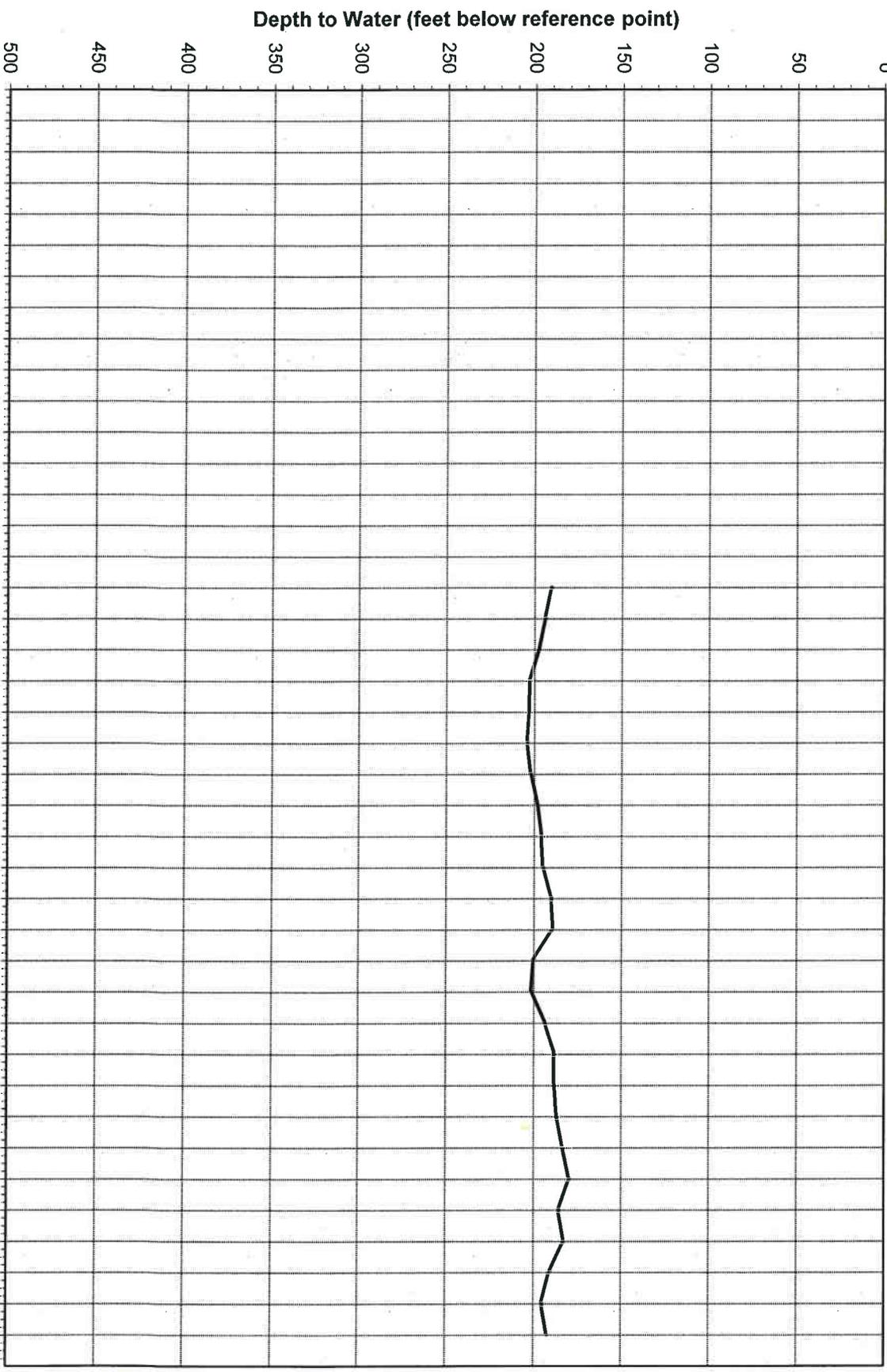
SUB AREA: DAVID CITY

SPRING LEVELS DEPTH TO WATER VS. TIME

SW 1/4, NE 1/4, SEC. 21, T15N, R3E

SPRING 1985 THROUGH SPRING 2025

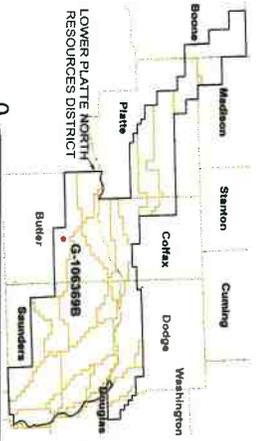
Well Depth: 416 ft
 Top of Screen: 396 ft
 Bottom of Screen: 416 ft
 High Capacity Wells Within 1-Mile Radius: 4



LOWER PLATTE NORTH
 Natural Resources District

Date





LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

G-106369B/SSAB

SUB AREA: DAVID CITY

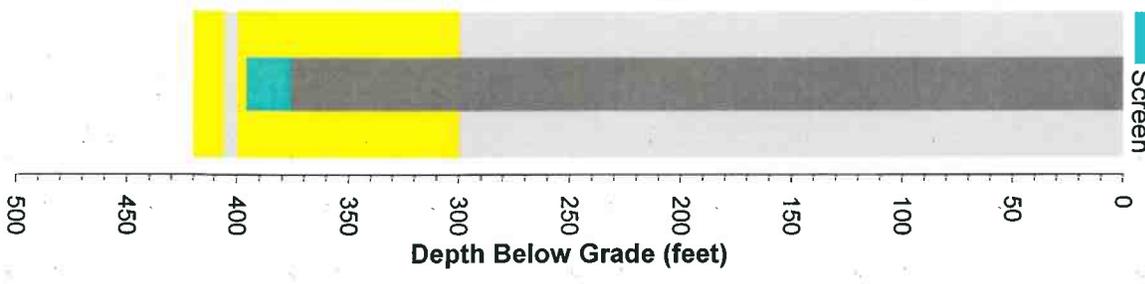
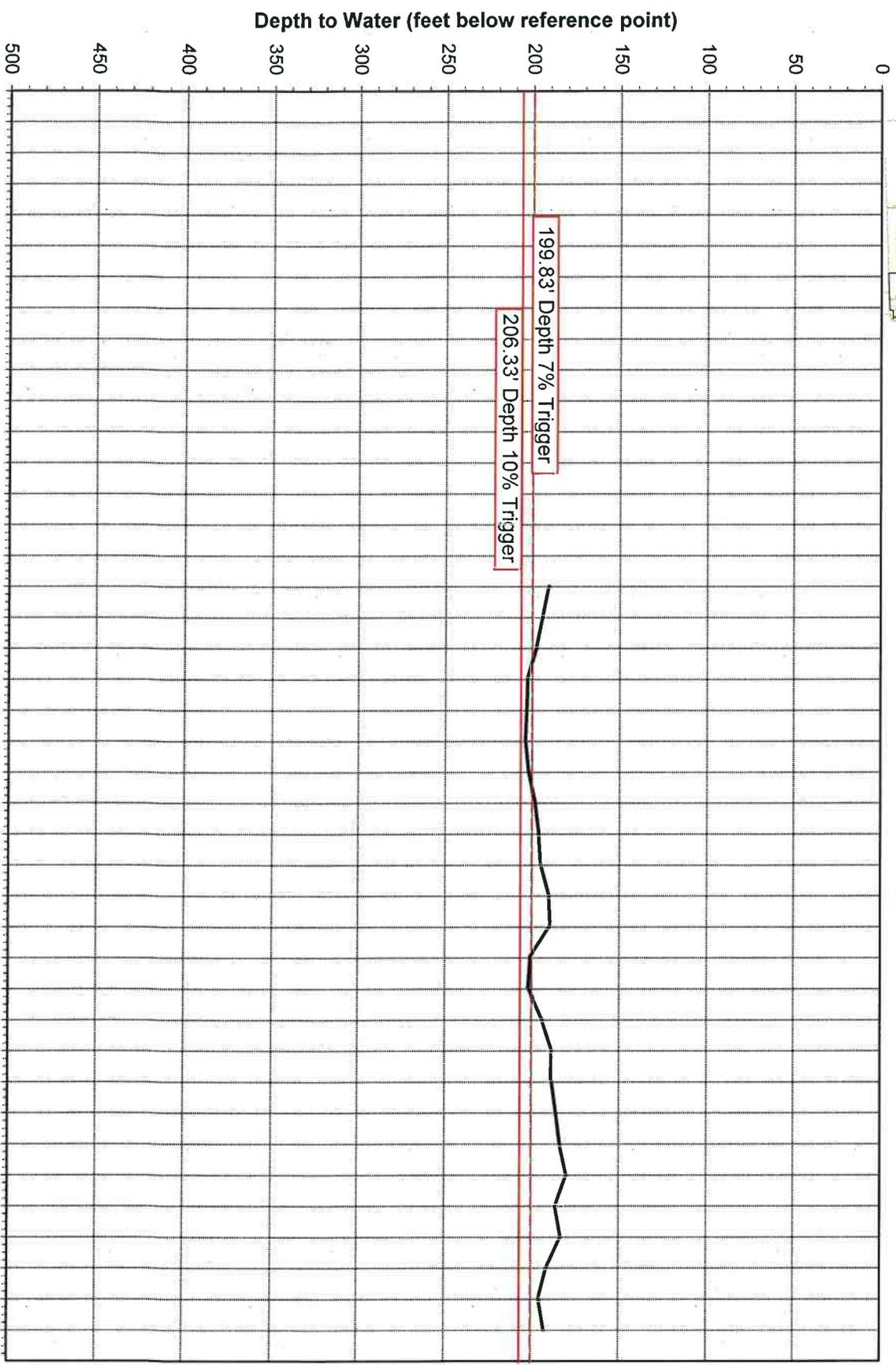
SPRING LEVELS DEPTH TO WATER VS. TIME

SW 1/4, NE 1/4, SEC. 21, T15N, R3E

SPRING 1985 THROUGH SPRING 2025

Well Depth: 396 ft
 Top of Screen: 376 ft
 Bottom of Screen: 396 ft
 High Capacity Wells Within 1-Mile Radius: 5

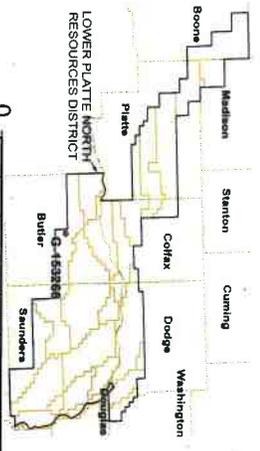
- Clay
- Sand
- Sandstone
- Shale
- Limestone
- Casing
- Screen



LOWER PLATTE NORTH
 Natural Resources District

Date





LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

G-153268/DC-01

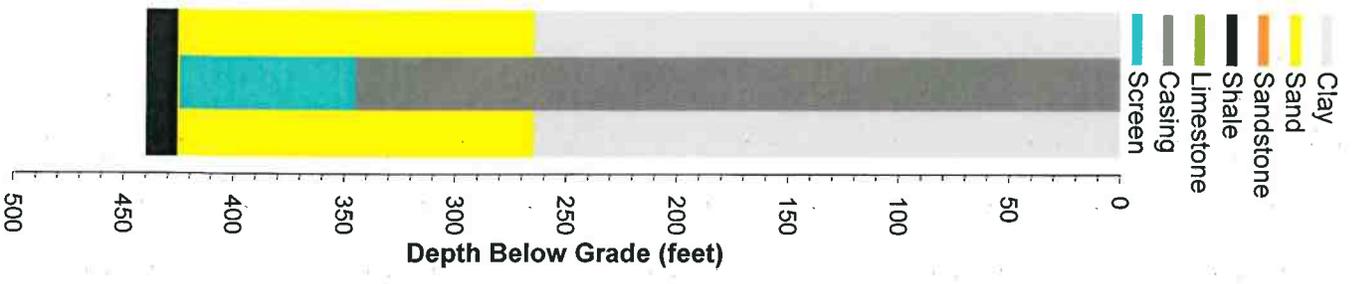
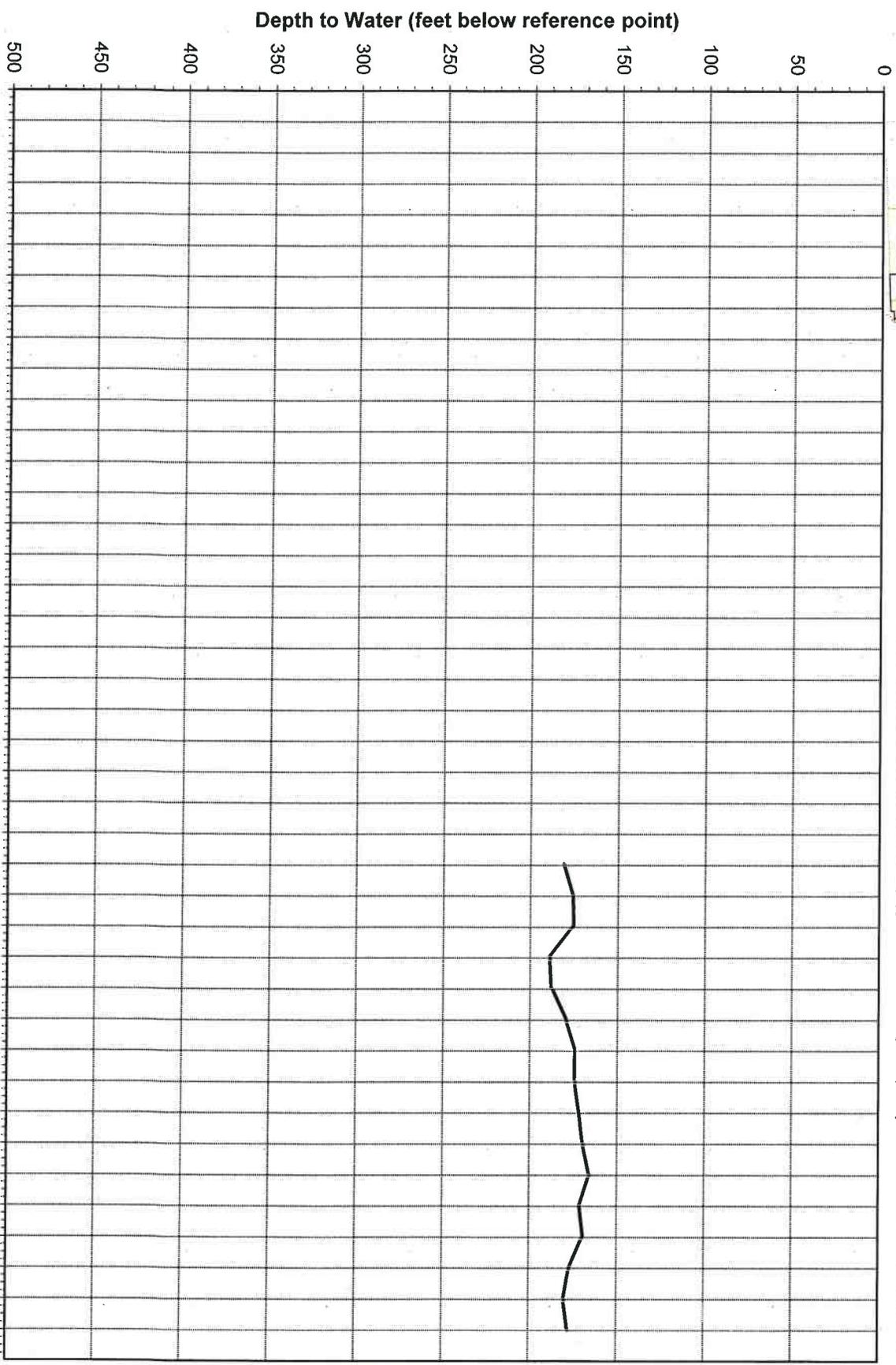
SUB AREA: DAVID CITY

SPRING LEVELS DEPTH TO WATER VS. TIME

SE 1/4, NE 1/4, SEC. 19, T15N, R3E

SPRING 1985 THROUGH SPRING 2025

Well Depth: 425 ft
 Top of Screen: 345 ft
 Bottom of Screen: 425 ft
 High Capacity Wells Within 1-Mile Radius: 10



LOWER PLATTE NORTH
 Natural Resources District

Date



Lower Platte North NRD (LPNNRD)

Variance Request Conditions for LPN-V-025-0654 for Greg Fujan Irrigation Well in SW1/4, Section 29, T15N, R6E of the Restricted Development Area.

- Variance will be reviewed annually and if this irrigation well is causing well interference with nearby well owners such as declining groundwater energy levels in the aquifer either during static or pumping conditions, the variance can be withdrawn as stated in the LPNNRD Groundwater Management Rules and Regulations.
- Well Permit will be reviewed annually and if this irrigation well is causing well interference with nearby well owners such as declining groundwater energy levels in the aquifer either during static or pumping conditions, the well permit can be suspended.
- Approved Lower Platte North NRD Flow meter must be properly installed according to manufactures specifications. In addition, installation must meet all the conditions as specified on the LPNNRD approved list of flow meters.
- Annual reporting of flow measurements submitted to the LPNNRD by December 15th every year.
- The well pump and irrigation system will be allowed to run anytime in any 24-hour period.
- Well owner agrees to install a small diameter tubing (~1 inch inside diameter) into the gravel pack of this well to within the bottom 10 feet of the well with a screen.
- Well owner agrees to allow LPNNRD personnel access to this well during reasonable hours and to install monitoring equipment on this well. Monitoring equipment could be any hour meter or pressure transducer installed in the gravel pack tubing.
- Water Quality sample will be taken during pump test. Parameters to be measured are temperature, pH, conductivity, nitrate-nitrogen, and parameters to measure irrigation suitability.
- Domestic/stock well users need to contact well drillers/pump installers to determine if the irrigation well is causing conflict before other actions would be taken.

Signature by owner _____ Date _____

Signature by NRD Board Chairman _____ Date _____



United States Department of Agriculture
Farm Service Agency

January 30, 2013

PLSS: 29_15_6E
Farm: 11268

Saunders County, NE

1 inch = 751.5 feet

2012 NAIP Ortho-Photography

Wetland Legend

- Restricted Use
- ▼ Limited Restrictions
- Exempt from Conservation Compliance Provisions

USDA FSA maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or the 2003 ortho rectified imagery for Nebraska. The producer accepts the data 'as is' and assumes all risks associated with its use. The USDA Farm Service Agency assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside of FSA Programs.

Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



becklund

WEBSTER WELL SERVICES INC.

COMPLETE WATER SYSTEMS
P. O. BOX 128
MORSE BLUFF, NE 68648-0128

①

TEST DRILLING REPORT

GREGG FUJAN

11-6-25

	N41 14 16.22	W96 46 28.42	SWSW 29-15N-6E
0-2	TOP SOIL	MED HARD	
2-11	BRWN CLAY	MED HARD	
11-16	YELLOW/BRWN CLAY	SOFTER	
16-30	BRWN CLAY	MED HARD	
30-31	GRAVEL LAYER @ 30'	LOOSE	
31-55	GRAY CLAY	HARD	W/FEW IMBEDDED ROCKS
55-85	GRAVEL RED	LOOSE	MAJOR ROCK @ 68'
82-85	CLAY LAYER	HARD	
85-86	GRAVEL	LOOSE	
86-100	BRWN CLAY	MED HARD	
100-109	RED SAND & GRAVEL	LOOSE	
109-115	BRWN/TAN CLAY	MED HARD	
115-126	ORANGE/BRWN SHALE/CLAY	HARD	

WEBSTER WELL SERVICES INC.

COMPLETE WATER SYSTEMS
P. O. BOX 128
MORSE BLUFF, NE 68648-0128

2

TEST DRILLING REPORT

GREGG FUJAN

11-6-25

N41 14 31.72 W96 46 28.66

NWSW 29-15N-5E

0-2	TOP SOIL	MED HARD	
2-6	DARK BRWN CLAY	HARD	
6-10	BRWN/GRAY CLAY	MED HARD	
10-30	LT BRWN CLAY	HARD	
30-32	BLUE/GRAY CLAY	MED HARD	STICKY
32-44	BLUE COARSE SAND & GRAVEL	LOOSE	
44-45	ROCK	HARD	
45-52	BLUE COARSE SAND & GRAVEL	LOOSE	SOME BIGGER GRAVEL
52-63	CLAY LAYER	MED HARD	
53-59	MED COARSE SAND	LOOSE	
59-60	RED COARSE SAND & GRAVEL	LOOSE	
60-61	HARD LAYER & ROCK	HARD	
61-63	RED COARSE SAND & GRAVEL	LOOSE	
63-64	ROCK	HARD	
64-75	RED COARSE SAND & GRAVEL	LOOSE	
75	RED COARSE SAND & GRAVEL	LOOSE	LOST CIRCULATION

Registration# Well ID Permit Number	Use Status	County Name NRD Name Well Location Footage Latitude Longitude	Completion Date Filing Date Decommission Date Times Replaced Online Registration ID (NOLID) Well Driller License Number	Acres Irrigated Gallons/Minute Static Level Pumping Level Series	3 Pump Column Diameter Pump Depth Well Depth
G-189255 WellID: 261128	D - Domestic A - Active Registered Well	Saunders Lower Platte North 15N 6E 29 SWSW 223S 276W 41° 14' 7.940" -96° 46' 25.810"	5/13/2019 3/11/2020 15580466843877 39221	--- 18 gpm 22 ft 30 ft PRO - Single Project	1.25 in 80 ft 100 ft

Geo Logs

FromDepth	ToDepth	Description	Color	Density	Composition
0	2		Brown	Dense/Stiff	Top Soil
2	25		Brown	Dense/Stiff	Clay
25	28	rocky	Gray	Loose	Gravel
28	45		Brown	Dense/Stiff	Clay
45	51	gray slightly hard	Brown	Hard	Clay
51	60		Gray	Dense/Stiff	Clay
60	100	rusty with rocks	Red	Loose	Gravel

RegCD: G-121899

Well #: We-04

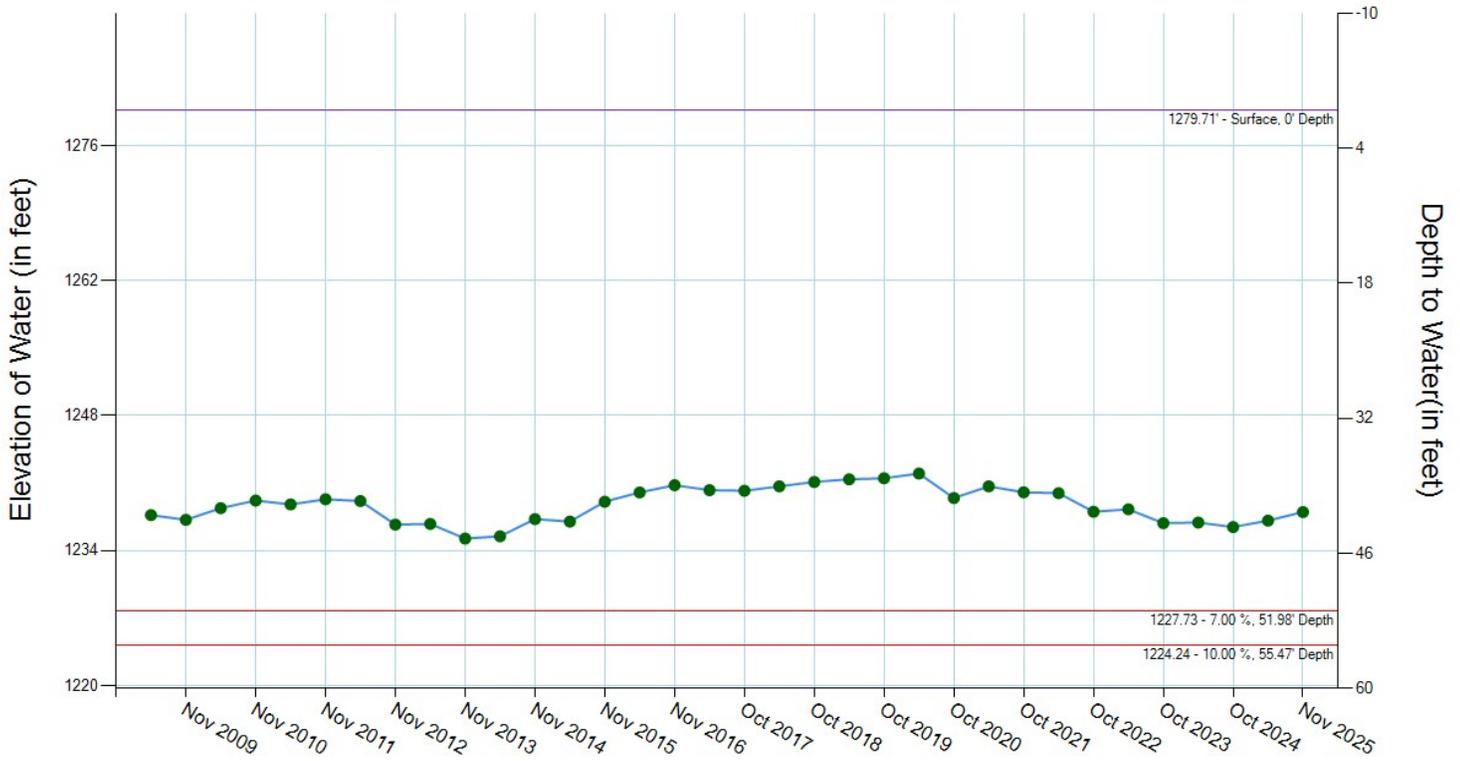
Region: Uplands

County: Saunders

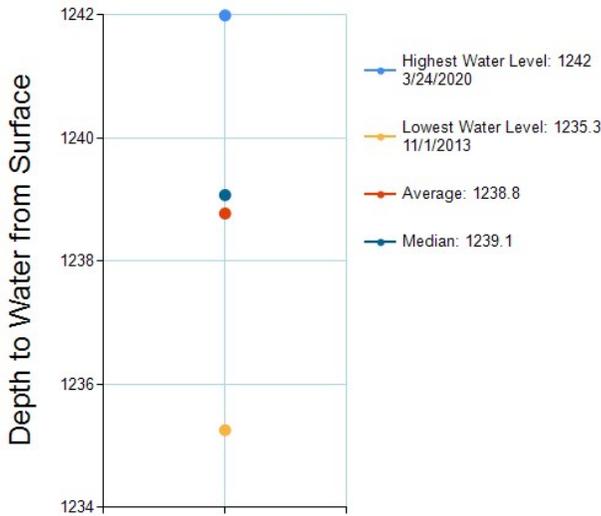
Legal: 15-6E-33

Owner Name: Donald H Kresl

Water Level Readings

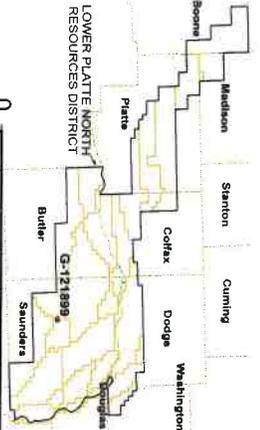


Record Results



Historical Readings (date - reading)

03/01/2009 - 1237.7	11/01/2013 - 1235.3	03/21/2018 - 1240.7	03/18/2022 - 1240
11/01/2009 - 1237.2	03/01/2014 - 1235.5	10/19/2018 - 1241.1	10/17/2022 - 1238
03/01/2010 - 1238.4	11/01/2014 - 1237.3	03/25/2019 - 1241.4	03/23/2023 - 1238.3
11/01/2010 - 1239.2	03/01/2015 - 1237	10/22/2019 - 1241.5	10/23/2023 - 1236.9
03/01/2011 - 1238.8	11/01/2015 - 1239.1	03/24/2020 - 1242	03/20/2024 - 1236.9
11/01/2011 - 1239.3	03/01/2016 - 1240	10/20/2020 - 1239.5	10/23/2024 - 1236.4
03/01/2012 - 1239.1	11/01/2016 - 1240.8	04/01/2021 - 1240.7	03/25/2025 - 1237.1
11/01/2012 - 1236.7	03/01/2017 - 1240.3	10/20/2021 - 1240.1	11/14/2025 - 1238
03/01/2013 - 1236.8	10/24/2017 - 1240.2	10/20/2021 - 1240	



LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

G-121899/WE-04

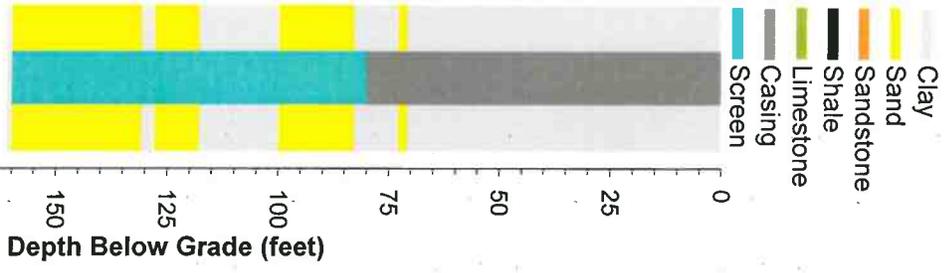
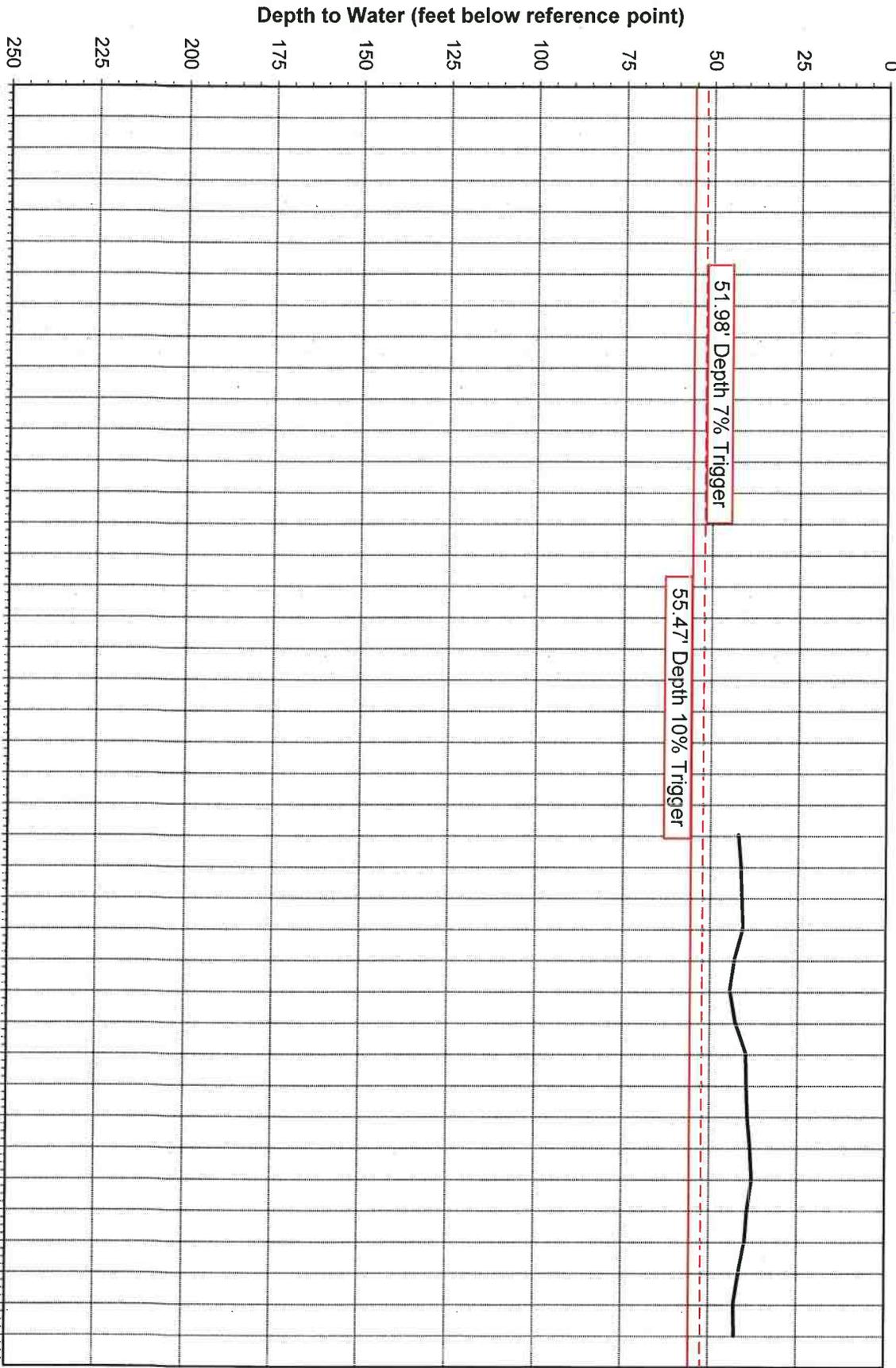
SUB AREA: WESTON

SPRING LEVELS DEPTH TO WATER VS. TIME

SE 1/4, SE 1/4, SEC. 33, T15N, R6E

SPRING 1985 THROUGH SPRING 2025

Well Depth: 160 ft
 Top of Screen: 80 ft
 Bottom of Screen: 160 ft
 High Capacity Wells Within 1-Mile Radius: 3



LOWER PLATTE NORTH
 Natural Resources District

Date



December 2, 2025

TO LOWER PLATTE NORTH NRD

Regarding new irrigation well and 80 irrigated acres in SW 1/4 SW 1/4 section 29 - Township 15 North - Range 6 East requested by Gregg Fujan. We are not against irrigation but we have concerns and questions.

1. At least 9 domestic wells are in the vicinity of requested irrigation well. I know I have never pumped air on my domestic well but not sure about other wells in this vicinity.
2. What is the draw down radius in dry years? How many feet can be drawn down in dry years
3. What is the proximity of my domestic well? We ask that the proposed irrigation well be Placed at least 1000 feet from any domestic well.
4. Chemicals used through irrigation needs to be safe if used.
5. If well is drilled can another well be drilled without getting a variance if the whole 80 has been approved?
6. Will this new well affect water flow of creek on my property?
7. Where will the proposed well be drilled and where will the pivot point be located? We have noise concerns
8. Are observation wells required here to monitor how water levels change - before, during and After irrigation is completed?

Sincerely:

Mark Olson 12-2-2025
Joyce Olson 12-2-2025

Lower Platte North NRD (LPNNRD)

Variance Request Conditions for LPN-V-024-0644 for Larry Rasmussen Irrigation Well in NW1/4, Section 27, T16N, R8E of the Restricted Development Area.

- Variance will be reviewed annually and if this irrigation well is causing well interference with nearby well owners such as declining groundwater energy levels in the aquifer either during static or pumping conditions, the variance can be withdrawn as stated in the LPNNRD Groundwater Management Rules and Regulations.
- Well Permit will be reviewed annually and if this irrigation well is causing well interference with nearby well owners such as declining groundwater energy levels in the aquifer either during static or pumping conditions, the well permit can be suspended.
- Approved Lower Platte North NRD Flow meter must be properly installed according to manufactures specifications. In addition, installation must meet all the conditions as specified on the LPNNRD approved list of flow meters.
- Annual reporting of flow measurements submitted to the LPNNRD by December 15th every year.
- The well pump and irrigation system will be allowed to run anytime in any 24-hour period.
- Well owner agrees to install a small diameter tubing (~1 inch inside diameter) into the gravel pack of this well to within the bottom 10 feet of the well with screen.
- Well owner agrees to allow LPNNRD personnel access to this well during reasonable hours and to install monitoring equipment on this well. Monitoring equipment could be any hour meter or pressure transducer installed in the gravel pack tubing.
- Water Quality sample will be taken during pump test. Parameters to be measured are temperature, pH, conductivity, nitrate-nitrogen, and parameters to measure irrigation suitability.
- Domestic/stock well users need to contact well drillers/pump installers to determine if the irrigation well is causing conflict before other actions would be taken.

