

CITY COUNCIL MEETING AGENDA
October 16, 2023
7:00pm

1) Call to Order

- a) Pledge of Allegiance
- b) Introductions: City Council: Mayor Lisa Whalen, Cathleen Reffkin, Ann MacGregor; Peter Vickery, and Claudia Lacy Staff: City Administrator Jasper Kruggel, Finance Director Brian Grimm, Community Development Director David Abel, Director of Public Safety Paul Falls, Director of Administration Allie Polsfuss, Director of Public Works Gary Peters and City Clerk Ann Meyerhoff Consultants: City Attorney Sarah Sonsalla, Kennedy & Graven and City Engineer Alyson Fauske, WSB Engineering
- c) Approval of Agenda

2) Special Presentations

- a) 3rd Quarter 2023 Financial Update

3) Persons to Be Heard

The City Council invites residents to share new ideas or concerns related to city business not already on the agenda; however, individual question and remarks are limited to three (3) minutes per speaker. No City Council action will be taken, although the Council may refer issues to staff for follow up or for consideration at a future meeting. The Mayor may use discretion if speakers are repeating views already expressed or ask for a spokesperson for groups of individuals with similar views. Speakers should state their name and home address at the podium before speaking.

4) Consent Agenda

- a) Approve Work Session Meeting Minutes from October 2, 2023
- b) Approve City Council Regular Meeting Minutes from October 2, 2023
- c) Approve Application for a Temporary One-day Intoxicating Liquor License for the Northwest Tonka Lions for the Minnetrista Holiday Tree Lighting
- d) Res. No. 86-23 Approve Claims
- e) Res. No.87-23 Approving Simple Subdivision between 5900 West Branch Road and 5875 Painter Road
- f) Res. No. 88-23 Approve Change Order 1 for the 2023 Street Reconstruction and Utility Improvement Project, City Project 01-23
- g) Res. No. 89-23 Accept Improvements and Authorize Final Payment for City Project 05-23 Pavement Maintenance Project

5) Public Hearings

6) Business Items

- a) AE2S Task Orders and Water System Update

7) Administrative Items

The City of Minnetrista will deliver quality services in a cost effective and innovative manner; and provide opportunities for a high quality of life while protecting natural resources, maintaining a rural character, while effectively managing growth.

a) Staff Reports

i) City Engineer

b) Council Reports

i) **Mayor Lisa Whalen** – *Economic Development Authority; Personnel Committee; Planning Commission (rotating); Parks Commission (rotating); Public Safety Advisory Committee; Northwest Hennepin League of Municipalities; Regional Council of Mayors; Minnehaha Creek Watershed District; Mound Fire Advisory Committee (alternate)*

ii) **Cathleen Reffkin** – *Acting Mayor; Economic Development Authority; Personnel Committee; Planning Commission (rotating); Parks Commission (rotating); St. Bonifacius Fire Advisory Committee; Mound Fire Advisory Committee*

iii) **Ann MacGregor** – *Economic Development Authority; Planning Commission (rotating); Parks Commission (rotating); Gillespie Center Advisory Council*

iv) **Peter Vickery** – *Economic Development Authority; Planning Commission (rotating); Parks Commission (rotating); Pioneer-Sarah Creek Watershed Management Commission*

v) **Claudia Lacy** - *Economic Development Authority; Planning Commission (rotating); Parks Commission (rotating); Westonka Community & Commerce*

8) Adjournment

The agenda packet with all background material will be available on the City's website for viewing by the public. Published agenda is subject to change without notice. Information and materials relating to the above items are available for review at city hall by appointment.

The City of Minnetrista will deliver quality services in a cost effective and innovative manner; and provide opportunities for a high quality of life while protecting natural resources, maintaining a rural character, while effectively managing growth.



**CITY OF MINNETRISTA CITY
COUNCIL AGENDA ITEM 2A**

Subject: Financial Update - For 3rd Quarter 2023

Prepared By: Brian Grimm, Finance Director

Date: October 16, 2023

Item: Attached is a year-to-date revenue report and expenditure by department report for the general fund as well as an overall current cash and investment report. The reports attached reflect activity through 3rd quarter 2023 (first nine months of the year)

As you will see in the attached revenue and expenditure reports, the actual numbers are tracking about where they should be for this point in the year in comparison to the budgeted totals.

Revenues are tracking positively as our overall collections are at 68% of our budgeted amounts. This is better for when we compare to this same point in 2022 as we were at 58% then. An item to note is that our building permit revenue continues to track very well into the latter part of this year. The commercial and apartment permits we had earlier in the year helped but residential permits have stayed relatively steady also.

On the expenditure report most items are tracking as expected as well. Overall general fund expenditures are at about 78% year to date in comparison to the total 2023 general fund budgeted expenditures. For 2022 we were at 76%.

The current cash and investment total for all funds as of September 2023 is \$14,204,082.47.

This information item is a normal update to Council for tracking the 2023 budget to actual numbers.

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.

CITY OF MINNETRISTA
Revenue Guideline updated 2023

Account Descr	2023 YTD Budget	SEPTEMBER 2023 Amt	2023 YTD Amt	2023 YTD Balance	%YTD Budget	2022 YTD Amt
FUND 101 GENERAL FUND						
R 101-100-31010 GENERAL PROPER	\$4,037,333.00	\$0.00	\$2,076,855.98	\$1,960,477.02	51.44%	\$1,806,691.78
R 101-100-31020 DELINQUENT AD	\$0.00	\$0.00	\$31,824.52	-\$31,824.52	0.00%	\$23,159.65
R 101-100-31040 FISCAL DISPARITI	\$117,667.00	\$0.00	\$69,675.12	\$47,991.88	59.21%	\$67,421.74
R 101-200-32120 BUSINESS LICENS	\$6,000.00	\$0.00	\$3,520.00	\$2,480.00	58.67%	\$5,510.00
R 101-200-32210 BUILDING PERMIT	\$700,000.00	\$55,658.85	\$804,197.37	-\$104,197.37	114.89%	\$604,756.28
R 101-200-32212 BLDG - ENGINEER	\$45,000.00	\$3,150.00	\$24,766.50	\$20,233.50	55.04%	\$30,575.00
R 101-200-32230 PLUMBING AND H	\$55,000.00	\$4,214.00	\$82,318.72	-\$27,318.72	149.67%	\$43,020.00
R 101-200-32240 DOG LICENSES	\$0.00	\$0.00	\$300.00	-\$300.00	0.00%	\$300.00
R 101-200-32250 ELECTRICAL PERM	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-200-32260 OTHER PERMITS	\$3,000.00	\$140.00	\$2,150.00	\$850.00	71.67%	\$2,430.00
R 101-300-33160 FEDERAL GRANT	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-300-33265 SAFE & SOBER GR	\$2,000.00	\$0.00	\$10,855.73	-\$8,855.73	542.79%	\$340.48
R 101-300-33270 FIRE SERVICES G	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-300-33401 LOCAL GOVERNME	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-300-33402 HOMESTEAD CRE	\$6,000.00	\$0.00	\$0.00	\$6,000.00	0.00%	\$0.00
R 101-300-33406 POST REIMBURSE	\$12,500.00	\$12,122.38	\$12,122.38	\$377.62	96.98%	\$12,177.80
R 101-300-33407 POLICE AID	\$140,000.00	\$136,117.79	\$136,117.79	\$3,882.21	97.23%	\$119,362.49
R 101-300-33416 PERA STATE AID	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-300-33425 STATE AID OTHER	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-300-33510 DRUG TASK FORC	\$10,000.00	\$0.00	\$100,866.58	-\$90,866.58	1008.67%	\$0.00
R 101-400-34101 CITY HALL RENT	\$2,000.00	\$0.00	\$2,185.45	-\$185.45	109.27%	\$2,121.80
R 101-400-34103 ZONING AND SUB	\$45,000.00	\$2,150.00	\$25,620.00	\$19,380.00	56.93%	\$37,140.00
R 101-400-34104 WETLAND PERMIT	\$2,000.00	\$250.00	\$1,250.00	\$750.00	62.50%	\$2,800.00
R 101-400-34105 SALE OF MAPS AN	\$500.00	\$0.00	\$61.49	\$438.51	12.30%	-\$178.00
R 101-400-34106 REPORT COPIES	\$1,000.00	\$158.75	\$1,765.50	-\$765.50	176.55%	\$1,529.33
R 101-400-34107 ASSESSMENT SEA	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-400-34109 MISC FEES	\$500.00	\$0.00	\$1,303.68	-\$803.68	260.74%	\$257.98
R 101-400-34301 STREET STATE AI	\$20,000.00	\$0.00	\$20,000.00	\$0.00	100.00%	\$20,000.00
R 101-400-34303 STREET DEPARTM	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-400-34401 CRIME LEVY - ISD	\$50,000.00	\$0.00	\$47,444.40	\$2,555.60	94.89%	\$48,412.80
R 101-400-34501 POLICE SERVICES	\$261,259.00	\$65,314.75	\$261,259.00	\$0.00	100.00%	\$245,082.00
R 101-400-34502 FIRE SERVICE CAL	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-400-34940 SQUAD/EQUIP SAL	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-400-34950 SUPPLIES/MATERI	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-400-37170 OTHER/CELL PHO	\$137,000.00	\$0.00	\$28,469.67	\$108,530.33	20.78%	\$27,724.70
R 101-500-35101 COURT FINES	\$35,000.00	\$3,368.00	\$27,457.40	\$7,542.60	78.45%	\$19,163.94
R 101-500-35104 ALARM FINES	\$0.00	\$100.00	\$200.00	-\$200.00	0.00%	\$100.00