Signature by owner _____ Date _____

Signature by NRD Board Chairman _____ Date _____

Transient Electromagnetic (TEM) Survey Report

Rasmussen Farm, NW1/4 Sec 27 T16 R8E

Saunders County, NE



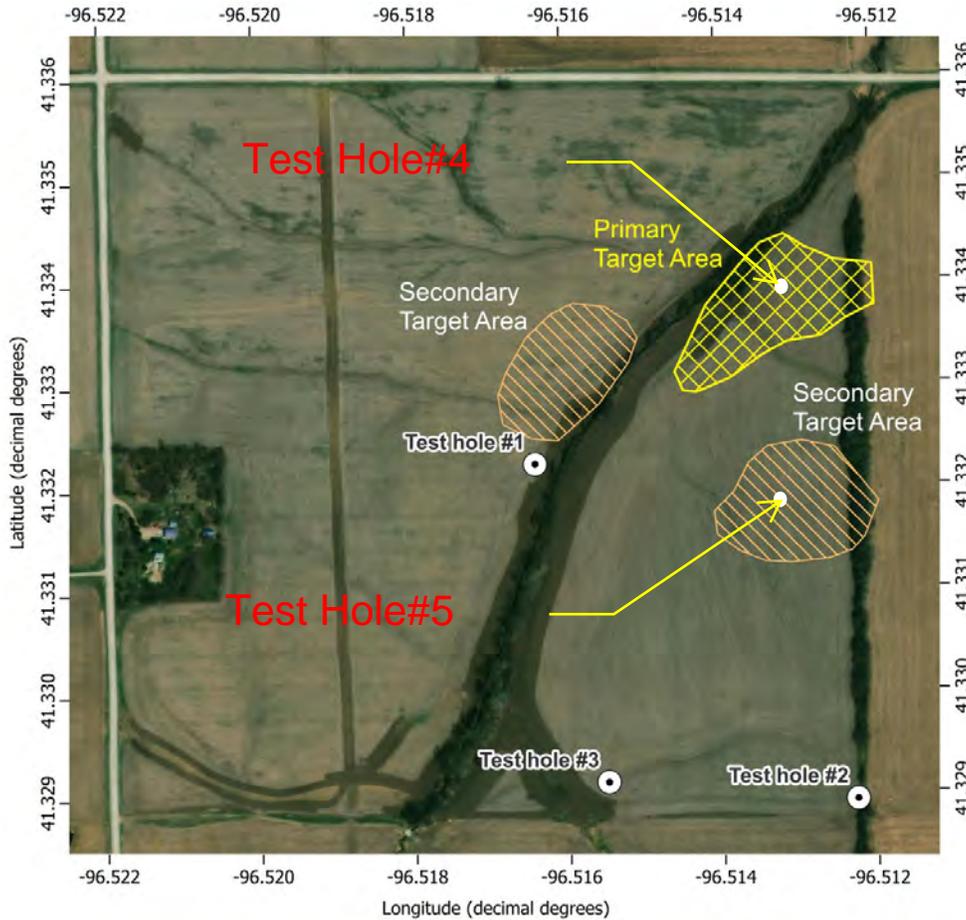
Disclaimer: Korus Geo Insight, LLC, completed this project using current standards of the geological and hydrogeological consulting services industry. These services were performed in a manner consistent with the professional skill and care ordinarily provided by professional geologists under the same or similar circumstances. No other warranty or representation, either expressed or implied, is made by Korus Geo Insight, LLC, in connection with its services unless in writing and signed by an authorized representative of Korus Geo Insight, LLC.

Survey Objectives

The purpose of this survey is to recommend drill targets for placement of an irrigation well.

Summary

Data Acquisition and Interpretation Results	
Date of Survey:	October 18, 2025
Instrument:	Towed TEM
Grid Spacing:	~100 ft
Depth of Investigation:	Average = 211 feet Maximum = 305 feet
Recommended target areas:	Primary target is in shallow high resistivity zone. Secondary targets are in deep high resistivity zones. See map below and remainder of report.



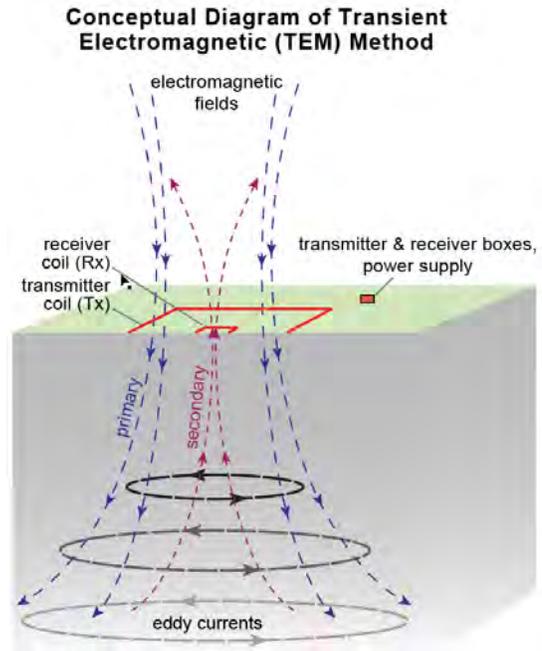
Recommended targets based on resistivity mapping.

Transient Electromagnetic Method

Transient Electromagnetics (TEM) is a non-invasive technique that yields information about electrical properties of the subsurface. These properties are useful for inferring geological characteristics like rock or sediment type. Geological analysis is required to interpret the results of a TEM survey.

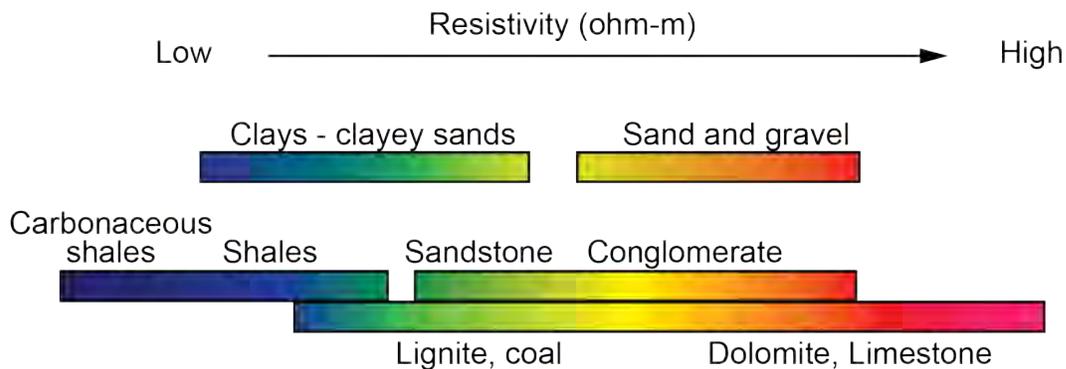
TEM works by creating a pulsating electromagnetic field in a large loop of wire known as the transmitter coil. A receiver coil measures a much smaller, secondary field created by the response of conductive earth materials to the primary field. At each measurement site, a series of many responses are “stacked” into a measurement known as a “sounding”. The sounding is converted into a model representing resistivity with depth. Resistivity is measured in ohm-meters ($\Omega\text{-m}$).

The TEM method is susceptible to interference from natural and cultural noise, as well as electromagnetic coupling with metal objects such as power lines (overhead and buried). Careful analysis can reveal data influenced by noise and coupling. Coupling can be avoided by maintaining a distance between the instrument and the coupling source, and coupled data can be removed during processing.



Resistivity-Depth Maps

Resistivity is measured in ohm-meters (Ω -m). High resistivity may correspond to sand and gravel, conglomerate, carbonate-cemented sandstone, or limestone. Low resistivity may indicate materials dominated by clay, shale, or saline groundwater. However, the method does not resolve thin layers, so the resistivities represent vertically averaged values that could represent several different geological materials or water chemistries.

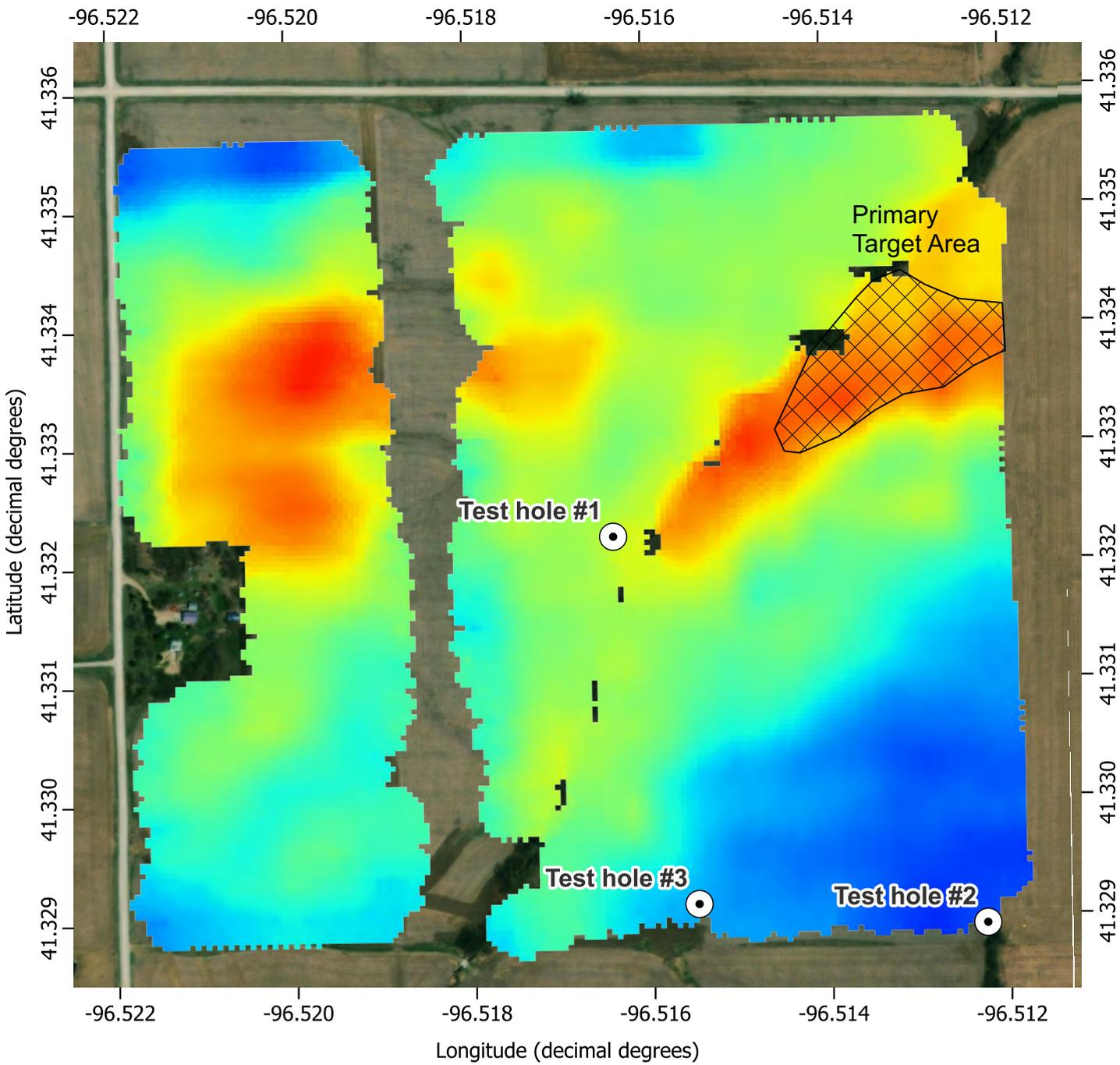


The maps and profiles in this report show interpolated resistivity values using a color scale stretched between low (blue) and high (red-pink) values of resistivity. The areas in between measurement points are interpolated using spatial interpolation techniques. Average resistivity is computed for depth intervals starting at the approximate water table depth and ending at the estimated base of aquifer.

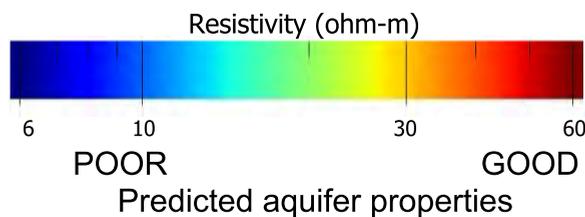
Assumptions and Limitations

Water saturation and salinity can influence measured resistivity. For a given geological material, saturated conditions yield lower resistivity than non-saturated conditions. Saline water is much less resistive than fresh water (i.e. it is conductive).

Resistivity is not a direct measure of hydrogeological properties. It does not directly indicate potential well yield. However, the methods used here to select test hole targets are well established in the industry and in the scientific literature.

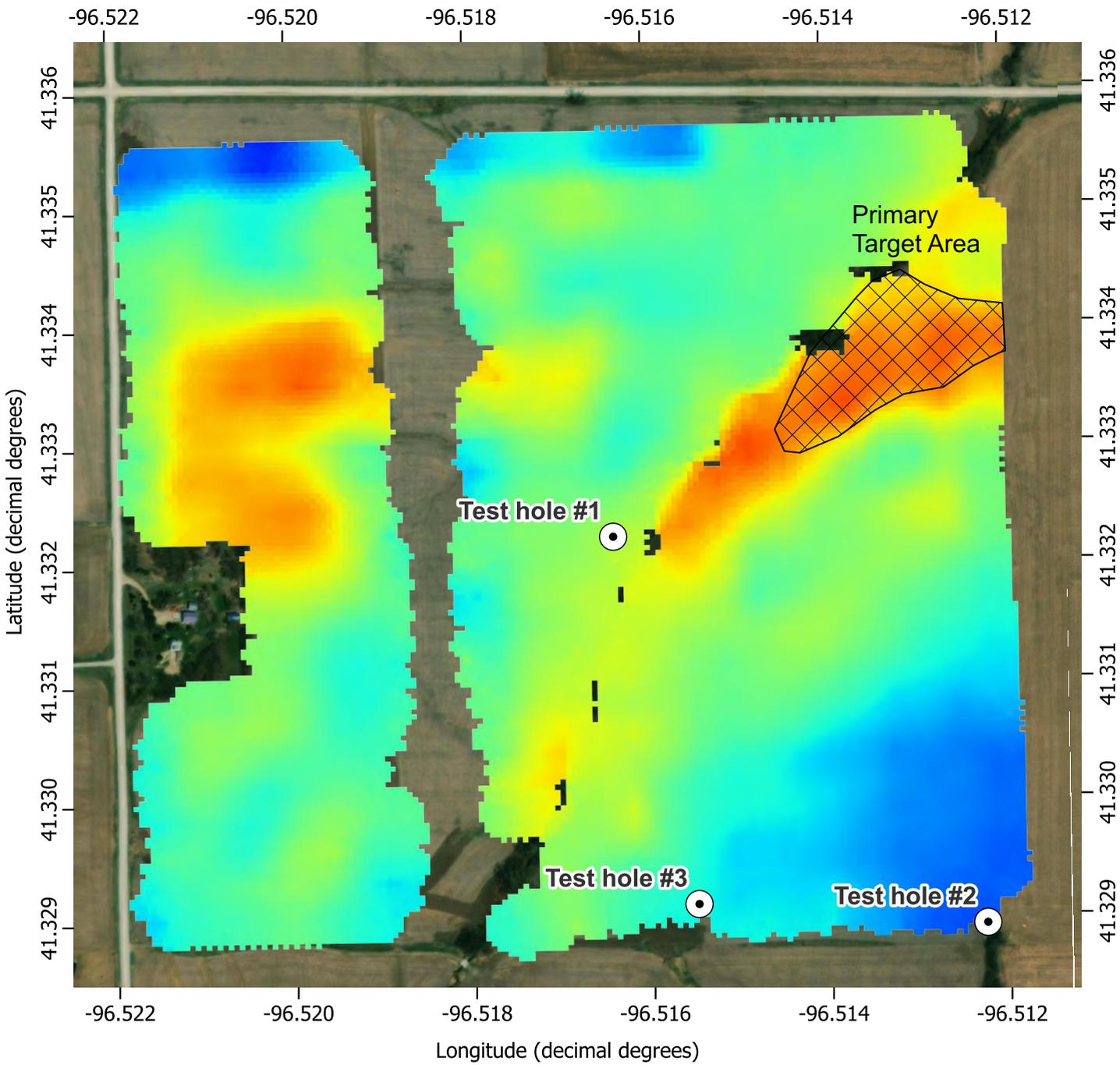


Depth below ground surface, in feet: **73 - 84**

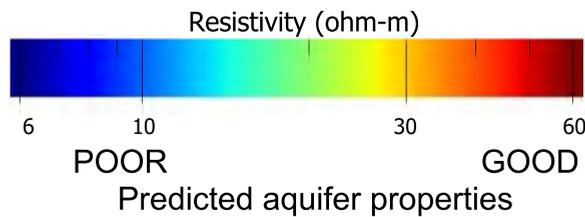


Resistivity data represent indirect measurements of subsurface properties and should not be interpreted as definitive indicators of hydrogeological conditions. No warranty, guarantee, or assurance of groundwater presence, quality, or well yield is expressed or implied. Any decisions regarding drilling or well construction are made at the sole risk of the user, who assumes full responsibility for associated outcomes and costs.



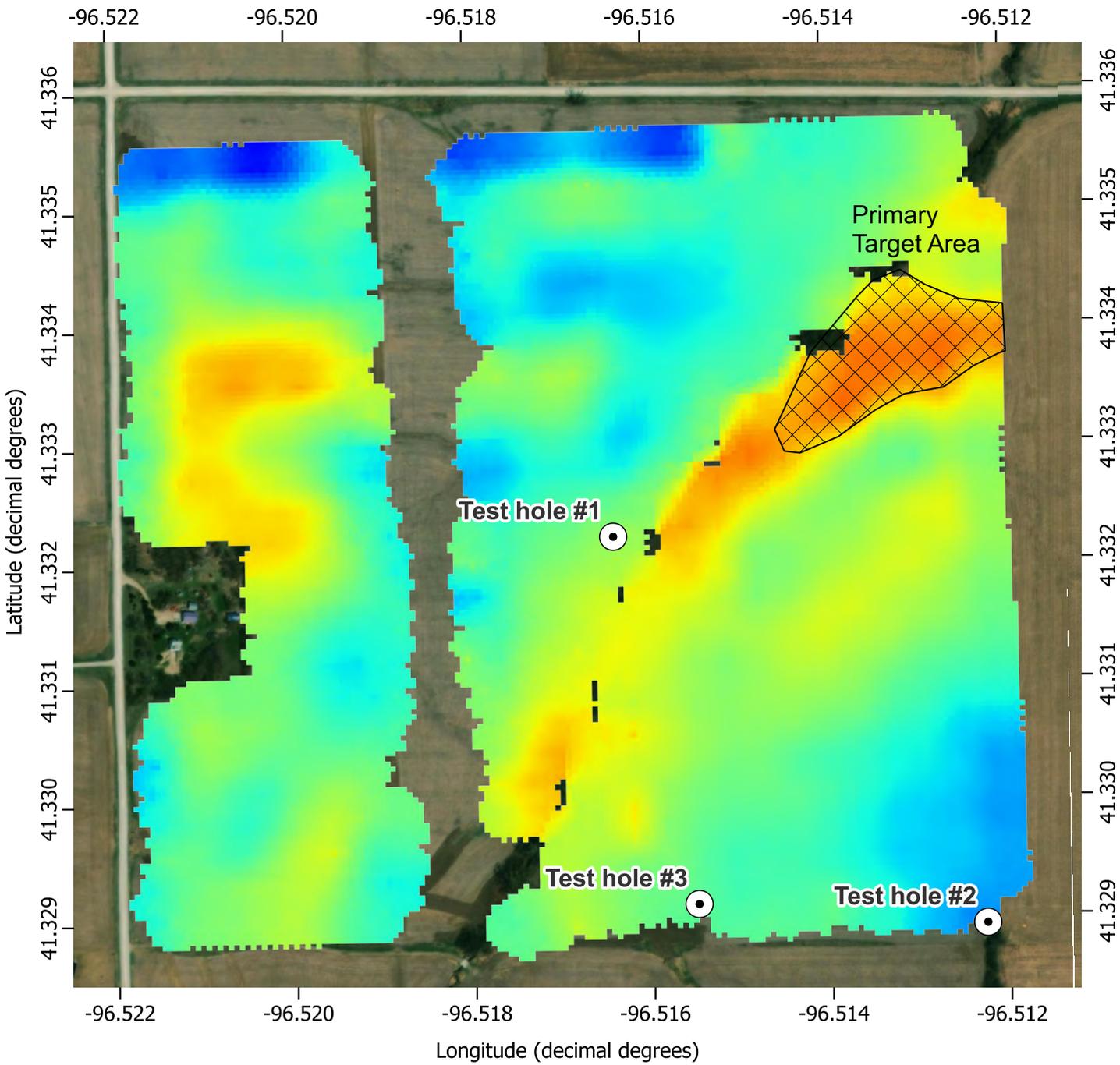


Depth below ground surface, in feet: **84 - 97**

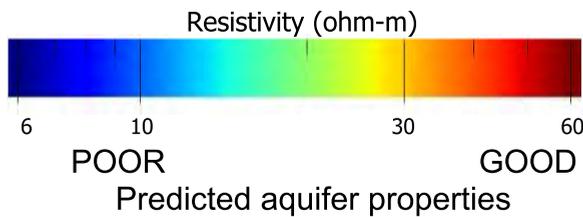


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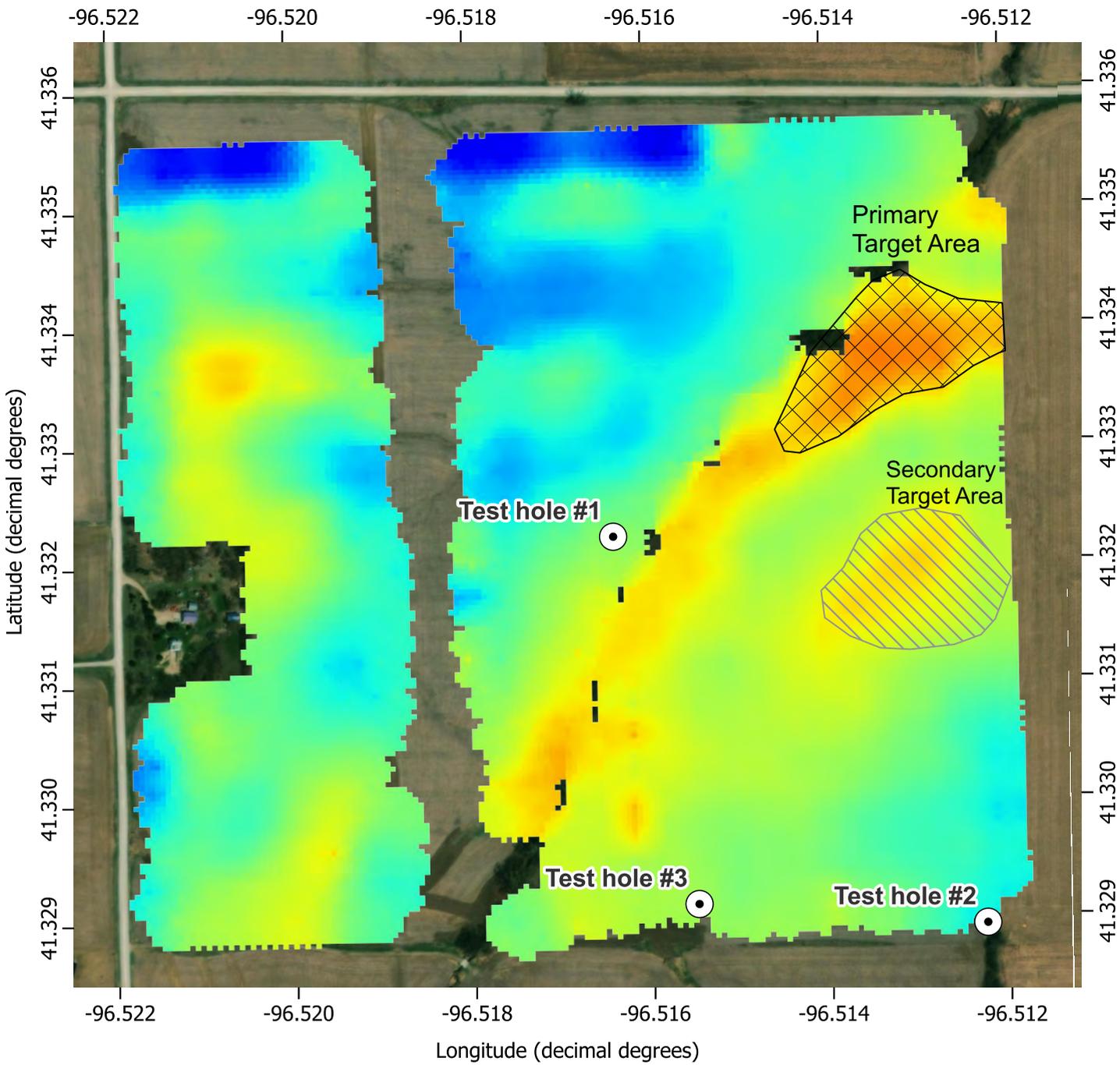


Depth below ground surface, in feet: **97 - 111**

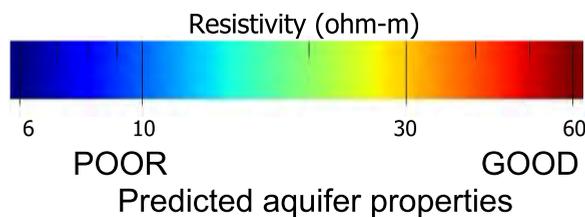


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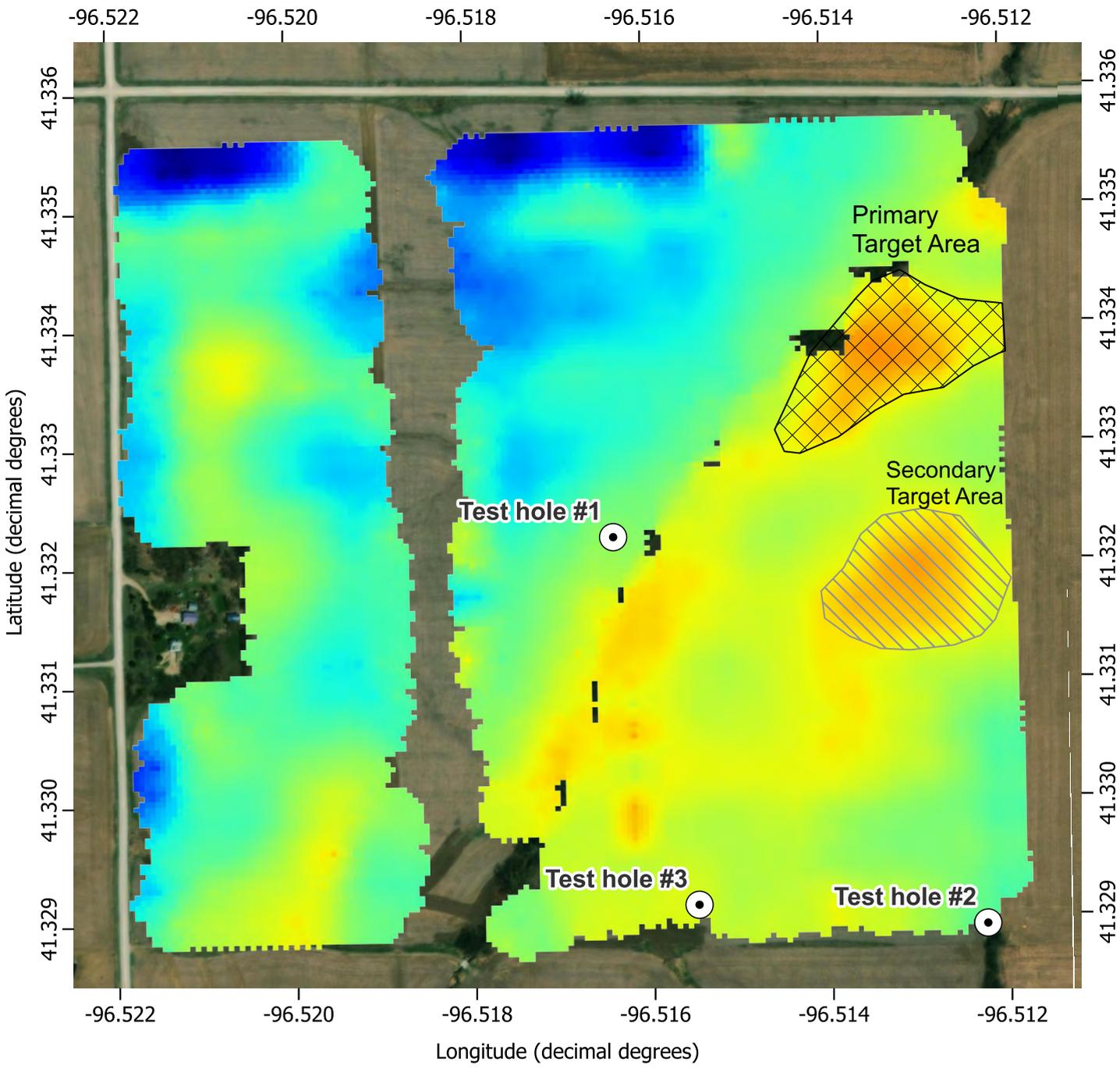


Depth below ground surface, in feet: **111 - 126**

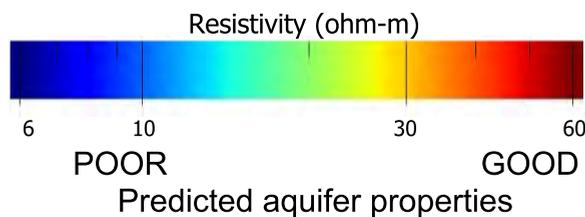


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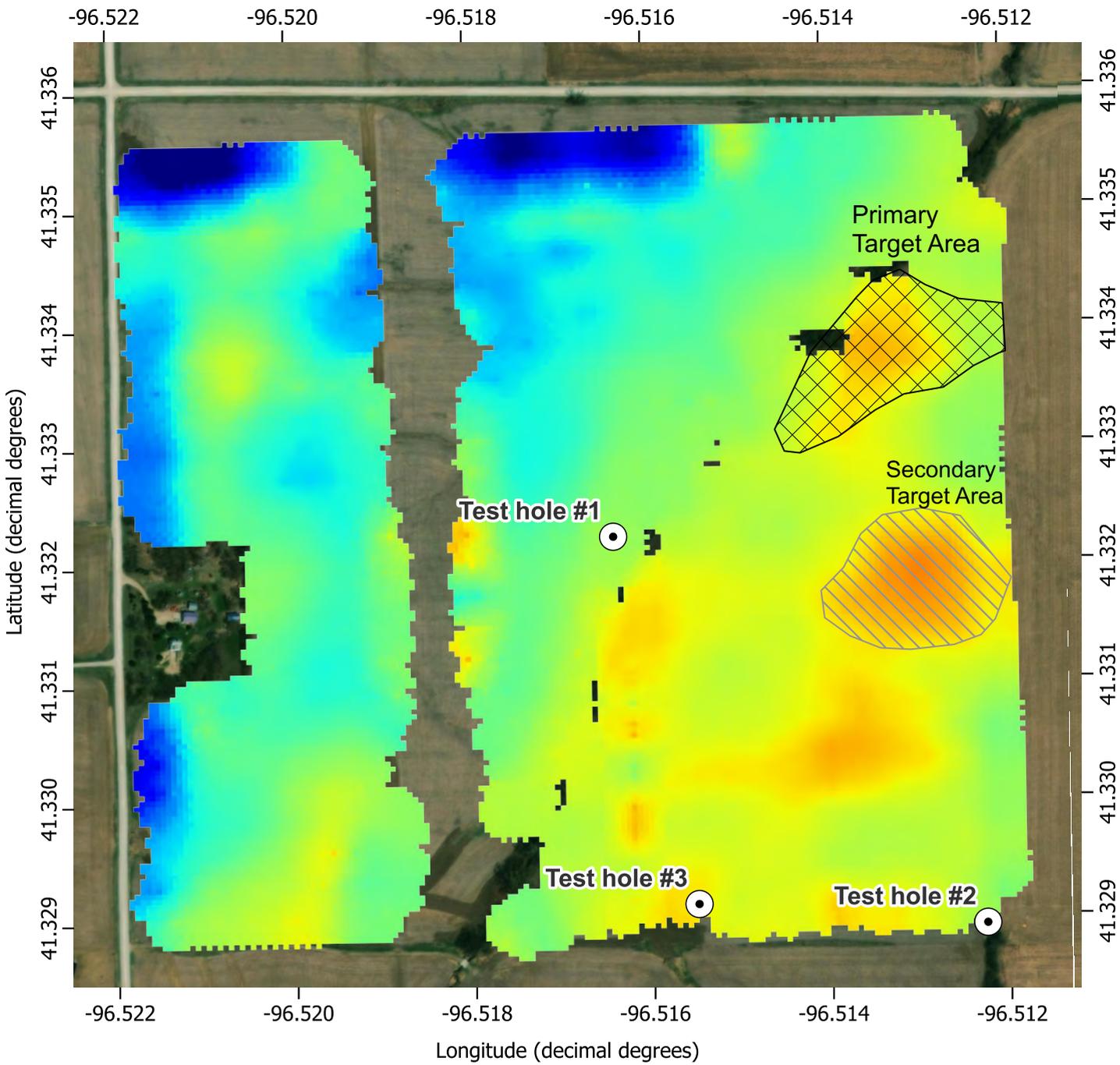


Depth below ground surface, in feet: **126 - 142**

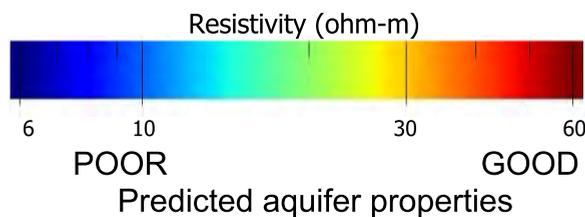


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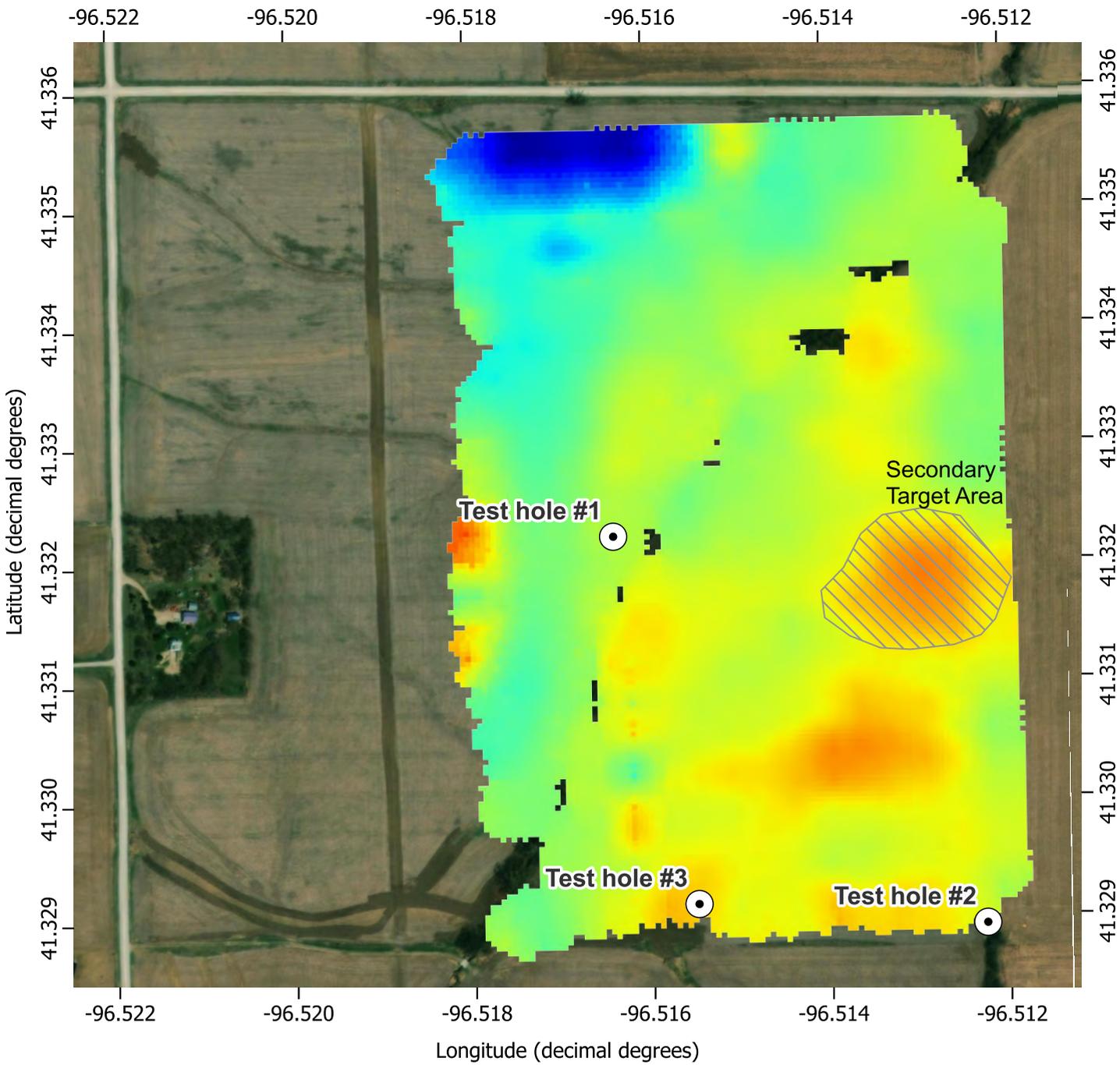