Account Descr	2023 YTD Budget	SEPTEMBER 2023 Amt	2023 YTD Amt	2023 YTD Balance	%YTD Budget	2022 YTD Amt
R 101-500-35105 DOG RELEASE	\$0.00	\$0.00	\$80.00	-\$80.00	0.00%	\$160.00
R 101-500-35300 FORFEITURES	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-600-36101 SPECIAL ASSESSM	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-610-36210 INTEREST ON INV	\$25,000.00	\$36.28	\$62,140.87	-\$37,140.87	248.56%	-\$191,081.77
R 101-620-36230 CONTRIBUTIONS	\$0.00	\$100.00	\$1,600.00	-\$1,600.00	0.00%	\$0.00
R 101-620-36240 REVENUE COLL FO	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
R 101-620-36250 REFUNDS AND REI	\$10,000.00	\$3,553.90	\$5,573.99	\$4,426.01	55.74%	\$12,186.55
R 101-620-36251 PD REFUNDS/REI	\$5,000.00	\$155.00	\$2,425.59	\$2,574.41	48.51%	\$565.90
R 101-620-37170 OTHER/CELL PHO	\$170,000.00	\$170,000.00	\$170,000.00	\$0.00	100.00%	\$0.00
R 101-620-39101 SALE OF FIXED AS	\$5,000.00	\$0.00	\$717.36	\$4,282.64	14.35%	\$0.00
R 101-700-40000 OPERATING TRAN	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
FUND 101 GENERAL FUND	\$5,903,759.00	\$456,589.70	\$4,015,125.09	\$1,888,633.91	68.01%	\$2,941,730.45
	<u>\$5,903,759.00</u>	<u>\$456,589.70</u>	<u>\$4,015,125.09</u>	<u>\$1,888,633.91</u>	<u>68.01%</u>	<u>\$2,941,730.45</u>

CITY OF MINNETRISTA

Expenditure Guideline by Departments - 2023 upd

Account Descr	2023 YTD Budget	SEPTEMBER 2023 Amt	2023 YTD Amt	2023 YTD Balance	%YTD Budget	2022 YTD Amt
FUND 101 GENERAL FUND						
DEPT 41110 COUNCIL						
E 101-41110-101 SALARIES-REGULA	\$28,200.00	\$2,350.00	\$18,800.00	\$9,400.00	66.67%	\$14,800.00
E 101-41110-122 FICA - EMPLOYER	\$2,157.00	\$179.80	\$1,438.40	\$718.60	66.69%	\$1,132.40
E 101-41110-201 OFFICE SUPPLIES	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$51.02
E 101-41110-361 GENERAL LIABILIT	\$2,500.00	\$0.00	\$2,003.70	\$496.30	80.15%	\$1,740.44
E 101-41110-433 DUES & SUBSRIPT	\$1,000.00	\$30.00	\$806.99	\$193.01	80.70%	\$1,162.98
E 101-41110-435 COUNCIL TRAIN/R	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41110-436 CONTRIBUTIONS	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41110-437 MISCELLANEOUS E	\$3,000.00	\$171.25	\$4,375.89	-\$1,375.89	145.86%	\$2,031.73
E 101-41110-440 APPRECIATION EV	\$2,000.00	\$0.00	\$686.51	\$1,313.49	34.33%	\$0.00
E 101-41110-442 LMA	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41110-443 WRA	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
DEPT 41110 COUNCIL	\$38,857.00	\$2,731.05	\$28,111.49	\$10,745.51	72.35%	\$20,918.57
DEPT 41320 ADMINISTRATION						
E 101-41320-101 SALARIES-REGULA	\$397,102.00	\$27,484.26	\$252,628.27	\$144,473.73	63.62%	\$184,896.11
E 101-41320-102 SALARIES-OVERTI	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41320-121 PERA - EMPLOYER	\$29,783.00	\$1,964.90	\$17,615.56	\$12,167.44	59.15%	\$13,401.43
E 101-41320-122 FICA - EMPLOYER	\$30,378.00	\$2,072.65	\$18,911.37	\$11,466.63	62.25%	\$13,766.43
E 101-41320-131 HEALTH & LIFE IN	\$39,792.00	\$1,432.25	\$40,422.63	-\$630.63	101.58%	\$24,314.36
E 101-41320-151 WORKMEN S COM	\$2,500.00	\$0.00	\$2,746.76	-\$246.76	109.87%	\$2,561.81
E 101-41320-201 OFFICE SUPPLIES	\$3,000.00	\$86.52	\$1,392.01	\$1,607.99	46.40%	\$1,854.52
E 101-41320-202 COPY & PRINTING	\$3,500.00	\$428.65	\$3,114.12	\$385.88	88.97%	\$2,387.98
E 101-41320-302 CONSULTANTS/MI	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41320-307 PROFESSIONAL SE	\$5,000.00	\$197.96	\$5,508.79	-\$508.79	110.18%	\$3,558.37
E 101-41320-322 POSTAGE	\$7,000.00	\$0.00	\$6,162.66	\$837.34	88.04%	\$4,823.89
E 101-41320-331 TRAVEL EXPENSE	\$0.00	\$0.00	\$196.92	-\$196.92	0.00%	\$0.00
E 101-41320-351 LEGAL NOTICE &	\$1,000.00	\$0.00	\$750.76	\$249.24	75.08%	\$1,416.24
E 101-41320-404 VEHICLE & EQUIP	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41320-410 COMPUTER SERVI	\$30,000.00	\$1,286.84	\$18,558.17	\$11,441.83	61.86%	\$22,314.81
E 101-41320-433 DUES & SUBSRIPT	\$21,000.00	\$9,816.01	\$27,071.06	-\$6,071.06	128.91%	\$22,525.80
E 101-41320-435 COUNCIL TRAIN/R	\$0.00	\$111.35	\$170.64	-\$170.64	0.00%	\$140.40
E 101-41320-437 MISCELLANEOUS E	\$2,500.00	\$215.75	\$4,619.50	-\$2,119.50	184.78%	\$2,743.75
DEPT 41320 ADMINISTRATION	\$572,555.00	\$45,097.14	\$399,869.22	\$172,685.78	69.84%	\$300,705.90
DEPT 41410 ELECTIONS						
E 101-41410-101 SALARIES-REGULA	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$4,023.02
E 101-41410-122 FICA - EMPLOYER	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00