Depth below ground surface, in feet: **142 - 161**

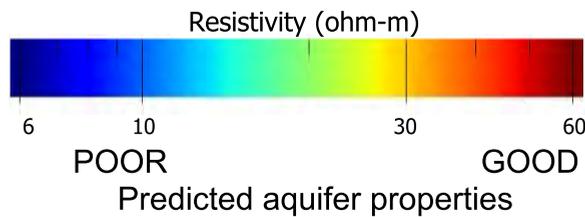


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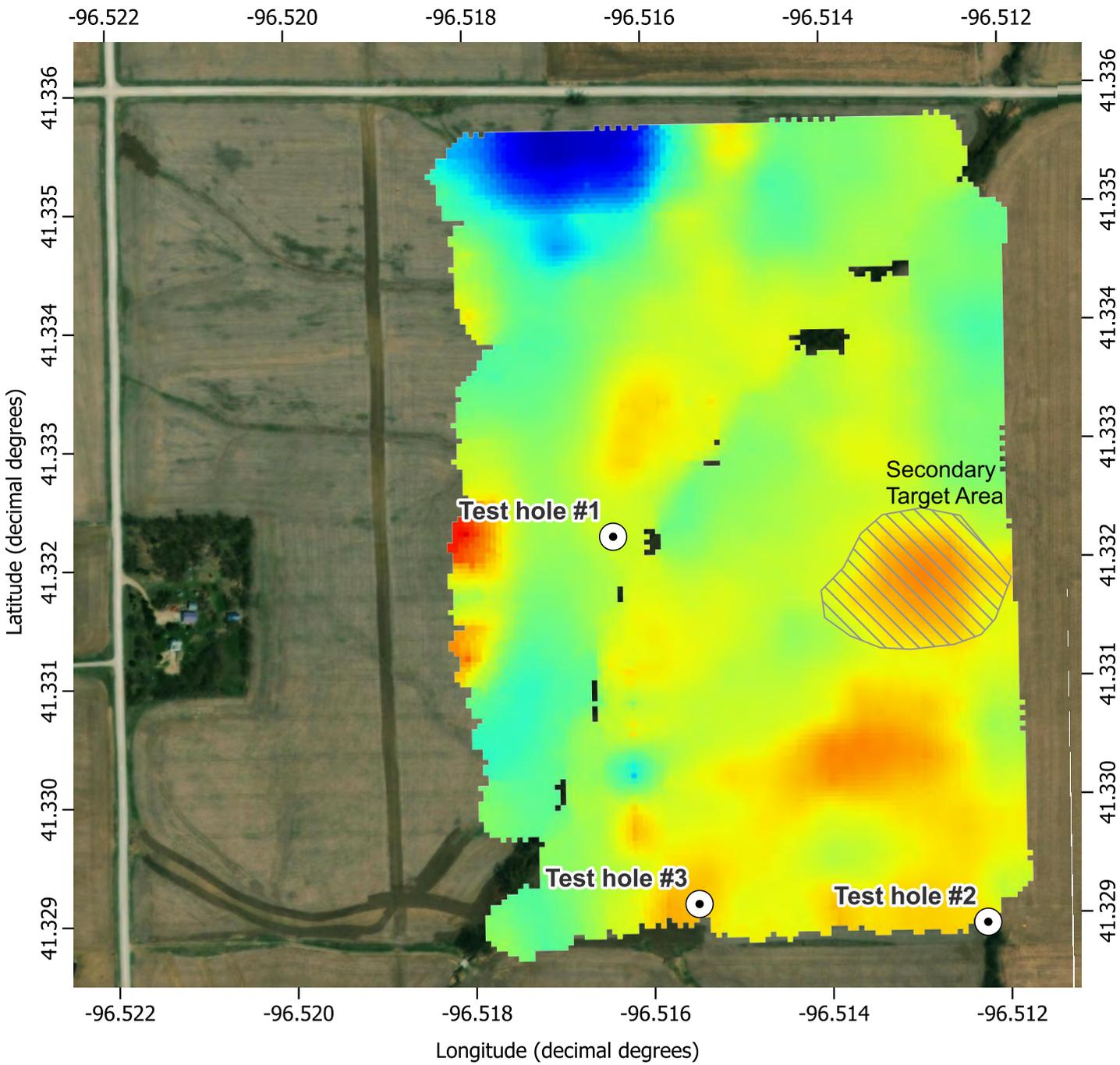


Depth below ground surface, in feet: **161 - 182**

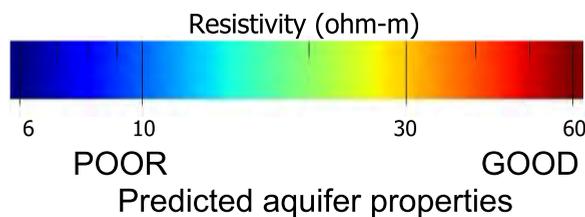


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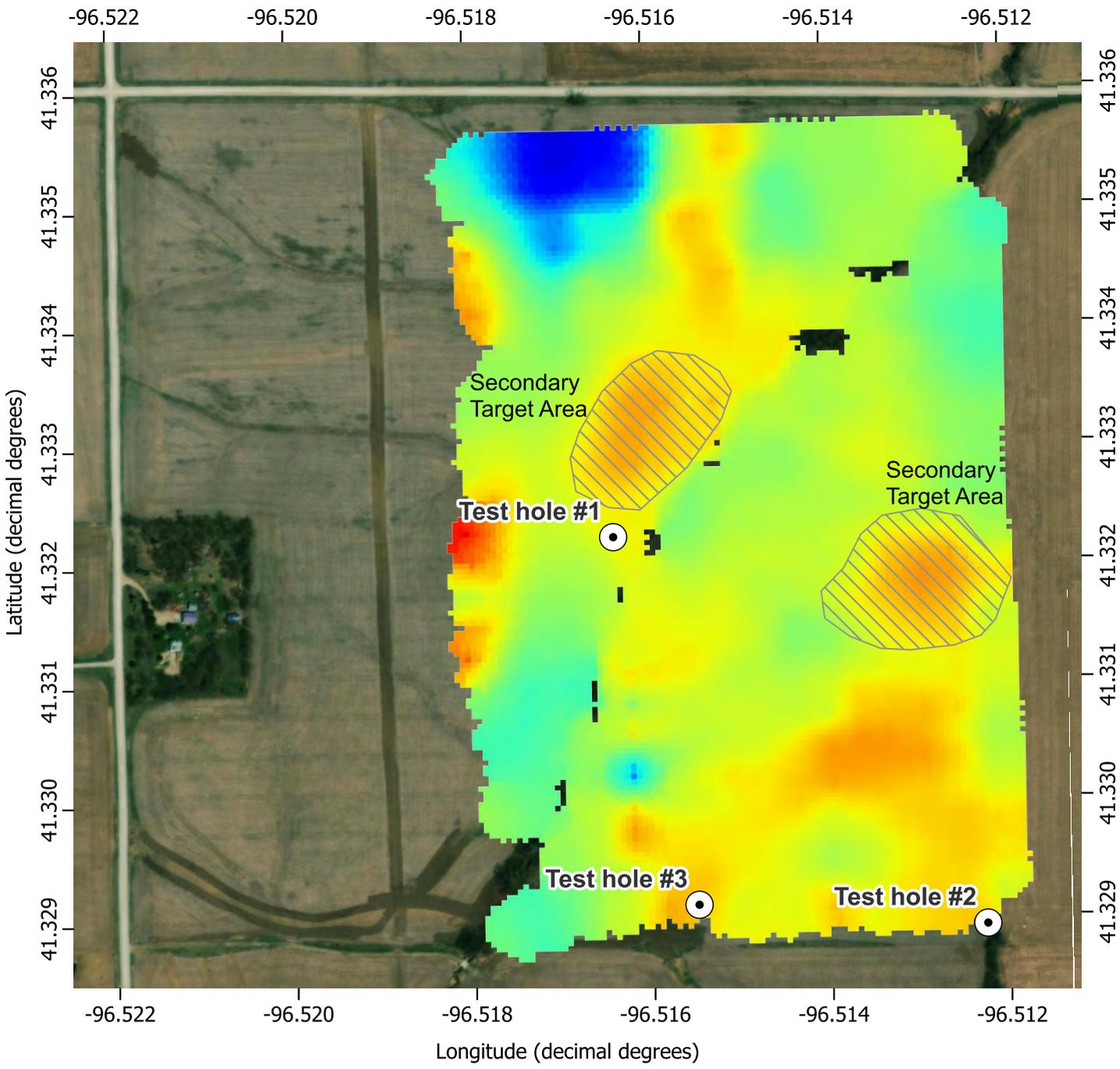


Depth below ground surface, in feet: **182 - 204**

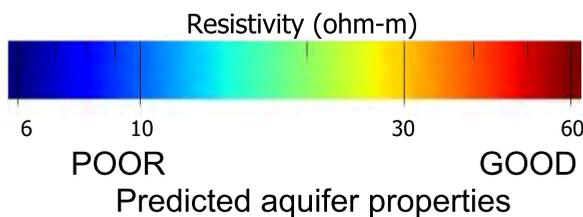


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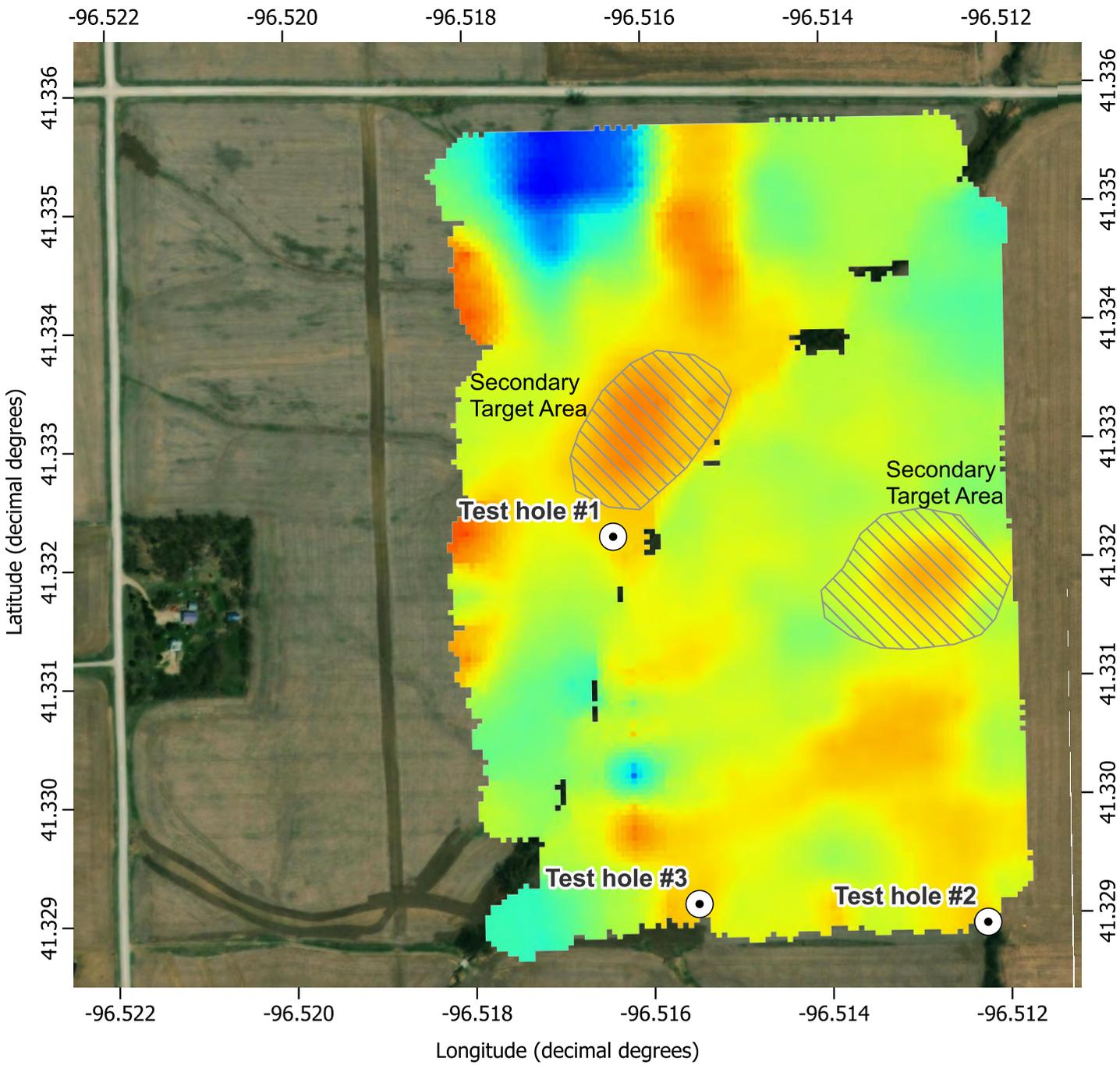


Depth below ground surface, in feet: **204 - 230**

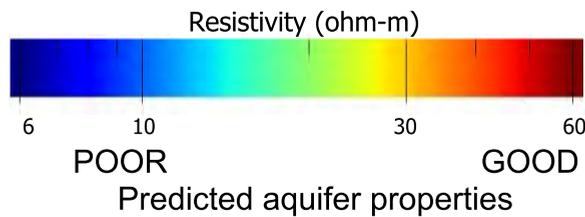


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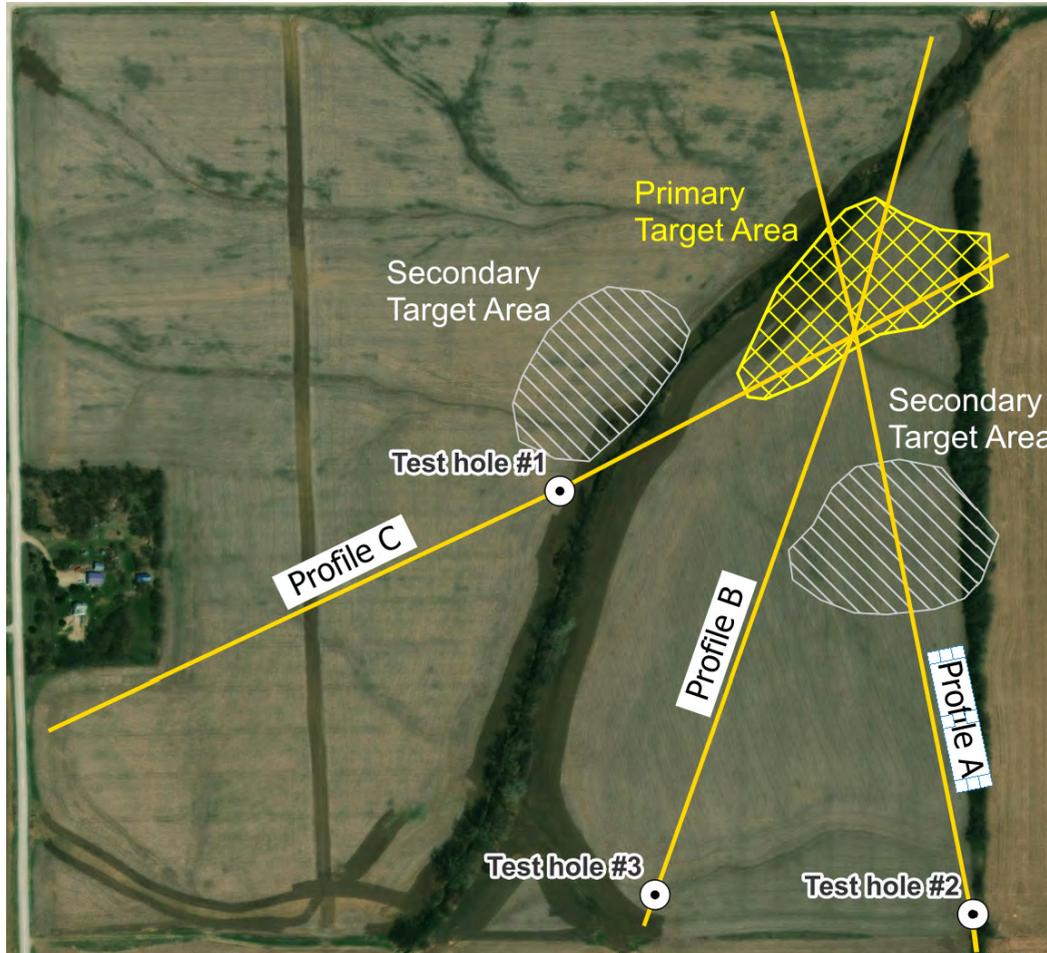
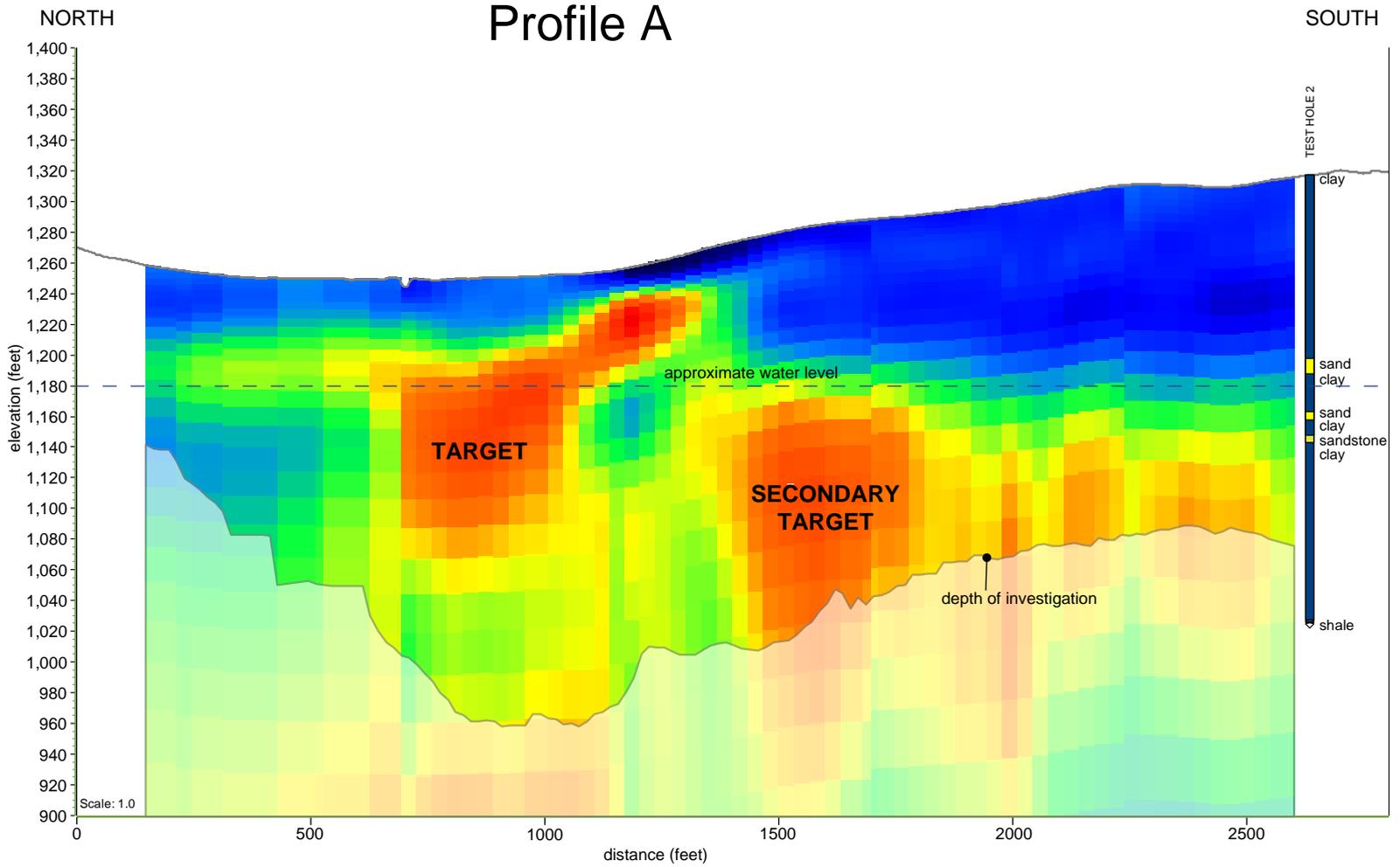
Depth below ground surface, in feet: **230 - 258**



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Profile A



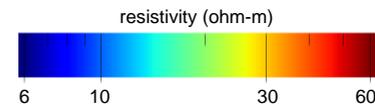
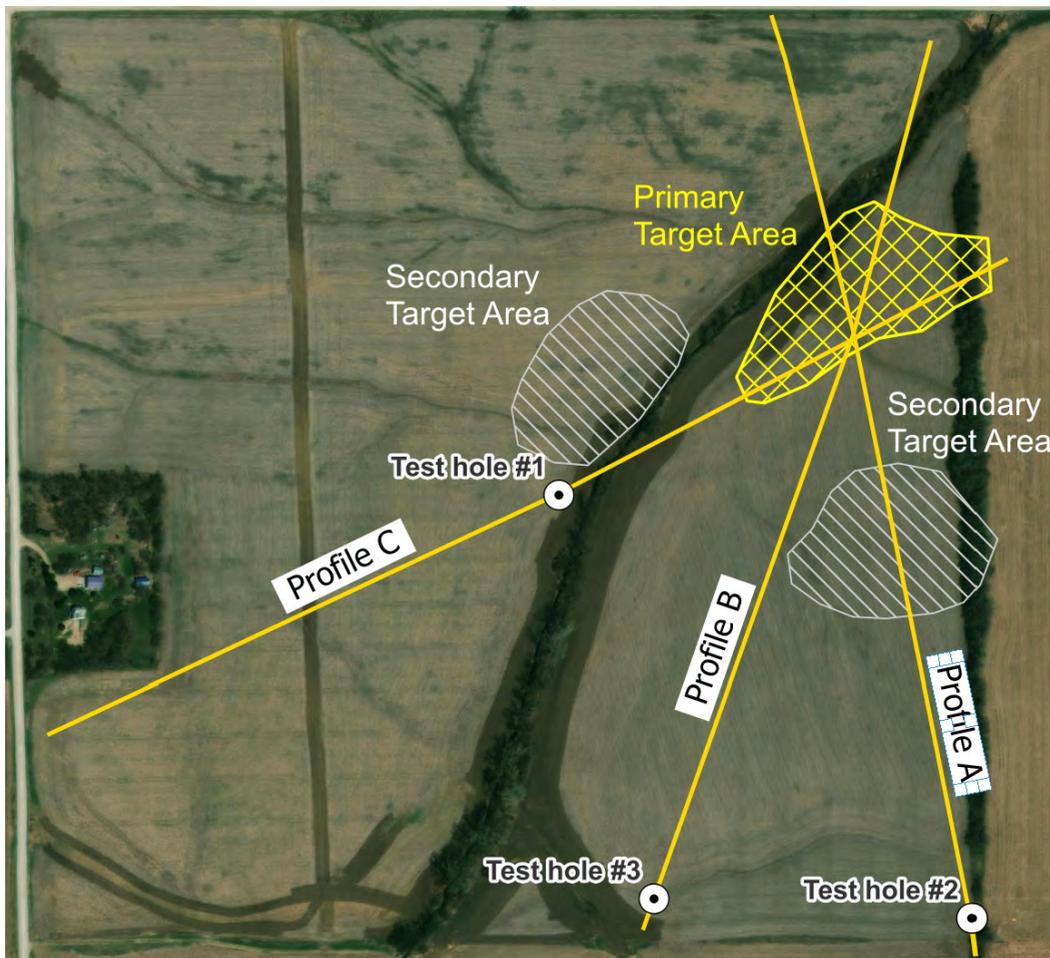
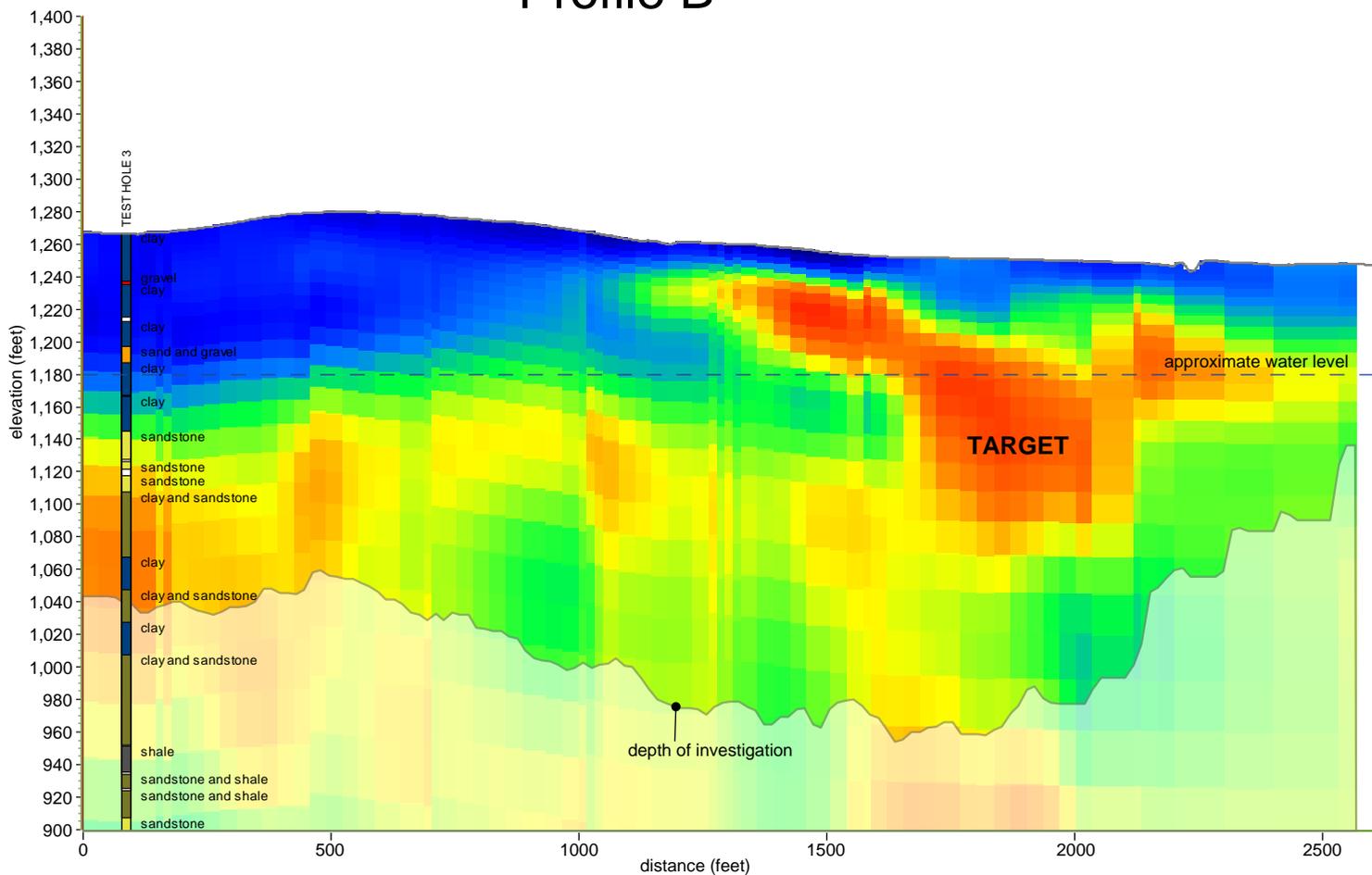
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SOUTH

Profile B

NORTH



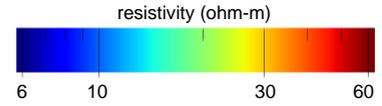
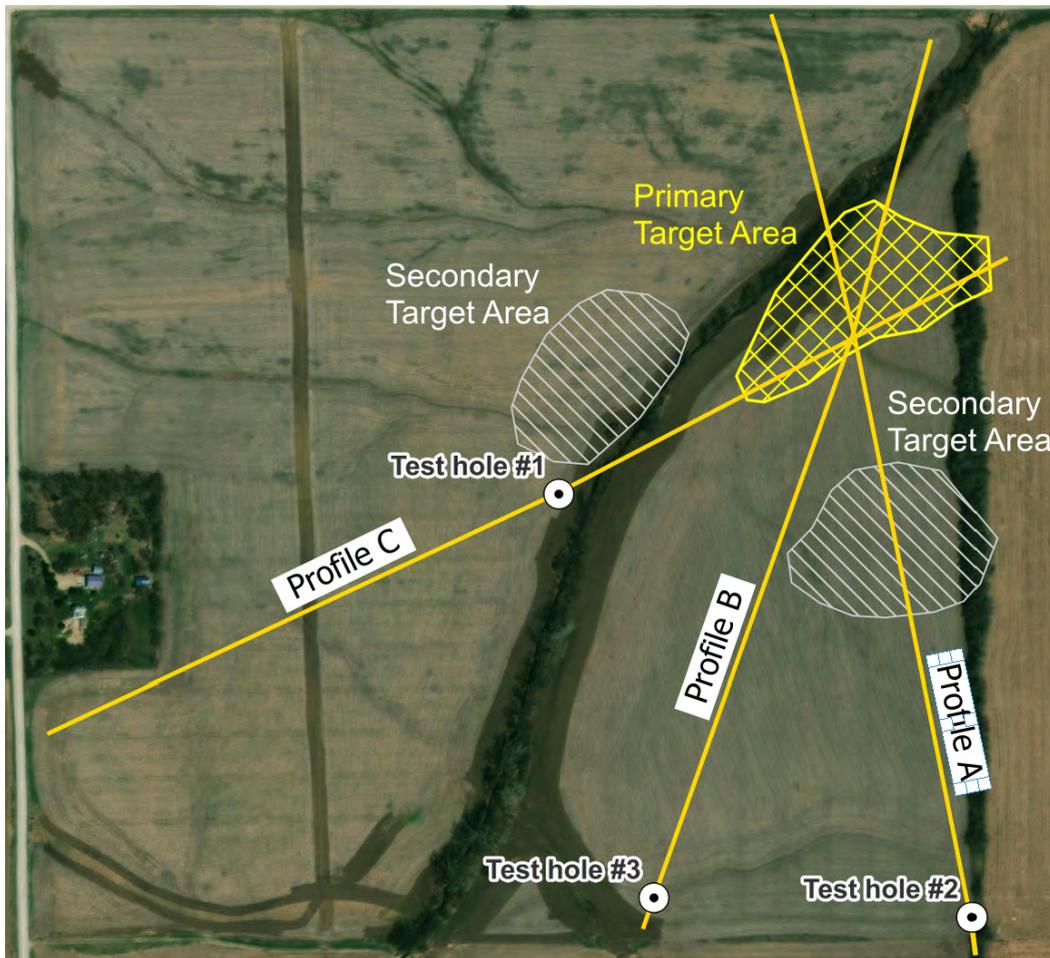
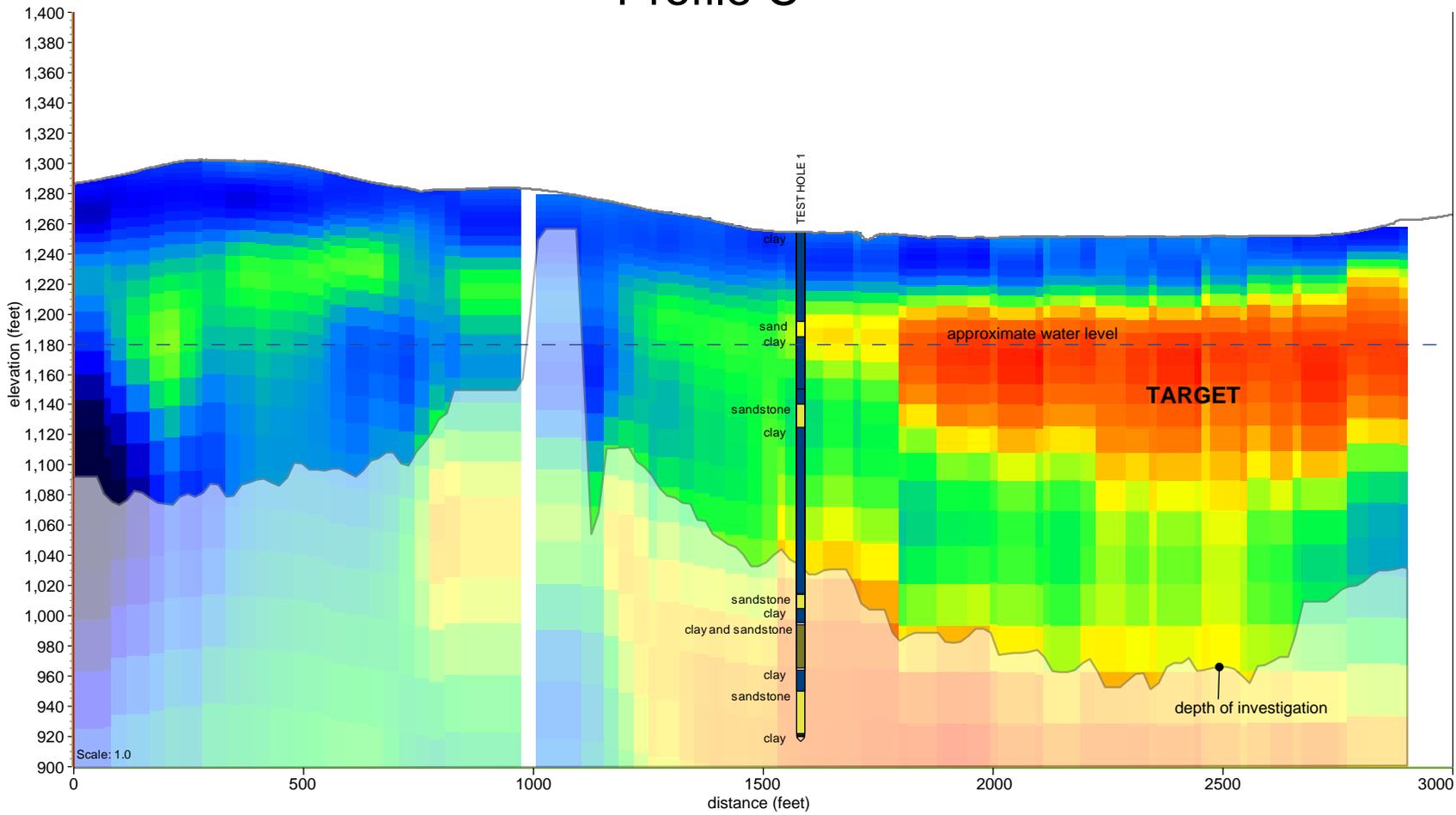
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Profile C

WEST

EAST



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DRILLING LOG

DATE: 11-7-25

North 1/4 off of CRT

NAME: Larsy Rasmussen

ADDRESS: 433 Clark Mead, NE

LAT: 41 MIN: 20 SEC: 16.2

WELL LOCATION: North East corner

LON: 96 MIN: 30 SEC: 48.08

PURPOSE OF WELL: Test Hole

TEST HOLE DEPTH: 180' WELL DEPTH: _____

STATIC WATER LEVEL: _____

TEST HOLE DIA: _____ BORE HOLE DIA: _____

PUMPING WATER LEVEL: _____ AT _____ GPM

CASING LENGTH: _____ CASING DIA: _____

ESTIMATED CAPACITY OF WELL: _____ GPM

WALL THICKNESS: _____ MATERIAL: _____

FROM: _____ TO: _____ OPEN HOLE

SCREEN LENGTH: _____ SCREEN DIA: _____

FROM: _____ TO: _____ BETONITE SEAL

SLOT: _____ TYPE: _____

FROM: _____ TO: _____ GRAVEL

LOOP DEPTH: _____ # OF LOOPS: _____ SIZE: _____

FROM: _____ TO: _____ BETONITE SEAL

FROM TO MATERIAL DRILLED

DENSITY/HARDNESS COLOR

FROM	TO	MATERIAL DRILLED	DENSITY/HARDNESS	COLOR
0	10	Black Clay	Soft	
10	50	Brown clay	Soft	
50	60	med to coarse brown sand		
60	73	Coarse sand some rocks	Brown + orange	
73	73 1/2	Rocky layer	Hard	
73 1/4	75	Coarse orange + brown sand		
75	98	raw clay		
98	100	Coarse orange sand	chattering	
100	145	med white sandstone	cemented	
145	146	orange med sandstone		
146	170	blue shale	stiff	
170	175	red + grey clay		
175	180	red clay		

Checked water level in Test Hole Sat All Day

41'

TOP SOIL



Test Hole #1 IRR TEST Hole Center of quarter Sec 27 DRILLING LOG

DATE: _____

NAME: Larry Rasmussen

ADDRESS: _____

LAT: 41 MIN: 19 SEC: 56.00

WELL LOCATION: North quarter OFF OF CRT

LON: 96 MIN: 30 SEC: 59.79

PURPOSE OF WELL: _____

TEST HOLE DEPTH: 340' WELL DEPTH: _____

STATIC WATER LEVEL: _____

TEST HOLE DIA: 6" BORE HOLE DIA: _____

PUMPING WATER LEVEL: _____ AT _____ GPM

LOOP DEPTH: _____ #OF LOOPS: _____ SIZE: _____

ESTIMATED CAPACITY OF WELL: _____ GPM

CASING LENGTH: _____ CASING DIA: _____

FROM: _____ TO: _____ OPEN HOLE

WALL THICKNESS: _____ MATERIAL: _____

FROM: _____ TO: _____ BETONITE SEAL

SCREEN LENGTH: _____ SCREEN DIA: _____

FROM: _____ TO: _____ GRAVEL

SLOT _____ TYPE _____

FROM: _____ TO: _____ BETONITE SEAL

TRADE NAME: _____

FROM: _____ TO: _____ PACK SAND

FROM	TO	MATERIAL/COLOR	HARDNESS
<u>0</u>	<u>5</u>	<u>Black clay</u>	_____
<u>5</u>	<u>60</u>	<u>Brown clay</u>	_____
<u>60</u>	<u>70</u>	<u>med TO coarse brown sand</u>	_____
<u>70</u>	<u>85</u>	<u>Brown clay</u>	_____
<u>85</u>	<u>95</u>	<u>yellow clay</u>	_____
<u>95</u>	<u>100</u>	<u>Red + Gray clay</u>	_____
<u>100</u>	<u>105</u>	<u>Grey + yellow clay</u>	_____
<u>105</u>	<u>115</u>	<u>Grey clay</u>	_____
<u>115</u>	<u>130</u>	<u>med TAN Sandstone</u>	_____
<u>130</u>	<u>165</u>	<u>Gray clay</u>	_____
<u>165</u>	<u>210</u>	<u>Red + Gray clay</u>	_____
<u>210</u>	<u>240</u>	<u>Grey clay</u>	_____
<u>240</u>	<u>241</u>	<u>Hard Layer</u>	_____
<u>241</u>	<u>250</u>	<u>fine TAN Sandstone TAN</u>	_____
<u>250</u>	<u>260</u>	<u>Gray clay</u>	_____
<u>260</u>	<u>261</u>	<u>Hard layer</u>	_____