Account Descr	2023 YTD Budget	SEPTEMBER 2023 Amt	2023 YTD Amt	2023 YTD Balance	%YTD Budget	2022 YTD Amt
E 101-41410-201 OFFICE SUPPLIES	\$80.00	\$0.00	\$0.00	\$80.00	0.00%	\$112.94
E 101-41410-202 COPY & PRINTING	\$50.00	\$0.00	\$0.00	\$50.00	0.00%	\$464.26
E 101-41410-322 POSTAGE	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41410-404 VEHICLE & EQUIP	\$500.00	\$0.00	\$2,248.20	-\$1,748.20	449.64%	\$2,248.20
E 101-41410-437 MISCELLANEOUS E	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$52.09
DEPT 41410 ELECTIONS	\$630.00	\$0.00	\$2,248.20	-\$1,618.20	356.86%	\$6,900.51
DEPT 41530 AUDITOR						
E 101-41530-301 AUDITING AND AC	\$33,600.00	\$0.00	\$33,600.00	\$0.00	100.00%	\$27,400.00
DEPT 41530 AUDITOR	\$33,600.00	\$0.00	\$33,600.00	\$0.00	100.00%	\$27,400.00
DEPT 41550 ASSESSING						
E 101-41550-310 HENNEPIN COUNT	\$198,000.00	\$0.00	\$198,000.00	\$0.00	100.00%	\$178,000.00
E 101-41550-351 LEGAL NOTICE &	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
DEPT 41550 ASSESSING	\$198,000.00	\$0.00	\$198,000.00	\$0.00	100.00%	\$178,000.00
DEPT 41610 ATTORNEY						
E 101-41610-304 LEGAL FEES - ATT	\$69,000.00	\$3,443.00	\$26,036.48	\$42,963.52	37.73%	\$38,481.75
E 101-41610-305 PROSECUTING AT	\$36,000.00	\$0.00	\$18,000.00	\$18,000.00	50.00%	\$18,000.00
E 101-41610-311 HR ATTORNEY	\$1,400.00	\$0.00	\$0.00	\$1,400.00	0.00%	\$1,424.50
DEPT 41610 ATTORNEY	\$106,400.00	\$3,443.00	\$44,036.48	\$62,363.52	41.39%	\$57,906.25
DEPT 41910 PLANNING						
E 101-41910-101 SALARIES-REGULA	\$227,032.00	\$17,684.80	\$164,334.40	\$62,697.60	72.38%	\$138,202.51
E 101-41910-102 SALARIES-OVERTI	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41910-121 PERA - EMPLOYER	\$17,027.00	\$1,326.36	\$12,325.08	\$4,701.92	72.39%	\$10,365.19
E 101-41910-122 FICA - EMPLOYER	\$17,368.00	\$1,303.48	\$12,106.32	\$5,261.68	69.70%	\$10,501.83
E 101-41910-131 HEALTH & LIFE IN	\$26,400.00	\$2,315.90	\$21,366.50	\$5,033.50	80.93%	\$21,409.33
E 101-41910-151 WORKMEN S COM	\$1,000.00	\$0.00	\$1,098.71	-\$98.71	109.87%	\$1,030.91
E 101-41910-201 OFFICE SUPPLIES	\$1,100.00	\$113.99	\$1,320.90	-\$220.90	120.08%	\$495.33
E 101-41910-202 COPY & PRINTING	\$1,950.00	\$190.00	\$1,868.73	\$81.27	95.83%	\$1,564.00
E 101-41910-302 CONSULTANTS/MI	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41910-303 ENGINEERING SE	\$5,500.00	\$0.00	\$0.00	\$5,500.00	0.00%	\$873.00
E 101-41910-307 PROFESSIONAL SE	\$0.00	\$41.86	\$2,702.17	-\$2,702.17	0.00%	\$1,781.83
E 101-41910-322 POSTAGE	\$100.00	\$0.00	\$0.00	\$100.00	0.00%	\$106.40
E 101-41910-331 TRAVEL EXPENSE	\$200.00	\$0.00	\$140.69	\$59.31	70.35%	\$40.95
E 101-41910-351 LEGAL NOTICE &	\$1,200.00	\$103.13	\$569.28	\$630.72	47.44%	\$666.57
E 101-41910-433 DUES & SUBSRIPT	\$1,000.00	\$0.00	\$901.49	\$98.51	90.15%	\$272.42
E 101-41910-435 COUNCIL TRAIN/R	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41910-437 MISCELLANEOUS E	\$100.00	\$0.00	\$623.90	-\$523.90	623.90%	\$0.00
DEPT 41910 PLANNING	\$299,977.00	\$23,079.52	\$219,358.17	\$80,618.83	73.13%	\$187,310.27
DEPT 41940 GOVERNMENT BUILDINGS (CH/PW)						

Account Descr	2023 YTD Budget	SEPTEMBER 2023 Amt	2023 YTD Amt	2023 YTD Balance	%YTD Budget	2022 YTD Amt
E 101-41940-101 SALARIES-REGULA	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41940-121 PERA - EMPLOYER	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41940-122 FICA - EMPLOYER	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41940-211 CLEANING & MAIN	\$10,000.00	\$650.80	\$5,182.42	\$4,817.58	51.82%	\$5,191.98
E 101-41940-223 BUILDING REPAIR	\$1,000.00	\$170.22	\$869.92	\$130.08	86.99%	\$766.40
E 101-41940-321 TELEPHONE	\$14,000.00	\$465.13	\$7,518.78	\$6,481.22	53.71%	\$9,332.91
E 101-41940-362 PROPERTY INSUR	\$22,000.00	\$0.00	\$25,454.58	-\$3,454.58	115.70%	\$20,547.53
E 101-41940-381 ELECTRIC UTILITI	\$14,000.00	\$1,469.19	\$9,752.63	\$4,247.37	69.66%	\$9,608.74
E 101-41940-383 NATURAL GAS	\$5,000.00	\$65.00	\$4,635.27	\$364.73	92.71%	\$3,451.68
E 101-41940-384 REFUSE REMOVAL	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-41940-401 BLDG/STRUCT MAI	\$8,000.00	\$223.76	\$5,261.23	\$2,738.77	65.77%	\$8,717.78
E 101-41940-402 LAWN MAINTENAN	\$9,250.00	\$3,360.00	\$9,469.00	-\$219.00	102.37%	\$5,694.00
E 101-41940-404 VEHICLE & EQUIP	\$0.00	\$0.00	\$949.83	-\$949.83	0.00%	\$0.00
E 101-41940-437 MISCELLANEOUS E	\$100.00	\$0.00	\$0.00	\$100.00	0.00%	\$124.97
E 101-41940-531 BUILDING IMPROV	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
DEPT 41940 GOVERNMENT BUILD	\$83,350.00	\$6,404.10	\$69,093.66	\$14,256.34	82.90%	\$63,435.99
DEPT 42110 POLICE DEPARTMENT						
E 101-42110-101 SALARIES-REGULA	\$1,593,282.00	\$120,557.84	\$1,095,728.32	\$497,553.68	68.77%	\$1,007,111.05
E 101-42110-102 SALARIES-OVERTI	\$31,000.00	\$7,253.92	\$41,467.49	-\$10,467.49	133.77%	\$35,254.54
E 101-42110-103 SALARIES-SAFE&S	\$5,000.00	\$1,561.50	\$12,536.24	-\$7,536.24	250.72%	\$764.82
E 101-42110-104 SALARIES-DARE	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-106 SALARIES-CHFCHA	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-121 PERA - EMPLOYER	\$256,944.00	\$21,340.35	\$186,967.56	\$69,976.44	72.77%	\$169,995.03
E 101-42110-122 FICA - EMPLOYER	\$37,805.00	\$2,755.73	\$26,064.56	\$11,740.44	68.94%	\$22,796.92
E 101-42110-131 HEALTH & LIFE IN	\$219,600.00	\$17,807.86	\$178,728.38	\$40,871.62	81.39%	\$180,050.10
E 101-42110-151 WORKMEN S COM	\$75,000.00	\$0.00	\$80,574.97	-\$5,574.97	107.43%	\$44,679.88
E 101-42110-201 OFFICE SUPPLIES	\$4,000.00	\$381.75	\$1,644.67	\$2,355.33	41.12%	\$1,511.30
E 101-42110-202 COPY & PRINTING	\$3,500.00	\$95.49	\$2,492.81	\$1,007.19	71.22%	\$2,283.88
E 101-42110-211 CLEANING & MAIN	\$13,000.00	\$1,163.93	\$9,218.06	\$3,781.94	70.91%	\$8,072.71
E 101-42110-212 MOTOR FUELS AN	\$35,000.00	\$4,962.16	\$30,043.09	\$4,956.91	85.84%	\$26,976.97
E 101-42110-221 EQUIPMENT PART	\$10,000.00	\$6,714.04	\$16,545.50	-\$6,545.50	165.46%	\$14,558.53
E 101-42110-240 SMALL TOOLS AN	\$1,000.00	\$27.00	\$406.95	\$593.05	40.70%	\$0.00
E 101-42110-301 AUDITING AND AC	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-304 LEGAL FEES - ATT	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-307 PROFESSIONAL SE	\$12,000.00	\$37.00	\$15,089.27	-\$3,089.27	125.74%	\$11,202.88
E 101-42110-315 RENT/SIRENS	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-319 KENNEL CHARGES	\$2,000.00	\$0.00	\$1,200.00	\$800.00	60.00%	\$750.00
E 101-42110-321 TELEPHONE	\$12,000.00	\$387.09	\$7,340.40	\$4,659.60	61.17%	\$7,819.73
E 101-42110-322 POSTAGE	\$1,000.00	\$0.00	\$192.30	\$807.70	19.23%	\$92.59
E 101-42110-339 SIREN AND MAINT	\$18,000.00	\$0.00	\$17,980.06	\$19.94	99.89%	\$18,066.00

Account Descr	2023 YTD Budget	SEPTEMBER 2023 Amt	2023 YTD Amt	2023 YTD Balance	%YTD Budget	2022 YTD Amt
E 101-42110-362 PROPERTY INSUR	\$18,000.00	\$0.00	\$22,024.66	-\$4,024.66	122.36%	\$16,201.47
E 101-42110-363 AUTOMOBILE INS	\$14,000.00	\$0.00	\$12,769.00	\$1,231.00	91.21%	\$12,909.00
E 101-42110-381 ELECTRIC UTILITI	\$36,000.00	\$3,177.80	\$29,360.81	\$6,639.19	81.56%	\$27,707.93
E 101-42110-383 NATURAL GAS	\$7,000.00	\$70.02	\$5,305.91	\$1,694.09	75.80%	\$6,797.12
E 101-42110-401 BLDG/STRUCT MAI	\$20,000.00	\$475.00	\$11,415.06	\$8,584.94	57.08%	\$9,284.37
E 101-42110-404 VEHICLE & EQUIP	\$16,000.00	\$3,752.52	\$14,502.48	\$1,497.52	90.64%	\$15,208.10
E 101-42110-410 COMPUTER SERVI	\$36,000.00	\$1,815.20	\$35,215.76	\$784.24	97.82%	\$38,118.04
E 101-42110-415 RADIO LEASE	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-416 RENTAL	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-417 UNIFORMS	\$16,000.00	\$1,507.65	\$6,710.28	\$9,289.72	41.94%	\$15,310.89
E 101-42110-418 RECRUITING	\$3,000.00	\$2,505.40	\$8,770.42	-\$5,770.42	292.35%	\$6,386.50
E 101-42110-428 RESERVE OFFICER	\$1,000.00	\$0.00	\$0.00	\$1,000.00	0.00%	\$0.00
E 101-42110-431 TRAIN/MTG/EXP &	\$10,000.00	\$0.00	\$7,148.93	\$2,851.07	71.49%	\$2,541.87
E 101-42110-432 DRUG TASK FORC	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-433 DUES & SUBSRIPT	\$6,000.00	\$0.00	\$9,679.94	-\$3,679.94	161.33%	\$8,526.94
E 101-42110-434 POLICE TRAINING	\$15,000.00	\$2,754.78	\$12,589.78	\$2,410.22	83.93%	\$10,571.30
E 101-42110-435 COUNCIL TRAIN/R	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-437 MISCELLANEOUS E	\$3,000.00	\$209.41	\$2,923.63	\$76.37	97.45%	\$1,507.61
E 101-42110-440 APPRECIATION EV	\$8,500.00	\$0.00	\$12,373.09	-\$3,873.09	145.57%	\$7,729.97
E 101-42110-441 CORRECTION FEE	\$5,000.00	\$0.00	\$2,150.33	\$2,849.67	43.01%	\$3,183.93
E 101-42110-450 DARE/CRIME PREV	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-510 CITIZEN CORPS C	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-511 CERT TEAM	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-512 VOLUNTEERS IN P	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-513 MEDICAL RESERV	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42110-560 EQIUP AND FURNI	\$0.00	\$0.00	\$7,000.00	-\$7,000.00	0.00%	\$0.00
E 101-42110-590 PROGRAMS	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
DEPT 42110 POLICE DEPARTMEN	\$2,544,631.00	\$201,313.44	\$1,924,160.71	\$620,470.29	75.62%	\$1,733,971.97
DEPT 42210 FIRE DEPARTMENT						
E 101-42210-307 PROFESSIONAL SE	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42210-316 FIRE CONTRACT M	\$348,047.00	\$87,056.00	\$348,224.00	-\$177.00	100.05%	\$259,473.00
E 101-42210-317 FIRE SATELLITE	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42210-318 FIRE CONTRACT S	\$279,789.00	\$69,947.25	\$279,789.00	\$0.00	100.00%	\$253,762.00
DEPT 42210 FIRE DEPARTMENT	\$627,836.00	\$157,003.25	\$628,013.00	-\$177.00	100.03%	\$513,235.00
DEPT 42401 BUILDING INSPECTION						
E 101-42401-101 SALARIES-REGULA	\$166,845.00	\$13,011.20	\$121,178.82	\$45,666.18	72.63%	\$106,648.48
E 101-42401-102 SALARIES-OVERTI	\$5,000.00	\$0.00	\$0.00	\$5,000.00	0.00%	\$0.00
E 101-42401-107 SEASONAL SALARI	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42401-121 PERA - EMPLOYER	\$12,513.00	\$975.84	\$9,088.41	\$3,424.59	72.63%	\$7,998.74

Account Descr	2023 YTD Budget	SEPTEMBER 2023 Amt	2023 YTD Amt	2023 YTD Balance	%YTD Budget	2022 YTD Amt
E 101-42401-122 FICA - EMPLOYER	\$12,764.00	\$989.32	\$9,216.74	\$3,547.26	72.21%	\$8,177.59
E 101-42401-131 HEALTH & LIFE IN	\$26,400.00	\$2,306.29	\$20,820.35	\$5,579.65	78.86%	\$22,473.51
E 101-42401-151 WORKMEN S COM	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42401-201 OFFICE SUPPLIES	\$1,000.00	\$70.88	\$559.11	\$440.89	55.91%	\$317.41
E 101-42401-202 COPY & PRINTING	\$1,000.00	\$100.00	\$1,469.66	-\$469.66	146.97%	\$870.96
E 101-42401-303 ENGINEERING SE	\$31,000.00	\$5,240.00	\$18,000.00	\$13,000.00	58.06%	\$13,498.00
E 101-42401-306 BUILDING INSPEC	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42401-308 PLAN REVIEW FEE	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-42401-404 VEHICLE & EQUIP	\$1,500.00	\$0.00	\$1,354.00	\$146.00	90.27%	\$756.86
E 101-42401-433 DUES & SUBSRIPT	\$2,500.00	\$383.00	-\$77.00	\$2,577.00	-3.08%	\$588.61
E 101-42401-437 MISCELLANEOUS E	\$1,000.00	\$0.00	\$69.98	\$930.02	7.00%	\$22.35
DEPT 42401 BUILDING INSPECTI	\$261,522.00	\$23,076.53	\$181,680.07	\$79,841.93	69.47%	\$161,352.51
DEPT 42600 ENGINEER						
E 101-42600-303 ENGINEERING SE	\$13,500.00	\$1,000.00	\$7,103.50	\$6,396.50	52.62%	\$7,000.00
E 101-42600-309 WETLAND REVIEW	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
DEPT 42600 ENGINEER	\$13,500.00	\$1,000.00	\$7,103.50	\$6,396.50	52.62%	\$7,000.00
DEPT 43121 STREET DEPARTMENT						
E 101-43121-101 SALARIES-REGULA	\$400,360.00	\$34,312.00	\$289,377.13	\$110,982.87	72.28%	\$292,341.24
E 101-43121-102 SALARIES-OVERTI	\$6,000.00	\$0.00	\$1,788.42	\$4,211.58	29.81%	\$6,180.55
E 101-43121-105 SALARIES-PAGER	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-43121-121 PERA - EMPLOYER	\$27,869.00	\$2,573.39	\$21,211.26	\$6,657.74	76.11%	\$21,782.61
E 101-43121-122 FICA - EMPLOYER	\$28,426.00	\$2,540.70	\$21,653.47	\$6,772.53	76.17%	\$22,427.02
E 101-43121-131 HEALTH & LIFE IN	\$69,740.00	\$5,542.67	\$54,697.33	\$15,042.67	78.43%	\$54,757.45
E 101-43121-151 WORKMEN S COM	\$25,000.00	\$0.00	\$27,467.74	-\$2,467.74	109.87%	\$25,710.78
E 101-43121-201 OFFICE SUPPLIES	\$500.00	\$181.62	\$640.00	-\$140.00	128.00%	\$540.44
E 101-43121-211 CLEANING & MAIN	\$5,500.00	\$604.75	\$4,747.65	\$752.35	86.32%	\$3,854.74
E 101-43121-212 MOTOR FUELS AN	\$25,000.00	\$1,800.32	\$17,372.07	\$7,627.93	69.49%	\$12,021.86
E 101-43121-215 SHOP MATERIALS	\$6,000.00	\$24.60	\$1,446.88	\$4,553.12	24.11%	\$2,553.83
E 101-43121-221 EQUIPMENT PART	\$16,000.00	\$521.54	\$34,294.72	-\$18,294.72	214.34%	\$5,981.95
E 101-43121-224 STREET MAINTEN	\$225,000.00	\$2,745.48	\$74,373.58	\$150,626.42	33.05%	\$106,603.04
E 101-43121-240 SMALL TOOLS AN	\$2,000.00	\$28.11	\$238.87	\$1,761.13	11.94%	\$1,046.49
E 101-43121-307 PROFESSIONAL SE	\$10,000.00	\$1,511.36	\$7,789.38	\$2,210.62	77.89%	\$9,208.84
E 101-43121-321 TELEPHONE	\$11,000.00	\$1,260.05	\$7,786.25	\$3,213.75	70.78%	\$7,810.12
E 101-43121-363 AUTOMOBILE INS	\$12,000.00	\$0.00	\$13,491.00	-\$1,491.00	112.43%	\$11,831.00
E 101-43121-381 ELECTRIC UTILITI	\$7,000.00	\$422.61	\$5,456.02	\$1,543.98	77.94%	\$5,602.40
E 101-43121-383 NATURAL GAS	\$5,500.00	\$55.92	\$5,847.53	-\$347.53	106.32%	\$4,959.67
E 101-43121-401 BLDG/STRUCT MAI	\$10,000.00	\$545.07	\$3,975.29	\$6,024.71	39.75%	\$1,808.82
E 101-43121-404 VEHICLE & EQUIP	\$25,000.00	\$3,152.73	\$40,710.39	-\$15,710.39	162.84%	\$20,132.70
E 101-43121-410 COMPUTER SERVI	\$4,000.00	\$314.78	\$3,928.29	\$71.71	98.21%	\$4,858.60