261 290 Gray clay STRIPS of SANDSTONE
 290 291 Hard Layer
 291 305 Gray clay
 305 ~~333~~ FINE TAN SANDSTONE TAN
 333 ~~333~~
~~333~~ 340 Blue clay

30
 33
 33

10'



FRR TEST Hole #2 DRILLING LOG

DATE: 3-27-25

NAME: Larry Passmore

ADDRESS: _____

LAT: 41 MIN: 19 SEC: 44.11970

WELL LOCATION: SE corner of quarter on CRT

LO: 96 MIN: 30 SEC: 44.133

PURPOSE OF WELL: _____

TEST HOLE DEPTH: 395' WELL DEPTH: _____

STATIC WATER LEVEL: _____

TEST HOLE DIA: _____ BORE HOLE DIA: _____

PUMPING WATER LEVEL: _____ AT _____ GPM

LOOP DEPTH: _____ #OF LOOPS: _____ SIZE: _____

ESTIMATED CAPACITY OF WELL: _____ GPM

CASING LENGTH: _____ CASING DIA: _____

FROM: _____ TO: _____ OPEN HOLE

WALL THICKNESS: _____ MATERIAL: _____

FROM: _____ TO: _____ BETONITE SEAL

SCREEN LENGTH: _____ SCREEN DIA: _____

FROM: _____ TO: _____ GRAVEL

SLOT _____ TYPE _____

FROM: _____ TO: _____ BETONITE SEAL

TRADE NAME: _____

FROM: _____ TO: _____ PACK SAND

FROM	TO	MATERIAL/COLOR	HARDNESS
<u>0</u>	<u>10</u>	<u>Brown clay</u>	
<u>10</u>	<u>25</u>	<u>TAN clay</u>	
<u>25</u>	<u>35</u>	<u>Brown clay</u>	
<u>35</u>	<u>95</u>	<u>grey clay</u>	
<u>95</u>	<u>120</u>	<u>TAN clay</u>	
<u>120</u>	<u>130</u>	<u>med Brown SAND</u>	
<u>130</u>	<u>150</u>	<u>TAN clay</u>	
<u>150</u>	<u>155</u>	<u>yellow clay</u>	
<u>155</u>	<u>160</u>	<u>med orange SAND</u>	
<u>160</u>	<u>170</u>	<u>yellow clay</u>	
<u>170</u>	<u>175</u>	<u>Fine yellow Sandstone</u>	
<u>175</u>	<u>230</u>	<u>Blue clay</u>	
<u>230</u>	<u>290</u>	<u>Red + Grey clay</u>	
<u>290</u>	<u>360</u>	<u>Blue Shale</u>	
<u>360</u>	<u>395</u>	<u>Blue Shale</u>	

^{195'} Hard Layer

^{203'} Hard Layer

Test Hole #3



DRILLING LOG

DATE: 3-27-25

NAME: Larry Rasmussen

ADDRESS:

LAT: 41 MIN: 19 SEC: 44.81

WELL LOCATION:

LON: 96 MIN: 30 SEC: 55.77

PURPOSE OF WELL:

TEST HOLE DEPTH: 385' WELL DEPTH:

STATIC WATER LEVEL:

TEST HOLE DIA: BORE HOLE DIA:

PUMPING WATER LEVEL: AT GPM

LOOP DEPTH: #OF LOOPS: SIZE:

ESTIMATED CAPACITY OF WELL: GPM

CASING LENGTH: CASING DIA

FROM: TO: OPEN HOLE

WALL THICKNESS: MATERIAL:

FROM: TO: BETONITE SEAL

SCREEN LENGTH: SCREEN DIA:

FROM: TO: GRAVEL

SLOT TYPE

FROM: TO: BETONITE SEAL

TRADE NAME:

FROM: TO: PACK SAND

FROM	TO	MATERIAL/COLOR	HARDNESS
0	5	Black Clay	
5	15	Brown clay	
15	30	TAN clay	
30	32	med orange gravel	
32	52	TAN clay	
52	52 1/2	Hard crunchy layer NO Down Pressure	
52 1/2	55	Brown clay	
55	70	60' crunchy layer NO Down Pressure TAN clay	
70	80	Red + white SAND + gravel	
80	100	TAN clay	
100	101	crunchy layer NO Down Pressure	
100	115	yellow clay	
115	122	Grey clay	
122	140	yellow SAND stone med	
140	141	Hard Layer chewed thru it NO Down Pressure	
141	146	yellow SAND stone med	

PAGE 2 DRILLING LOG

DEPTH IN FEET FROM	TO	MATERIAL DRILLED / COLOR	HARDNESS
146	146 1/2	Hard Layer used Down Pressure	
146 1/2	150	yellow SANDSTONE med	
150	160	Brown SANDSTONE med	
160	200	grey clay STRIPS OF SANDSTONE	
200	220	Red clay Hard Layer AT 220' Down Pressure	
220	240	Grey clay some Thin STRIPS OF SANDSTONE	
240	260	Grey clay 255' Hard Layer Down Pressure	
260	281	Grey clay Hard Layers STRIPS OF SANDSTONE Down Pressure	
281	315	Grey clay Hard Layers STRIPS OF SANDSTONE Down Pressure	
315	316	Very Hard Layer Down Pressure	
316	320	Shale Grey	
320	332	Grey Shale	
332	333	Hard Layers	
333	342	SANDSTONE STRIPS OF grey shale med white	
342	343	Hard Layers	
343	360	SANDSTONE STRIPS OF shale med white	

GEOLOGICAL DRILLING KEY:

TYPE:	HARDINESS:	COLOR:
CLAY	CEMENTED	BLACK
CLAY STONE	CONSOLIDATED	BLUE
COBBLES	DENSE / STIFF	BROWN
FINE SAND	HARD	GRAY
GRAVEL	LOOSE	GREEN
LIMESTONE	SOFT	ORANGE
OCHRE	VERY HARD	PEPPER
SAND MED-COARSE	UNCONSOLIDATED	RED
SAND W/CLAY / SILT		TAN
SAND W/GRAVEL		WHITE
SANDSTONE		YELLOW
SANDY CLAY		
SHALE		
SILT		
SILTSTONE		
TOPSOIL		

RegCD: G-004150

Well #: UP-33

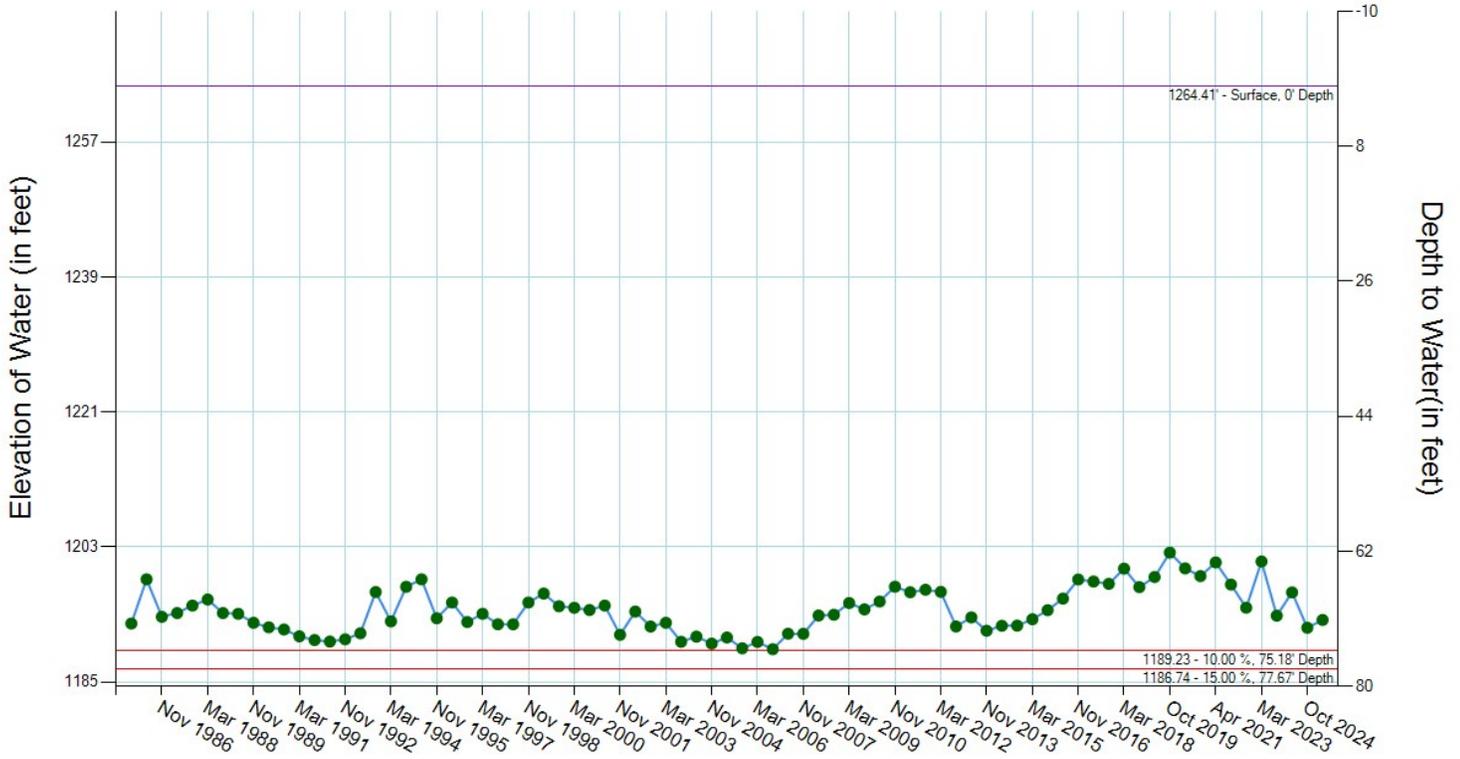
Region: Uplands

County: Saunders

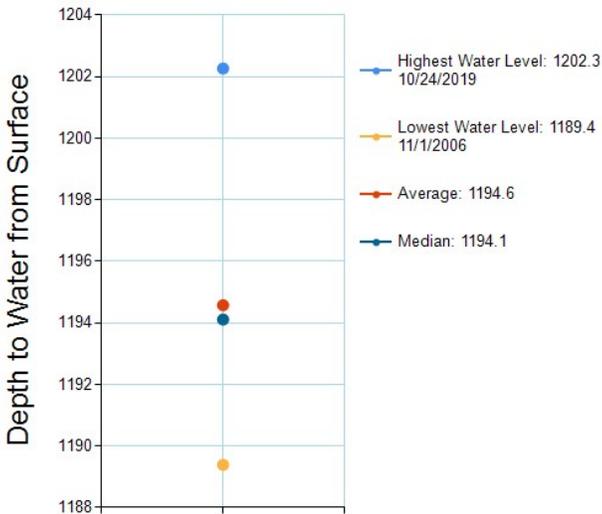
Legal: 16-8E-22

Owner Name: Kimberlee Sue Eggers

Water Level Readings



Record Results



Historical Readings (date - reading)

11/01/1985 - 1192.8	11/01/1995 - 1193.5	11/01/2005 - 1189.5	11/01/2015 - 1194.6
03/01/1986 - 1198.7	03/01/1996 - 1195.6	03/01/2006 - 1190.4	03/01/2016 - 1196.1
11/01/1986 - 1193.7	11/01/1996 - 1193	11/01/2006 - 1189.4	11/01/2016 - 1198.7
03/01/1987 - 1194.2	03/01/1997 - 1194.1	03/01/2007 - 1191.4	03/01/2017 - 1198.4
11/01/1987 - 1195.2	11/01/1997 - 1192.7	11/01/2007 - 1191.4	10/25/2017 - 1198.1
03/01/1988 - 1196	03/01/1998 - 1192.7	03/01/2008 - 1193.9	03/23/2018 - 1200.1
11/01/1988 - 1194.2	11/01/1998 - 1195.6	11/01/2008 - 1194	10/22/2018 - 1197.7
03/01/1989 - 1194.1	03/01/1999 - 1196.8	03/01/2009 - 1195.5	03/26/2019 - 1199
11/01/1989 - 1192.9	11/01/1999 - 1195.1	11/01/2009 - 1194.7	10/24/2019 - 1202.3
03/01/1990 - 1192.3	03/01/2000 - 1194.9	03/01/2010 - 1195.7	03/25/2020 - 1200.2
11/01/1990 - 1192	11/01/2000 - 1194.6	11/01/2010 - 1197.7	10/21/2020 - 1199.1
03/01/1991 - 1191.1	03/01/2001 - 1195.2	03/01/2011 - 1197	04/02/2021 - 1201
11/01/1991 - 1190.6	11/01/2001 - 1191.3	11/01/2011 - 1197.3	03/21/2022 - 1198
03/01/1992 - 1190.4	03/01/2002 - 1194.4	03/01/2012 - 1197	10/18/2022 - 1194.9
11/01/1992 - 1190.7	11/01/2002 - 1192.4	11/01/2012 - 1192.4	03/23/2023 - 1201.1
03/01/1993 - 1191.5	03/01/2003 - 1192.9	03/01/2013 - 1193.6	10/24/2023 - 1193.9
11/01/1993 - 1197	11/01/2003 - 1190.4	11/01/2013 - 1191.8	03/20/2024 - 1197
03/01/1994 - 1193.1	03/01/2004 - 1191.1	03/01/2014 - 1192.5	10/23/2024 - 1192.2
11/01/1994 - 1197.7	11/01/2004 - 1190.1	11/01/2014 - 1192.5	03/25/2025 - 1193.3
03/01/1995 - 1198.7	03/01/2005 - 1190.9	03/01/2015 - 1193.4	

RegCD: G-003116

Well #: UP-36A

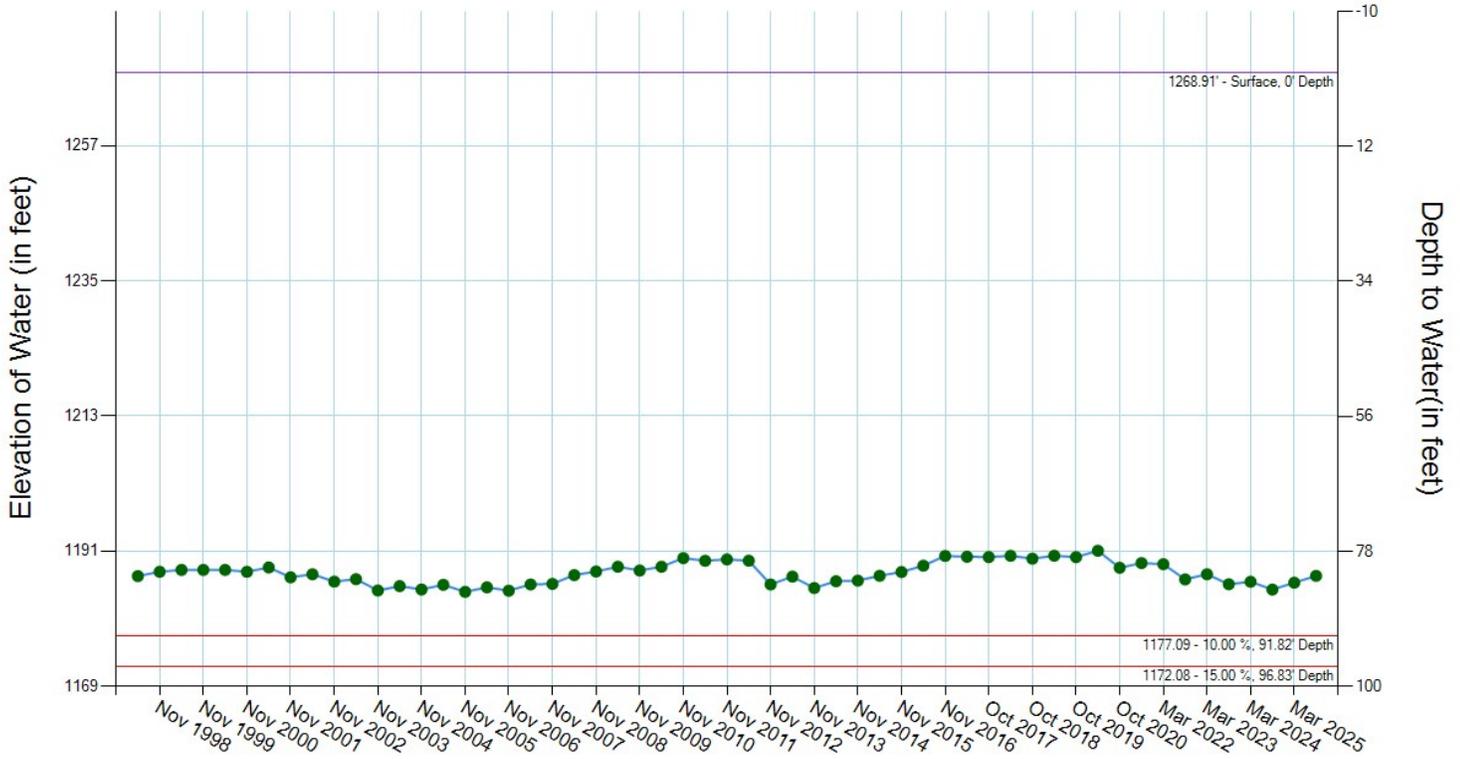
Region: Uplands

County: Saunders

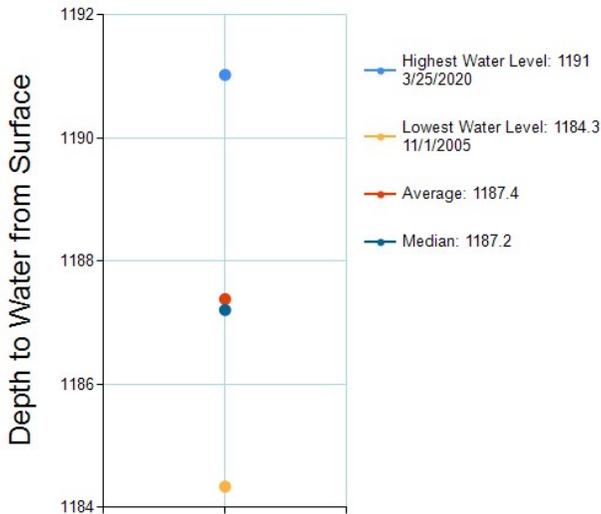
Legal: 16-8E-25

Owner Name: Culp Farms 1 LLC

Water Level Readings

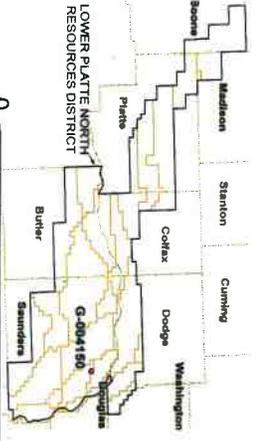


Record Results



Historical Readings (date - reading)

03/01/1998 - 1186.9	03/01/2005 - 1185.5	03/01/2012 - 1189.4	03/26/2019 - 1190.2
11/01/1998 - 1187.6	11/01/2005 - 1184.3	11/01/2012 - 1185.5	10/24/2019 - 1190
03/01/1999 - 1187.9	03/01/2006 - 1185.1	03/01/2013 - 1186.8	03/25/2020 - 1191
11/01/1999 - 1187.9	11/01/2006 - 1184.5	11/01/2013 - 1185	10/21/2020 - 1188.3
03/01/2000 - 1187.9	03/01/2007 - 1185.5	03/01/2014 - 1186.1	04/02/2021 - 1189
11/01/2000 - 1187.6	11/01/2007 - 1185.6	11/01/2014 - 1186.2	03/21/2022 - 1188.8
03/01/2001 - 1188.3	03/01/2008 - 1187.1	03/01/2015 - 1187	10/18/2022 - 1186.4
11/01/2001 - 1186.7	11/01/2008 - 1187.6	11/01/2015 - 1187.6	03/28/2023 - 1187.2
03/01/2002 - 1187.2	03/01/2009 - 1188.4	03/01/2016 - 1188.6	10/23/2023 - 1185.6
11/01/2002 - 1186	11/01/2009 - 1187.8	11/01/2016 - 1190.2	03/20/2024 - 1186
03/01/2003 - 1186.4	03/01/2010 - 1188.4	03/01/2017 - 1190.1	10/23/2024 - 1184.7
11/01/2003 - 1184.6	11/01/2010 - 1189.8	10/25/2017 - 1190	03/25/2025 - 1185.8
03/01/2004 - 1185.3	03/01/2011 - 1189.4	03/23/2018 - 1190.2	10/23/2025 - 1186.9
11/01/2004 - 1184.7	11/01/2011 - 1189.6	10/22/2018 - 1189.7	



LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

G-004150/UP-33

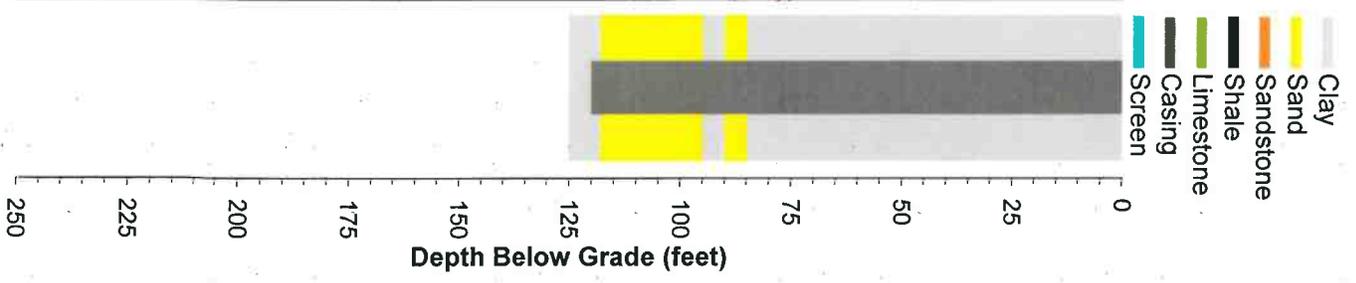
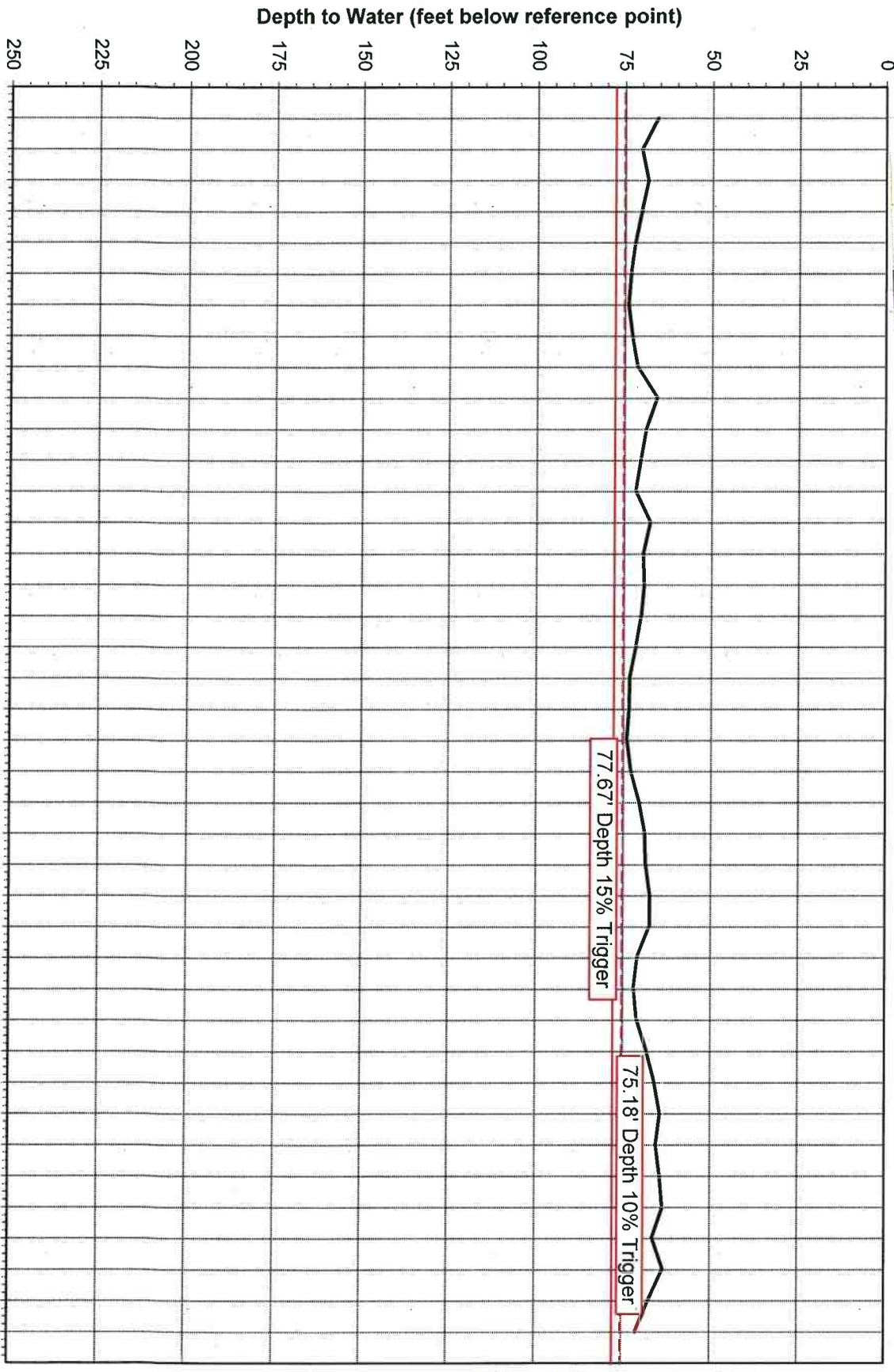
SUB AREA: LESHARA UPLANDS

SPRING LEVELS DEPTH TO WATER VS. TIME

SE 1/4, SW 1/4, SEC. 22, T16N, R8E

SPRING 1985 THROUGH SPRING 2025

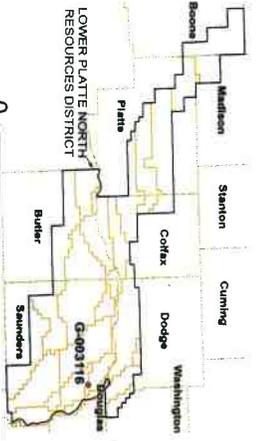
Well Depth: 120 ft
Well Screen Details Are Unknown
High Capacity Wells Within 1-Mile Radius: 1



LOWER PLATTE NORTH
Natural Resources District

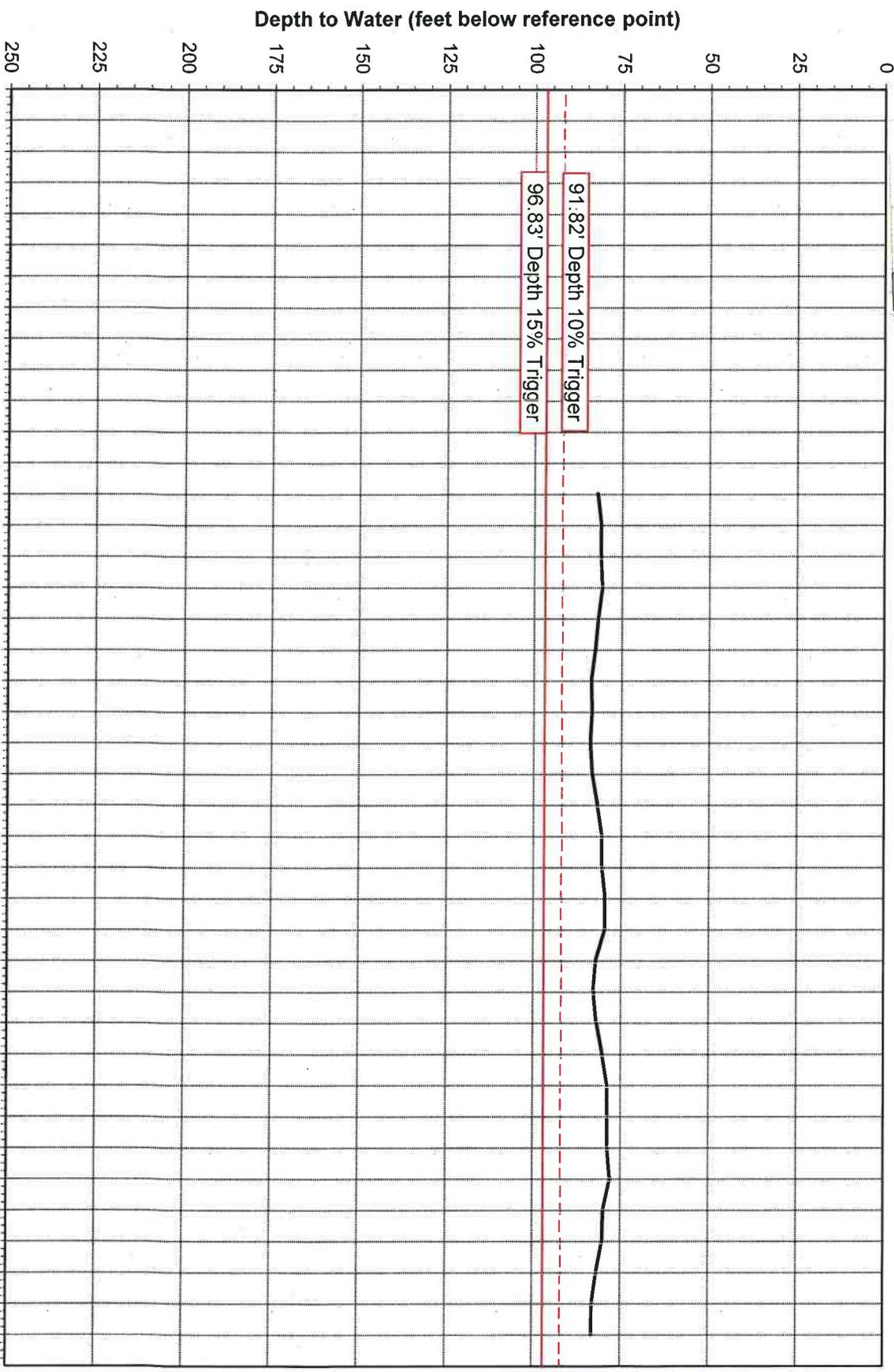
Date



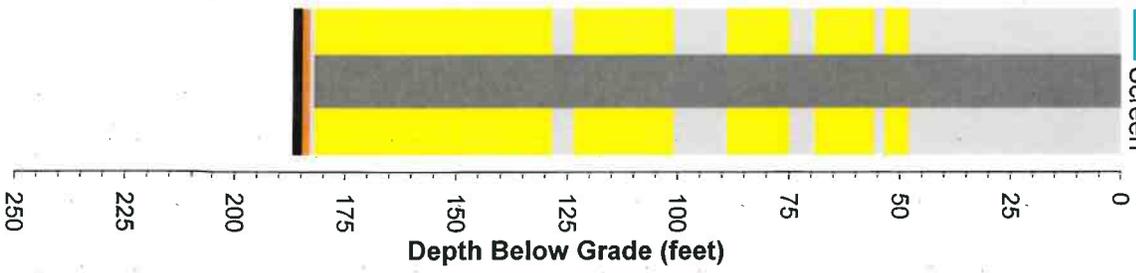


LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT
G-003116/UP-36A
SUB AREA: YUTAN
SPRING LEVELS DEPTH TO WATER VS. TIME
NW 1/4, NE 1/4, SEC. 25, T16N, R8E
SPRING 1985 THROUGH SPRING 2025

Well Depth: 182 ft
 Well Screen Details Are Unknown
 High Capacity Wells Within 1-Mile Radius: 4



- Clay
- Sand
- Sandstone
- Shale
- Limestone
- Casing
- Screen



LOWER PLATTE NORTH
Natural Resources District

Date





LOWER PLATTE NORTH
Natural Resources District



Board Meeting
Monday, November 10, 2025
Newman Grove

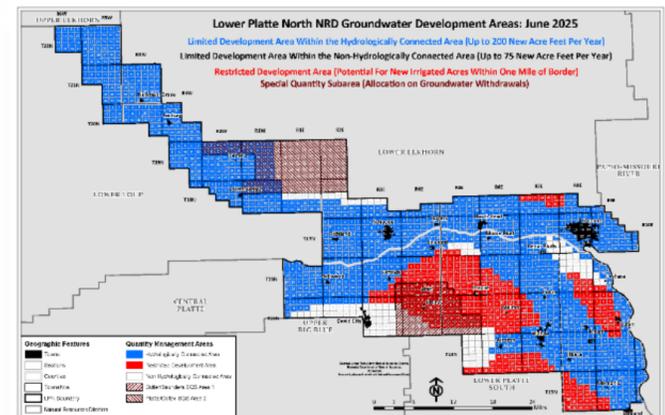
Special Quantity Sub Areas Reevaluation – Initial Findings

LRE WATER.COM

ROCKY MOUNTAIN | MIDWEST | SOUTHWEST | TEXAS

PROJECT PURPOSE

- 1) Review SQS boundary rationale using existing data
- 2) Conduct a desktop analysis of groundwater trends
- 3) Develop GIS maps of groundwater changes over time
- 4) Summarize findings, identify data gaps, and provide recommendations

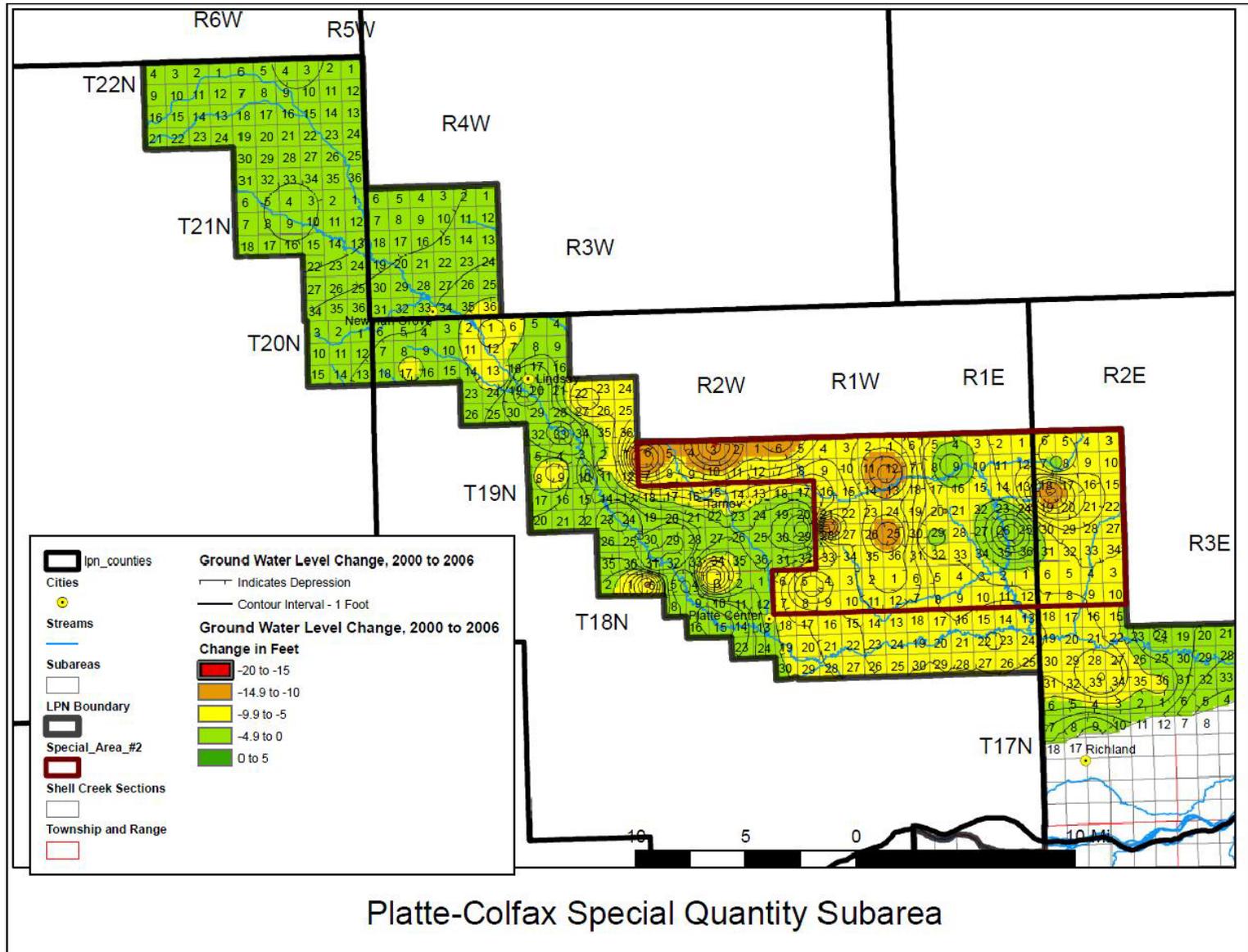


ESTABLISHMENT OF SQS AREAS

ESTABLISHMENT OF SQS AREAS

- Flash drought in 2012 led to widespread well interference complaints across the District
- Confined aquifers show variable thickness, extent, and connectivity along with high density of wells
- LPNNRD established SQS Areas in 2014 based upon maps established in the 2009 Hydrogeologic Evaluation and Subarea Delineation (2009)
 - Emphasis on groundwater declines 2000 - 2006
- Seasonal declines were documented, but neither SQS area met Phase II Quantity Control Triggers

ESTABLISHMENT OF SQS AREAS



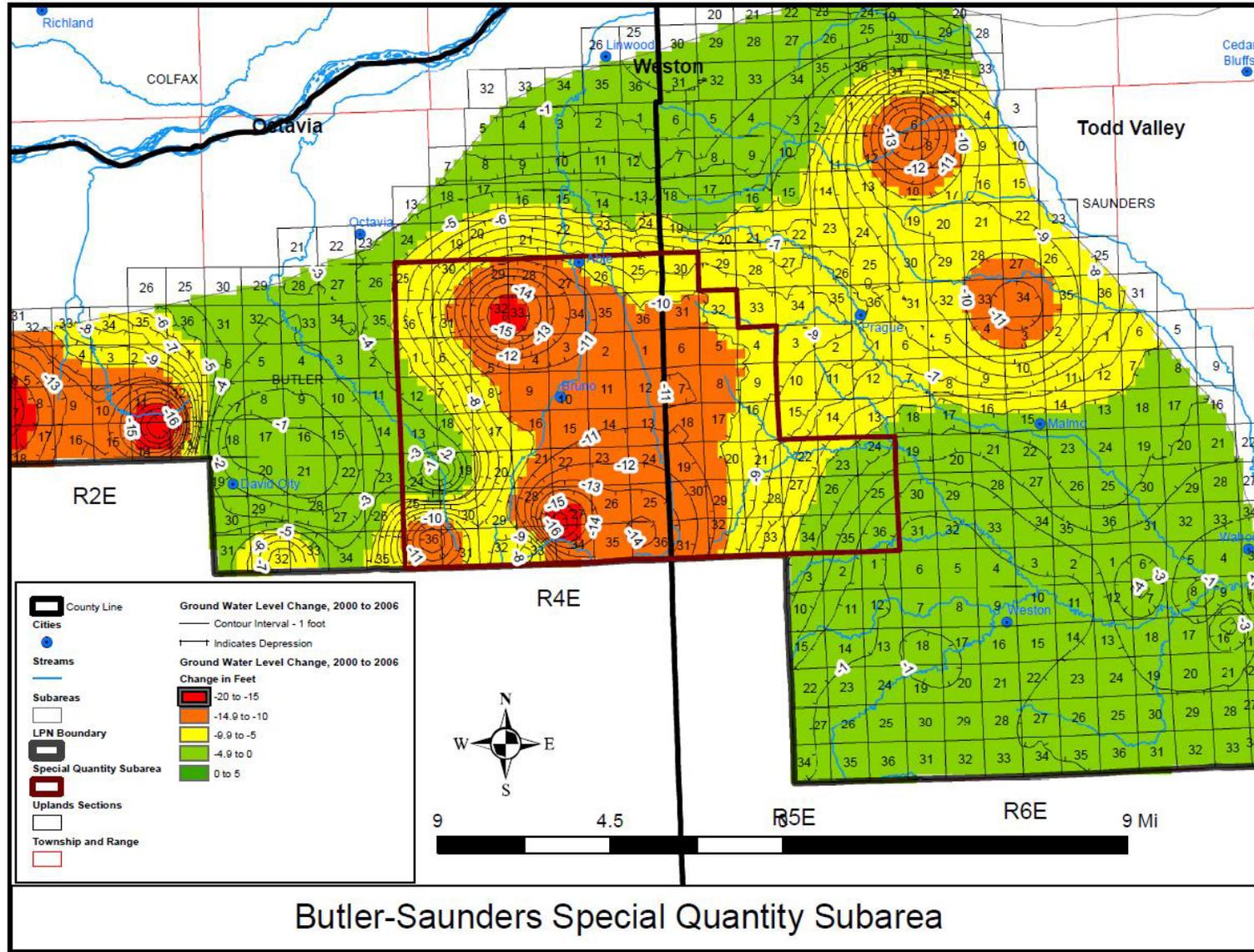
Lower Platte
North NRD

Special Quantity Ground
Water Management
Areas

LPNNRD Public Hearing
January 13, 2014



ESTABLISHMENT OF SQS AREAS



Butler-Saunders Special Quantity Subarea



Lower Platte
North NRD

Special Quantity Ground
Water Management
Areas

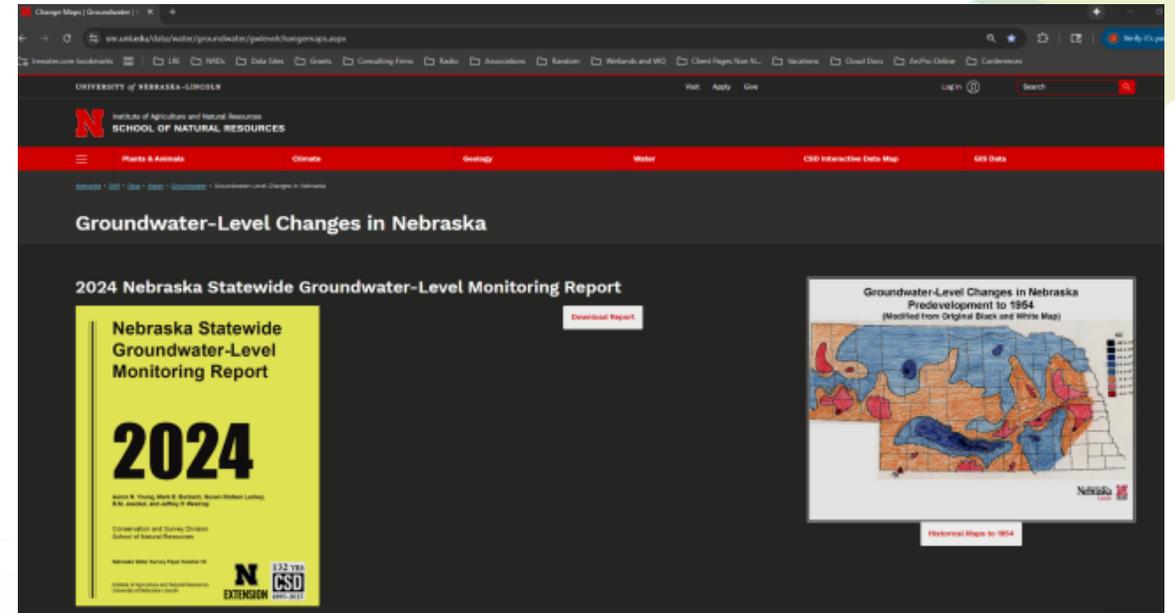
LPNNRD Public Hearing
January 13, 2014



DATA SOURCES

DATA SOURCES

- Hydrogeologic Evaluation and Subarea Delineation (OA, 2009)
 - Olsson Associates, 2009
- Hydrogeologic Assessment Report (LRE 2022-2023)
- UNL Groundwater Level Change Maps
 - UNL CSD Study (Korus, 2023)
 - Spring/Fall and dedicated monitoring wells



KEY FINDINGS

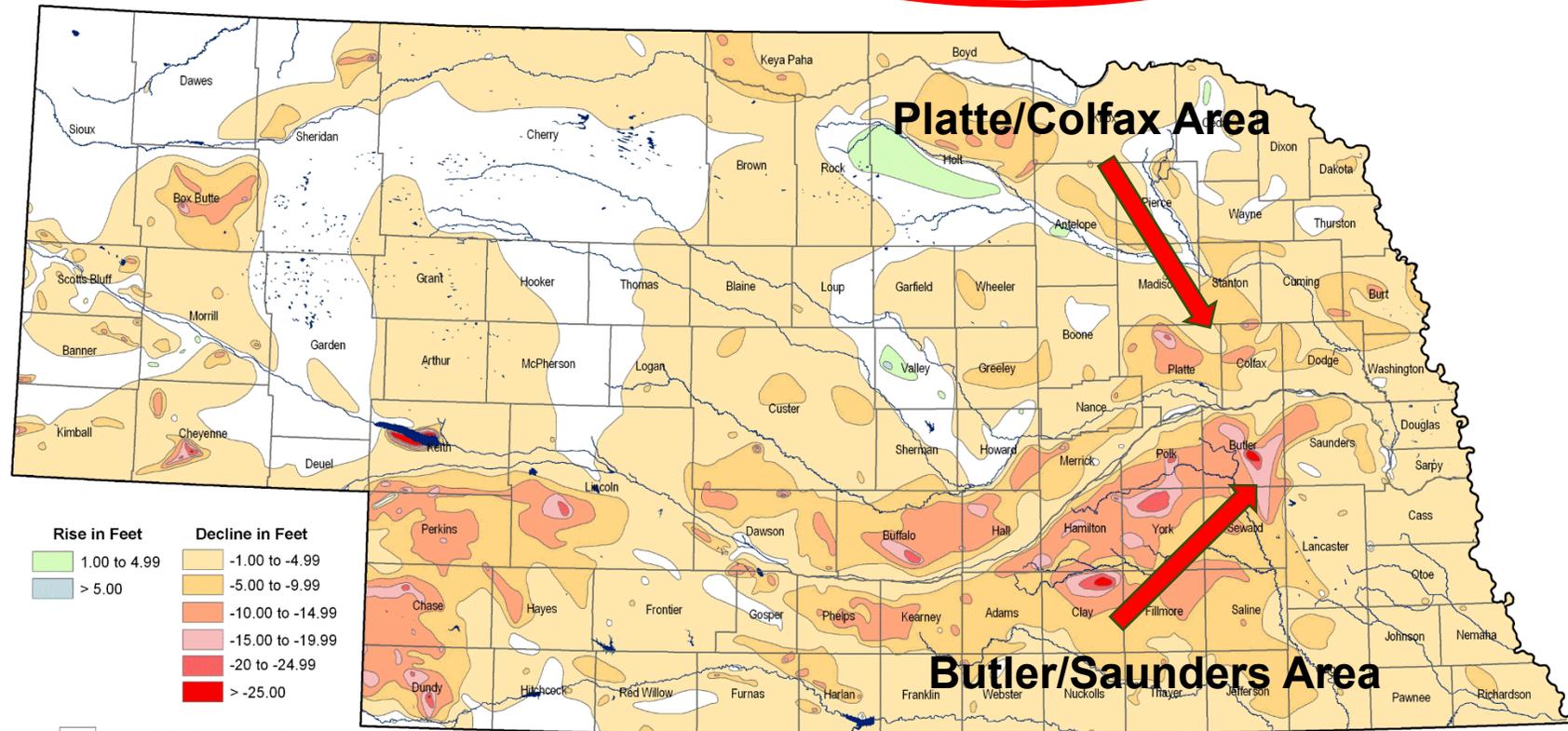
SHORT VS. LONG-TERM DECLINES

#1 – SHORT VS. LONG-TERM DECLINES

- The 2000 to 2006 drought conditions accelerated groundwater declines, but groundwater levels recovered in the following years
 - The region has not experienced similar drought conditions in the past 20 years, and portions of the SQS Areas' groundwater levels remain stable.
-
- Long-term declines are present in the eastern one-third of the Platte/Colfax SQS and the majority of the Butler/Saunders SQS

#1 – SHORT VS. LONG-TERM DECLINES

Groundwater-level Changes in Nebraska - Spring 2000 to Spring 2006



Rise in Feet	Decline in Feet
1.00 to 4.99	-1.00 to -4.99
> 5.00	-5.00 to -9.99
	-10.00 to -14.99
	-15.00 to -19.99
	-20 to -24.99
	> -25.00

< +/- 1.00 foot change or no data
 Surface Water

CONSERVATION AND SURVEY DIVISION (<http://csd.unl.edu>)
 School of Natural Resources (<http://snr.unl.edu>)
 Institute of Agriculture and Natural Resources/College of Arts and Sciences
 University of Nebraska-Lincoln

U.S. Geological Survey
 Water Resources Division - Nebraska District

Nebraska Natural Resources Districts

Central Nebraska Public Power and Irrigation District

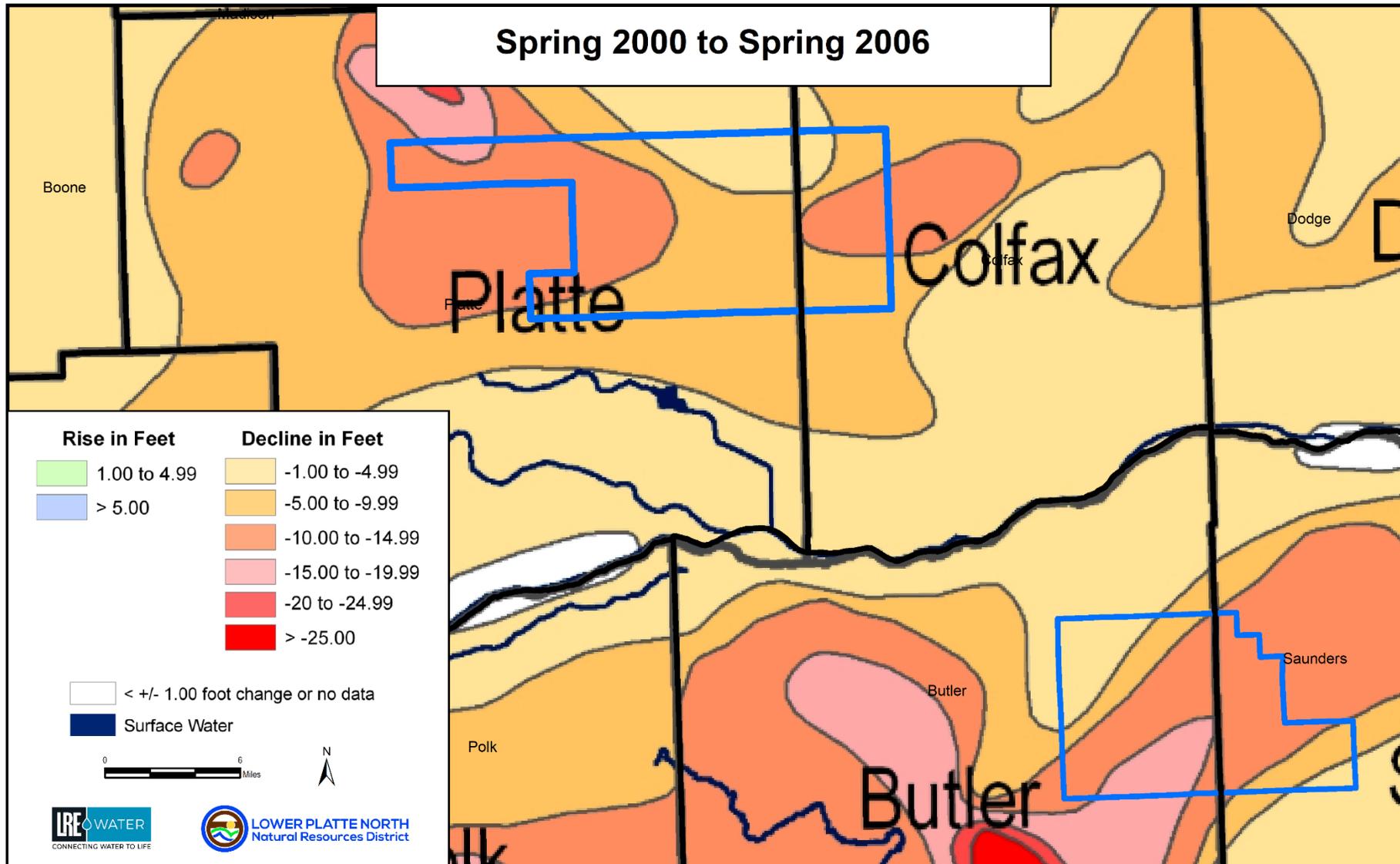
Mark Burbach, Water Levels Coordinator, CSD



The University of Nebraska-Lincoln is an equal opportunity educator and employer with a comprehensive plan for diversity.

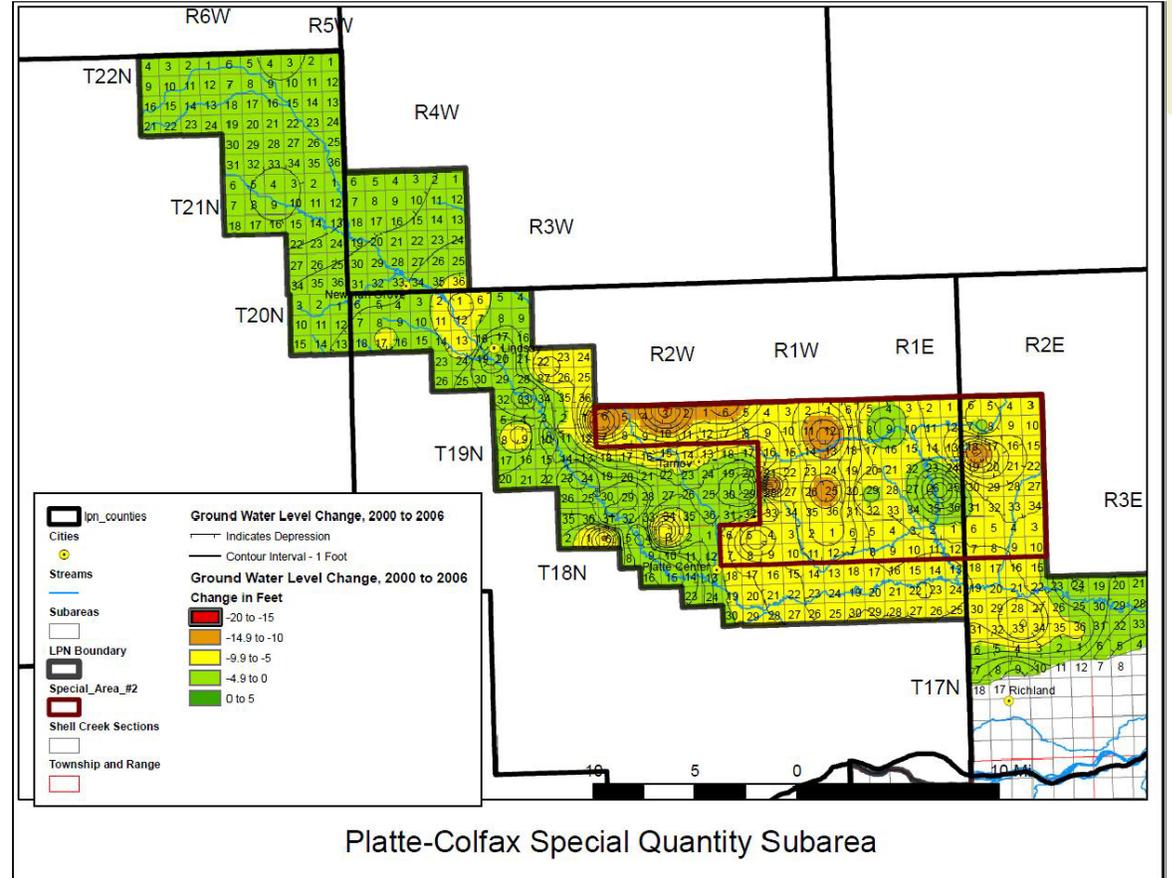
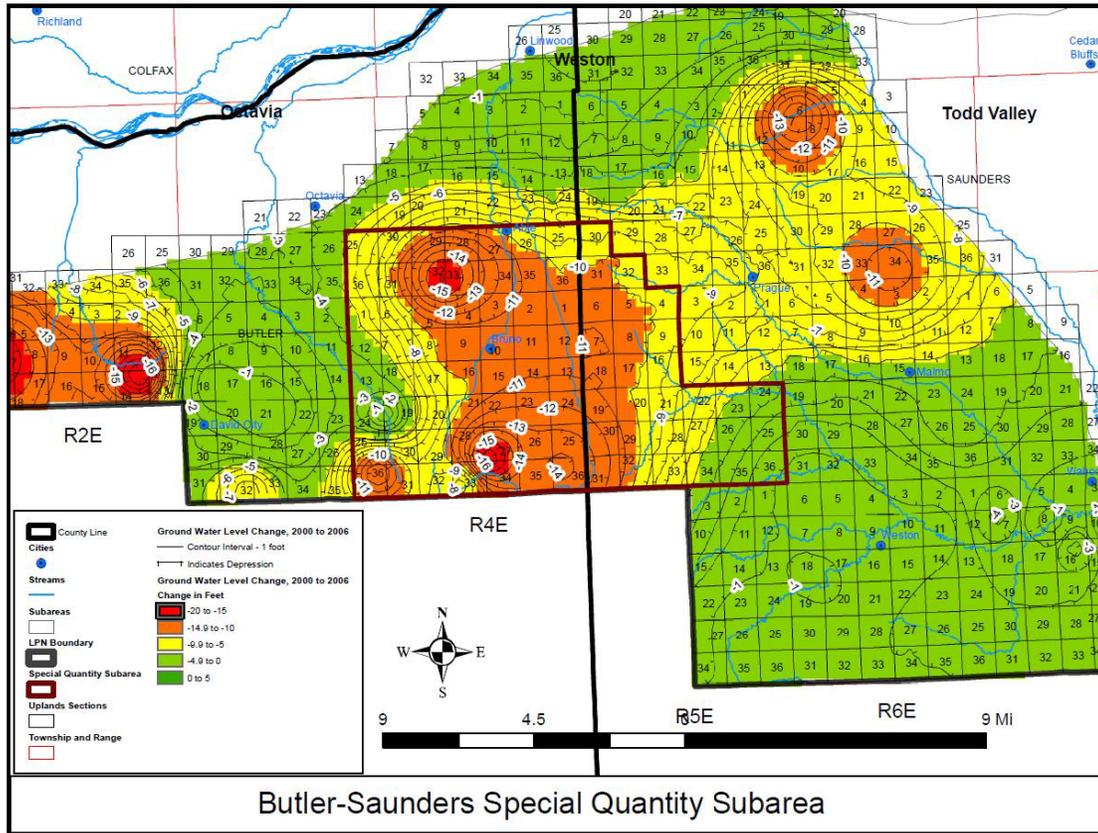


#1 – SHORT VS. LONG-TERM DECLINES



Source: UNL Institute of Agriculture & Natural Resources

#1 – SHORT VS. LONG-TERM DECLINES



Groundwater Changes 2000-2006 (Olsson Study, 2009)

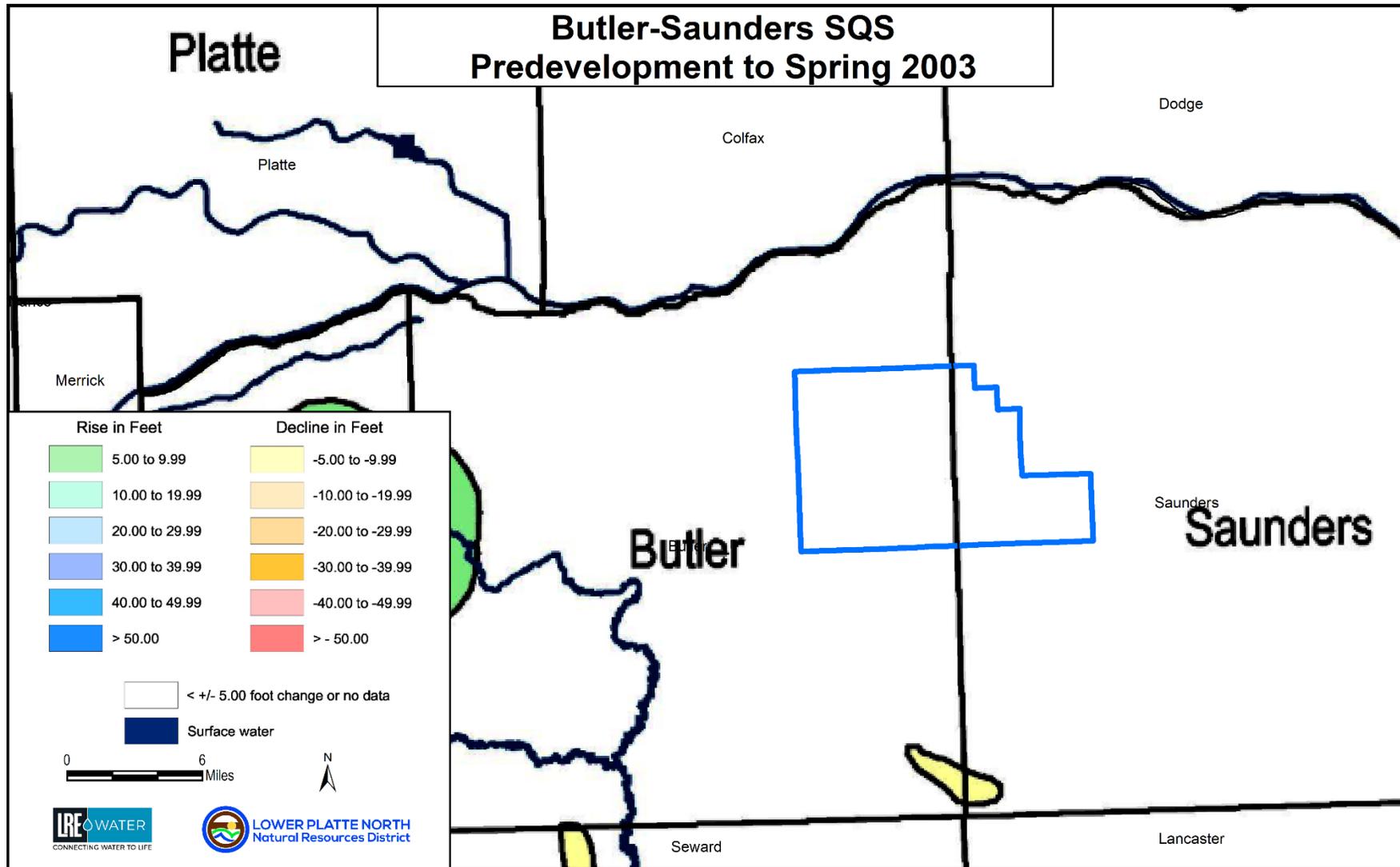
KEY FINDINGS

BUTLER-SAUNDERS SQS

#2 – BUTLER/SAUNDERS SQS AREA

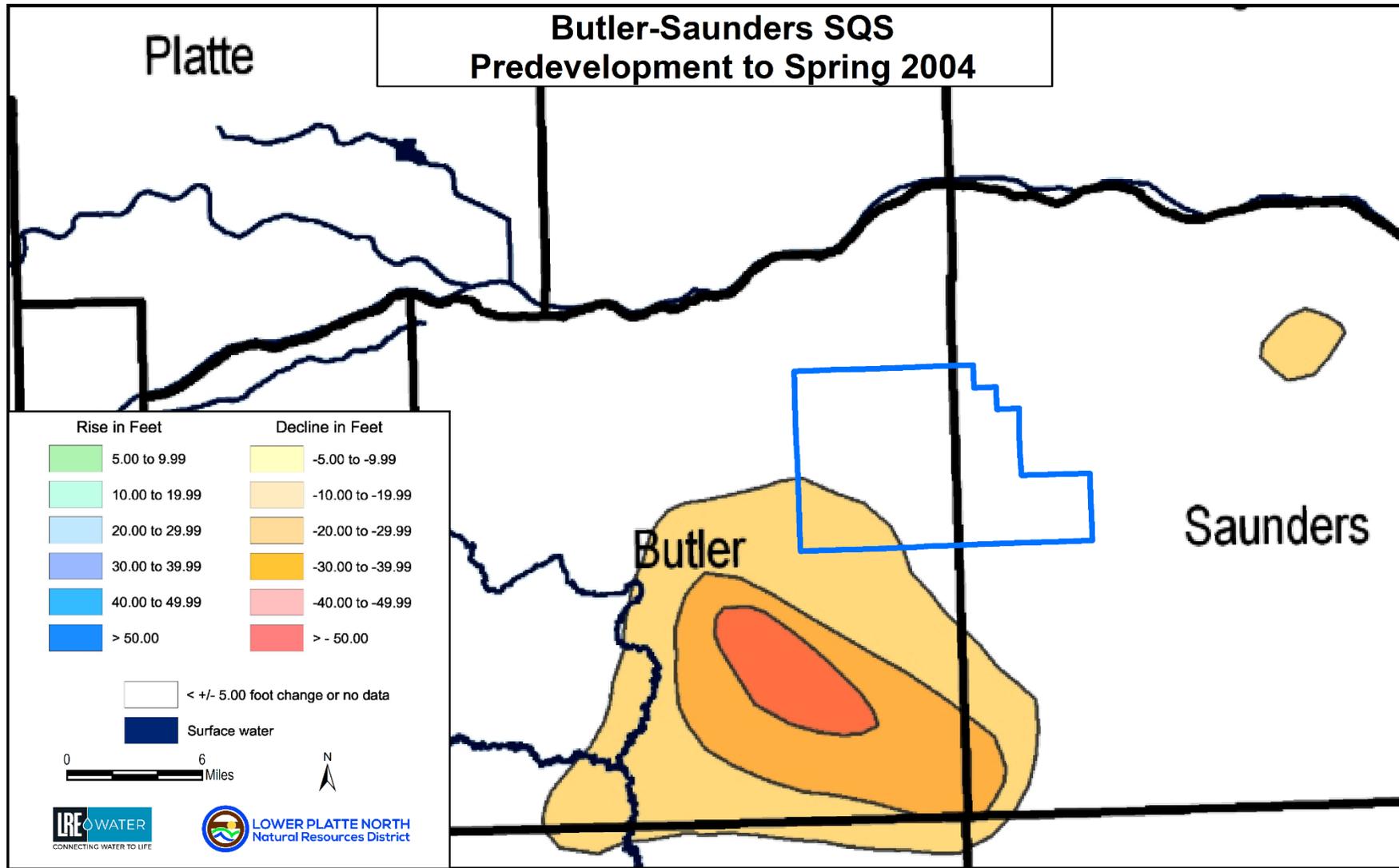
- Long-term groundwater declines are present and remain to be an issue across the majority of the area
- Groundwater declines are the result of over pumping, complexity and variability of the confined aquifers, and are exacerbated by drought
- UNL groundwater declines AND LRE Water groundwater decline data (1987-2025) are generally in agreement

#2 – BUTLER/SAUNDERS SQS AREA



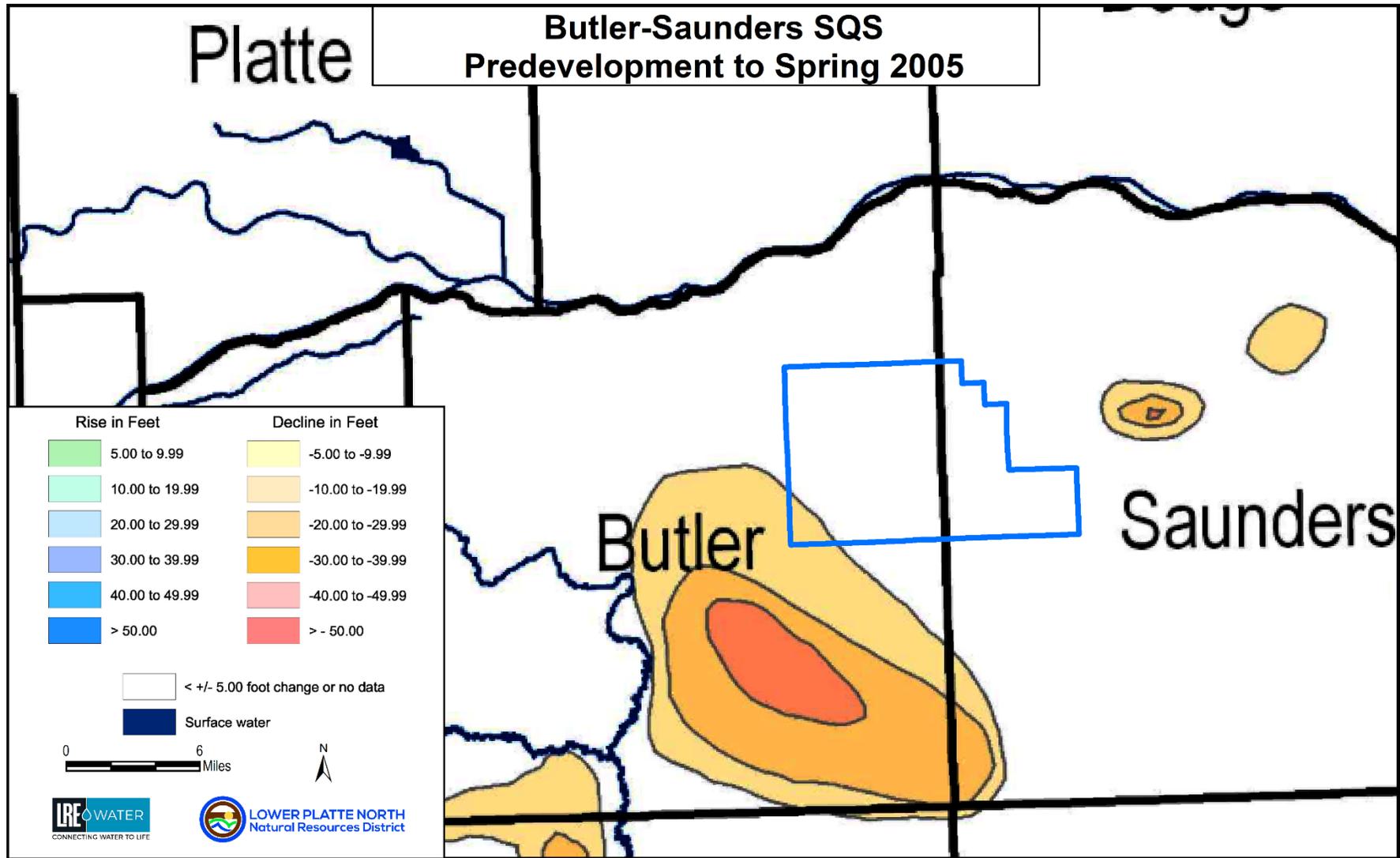
Source: UNL Institute of Agriculture & Natural Resources

#2 – BUTLER/SAUNDERS SQS AREA



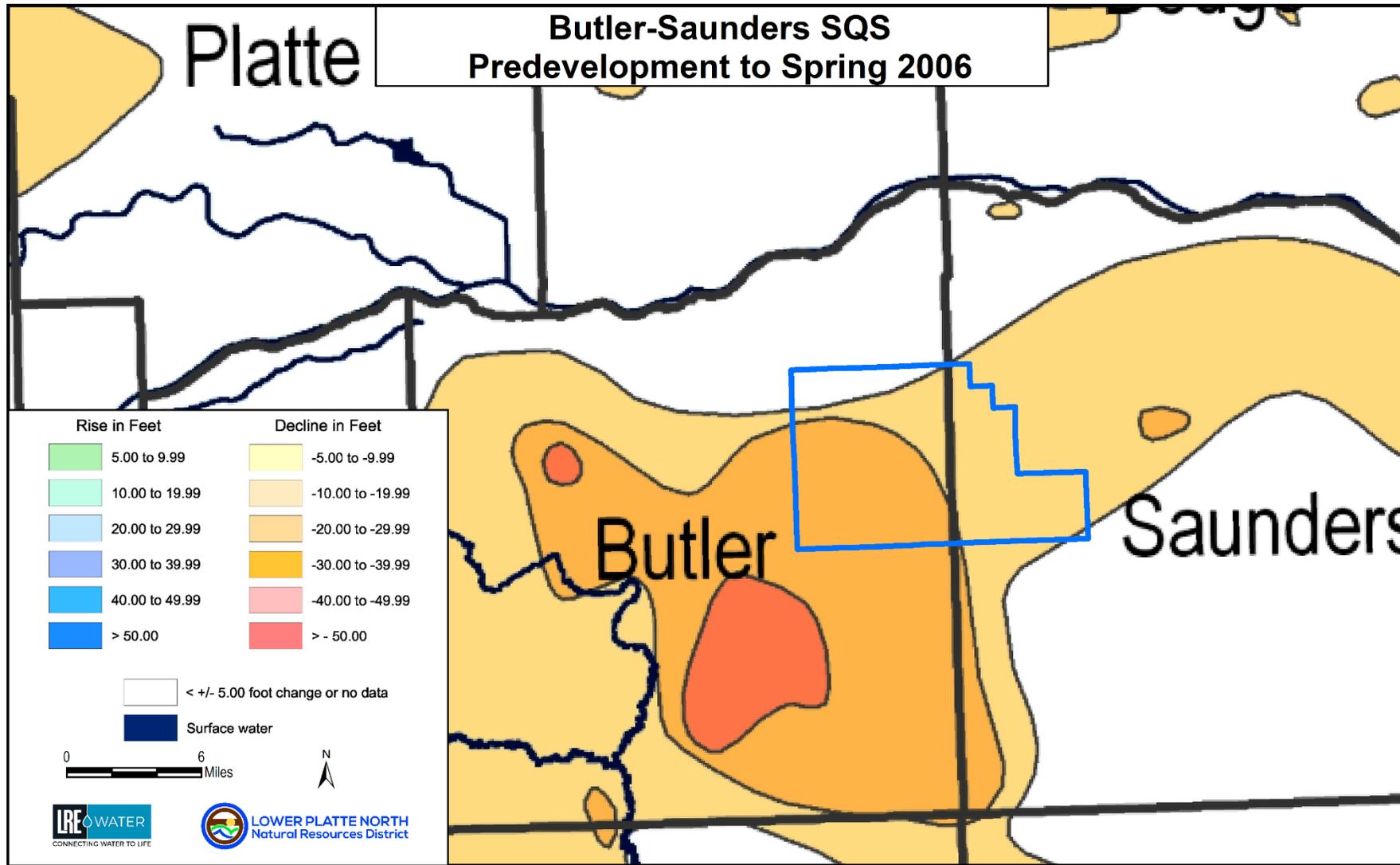
Source: UNL Institute of Agriculture & Natural Resources