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E 101-43121-415 RADIO LEASE	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-43121-416 RENTAL	\$2,000.00	\$0.00	\$200.00	\$1,800.00	10.00%	\$0.00
E 101-43121-417 UNIFORMS	\$8,000.00	\$797.72	\$6,597.56	\$1,402.44	82.47%	\$5,405.38
E 101-43121-433 DUES & SUBSRIPT	\$1,000.00	\$0.00	\$222.45	\$777.55	22.25%	\$431.45
E 101-43121-437 MISCELLANEOUS E	\$3,500.00	\$0.00	\$2,574.19	\$925.81	73.55%	\$2,812.06
DEPT 43121 STREET DEPARTMEN	\$936,395.00	\$58,935.42	\$647,887.47	\$288,507.53	69.19%	\$630,663.04
DEPT 43125 ICE AND SNOW REMOVAL						
E 101-43125-101 SALARIES-REGULA	\$36,480.00	\$272.88	\$55,456.41	-\$18,976.41	152.02%	\$18,818.90
E 101-43125-102 SALARIES-OVERTI	\$6,000.00	\$0.00	\$19,000.31	-\$13,000.31	316.67%	\$6,793.06
E 101-43125-121 PERA - EMPLOYER	\$2,736.00	\$20.46	\$5,558.52	-\$2,822.52	203.16%	\$1,917.59
E 101-43125-122 FICA - EMPLOYER	\$2,791.00	\$20.74	\$5,471.09	-\$2,680.09	196.03%	\$1,923.30
E 101-43125-131 HEALTH & LIFE IN	\$13,000.00	\$990.94	\$13,462.07	-\$462.07	103.55%	\$11,147.12
E 101-43125-151 WORKMEN S COM	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-43125-212 MOTOR FUELS AN	\$20,000.00	\$360.06	\$9,381.26	\$10,618.74	46.91%	\$10,947.35
E 101-43125-221 EQUIPMENT PART	\$6,500.00	\$0.00	\$3,045.32	\$3,454.68	46.85%	\$2,909.74
E 101-43125-224 STREET MAINTEN	\$31,000.00	\$0.00	\$42,214.07	-\$11,214.07	136.17%	\$30,323.30
E 101-43125-307 PROFESSIONAL SE	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-43125-404 VEHICLE & EQUIP	\$2,500.00	\$0.00	\$0.00	\$2,500.00	0.00%	\$0.00
E 101-43125-433 DUES & SUBSRIPT	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-43125-437 MISCELLANEOUS E	\$500.00	\$0.00	\$69.37	\$430.63	13.87%	\$0.00
E 101-43125-560 EQUIP AND FURNI	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
DEPT 43125 ICE AND SNOW REM	\$121,507.00	\$1,665.08	\$153,658.42	-\$32,151.42	126.46%	\$84,780.36
DEPT 43160 STREET LIGHTING						
E 101-43160-381 ELECTRIC UTILITI	\$27,000.00	\$2,784.14	\$18,746.31	\$8,253.69	69.43%	\$19,863.28
DEPT 43160 STREET LIGHTING	\$27,000.00	\$2,784.14	\$18,746.31	\$8,253.69	69.43%	\$19,863.28
DEPT 45202 PARK AREAS						
E 101-45202-101 SALARIES-REGULA	\$42,000.00	\$1,944.00	\$38,750.04	\$3,249.96	92.26%	\$30,185.81
E 101-45202-102 SALARIES-OVERTI	\$0.00	\$0.00	\$170.10	-\$170.10	0.00%	\$164.75
E 101-45202-107 SEASONAL SALARI	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-45202-121 PERA - EMPLOYER	\$3,150.00	\$145.80	\$2,319.92	\$830.08	73.65%	\$1,633.17
E 101-45202-122 FICA - EMPLOYER	\$3,213.00	\$150.86	\$2,982.31	\$230.69	92.82%	\$2,329.75
E 101-45202-131 HEALTH & LIFE IN	\$7,000.00	\$642.36	\$7,903.65	-\$903.65	112.91%	\$6,602.04
E 101-45202-151 WORKMEN S COM	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-45202-201 OFFICE SUPPLIES	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-45202-202 COPY & PRINTING	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-45202-215 SHOP MATERIALS	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-45202-221 EQUIPMENT PART	\$500.00	\$0.00	\$944.65	-\$444.65	188.93%	\$92.97
E 101-45202-302 CONSULTANTS/MI	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-45202-362 PROPERTY INSUR	\$23,000.00	\$0.00	\$23,654.07	-\$654.07	102.84%	\$21,992.41

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E 101-45202-384 REFUSE REMOVAL	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-45202-401 BLDG/STRUCT MAI	\$10,000.00	\$783.79	\$8,330.04	\$1,669.96	83.30%	\$9,267.78
E 101-45202-402 LAWN MAINTENAN	\$60,000.00	\$6,468.00	\$34,809.00	\$25,191.00	58.02%	\$32,815.02
E 101-45202-404 VEHICLE & EQUIP	\$500.00	\$0.00	\$0.00	\$500.00	0.00%	\$0.00
E 101-45202-433 DUES & SUBSRIPT	\$1,200.00	\$0.00	\$1,260.00	-\$60.00	105.00%	\$600.00
E 101-45202-437 MISCELLANEOUS E	\$500.00	\$0.00	\$157.71	\$342.29	31.54%	\$880.44
E 101-45202-530 IMPROVEMENTS	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-45202-590 PROGRAMS	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
DEPT 45202 PARK AREAS	\$151,063.00	\$10,134.81	\$121,281.49	\$29,781.51	80.29%	\$106,564.14
DEPT 49020 MISCELLANEOUS						
E 101-49020-307 PROFESSIONAL SE	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
E 101-49020-433 DUES & SUBSRIPT	\$0.00	\$0.00	\$17.31	-\$17.31	0.00%	\$0.00
E 101-49020-437 MISCELLANEOUS E	\$25,000.00	\$0.00	\$3,294.39	\$21,705.61	13.18%	\$17,104.24
E 101-49020-530 IMPROVEMENTS	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$0.00
DEPT 49020 MISCELLANEOUS	\$25,000.00	\$0.00	\$3,311.70	\$21,688.30	13.25%	\$17,104.24
DEPT 49240 INSURANCE UNALLOCATED						
E 101-49240-361 GENERAL LIABILIT	\$11,000.00	\$0.00	\$8,816.29	\$2,183.71	80.15%	\$7,657.94
DEPT 49240 INSURANCE UNALLO	\$11,000.00	\$0.00	\$8,816.29	\$2,183.71	80.15%	\$7,657.94
DEPT 49300 TRANSFERS OUT						
E 101-49300-720 TRANSFERS	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$225,000.00
DEPT 49300 TRANSFERS OUT	\$0.00	\$0.00	\$0.00	\$0.00	0.00%	\$225,000.00
FUND 101 GENERAL FUND	\$6,052,823.00	\$536,667.48	\$4,688,976.18	\$1,363,846.82	77.47%	\$4,349,769.97
	\$6,052,823.00	\$536,667.48	\$4,688,976.18	\$1,363,846.82	77.47%	\$4,349,769.97

SEPTEMBER 2023 CASH and INVESTMENTS**DATE****09/30/2023**

FUND NO.	DESCRIPTION	TOTAL CASH & INVESTMENTS
101	General Fund	2,853,771.59
401	Capital Improvement Program	306,428.11
402	Emergency Warning Siren Fund	245,931.17
404	Park Dedication Fund	985,755.46
406	Road Maintenance Fund	1,402,877.18
407	Tree Replacement Fund	359,641.66
433	2023 Street Improv Projects Fund	1,885,698.29
490	Street Improvement Capital Projects	338,095.10
501	Equipment Certificates Fund	249,679.22
526	Maple Crest Debt	33,035.67
527	CIP Project Bonds (Facilities)	247,921.04
528	Game Farm South Bay Project Debt Fund	121,596.37
529	Highland Road Debt Fund	94,928.96
532	2017 A Street Projects Debt	438,669.03
533	2023 Street Improv Projects Debt Fund	149,005.87
601	Water Fund	2,285,718.97
602	Sewer Fund	1,202,940.23
651	Storm Water Drainage Fund	689,866.54
671	Recycling Fund	142,826.77
673	Cable Fund	64,022.33
801	Land use Agency	105,672.91
	TOTAL	14,204,082.47

Notes to Cash and Investments Report (3rd quarter 2023)

- 1) * **General Fund (101)**- Actual Fund Balance is \$1,961,104.80. Most of the difference in comparison to the cash and investments total has to do with the temporary CO deposits the City is holding.
- 2) ****2023 Street Projects Improvement and Debt Fund (433 & 533)** These are the new funds created in 2023 in conjunction with the financing of the 2023 street projects. There is about \$2 million in current cash on hand. These funds will be spent down over the Fall as these projects move towards completion.
- 3) *****Street Improvement Capital Project Fund (490)** – Actual Fund Balance is \$27,449. Most of the cash and investments number is escrows and deposits we have for sealcoating and other related street items
- 4) ******Water Fund (Fund 601)** About \$1 million of the cash balance in the fund is associated with the 2023A bond issuance and remaining funds to be spent over the Fall. To cover the costs of the watermain on the 2023 Street and Utilities Project



**CITY COUNCIL
WORK SESSION MEETING MINUTES
October 2, 2023**

1) Call to Order

Mayor Whalen called the meeting to order at 5:30 pm.