#2 – BUTLER/SAUNDERS SQS AREA



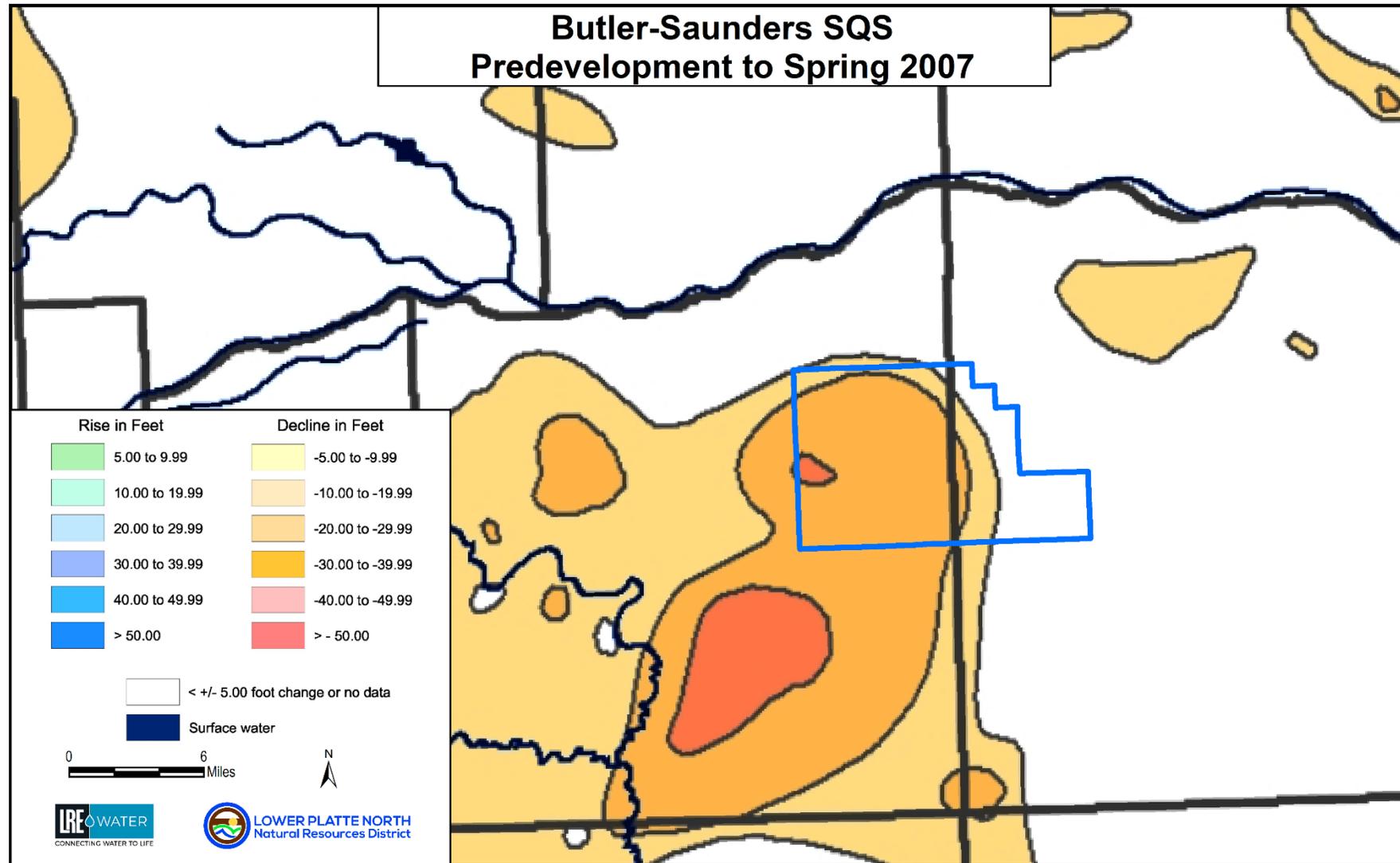
Source: UNL Institute of Agriculture & Natural Resources

#2 – BUTLER/SAUNDERS SQS AREA



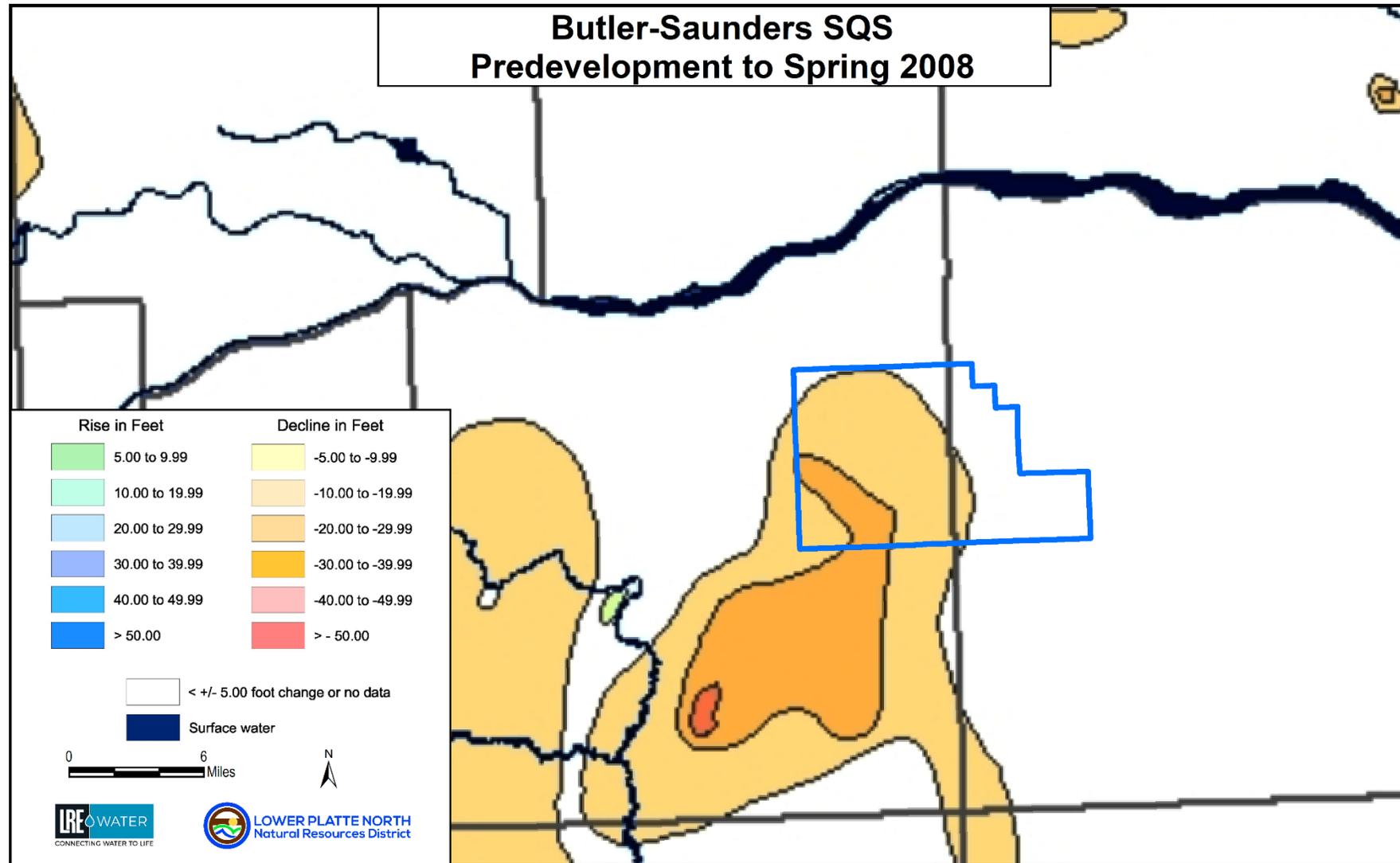
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#2 – BUTLER/SAUNDERS SQS AREA



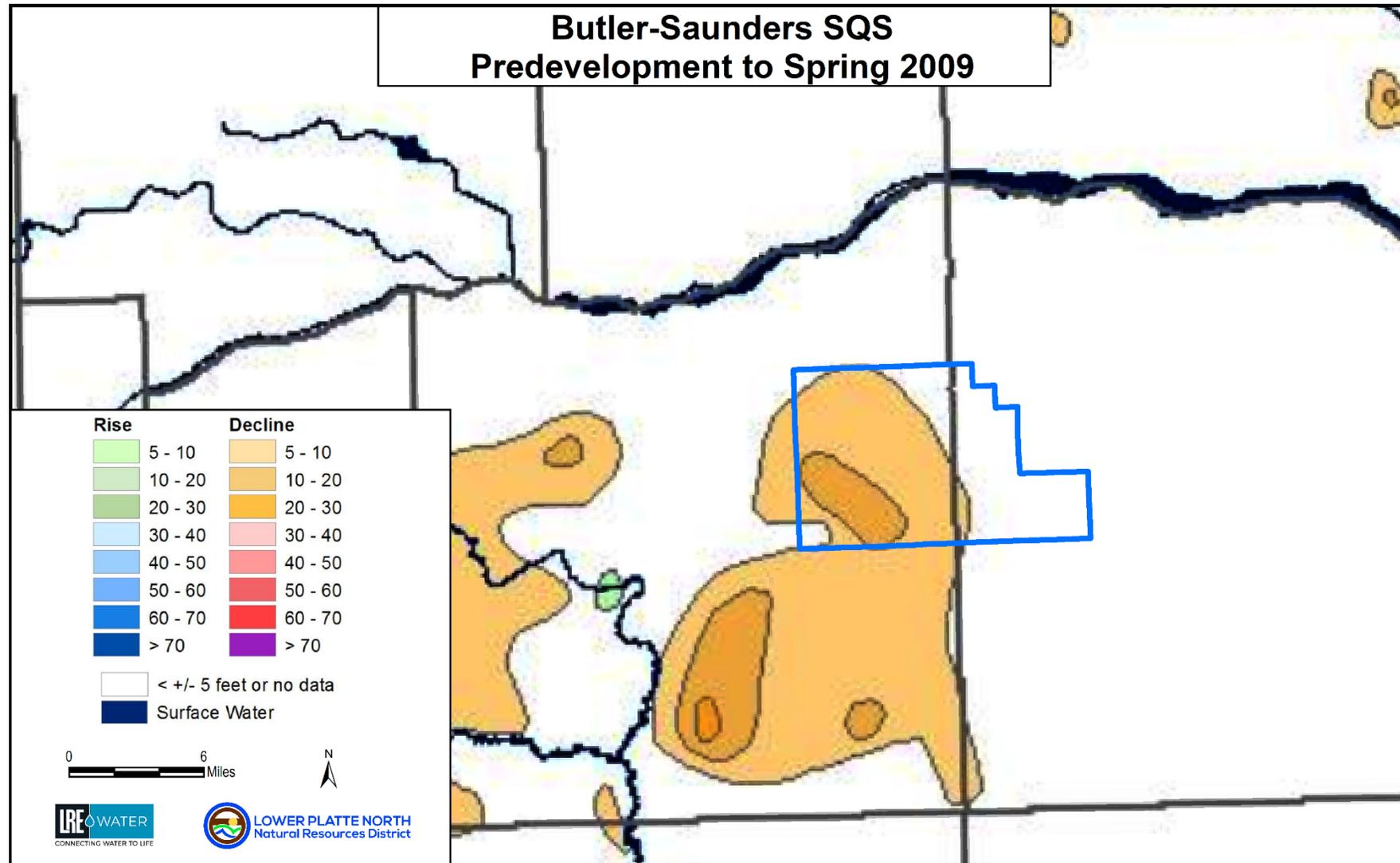
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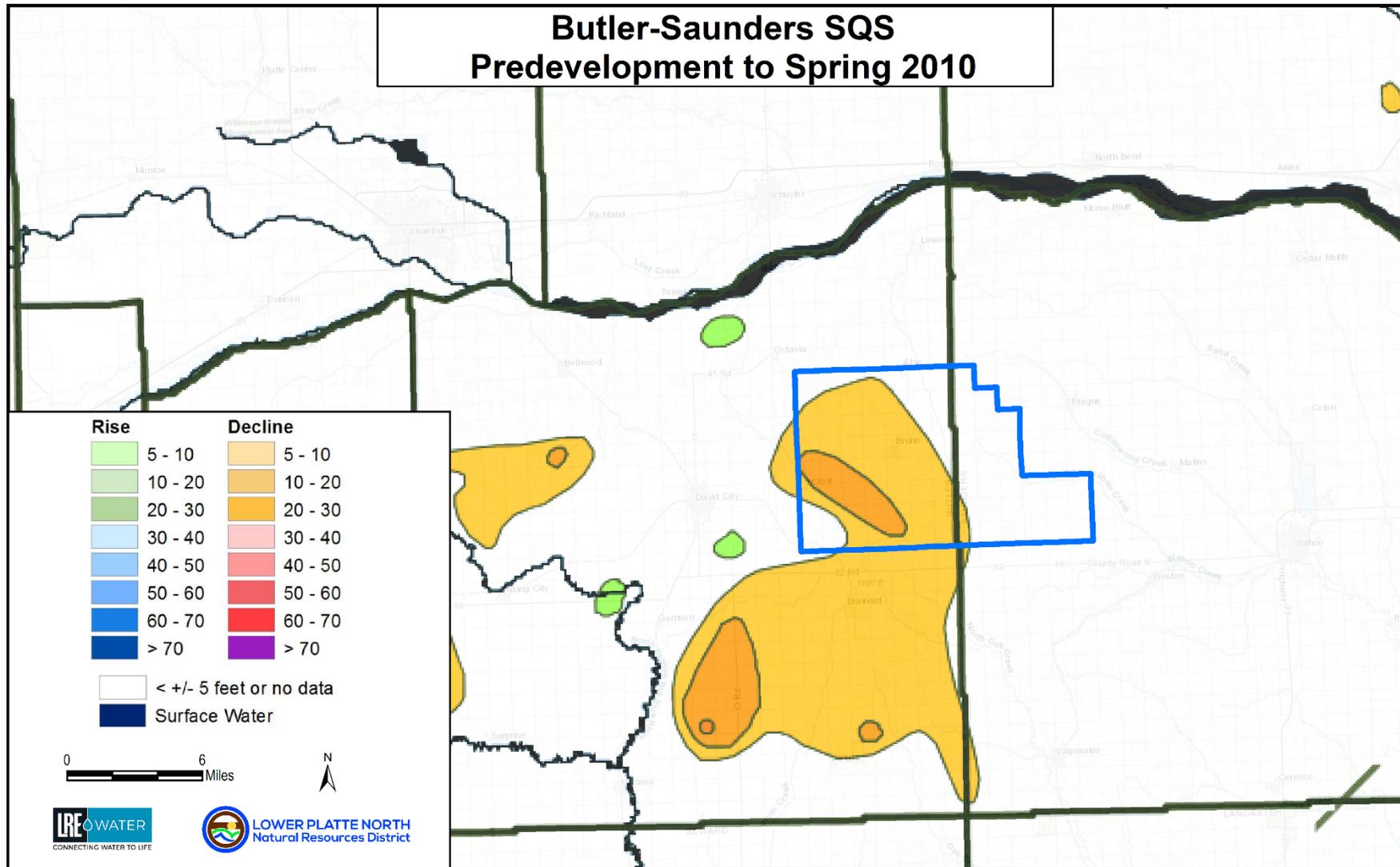
Source: UNL Institute of Agriculture & Natural Resources

#2 – BUTLER/SAUNDERS SQS AREA



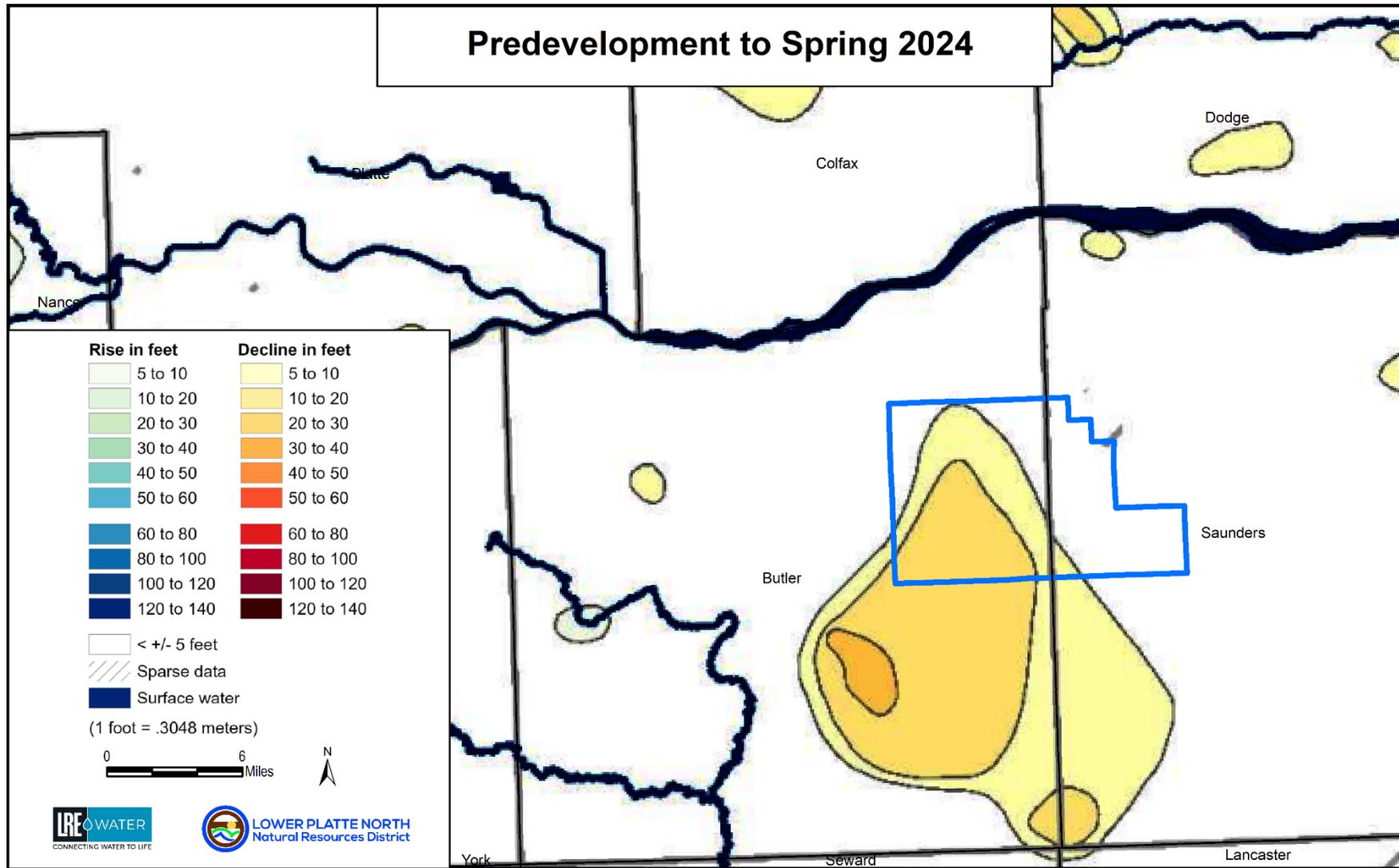
Source: UNL Institute of Agriculture & Natural Resources

#2 – BUTLER/SAUNDERS SQS AREA



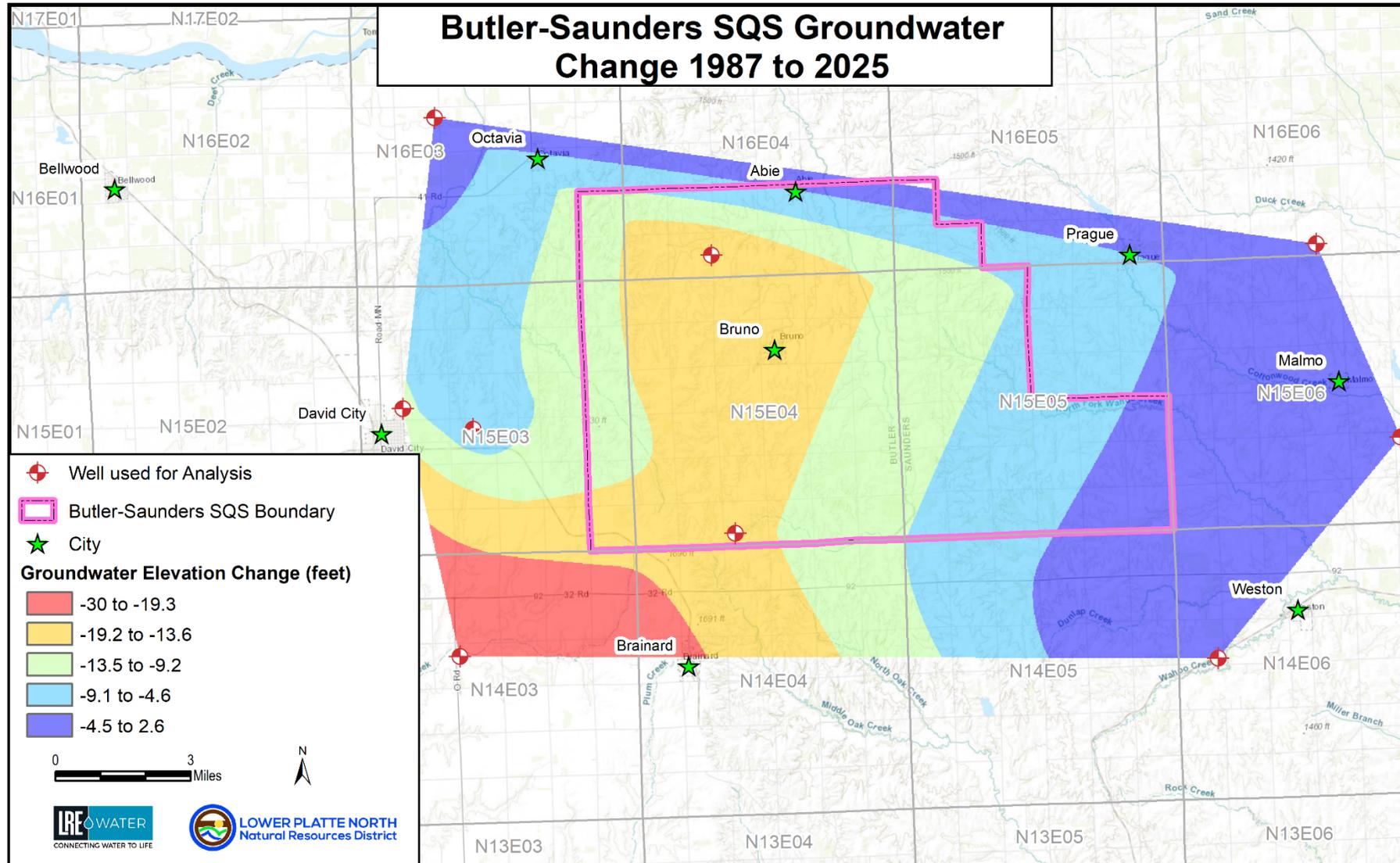
Source: UNL Institute of Agriculture & Natural Resources

#2 – BUTLER/SAUNDERS SQS AREA



Source: UNL Institute of Agriculture & Natural Resources

#2 – BUTLER/SAUNDERS SQS AREA



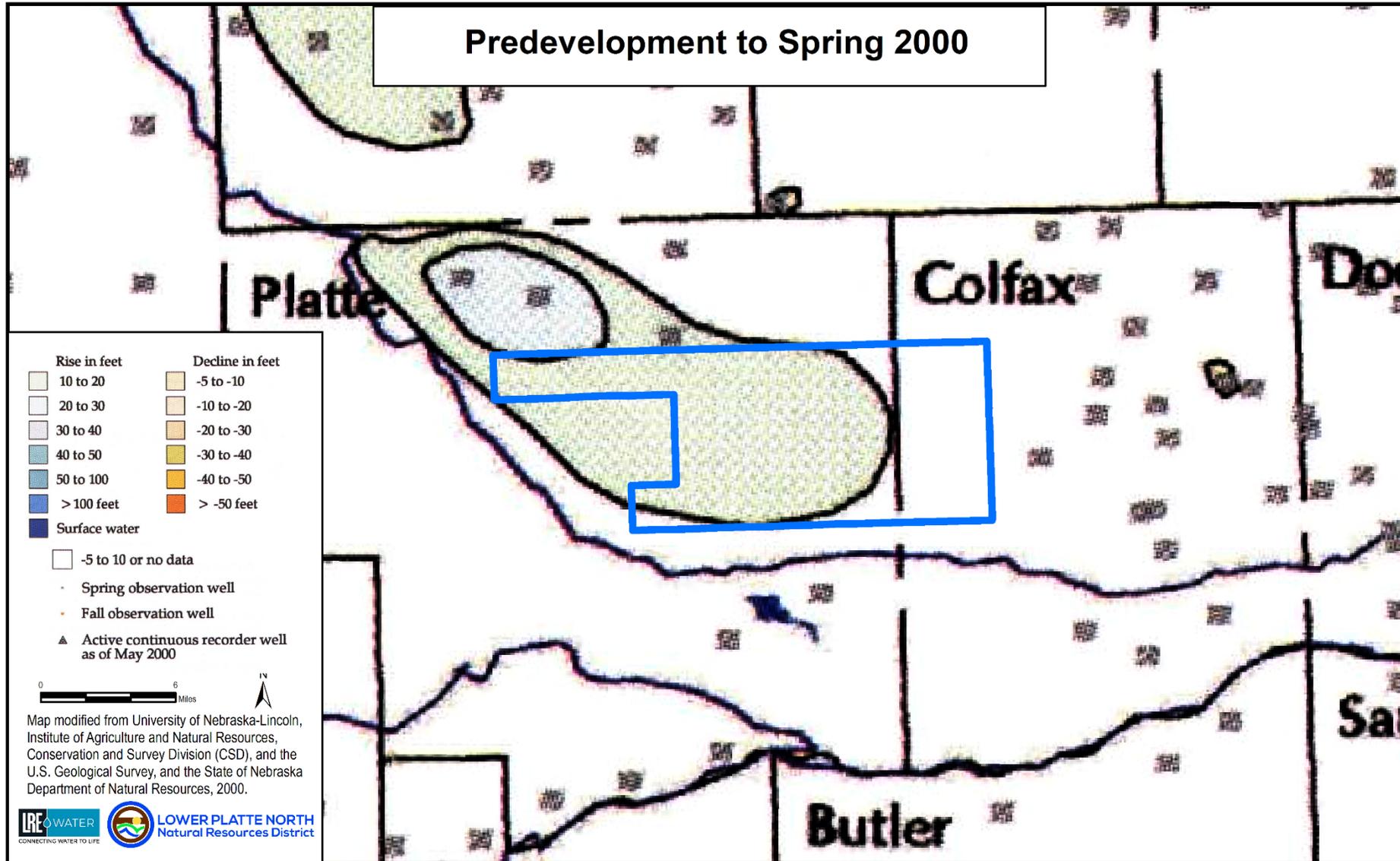
KEY FINDINGS

PLATTE-COLFAX SQS

#3 – PLATTE/COLFAX SQS AREA

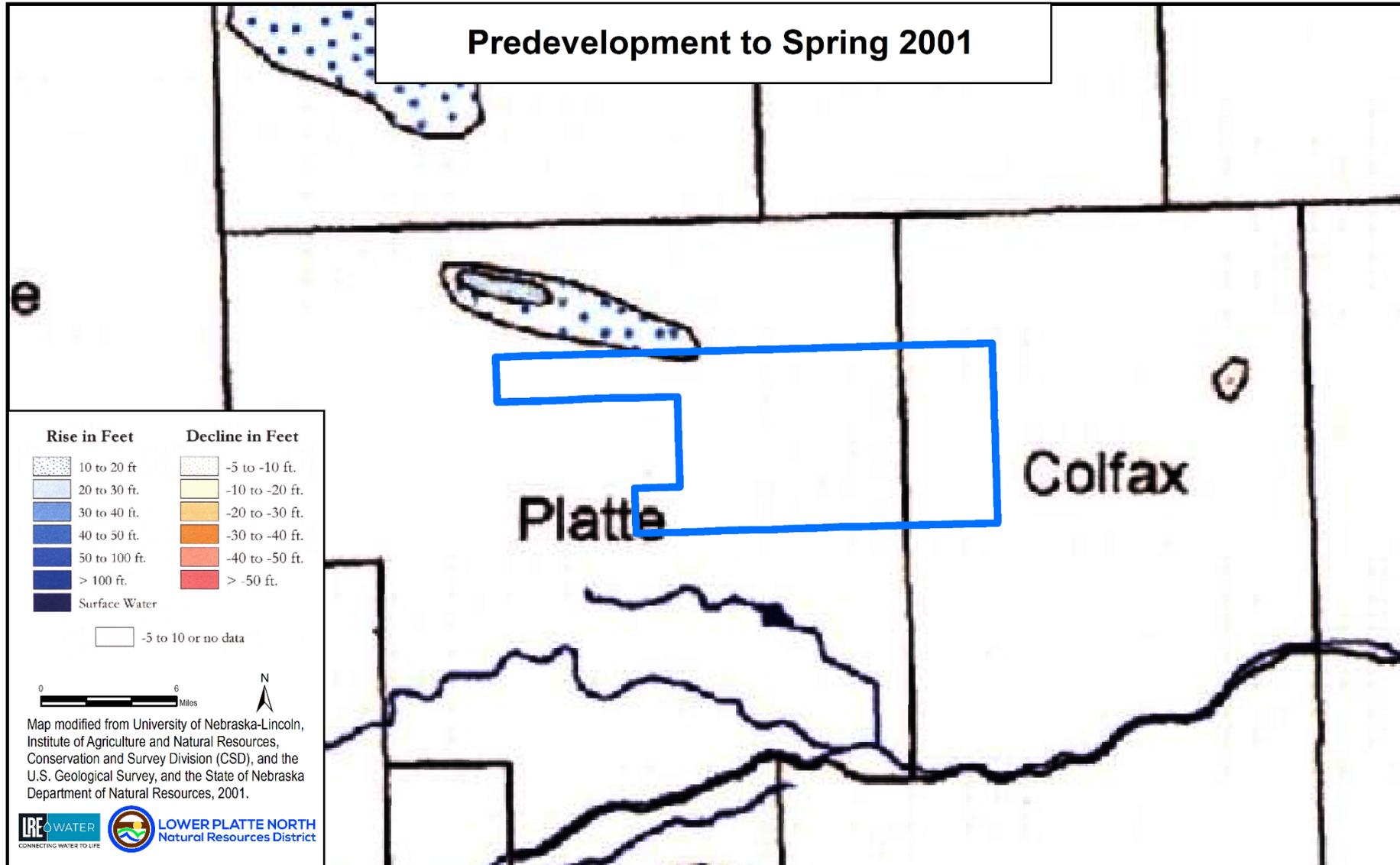
- In general, the eastern one-third of the SQS shows historical and continued declines
- Some portions of the aquifer have transitioned from confined to unconfined due to over pumping combined with drought conditions
- The area experiencing the most issues aligns with LRE Water's Risk Map and UNL's Management Zone 6
- Groundwater levels in the western two-thirds show relatively stable levels

#3 – PLATTE/COLFAX SQS AREA



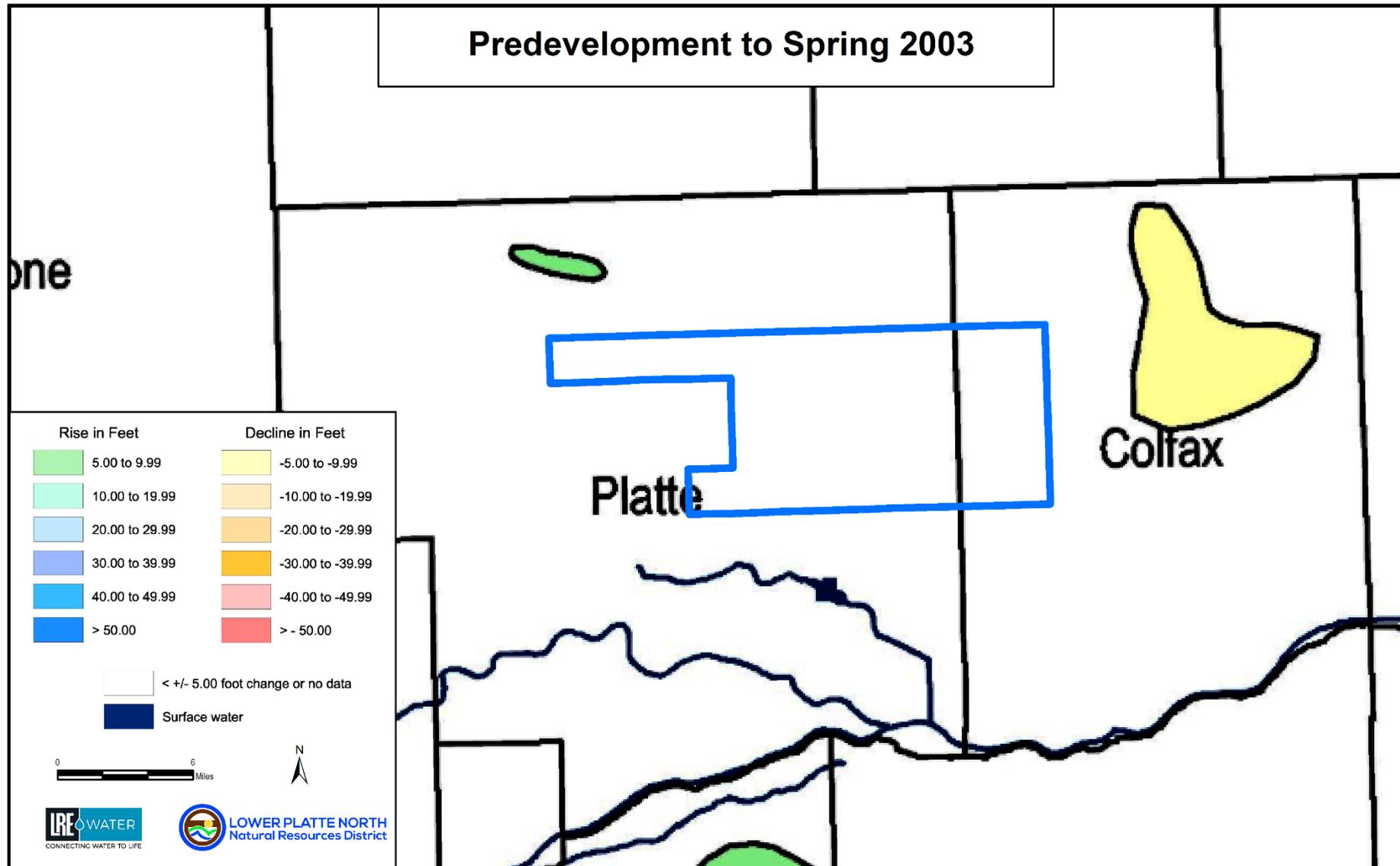
Source: UNL Institute of Agriculture & Natural Resources

#3 – PLATTE/COLFAX SQS AREA



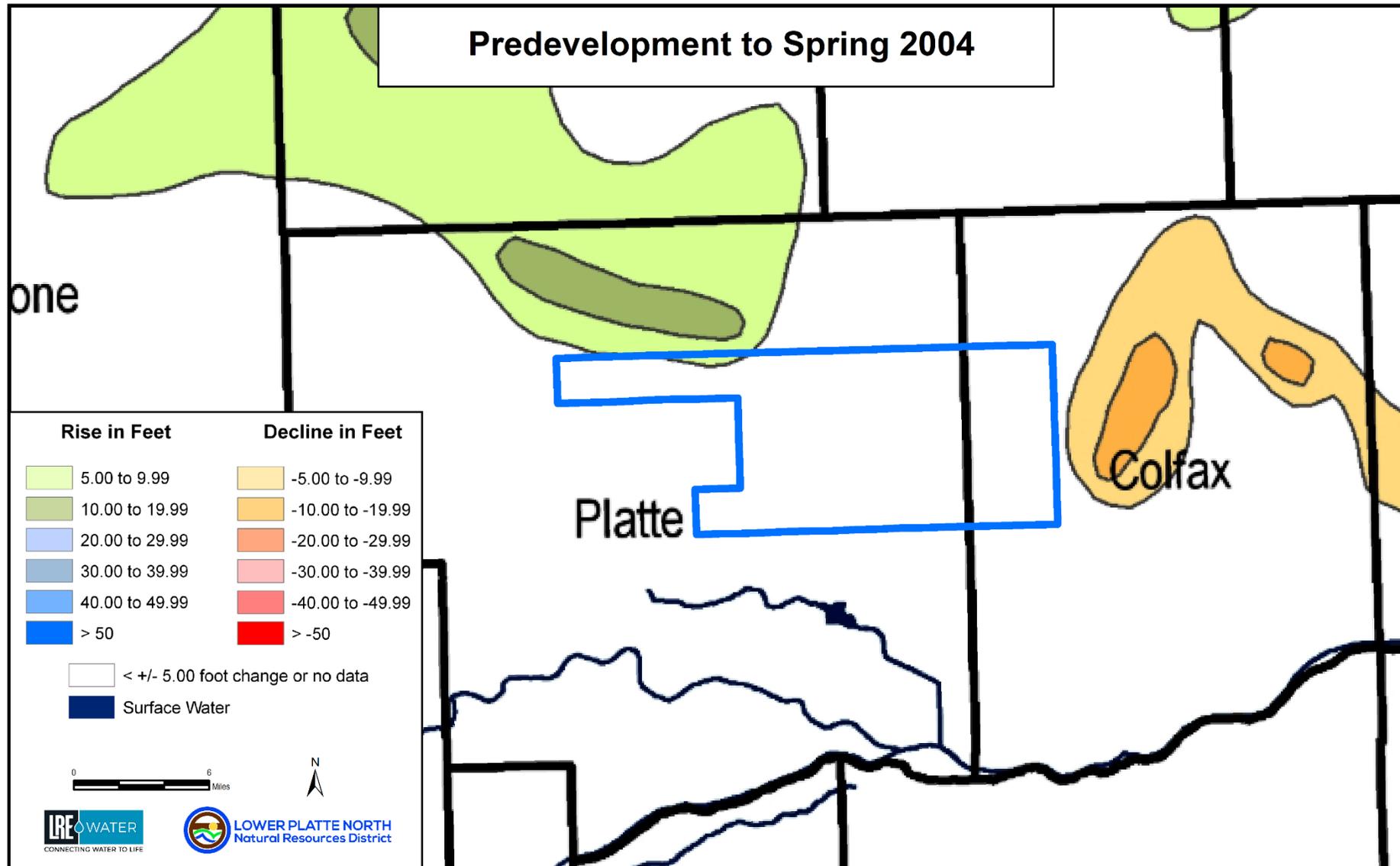
Source: UNL Institute of Agriculture & Natural Resources