Roll Call of Attendees:

Present – Council: Mayor Lisa Whalen, Ann MacGregor, Peter Vickery and Claudia Lacy **Staff:** City Administrator Jasper Kruggel, Finance Director Brian Grimm, Director of Administration Allie Polsfuss, City Engineer Alyson Fauske

Absent: Council: Cathleen Reffkin

2) Sewer Fund Budget Discussion

Finance Director, Brian Grimm provided an overview.

Highlights include:

- The current cash balance in the sewer fund is \$1,134,183.
- The city's- 2023 sanitary sewer utility rate is \$109 per quarter, and staff recommends increasing the sewer rate to \$115 a quarter in 2024.
- One of the biggest costs in the fund is the Met Council's Wastewater Charge (MCES.) This amount is increasing by about \$14,000 (3.5%) from 2023-2024
- Staff is also proposing raising the fees for the sewer connection fee and sewer area charge from \$1,400 to \$1,500 per connection.

There was discussion about the upcoming commercial development.

Whalen suggested raising the sewer connection fee and lowering the sewer rate. Vickery stated with the new development, there will be additional staff time involved in managing the utilities. The Council was agreeable to this.

Staff will move forward and calculate a higher connection fee and reduce the sewer rate.

There was discussion about future water infrastructure projects and future water rates.

Whalen asked for clarification on projected revenue on interest on investments in 2024. Grimm stated the increase from 2023 is due to the higher yield as they the investments get closer to maturity.

Staff will bring the fee schedule with the proposed rates at a future meeting.

3) Stormwater/Surface water Fund Budget Discussion

Finance Director, Brian Grimm provided an overview.

Highlights include:

- Staff is looking for direction from the Council on the 2024 stormwater/surface water rates to fund some of the necessary activities.

- The current cash balance in the fund is \$688,851.
- At this time, staff is recommending maintaining the quarterly fee of \$29.

There was discussion on how the assessment revenue is being distributed to the funds. Staff will confirm the appropriate distribution of revenue.

Vickery asked about additional funding for storm sewer/surface water programs. Grimm stated that it is likely due to MS4/ General Stormwater Consultant services in 2023 and using those numbers to project 2024.

4) Reconstruction Project Updates and Considerations

City Engineer Alyson Fauske provided an update on the 2024 Street Improvement Projects.

Fauske is looking for Council direction on if they want the contractor to lay sod or seed in the project areas for restoration of lawns. The ultimate goal is to make the restoration look good. They want to move forward with what will have the best results come spring.

There may be some availability and condition concerns with the sod.

Whalen asked who is responsible for watering the new seed or sod. Fauske stated the contractor is responsible for watering for the first thirty days, and residents can supplement watering if they wish. Whalen is concerned that if there is sod placed, there will not be enough watering to result in quality restoration.

Fauske explained the process for inspecting the sod/seed to ensure quality grass is established.

Lacy suggested that the residents prefer to have sod instead of seed.

The Council directed staff to restore the areas with good quality sod if possible, and if it is not possible, restore with seed.

5) Adjourn

Motion by MacGregor, seconded by Vickery to adjourn the meeting.
Motion passed 4-0. Absent: Reffkin

Mayor Whalen adjourned the meeting at 6:45 pm.

Respectfully submitted,

Allie Polsfuss
Director of Administration



CITY COUNCIL MEETING MINUTES October 2, 2023

1) Call to Order

Mayor Whalen called the meeting to order at 7:00 pm.

a) Pledge of Allegiance

b) Introductions: City Council: Mayor Lisa Whalen, Peter Vickery, Ann MacGregor and Claudia Lacy
Staff: City Administrator Jasper Kruggel, Sergeant Justin Thompson, Community Development Director David Abel, and Director of Administration Allie Polsfuss Consultants: City Attorney Sarah Sonsalla, Kennedy & Graven and City Engineer Alyson Fauske, WSB Engineering
Absent: City Council: Cathleen Reffkin

c) Approval of Agenda

Motion by Lacy, seconded by Vickery to approve agenda as presented.
Motion passed 4-0. Absent: Reffkin

2) Special Presentations

No Special Presentations

3) Persons to Be Heard

No Persons To Be Heard

4) Consent Agenda

- a) Approve Work Session Meeting Minutes from September 6, 2023
- b) Approve City Council Regular Meeting Minutes from September 6, 2023
- c) Approve Work Session Meeting Minutes from September 18, 2023
- d) Approve City Council Regular Meeting Minutes from September 18, 2023
- e) Approve Support of St. Bonifacius Fire Relief Service Pension Request
- f) Res No. 90-23 Approve Claims
- g) Res. No. 91-23 Approve Master Subscriber Agreement for Minnesota Court Data Services
- h) Res. No. 92-23 Adopt Certification for Unpaid Utility Fees to 2024 Taxes
- i) Res. No. 93-23 Adopt Certification for Land Use/Special Fees to 2024 Taxes
- j) Res. No. 94-23 Approving Conditional Use Permit at 5804 Hardscrabble Circle
- ~~k) Res. No. 95-23 Approving Interim Use Permit for Agricultural Entertainment at 6480 & 6530 County Road 26~~
- l) Res. No. 96-23 Accept Improvements and Authorize Final Payment for City Project 04-23 2023 Sanitary Sewer Replacement Project

MacGregor requested to remove item 4k for discussion.

Motion by Vickery, seconded by Lacy to approve the consent agenda 4a, b, c, d, f, g h, i, j, and l as presented, and remove 4k.

Motion passed 4-0. Absent: Reffkin

MacGregor has concerns about enforcement on the IUP at 6480 and 6530 CR 26, specifically in regards to noise. She stated that if the City places conditions on an operation, the City should be enforcing any violations to the conditions. MacGregor suggested a two-year extension of the IUP instead of the proposed five year extension.

Whalen suggested the Council set a date for the business to implement noise cancelling measures instead of changing the extension date.

Lacy recapped the discussion that was had at the Planning Commission on this item. Lacy stated that the owners are implementing noise cancelling measures. She suggested that the Council direct the owners to better monitor their sound to see if it is in violation of the conditions.

City Attorney clarified what the Council can put as a condition of the IUP.

Peter stated he agreed with Councilmember MacGregor's suggestion.

Applicants Frank & Ester Weigl, 4496 North Shore Drive Orono and manager Crystal Madsen, 619 North Gate Circle Winsted provided comments to the Council. They stated that there have been noise mitigation efforts implemented since they were made aware that there have been complaints. Since the Planning Commission on September 25, 2023 they have implemented lower decibel limits to ensure they are not in violation of their IUP. They stated they will continue to monitor noise limits and be courteous to their neighbors.

Motion by Lacy, seconded by MacGregor to approve Res. No. 95-23 Approving Interim Use Permit for Agricultural Entertainment at 6480 & 6530 County Road 26 with the conditions stated.

Motion passed 4-0. Absent: Reffkin

The Council also directed the applicants continue to monitor the noise decibel and provide a report to staff by December 4, 2023 to ensure they are abiding by the conditions set forth in the IUP. Staff will also keep up to date on the complaints submitted about the operation.

5) Public Hearings

No Public Hearings

6) Business Items

a) Res. No. 97-23 Approve Professional Services Agreement for 2024 Mill and Overlay Project

City Engineer Alyson Fauske provided information for overview.

Highlights include:

- The 2024 Mill and Overlay project generally consists of Hermitage Trail, Hermitage Circle, and Stonebridge Lane, Ambjor Lane, and Nike Road
- At the August 21st City Council meeting, the Council authorized the collection of pavement corings for the 2024 Mill and Overlay Project. The report confirmed that a mill and overlay is appropriate for the above-mentioned

streets.

- Staff recommends that the city consider including Pine Circle in a future reclamation project.

Motion by, seconded by to approve Res. No. 97-23 Approve Professional Services Agreement for 2024 Mill and Overlay Project.

7) Administrative Items

a) Staff Reports

- i) City Engineer- Project Update
- ii) City Administrator – City Events

b) Council Reports

- i) Mayor Lisa Whalen
- iii) Ann MacGregor
 - Gillespie Center
- iii) Claudia Lacy
 - WCC Events and Updates
 - Planning Commission
- iv) Peter Vickery
 - Pioneer-Sarah Creek

8) Adjournment

Motion by MacGregor, seconded by Vickery to adjourn the meeting.
Motion passed 4-0. Absent: Reffkin

Mayor Whalen adjourned the meeting at 7:46 pm.

Respectfully submitted,

Allie Polsfuss
Director of Administration

CITY OF MINNETRISTA

CONSENT AGENDA ITEM 4C



Subject: **Application for a Temporary One-day Intoxicating Liquor License for the event of Minnetrista Holiday Tree Lighting on November 30, 2023 at Minnetrista City Hall, 7701 County Road 110 W**

Prepared By: **Ann Meyerhoff, City Clerk**

Meeting Date: **October 16, 2023**

Issue:

The first annual Minnetrista Holiday Tree Lighting is scheduled to be held on Thursday, November 30, 2023 from 5 p.m. to 7 p.m. at Minnetrista City Hall located at 7701 County Road 110 W. This event features a beer and wine tent, a food truck, roasting s'mores and a visit from Santa. A temporary on-sale liquor license is required to conduct this event.

Background:

This event is being hosted by the City of Minnetrista with beer and wine being provided by the Northwest Tonka Lions. State liquor laws require a liquor license any time a monetary transaction takes place associated with the service of alcohol.

Temporary intoxicating liquor licenses, with the approval of the Commissioner of Public Safety, may be issued only in connection with a social event sponsored by a club, charitable, religious, or other nonprofit corporation that has existed for at least three years. They may not have an interest in the manufacture or wholesale of alcoholic beverages and cannot have been convicted of a felony or willful violation of federal, state or local ordinance governing the manufacture, sale, distribution or possession for sale or distribution of alcoholic beverages in the last five years. No license shall be for longer than four consecutive days, and the city shall issue no more than 12 days of temporary licenses to any one organization in one calendar year.

Discussion:

All required documentation has been submitted and the Minnetrista Public Safety Department has verified that the applicants named in application have not been convicted within the past five years for any violation of laws of the State of Minnesota or the City of Minnetrista relating to alcohol. As such, staff would recommend approval of the one day temporary on-sale liquor license for the Northwest Tonka Lions to provide a beer and

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.

wine tent at the first annual Minnetrista Holiday Tree Lighting with the following conditions:

1. No alcoholic beverages may be allowed on the property except those being provided by participating Minnesota microbreweries.
2. No alcoholic beverages may leave the property.
3. On-site ability to call 911 must be provided at the event location.
4. All appropriate postings and laws must be enforced.
5. No one under the age of 21 will be permitted at the event.

As this event is supported by the City of Minnetrista, and because this is a city hosted event, staff has not required the applicant to pay the \$40 temporary intoxicating liquor license fee.

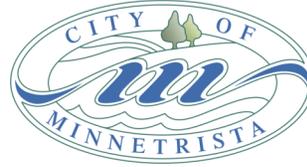
Conclusion:

Staff recommends that the City Council approve a temporary one-day intoxicating liquor license for the first annual Holiday Tree Lighting being held on Thursday, November 30, 2023 at Minnetrista City Hall located at 7701 County Road 110 W, supported by the City of Minnetrista

Recommended City Council Action: Approve a temporary one-day intoxicating liquor license for the first annual Holiday Tree Lighting on Thursday, November 30, 2022 at Minnetrista City Hall located at 7701 County Road 110 W for the Northwest Tonka Lions with conditions as noted in the staff report and to waive the application fee of \$40.

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.



TEMPORARY ONE-DAY INTOXICATING LIQUOR LICENSE

This license is hereby granted for Holiday Tree Lighting to be held November 30, 2023 to:

NORTHWEST TONKA LIONS

FOR CONSUMPTION ON THE PREMISES LOCATED AT:
MINNETRISTA CITY HALL; 7701 COUNTY RD 110 ; MINNETRISTA MN 55364

This license is granted subject to all the provisions and conditions of the ordinances of this municipality and the laws of the State of Minnesota, and of the Federal Government pertaining to such sale including: no alcoholic beverages may be permitted on the property other than those sold/served by the Mound Northwest Tonka Lions, no alcoholic beverages may leave the property of City Hall Parking Lot, all federal, state and local laws must be observed and on-site ability to call 911 must be provided at the location of the sale, no one under 21 be permitted at the event.

Issued by the authority of the Minnetrista City Council

Lisa Whalen, Mayor

Date

Ann Meyerhoff, City Clerk

Date

RESOLUTION NO. 86-23

**RESOLUTION APPROVING JUST AND CORRECT
CLAIMS AGAINST CITY FUNDS**

WHEREAS, the City Council of the City of Minnetrista, pursuant to MS 412.241, shall have the full authority over the financial affairs of the City; and

WHEREAS, the City Council reviewed the Claims for payment, with checks numbered 70350 through 70415; electronic checks E1002798 through E1002811; Claims batch includes an electronic transfer for payroll in the amount of \$83,586.92.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF MINNETRISTA, that the attached list of claims in the amount of \$1,447,166.85 is hereby approved.

ADOPTED this 16th day of October 2023 by a vote of ____ Ayes
____ Nays.

Lisa Whalen, Mayor

ATTEST:

City Clerk

(seal)

CITY OF MINNETRISTA

***Check Detail Register©**

Batch: PR09282023,Aflac100423,Tasc100523,Medsurety100123,100523HP,101623_STREET_UTIL,POSTAGE
10042023,10032023PSN,101623AP,Xcel101123

Check #	Check Date	Vendor Name	Amount	Invoice	Comment
1010 1ST BK OF THE LAKES					
70350	10/05/23	ANDERSON, ROBERT			
	R 601-400-37120	UNDISTRIBUTED UTILITI	\$508.00		Rfd Overpmt of Utility-1250 Blair Road
		Total	\$508.00		
70351	10/05/23	DVS			
	E 401-43126-560	EQUIP AND FURNISHIN	\$1,571.38		License and Tax on New Trailer
		Total	\$1,571.38		
70352	10/05/23	DVS			
	E 101-42110-418	RECRUITING	\$21.00		DVS and Vehicle Record for Applicant
		Total	\$21.00		
70353	10/05/23	KREBSBACH, STEVE			
	R 601-400-37120	UNDISTRIBUTED UTILITI	\$527.05		Refund Overpmt of Utilities-3105 Cardinal Cove Dr
		Total	\$527.05		
70354	10/16/23	4IMPRINT			
	E 101-42110-428	RESERVE OFFICERS	\$164.87	11710688	Laser Edge Throw
		Total	\$164.87		
70355	10/16/23	ACME TOOLS			
	E 651-49590-221	EQUIPMENT PARTS, TIR	\$779.97	11851478	Saw Blades for Concrete Saws
		Total	\$779.97		
70356	10/16/23	ALLIED BLACKTOP COMPANY			
	E 406-43121-224	STREET MAINTENANCE	\$149,485.59	Final Pay 1	2023 Pavement Maintenace Project-Seal Coat and Crack Fill
		Total	\$149,485.59		
70357	10/16/23	AMAZON CAPITAL SERVICES			
	E 101-43121-201	OFFICE SUPPLIES	\$79.89	1DJM-NXC4-	Printer Ink
	E 101-43121-401	BLDG/STRUCT MAINTEN	\$141.04	1DJM-NXC4-	Light Bulbs
	E 101-43121-201	OFFICE SUPPLIES	\$14.89	1DJM-NXC4-	Speakers for Computer
	E 401-43126-560	EQUIP AND FURNISHIN	\$149.89	1FHP-7MJG-	Printer for Brian's Office
	E 101-41940-223	BUILDING REPAIR PART	\$9.76	1JHW-F9RG-	Mounting Brackets
	E 101-43121-201	OFFICE SUPPLIES	\$16.40	1L9J-6TLQ-Y	Post It Notes
	E 101-41940-401	BLDG/STRUCT MAINTEN	\$19.98	1L9J-6TLQ-Y	USB for Conference Room
		Total	\$431.85		
70358	10/16/23	AXON ENTERPRISE, INC			
	E 101-42110-417	UNIFORMS	\$2,784.05	INUS189049	Taser and cartridges
		Total	\$2,784.05		
70359	10/16/23	BAUER BUILT TIRE			
	E 602-49490-404	VEHICLE & EQUIP MAIN	\$1,976.97	940102455	Tires for Truck 1
	E 601-49440-404	VEHICLE & EQUIP MAIN	\$988.49	940102455	Tires for Truck 7
	E 101-43121-404	VEHICLE & EQUIP MAIN	\$988.48	940102455	Tires for Truck 4
		Total	\$3,953.94		
70360	10/16/23	BIFFS, INC.			