#3 – PLATTE/COLFAX SQS AREA



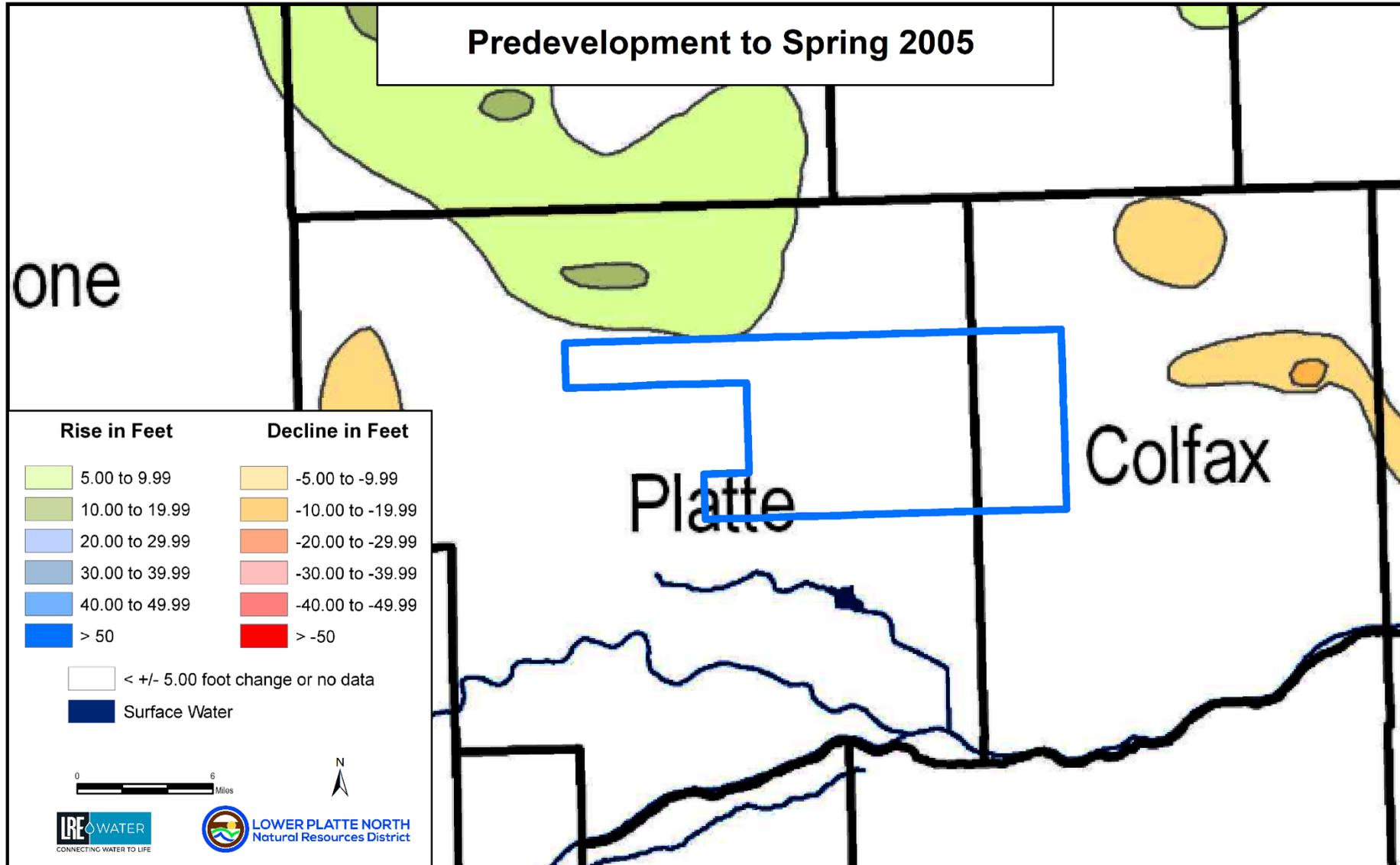
Source: UNL Institute of Agriculture & Natural Resources

#3 – PLATTE/COLFAX SQS AREA



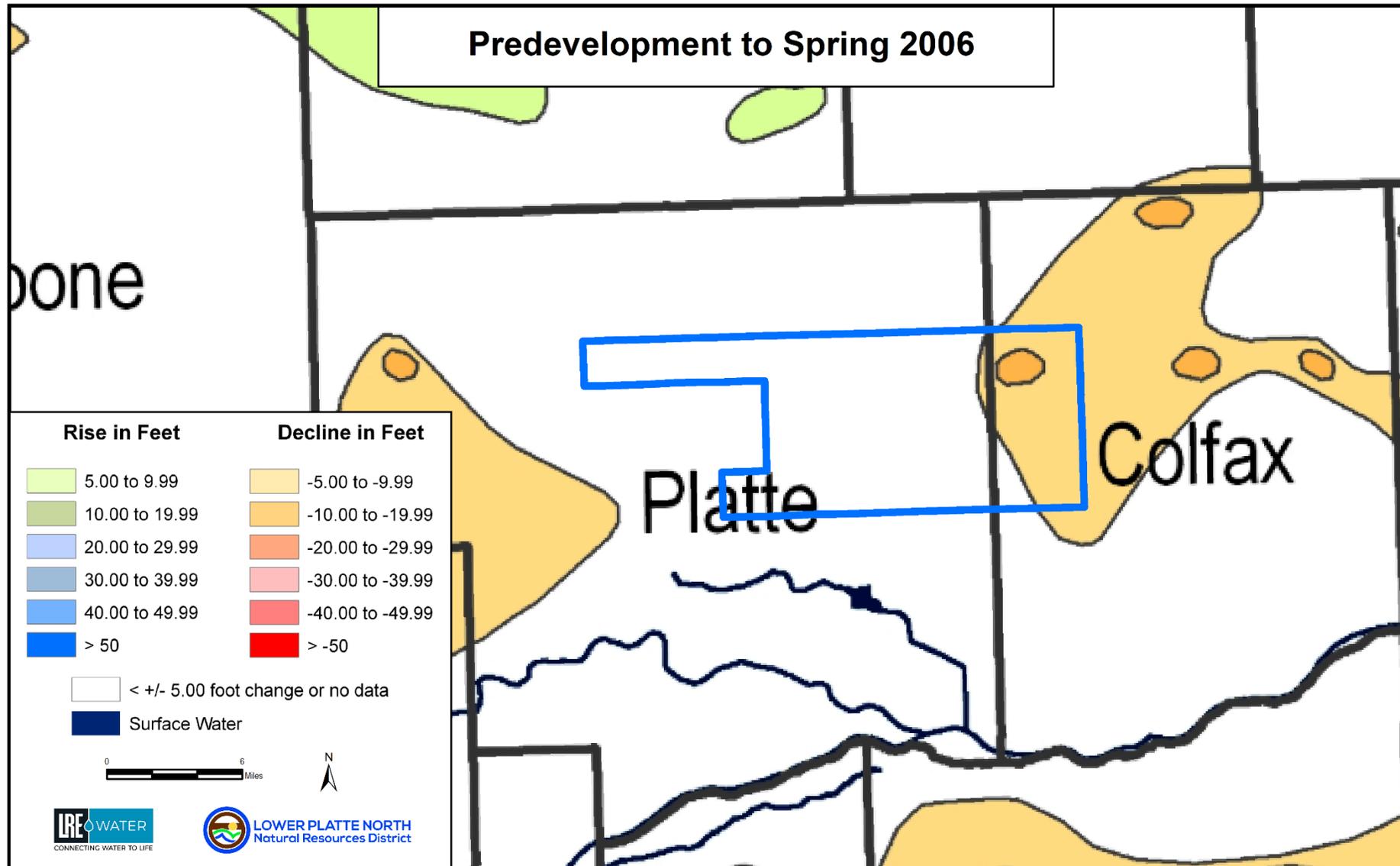
Source: UNL Institute of Agriculture & Natural Resources

#3 – PLATTE/COLFAX SQS AREA



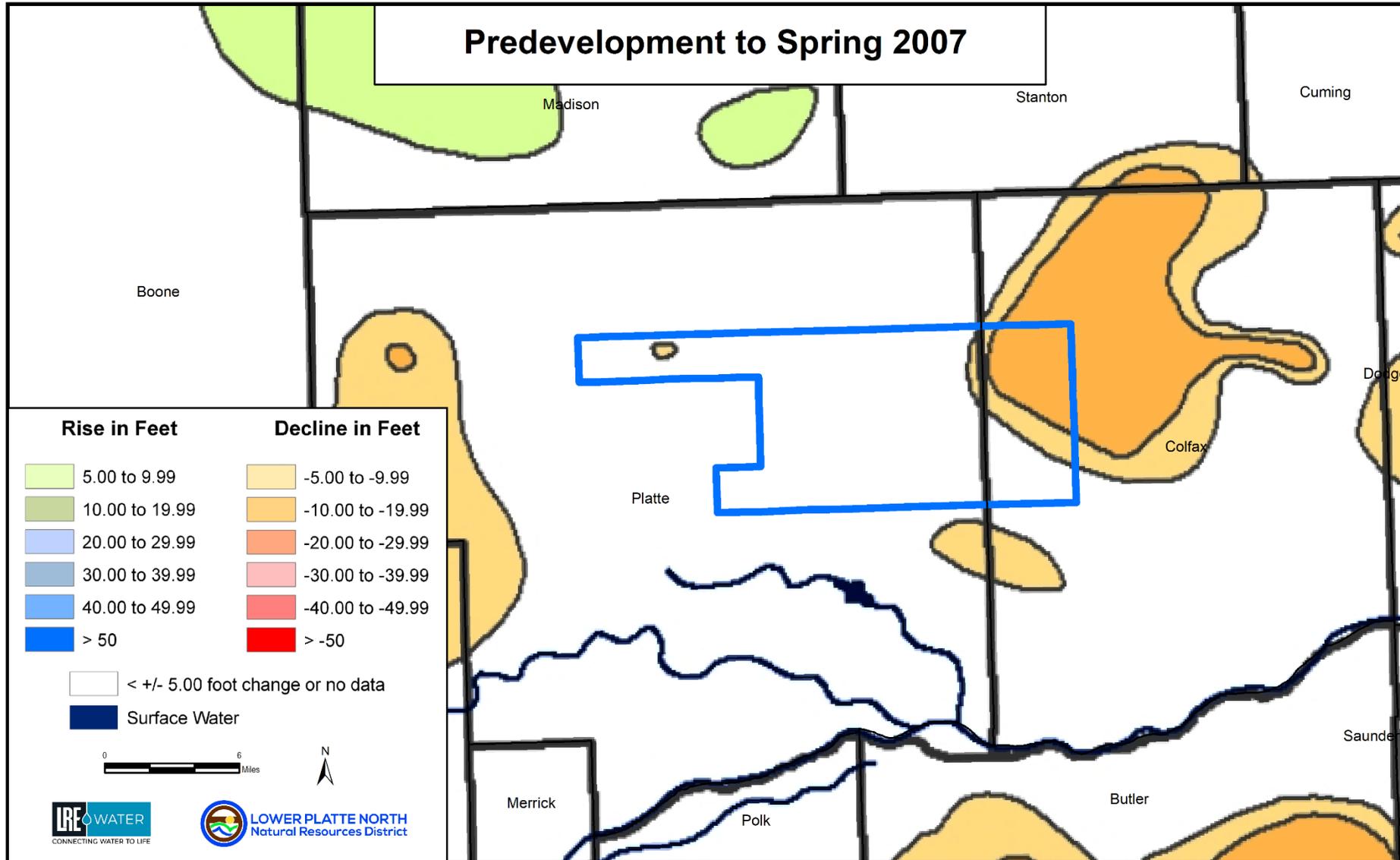
Source: UNL Institute of Agriculture & Natural Resources

#3 – PLATTE/COLFAX SQS AREA



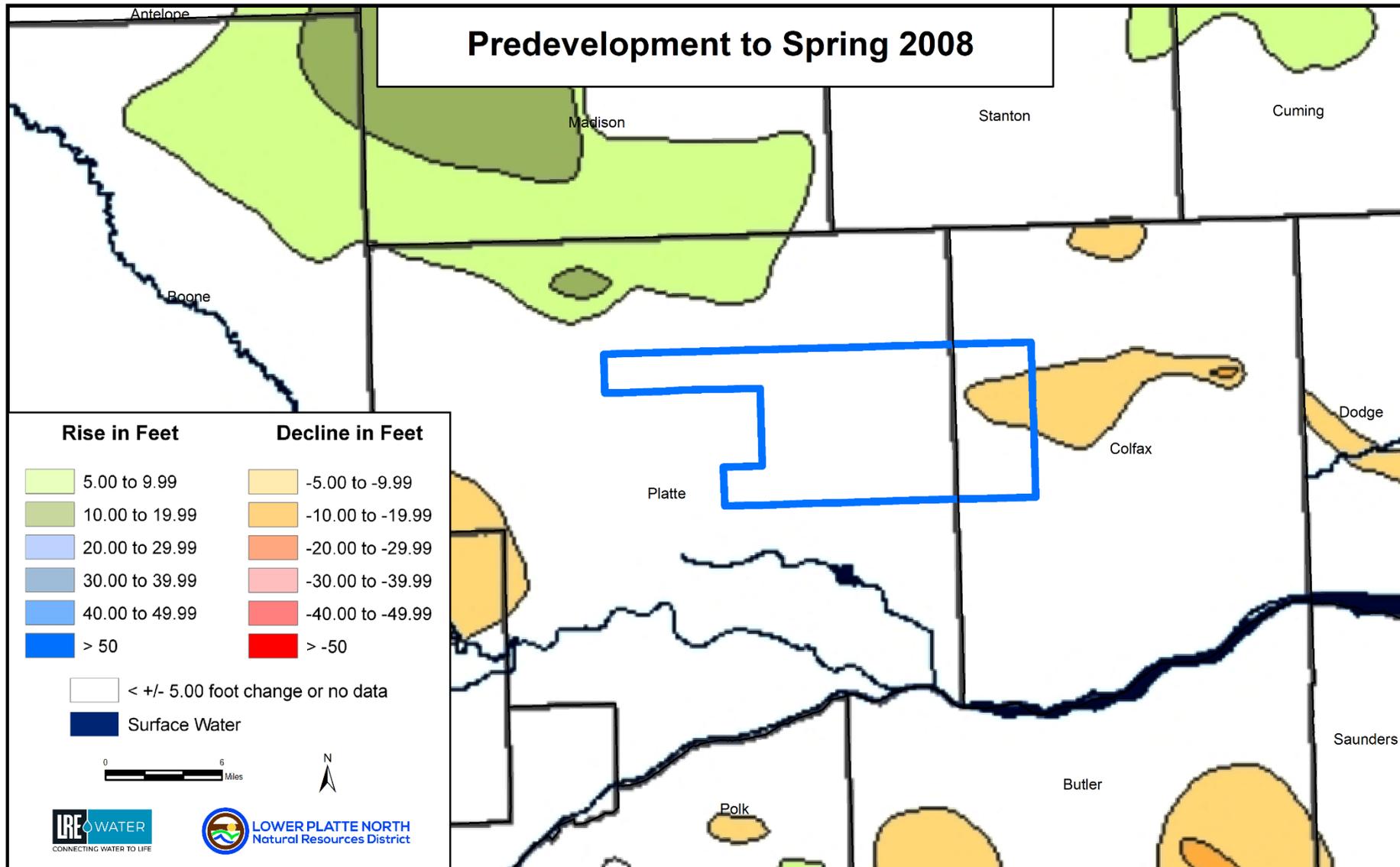
Source: UNL Institute of Agriculture & Natural Resources

#3 – PLATTE/COLFAX SQS AREA



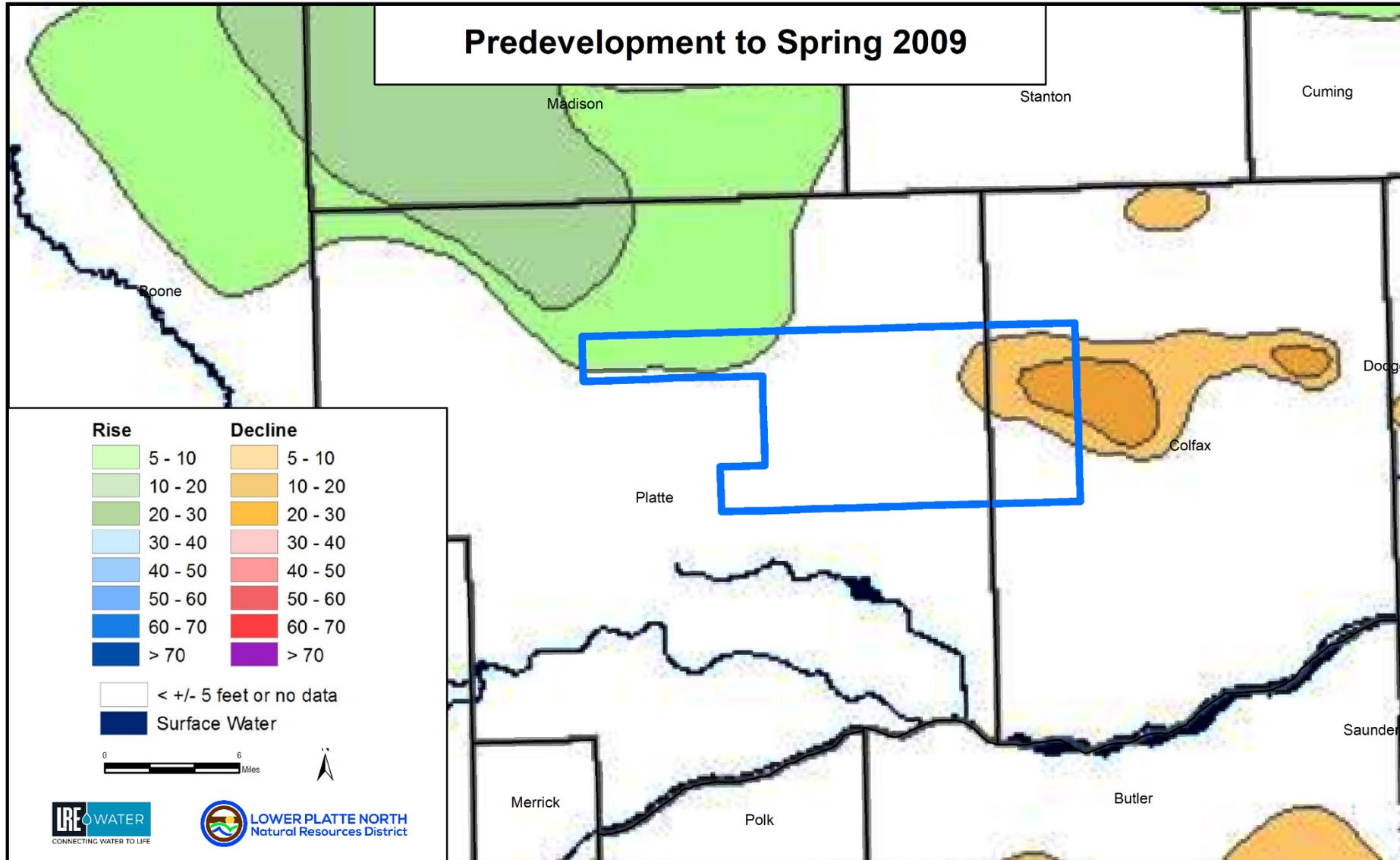
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#3 – PLATTE/COLFAX SQS AREA



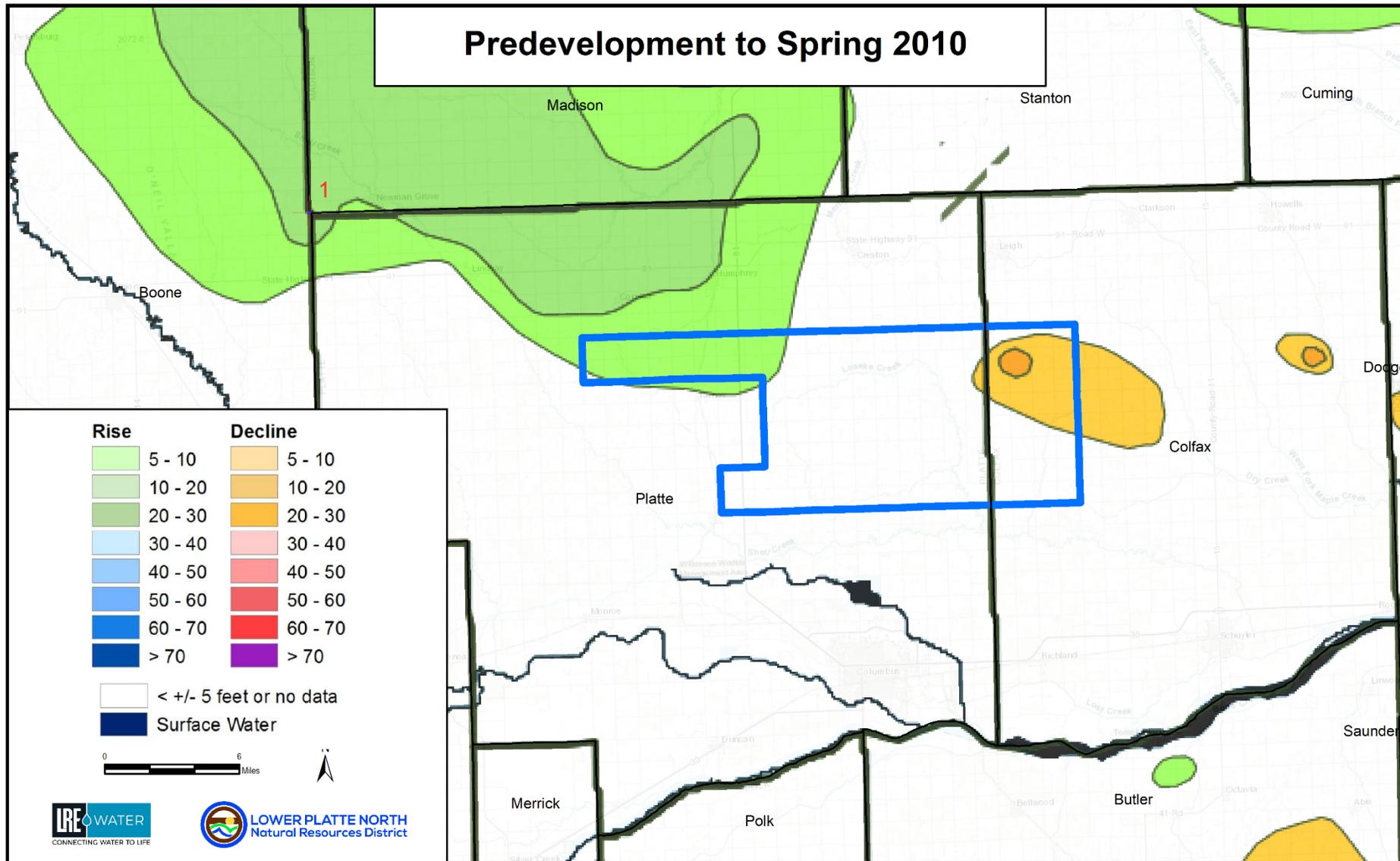
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#3 – PLATTE/COLFAX SQS AREA



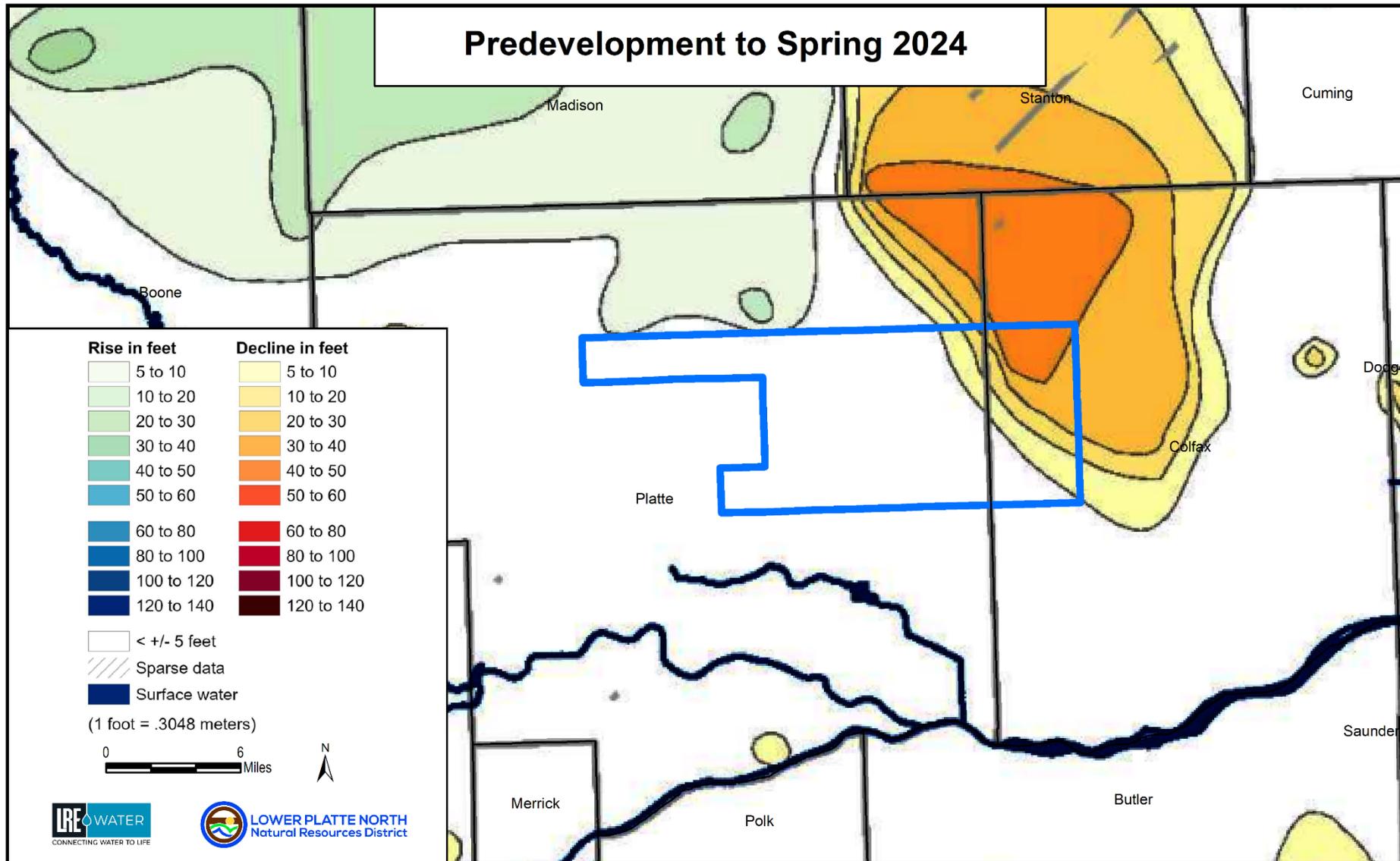
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#3 – PLATTE/COLFAX SQS AREA



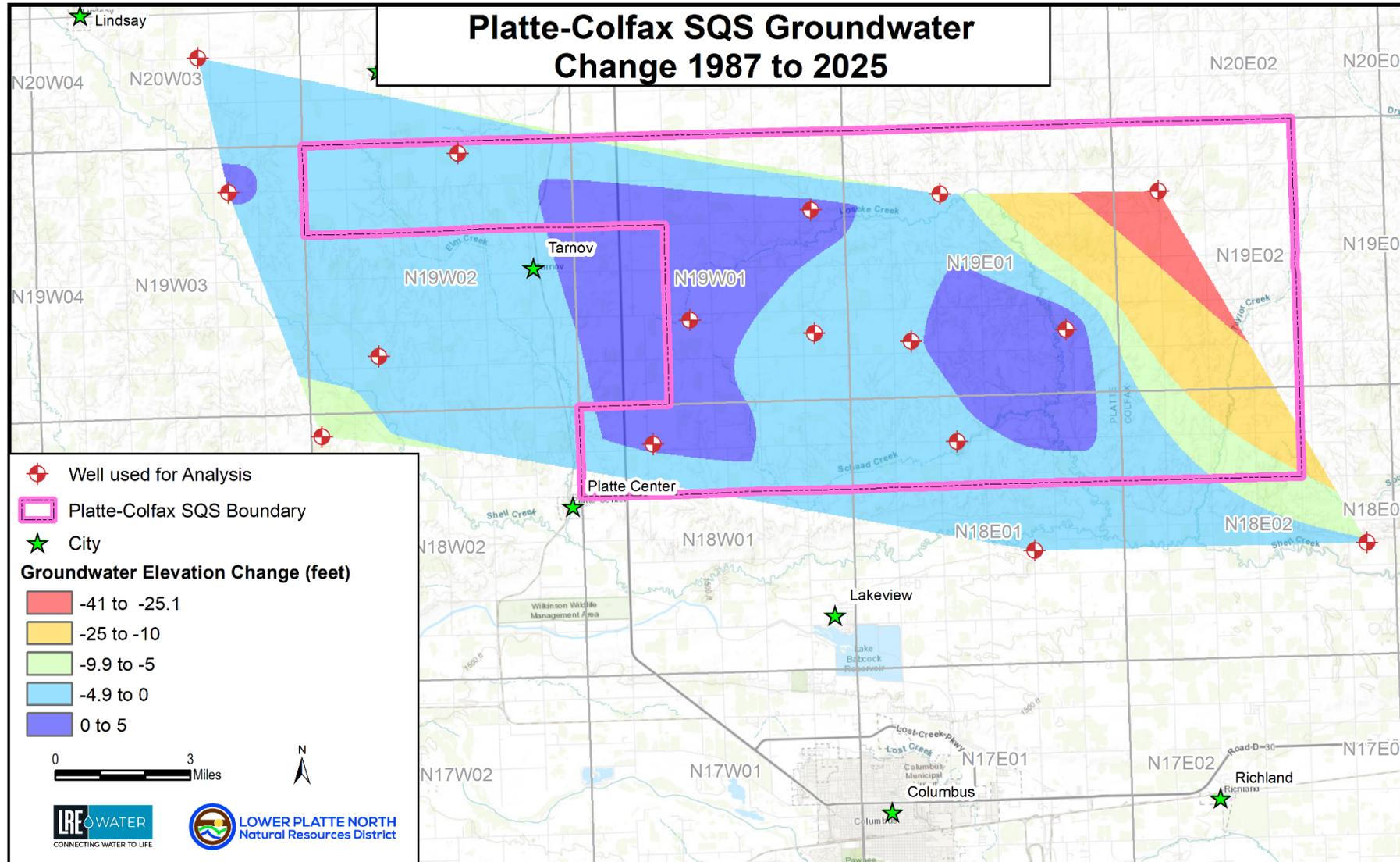
Source: UNL Institute of Agriculture & Natural Resources

#3 – PLATTE/COLFAX SQS AREA



Source: UNL Institute of Agriculture & Natural Resources

#3 – PLATTE/COLFAX SQS AREA



RECOMMENDATIONS

BULTER-SAUNDERS SQS

RECOMMENDATIONS – BUTLER/SAUNDERS

- 1) Maintain Current Boundary Designation
- 2) Expand Monitoring Network
- 3) Complaint Tracking
- 4) Expand Outreach and Education
- 5) Cost-share Programs
- 6) Well Impact Assessments (groundwater modeling, aquifer pumping test, etc.)

RECOMMENDATIONS

PLATTE-COLFAX SQS

RECOMMENDATIONS – PLATTE/COLFAX SQS

1) Boundary Refinement

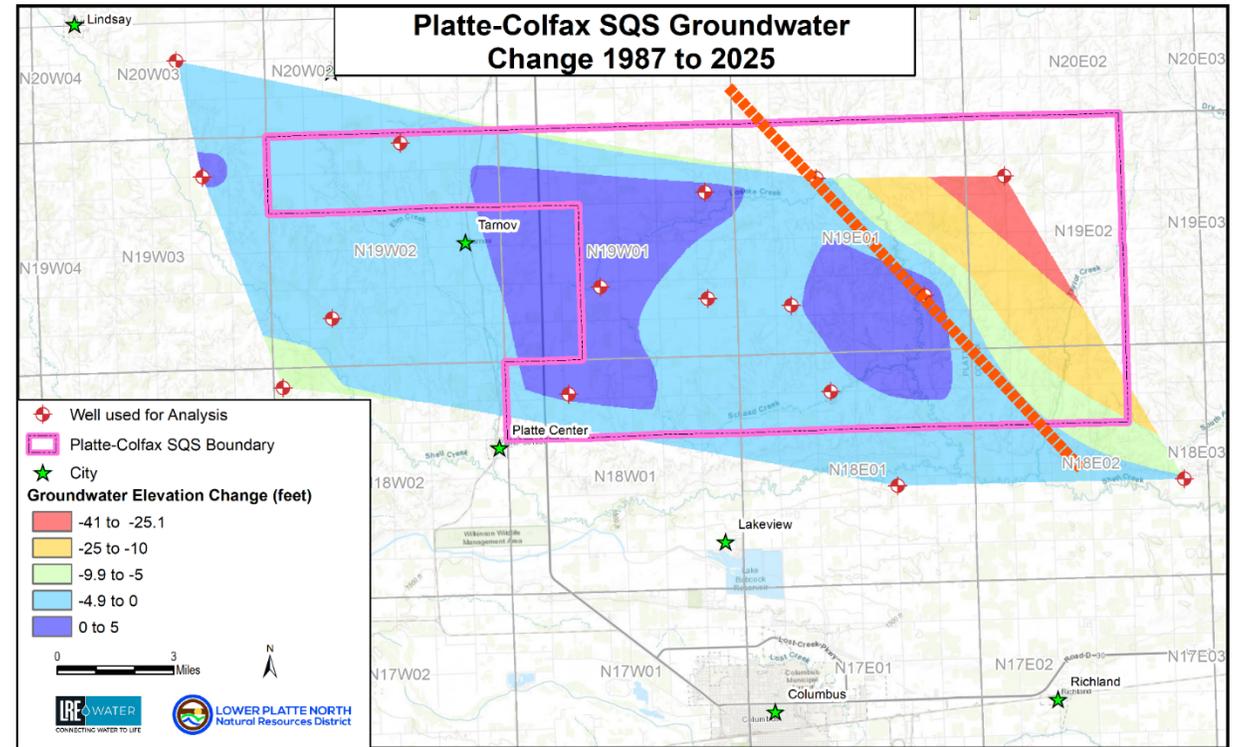
- Consider reducing the size of the SQS to reflect long-term recovery in the western two-thirds

2) Management Adjustments

- Maintain the SQS designation in the eastern areas where chronic issues are documented

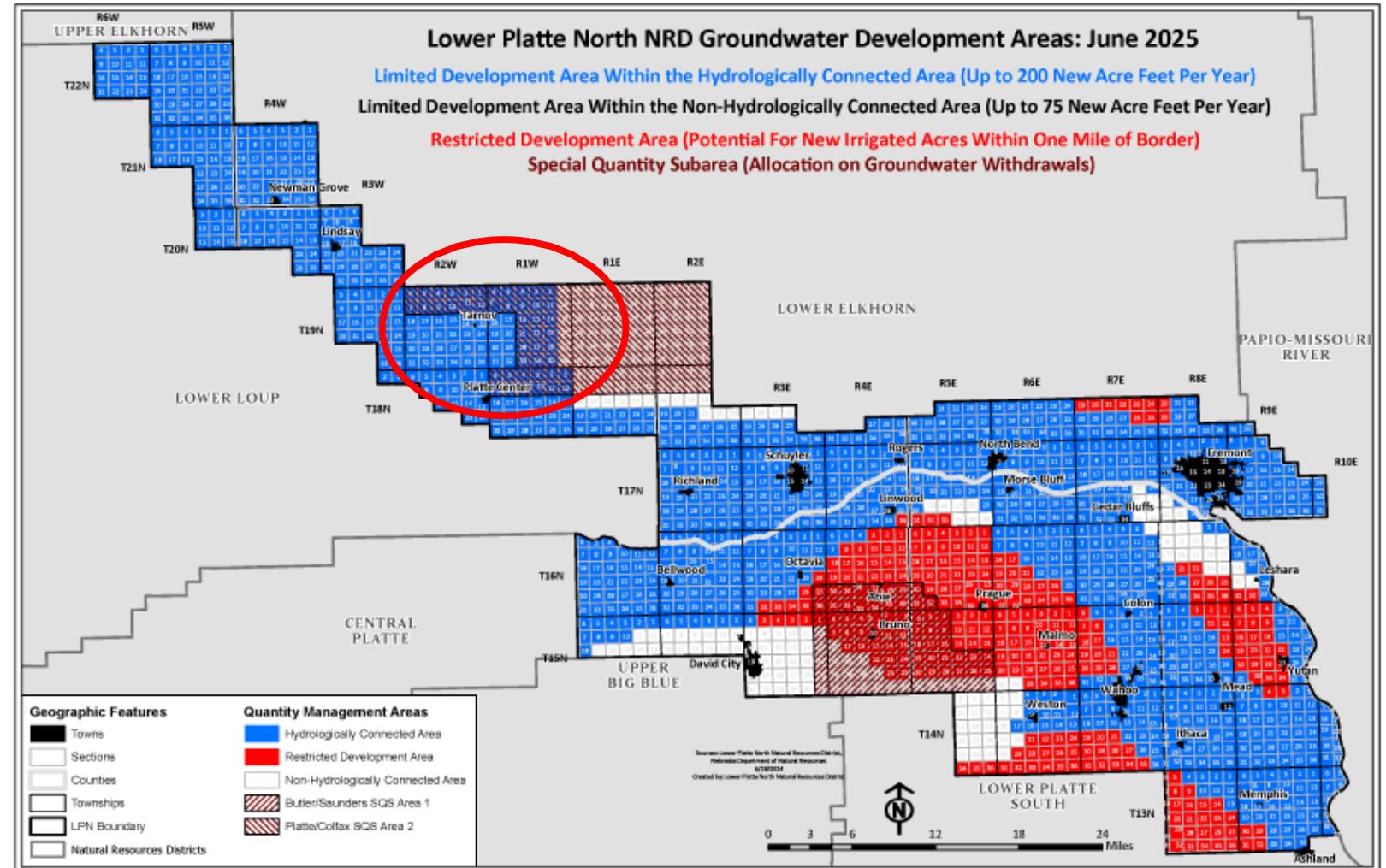
3) Well Impact Assessments

- Groundwater modeling to predict impacts if area is opened up



RECOMMENDATIONS – PLATTE/COLFAX SQS

- Existing management practices in place
- Limited Development Area in western portions



RECOMMENDATIONS

GENERAL

GENERAL RECOMMENDATIONS

➔ *Move Toward a More Adaptive and Responsive Groundwater Management Framework*

1) Evaluate the Use of Drought Designation Zones

- Consider establishing temporary drought-responsive zones
- Zones could be activated based on defined triggers such as precipitation indices, streamflow, drought monitory intensity (e.g. severe, extreme, etc.)

GENERAL RECOMMENDATIONS

➔ *Move Toward a More Adaptive and Responsive Groundwater Management Framework*

2) Refine Management Triggers Using Integrated Data*

- Strengthen the use of water-level trends, complaint tracking, and drought forecasting tools to inform decisions
- Incorporate real-time and historic datasets to support both short-term and long-term trends

**LRE Water has prepared a scope to further evaluate scoring sheets and triggers*

GENERAL RECOMMENDATIONS

➔ *Move Toward a More Adaptive and Responsive Groundwater Management Framework*

3) Well Impact Assessments

- Establish a procedure to evaluate permit applications that require additional data
- Desktop assessment, review of well logs, hydrographs, well density, etc.
- Test hole, test well, aquifer pumping test
- Groundwater modeling

GENERAL RECOMMENDATIONS

➔ *Move Toward a More Adaptive and Responsive Groundwater Management Framework*

4) Advance Adaptive Management Principles

- Embrace a phased, science-based approach that allows for boundary adjustments
- Maintain protections where chronic depletion persists, while allowing flexibility in areas showing sustain recovery
- Continue to receive, and respond, to stakeholder input



November 3, 2025
 Invoice No: 31892

Invoice Total:	\$11,470.00
-----------------------	--------------------

Daryl Andersen
 Lower Platte North NRD
 511 Commercial Park Road
 Wahoo, NE 68066-0126

Please Remit To:
LRE Water
1221 Auraria Pkwy
Denver, CO 80204
(303) 455-9589
billing@LREwater.com

Invoice Email: dandersen@lpnrd.org
 Project No.: 5036LPN06
 Project Name: LPNNRD_SQS Reevaluation Study

Professional Services through October 25, 2025

Task 02 Desktop Assessment

Professional Personnel

	Hours	Rate	Amount	
Fullmer, Tucker	11.25	155.00	1,743.75	
Hume, David	.75	255.00	191.25	
Libra, Jon	6.50	151.00	981.50	
Totals	18.50		2,916.50	
Total Labor				\$2,916.50

Total this Task \$2,916.50

Task 03 Report & Presentation

Professional Personnel

	Hours	Rate	Amount	
Mohr, Jonathan	18.50	207.00	3,829.50	
Sopiwnik, Roscoe	10.25	235.00	2,408.75	
Tiensvold, Logan	15.75	147.00	2,315.25	
Totals	44.50		8,553.50	
Total Labor				\$8,553.50

Total this Task \$8,553.50

Total this Invoice \$11,470.00

Outstanding Invoices

Number	Date	Balance
31552	10/3/2025	9,039.50
Total		\$9,039.50

Total Now Due **\$20,509.50**



Billing Backup

Monday, November 3, 2025

Spheros Environmental (LRE)

Invoice <Draft> Dated 11/3/2025

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Task 02 Desktop Assessment

Professional Personnel

			Hours	Rate	Amount	
10196	000 - Fullmer, Tucker	10/1/2025	.50	155.00	77.50	
10196	000 - Fullmer, Tucker	10/2/2025	1.00	155.00	155.00	
10196	000 - Fullmer, Tucker	10/3/2025	2.25	155.00	348.75	
10196	000 - Fullmer, Tucker	10/9/2025	2.50	155.00	387.50	
10196	000 - Fullmer, Tucker	10/10/2025	2.50	155.00	387.50	
10196	000 - Fullmer, Tucker	10/13/2025	1.50	155.00	232.50	
10196	000 - Fullmer, Tucker	10/14/2025	1.00	155.00	155.00	
10172	000 - Hume, David	10/16/2025	.25	255.00	63.75	
10172	000 - Hume, David	10/23/2025	.50	255.00	127.50	
10199	010 - Libra, Jon	10/2/2025	3.00	151.00	453.00	
10199	010 - Libra, Jon	10/16/2025	2.25	151.00	339.75	
10199	010 - Libra, Jon	10/17/2025	1.25	151.00	188.75	
	Totals		18.50		2,916.50	
	Total Labor					\$2,916.50
				Total this Task		\$2,916.50

Task 03 Report & Presentation

Professional Personnel

			Hours	Rate	Amount	
10217	000 - Mohr, Jonathan	10/1/2025	.50	207.00	103.50	
10217	000 - Mohr, Jonathan	10/2/2025	.50	207.00	103.50	
10217	000 - Mohr, Jonathan	10/6/2025	.25	207.00	51.75	
10217	000 - Mohr, Jonathan	10/13/2025	1.00	207.00	207.00	
10217	000 - Mohr, Jonathan	10/14/2025	1.25	207.00	258.75	
10217	000 - Mohr, Jonathan	10/16/2025	.50	207.00	103.50	
10217	000 - Mohr, Jonathan	10/20/2025	2.00	207.00	414.00	
10217	000 - Mohr, Jonathan	10/21/2025	5.00	207.00	1,035.00	
10217	000 - Mohr, Jonathan	10/22/2025	3.50	207.00	724.50	
10217	000 - Mohr, Jonathan	10/24/2025	4.00	207.00	828.00	
10174	000 - Sopiwnik, Roscoe	10/1/2025	.75	235.00	176.25	
10174	000 - Sopiwnik, Roscoe	10/2/2025	.50	235.00	117.50	
10174	000 - Sopiwnik, Roscoe	10/14/2025	2.50	235.00	587.50	
10174	000 - Sopiwnik, Roscoe	10/15/2025	5.50	235.00	1,292.50	
10174	000 - Sopiwnik, Roscoe	10/21/2025	1.00	235.00	235.00	
10240	000 - Tiensvold, Logan	10/21/2025	2.75	147.00	404.25	
10240	000 - Tiensvold, Logan	10/22/2025	5.25	147.00	771.75	
10240	000 - Tiensvold, Logan	10/23/2025	2.75	147.00	404.25	
10240	000 - Tiensvold, Logan	10/24/2025	5.00	147.00	735.00	
	Totals		44.50		8,553.50	
	Total Labor					\$8,553.50
				Total this Task		\$8,553.50
				Total this Project		\$11,470.00
				Total this Report		\$11,470.00



October 3, 2025
 Invoice No: 31552

Invoice Total:	\$9,039.50
-----------------------	-------------------

Daryl Andersen
 Lower Platte North NRD
 511 Commercial Park Road
 Wahoo, NE 68066-0126

Please Remit To:
LRE Water
1221 Auraria Pkwy
Denver, CO 80204
(303) 455-9589
billing@LREwater.com

Invoice Email: dandersen@lpnrd.org
 Project No.: 5036LPN06
 Project Name: LPNNRD_SQS Reevaluation Study

Professional Services through September 27, 2025

Task 01 Data Collection & Project Management

Professional Personnel

	Hours	Rate	Amount	
Libra, Jon	12.50	151.00	1,887.50	
Mohr, Jonathan	1.25	207.00	258.75	
Sopiwnik, Roscoe	3.25	235.00	763.75	
Totals	17.00		2,910.00	
Total Labor				\$2,910.00
		Total this Task		\$2,910.00

Task 02 Desktop Assessment

Professional Personnel

	Hours	Rate	Amount	
Libra, Jon	40.25	151.00	6,077.75	
Mohr, Jonathan	.25	207.00	51.75	
Totals	40.50		6,129.50	
Total Labor				\$6,129.50
		Total this Task		\$6,129.50

Total this Invoice \$9,039.50

Outstanding Invoices

Number	Date	Balance
31268	9/9/2025	5,367.25
Total		\$5,367.25

Total Now Due **\$14,406.75**

Billing Backup

Friday, October 3, 2025

LRE Water

Invoice <Draft> Dated 10/3/2025

12:29:02 PM

Task 01 Data Collection & Project Management

Professional Personnel

			Hours	Rate	Amount	
10199	010 - Libra, Jon	9/4/2025	2.75	151.00	415.25	
10199	010 - Libra, Jon	9/8/2025	5.75	151.00	868.25	
10199	010 - Libra, Jon	9/18/2025	1.75	151.00	264.25	
10199	010 - Libra, Jon	9/20/2025	2.25	151.00	339.75	
10217	000 - Mohr, Jonathan	9/2/2025	.50	207.00	103.50	
10217	000 - Mohr, Jonathan	9/10/2025	.25	207.00	51.75	
10217	000 - Mohr, Jonathan	9/16/2025	.50	207.00	103.50	
10174	000 - Sopiwnik, Roscoe	9/2/2025	.50	235.00	117.50	
10174	000 - Sopiwnik, Roscoe	9/5/2025	.50	235.00	117.50	
10174	000 - Sopiwnik, Roscoe	9/17/2025	.25	235.00	58.75	
10174	000 - Sopiwnik, Roscoe	9/23/2025	.25	235.00	58.75	
10174	000 - Sopiwnik, Roscoe	9/24/2025	.25	235.00	58.75	
10174	000 - Sopiwnik, Roscoe	9/25/2025	1.50	235.00	352.50	
	Totals		17.00		2,910.00	
	Total Labor					\$2,910.00
				Total this Task		\$2,910.00

Task 02 Desktop Assessment

Professional Personnel

			Hours	Rate	Amount	
10199	010 - Libra, Jon	9/2/2025	2.00	151.00	302.00	
10199	010 - Libra, Jon	9/5/2025	7.75	151.00	1,170.25	
10199	010 - Libra, Jon	9/6/2025	2.00	151.00	302.00	
10199	010 - Libra, Jon	9/9/2025	.50	151.00	75.50	
10199	010 - Libra, Jon	9/15/2025	3.50	151.00	528.50	
10199	010 - Libra, Jon	9/16/2025	6.25	151.00	943.75	
10199	010 - Libra, Jon	9/17/2025	8.00	151.00	1,208.00	
10199	010 - Libra, Jon	9/22/2025	3.25	151.00	490.75	
10199	010 - Libra, Jon	9/23/2025	3.25	151.00	490.75	
10199	010 - Libra, Jon	9/24/2025	3.75	151.00	566.25	
10217	000 - Mohr, Jonathan	9/22/2025	.25	207.00	51.75	
	Totals		40.50		6,129.50	
	Total Labor					\$6,129.50

Total this Task	\$6,129.50
Total this Project	\$9,039.50
Total this Report	\$9,039.50



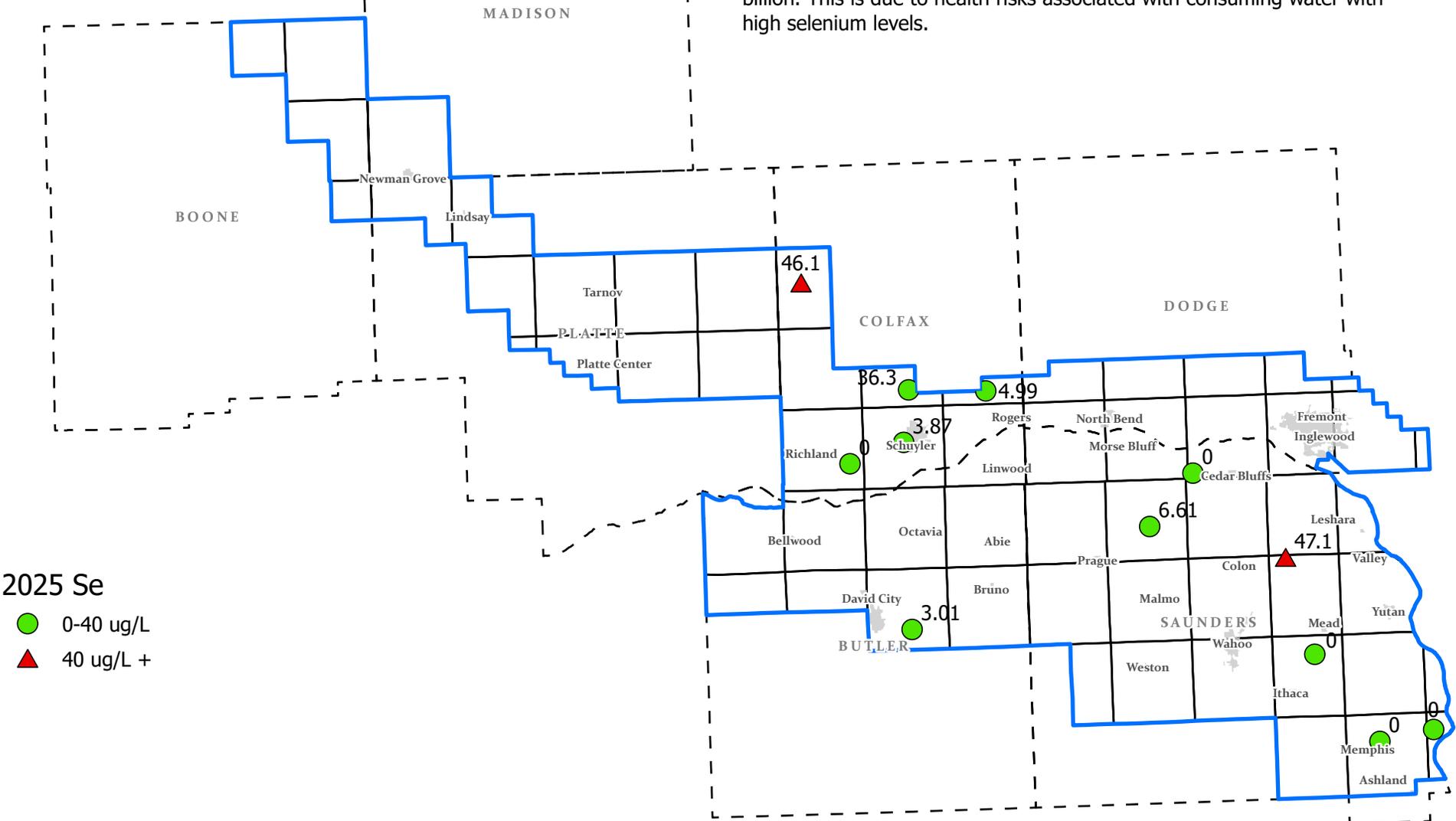
Invoice

Bill To
Lower Platte North NRD PO Box 126 Wahoo, NE 68066

Date	Invoice #
10/30/2025	205

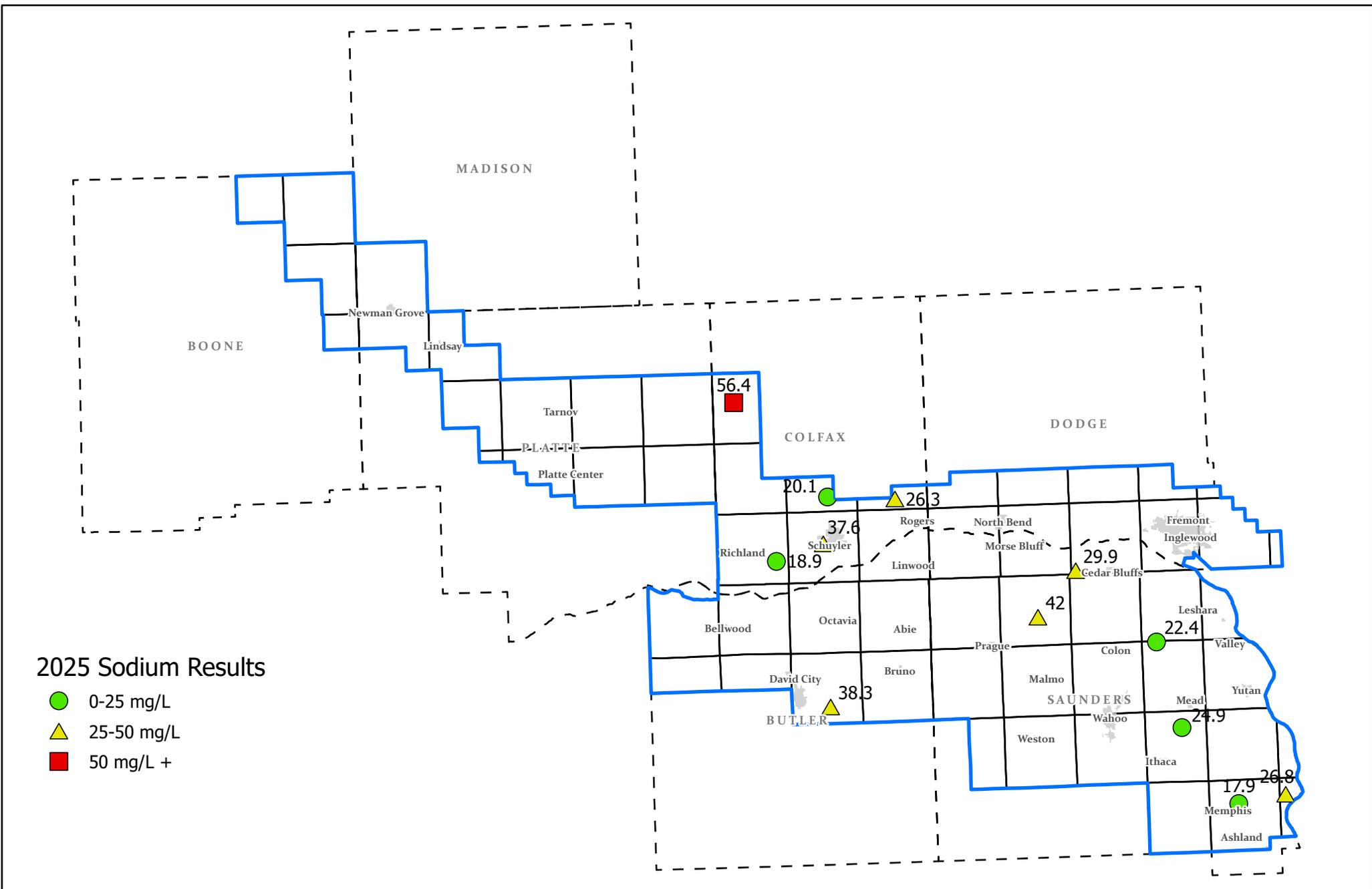
Quantity	Description	Rate	Amount
	2026 Lower Platte River Basin Water Management Plan Coalition Dues	10,000.00	10,000.00
Please remit payment to NARD Research - 8100 S. 15th St., Suite B, Lincoln, NE 68512		Total	\$10,000.00

The Environmental Protection Agency (EPA) has set the maximum contaminant level (MCL) for selenium in drinking water at 50 parts per billion. This is due to health risks associated with consuming water with high selenium levels.



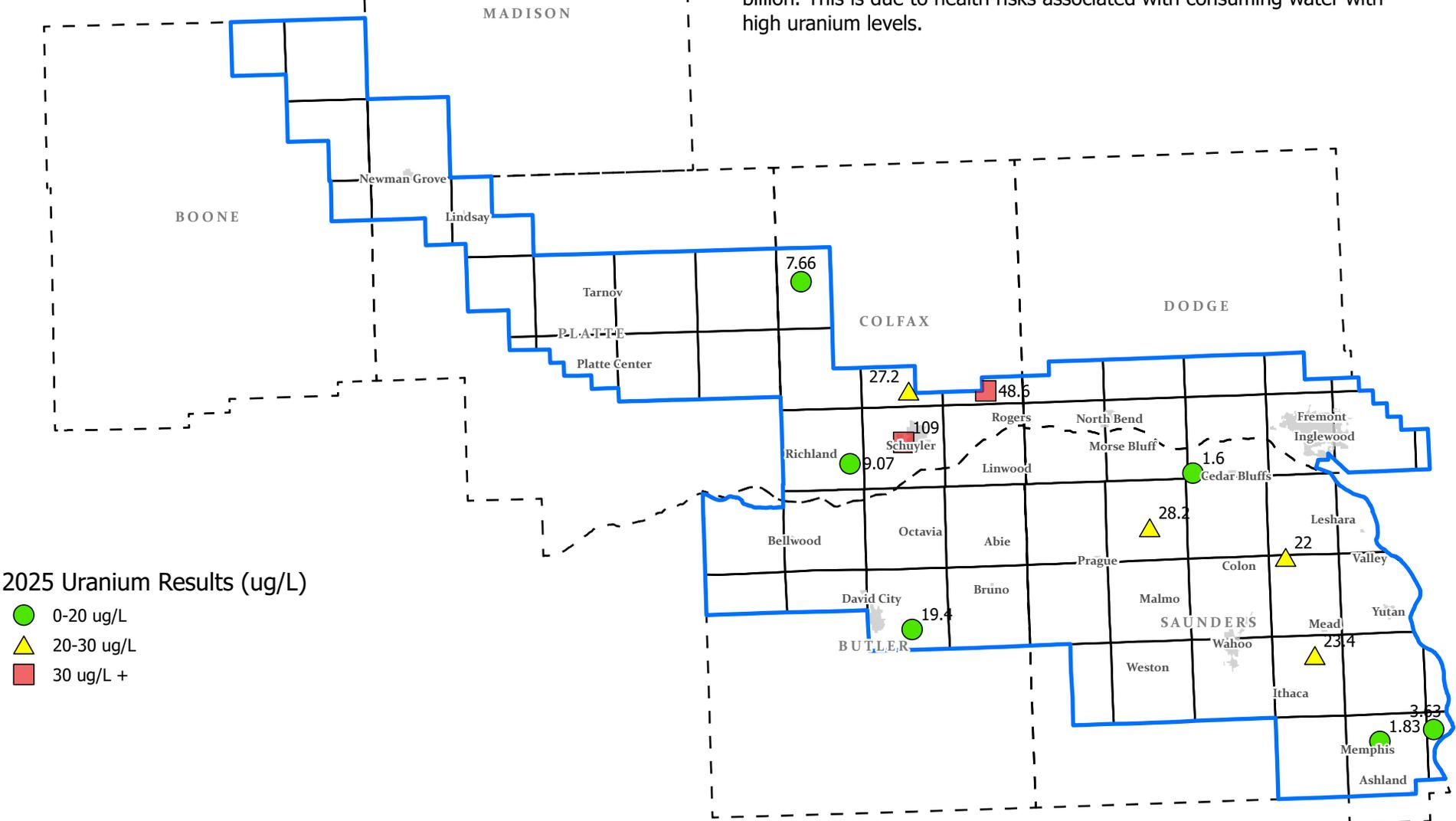
2025 Se
 ● 0-40 ug/L
 ▲ 40 ug/L +

2025 Statewide Network Selenium Results

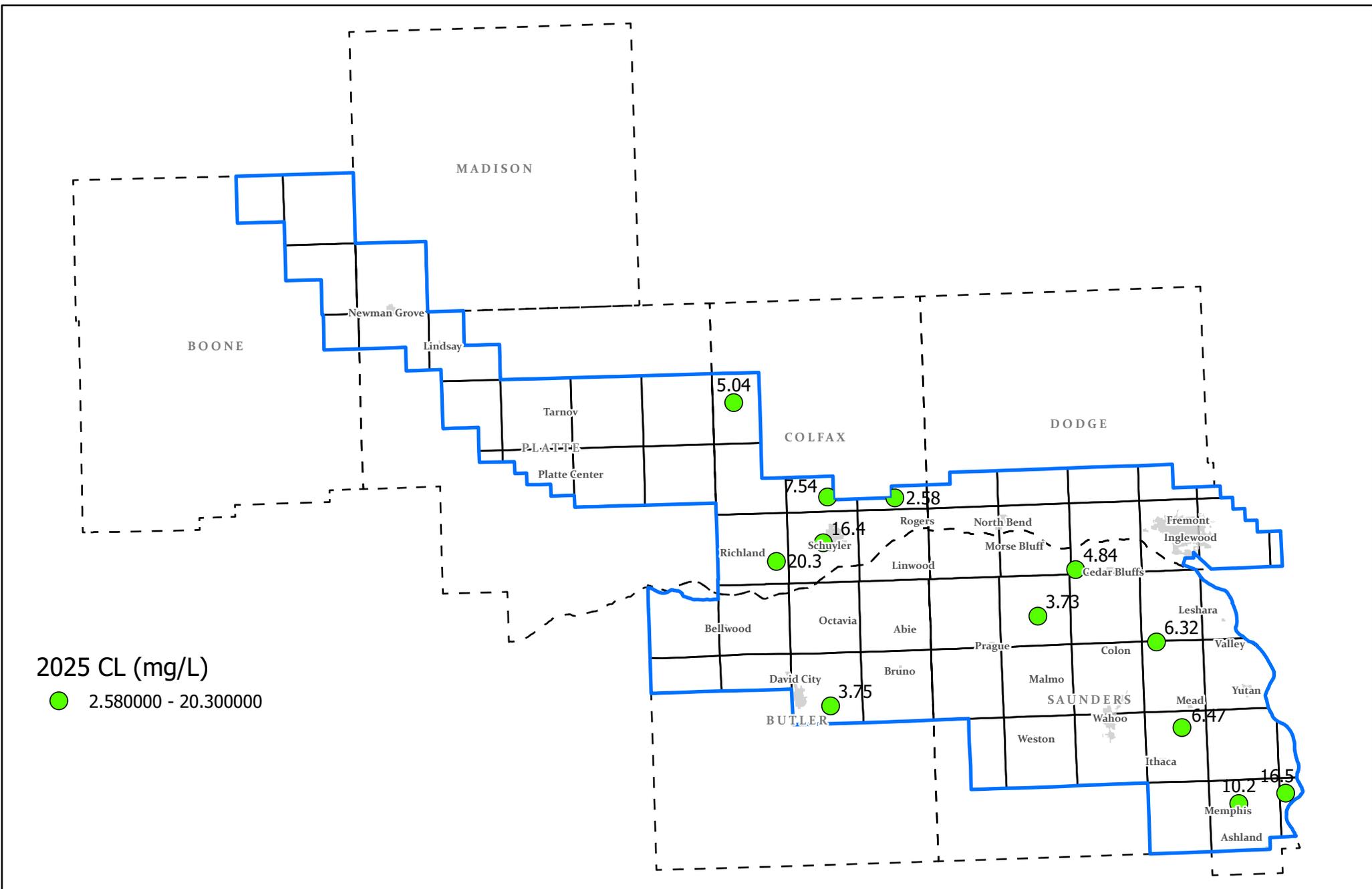


2025 Statewide Network Sodium Results

The Environmental Protection Agency (EPA) has set the maximum contaminant level (MCL) for uranium in drinking water at 30 parts per billion. This is due to health risks associated with consuming water with high uranium levels.

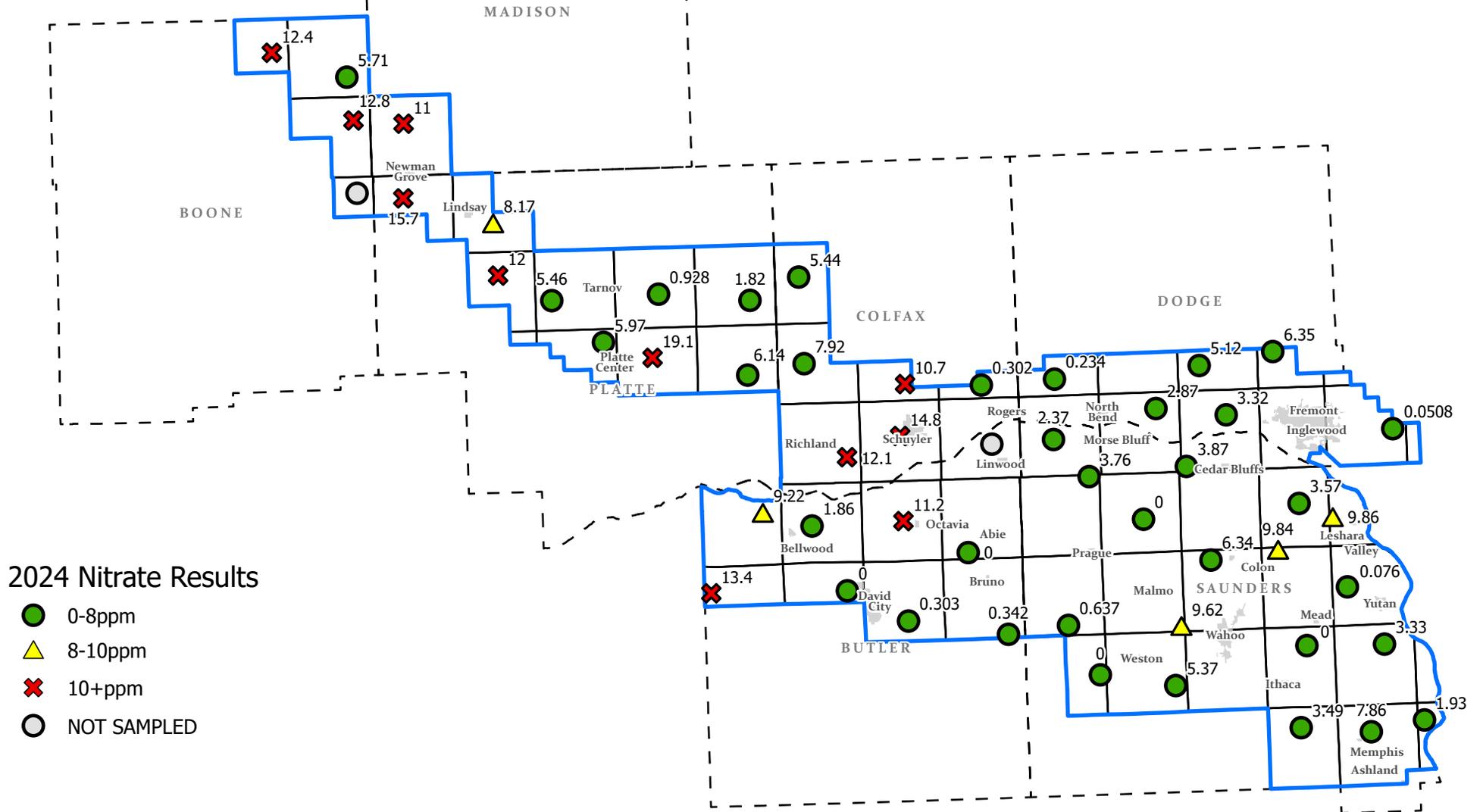


2025 Statewide Network Uranium Results



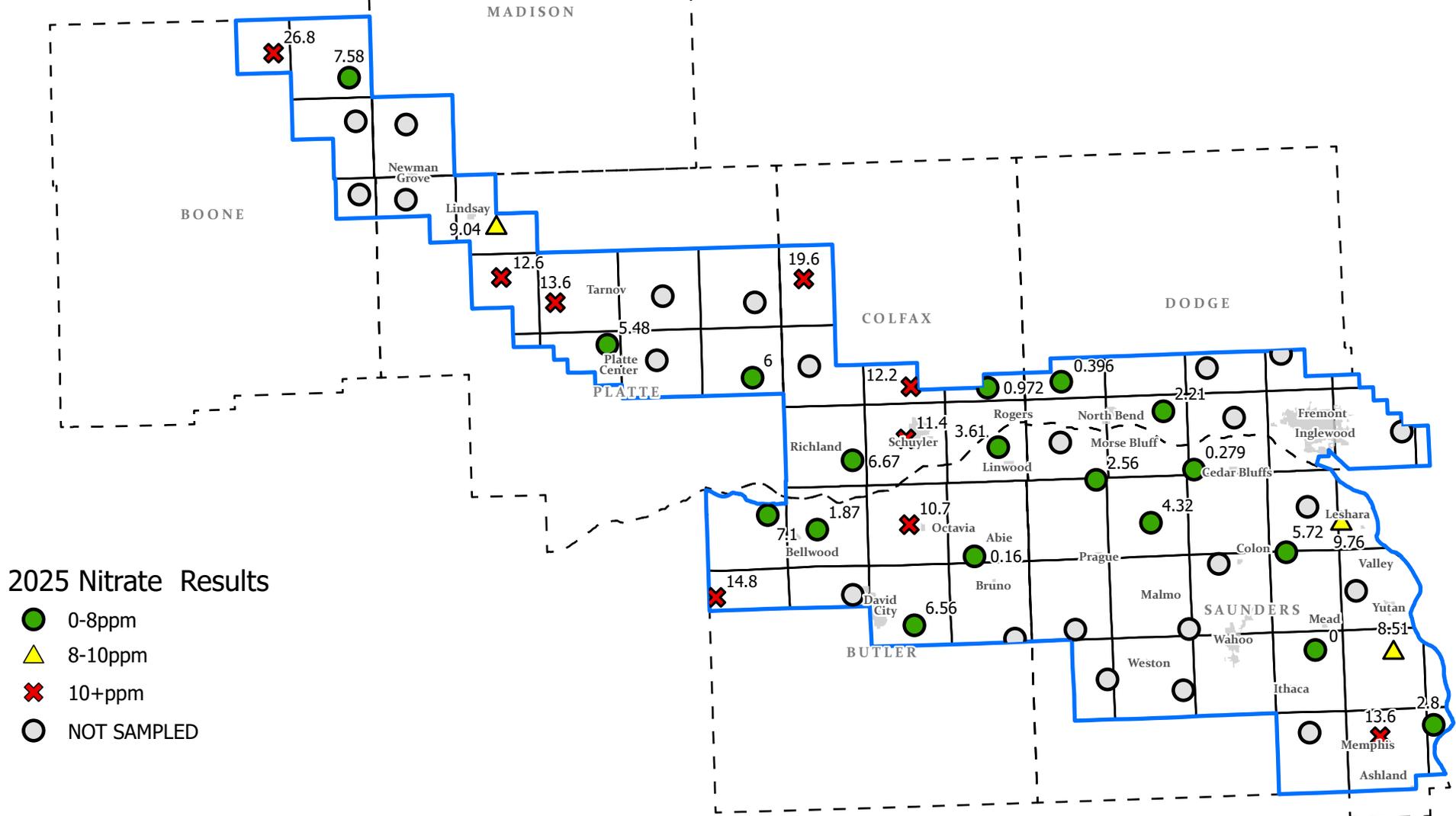
2025 Statewide Network Chloride Results

The Environmental Protection Agency (EPA) has set the maximum contaminant level (MCL) for Nitrate in drinking water at 10 parts per million. This is due to health risks associated with consuming water with high nitrate levels.



2024 Statewide Network Nitrate Results

The Environmental Protection Agency (EPA) has set the maximum contaminant level (MCL) for Nitrate in drinking water at 10 parts per million. This is due to health risks associated with consuming water with high nitrate levels.



2025 Statewide Network Nitrate Results