CITY OF MINNETRISTA

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Batch: PR09282023,Aflac100423,Tasc100523,Medsurety100123,100523HP,101623_STREET_UTIL,POSTAGE
10042023,10032023PSN,101623AP,Xcel101123

Check #	Check Date	Vendor Name	Amount	Invoice	Comment
E 101-45202-401		BLDG/STRUCT MAINTEN	\$176.00	W934748	Linden and Lisle Parks
E 101-45202-401		BLDG/STRUCT MAINTEN	\$176.00	W934749	Linden and Lisle Parks
E 101-45202-401		BLDG/STRUCT MAINTEN	\$176.00	W939421	Lisle Park
E 101-45202-401		BLDG/STRUCT MAINTEN	\$176.00	W939422	Linden Park
		Total	\$704.00		
70361	10/16/23	BROWN, JOSH			
E 101-42110-417		UNIFORMS	\$74.24		Flashlight and Holder
		Total	\$74.24		
70362	10/16/23	CAREFREE SERVICES INC.			
E 651-49590-224		STREET MAINTENANCE	\$13,005.85	30067	Fall Street Sweeping
E 651-49590-224		STREET MAINTENANCE	\$411.84	30068	Fall Street Sweeping on Private Roads
		Total	\$13,417.69		
70363	10/16/23	Center Point Energy			
E 601-49440-383		NATURAL GAS	\$16.13	10654144-4	Gas Utility
E 601-49440-383		NATURAL GAS	\$130.03	10658039-2	Gas Utility
E 601-49440-383		NATURAL GAS	\$27.07	10658041-8	Gas Utility
E 601-49440-383		NATURAL GAS	\$18.13	11144790-0	Gas Utility
E 601-49440-383		NATURAL GAS	\$16.13	11431330-7	Gas Utility
E 601-49440-383		NATURAL GAS	\$16.13	11553312-7	Gas Utility
E 601-49440-383		NATURAL GAS	\$16.13	11833736-9	Gas Utility
E 101-41940-383		NATURAL GAS	\$72.07	5651357-5	Gas Utility - Gov't Bldg
E 601-49440-383		NATURAL GAS	\$15.00	5659223-1	Gas - Well #5
E 601-49440-383		NATURAL GAS	\$149.19	6401076054-	Gas Utility
E 101-43121-383		NATURAL GAS	\$29.14	6744979-3	Gas Utility - PW
E 101-42110-383		NATURAL GAS	\$67.82	8486433-9	Gas Utility - PD
E 101-43121-383		NATURAL GAS	\$26.00	8486442-0	Gas Utility - PW
		Total	\$598.97		
70364	10/16/23	CINTAS			
E 101-43121-417		UNIFORMS	\$116.82	4170195379	Uniforms
		Total	\$116.82		
70365	10/16/23	CONCENTRA			
E 101-43121-437		MISCELLANEOUS EXPE	\$347.00	103846845	Physical-Employment
		Total	\$347.00		
70366	10/16/23	COREMARK METALS			
E 602-49490-227		UTILITY SYSTEM MAINT	\$700.00	5428447	Steel Bollards for LS #4
		Total	\$700.00		
70367	10/16/23	CORRECTIVE ASPHALT MATERIALS, LLC			
E 406-43121-224		STREET MAINTENANCE	\$2,283.53	23083	Reclamite Application
		Total	\$2,283.53		
70368	10/16/23	CULLIGAN			
E 101-42110-211		CLEANING & MAINT SUP	\$123.67	114x9375680	Water
		Total	\$123.67		

CITY OF MINNETRISTA

***Check Detail Register©**

Batch: PR09282023,Aflac100423,Tasc100523,Medsurety100123,100523HP,101623_STREET_UTIL,POSTAGE
10042023,10032023PSN,101623AP,Xcel101123

Check #	Check Date	Vendor Name	Amount	Invoice	Comment
70369	10/16/23	ECM PUBLISHERS, INC			
E 101-41910-351		LEGAL NOTICE & ORD P	\$86.63	966818	Resolution 87-23
E 101-41910-351		LEGAL NOTICE & ORD P	\$82.50	966819	Resolution 88-23
		Total	\$169.13		
70370	10/16/23	FAST SIGNS			
E 101-41110-440		APPRECIATION EVENTS	\$352.91	100-93431	Banner for Tree Lighting
		Total	\$352.91		
70371	10/16/23	FRONTIER OH			
E 601-49440-381		ELECTRIC UTILITIES	\$392.50	952-196-0117	Monthly Phone Service
E 101-42110-321		TELEPHONE	\$534.69	952-446-1660	Monthly Phone Service
E 101-43121-321		TELEPHONE	\$534.70	952-446-1660	Monthly Phone Service
E 101-41940-321		TELEPHONE	\$534.70	952-446-1660	Monthly Phone Service
		Total	\$1,996.59		
70372	10/16/23	Fury Motors			
E 101-42110-404		VEHICLE & EQUIP MAIN	\$38.54	775931	Unit 74-Patch Tire
		Total	\$38.54		
70373	10/16/23	GOPHER ACE HARDWARE			
E 101-43121-417		UNIFORMS	\$123.98	17688/1	Forestry Cutting Helmets
		Total	\$123.98		
70374	10/16/23	Gopher State One Call			
E 601-49440-227		UTILITY SYSTEM MAINT	\$128.92	3090605	Sewer & Water Locates
E 602-49490-227		UTILITY SYSTEM MAINT	\$128.93	3090605	Sewer & Water Locates
		Total	\$257.85		
70375	10/16/23	GRIGGS, CHAD			
E 101-42110-431		TRAIN/MTG/EXP & SUPP	\$151.90		Mileage Reimb and Training Reimb
		Total	\$151.90		
70376	10/16/23	HENNEPIN COUNTY INFO TECH DEPT			
E 401-43126-560		EQUIP AND FURNISHIN	\$590.40	1000213075	Radio Lease
		Total	\$590.40		
70377	10/16/23	Int'l Union of Oper. Engineers			
G 101-2360		PAYROLL CLEARING UN	\$280.00		October 2023 * Union dues
		Total	\$280.00		
70378	10/16/23	Jubilee Foods			
E 101-42110-211		CLEANING & MAINT SUP	\$12.99		Training
E 101-49020-437		MISCELLANEOUS EXPE	\$132.20		All Staff Training
		Total	\$145.19		
70379	10/16/23	KENNEDY & GRAVEN, CHARTERED			
E 101-41610-304		LEGAL FEES - ATTORNE	\$3,000.00	176720	General
E 101-41610-304		LEGAL FEES - ATTORNE	\$292.50	MN415-0005	Ordinances
E 101-41610-304		LEGAL FEES - ATTORNE	\$66.50	MN415-0026	General Personnel Matters
E 673-49600-307		PROFESSIONAL SERVIC	\$458.25	MN415-0036	Mediacom Franchise Renewal

CITY OF MINNETRISTA

***Check Detail Register©**

Batch: PR09282023,Aflac100423,Tasc100523,Medsurety100123,100523HP,101623_STREET_UTIL,POSTAGE
10042023,10032023PSN,101623AP,Xcel101123

Check #	Check Date	Vendor Name	Amount	Invoice	Comment
G 801-1170		LAND USE RECEIVABLE	\$1,178.00	MN415-0037	* Woodland Cove 10th Addn
G 801-1170		LAND USE RECEIVABLE	\$475.00	MN415-0037	* Enchanted Lane Variances
		Total	\$5,470.25		
70380	10/16/23	Kenneth Potts P.A			
E 101-41610-305		PROSECUTING ATTORN	\$9,000.00		Prosecution Services 7/1/23-9/30/23
		Total	\$9,000.00		
70381	10/16/23	LAKE MINNETONKA CONSERVATION			
E 651-49590-307		PROFESSIONAL SERVIC	\$5,585.75	2023Q4Mintr	LMCD Levy Payment
		Total	\$5,585.75		
70382	10/16/23	LANDS END BUSINESS OUTFITTERS			
E 101-42110-417		UNIFORMS	\$205.60	SIN11490160	Uniforms
		Total	\$205.60		
70383	10/16/23	League of Minnesota Cities			
E 101-41320-433		DUES & SUBSRIPT & TR	\$55.00	391872	Training-Meyerhoff
E 101-41320-433		DUES & SUBSRIPT & TR	\$30.00	391986	Training-Kruggel
		Total	\$85.00		
70384	10/16/23	LEGEND COMPANIES			
E 101-42110-401		BLDG/STRUCT MAINTEN	\$855.00	108614	Maintenance Per Contract
		Total	\$855.00		
70385	10/16/23	LELS			
G 101-2360		PAYROLL CLEARING UN	\$877.50	October 2023	PD Union Dues (13x\$67.50)
G 101-2360		PAYROLL CLEARING UN	\$59.16	October 2023	CSO Union Dues (1x\$59.16)
		Total	\$936.66		
70386	10/16/23	LEXISNEXIS RISK DATA MNGMT INC			
E 101-42110-307		PROFESSIONAL SERVIC	\$33.00	1085510-230	Contract Fee
		Total	\$33.00		
70387	10/16/23	LOFFLER			
E 101-41320-410		COMPUTER SERVICES/	\$1,235.64	4432415	General Support-August
E 101-42110-410		COMPUTER SERVICES/	\$1,765.20	4432415	General Support-August
E 101-43121-410		COMPUTER SERVICES/	\$264.78	4432415	General Support-August
E 601-49440-410		COMPUTER SERVICES/	\$573.69	4432415	General Support-August
E 602-49490-410		COMPUTER SERVICES/	\$573.69	4432415	General Support-August
E 101-41320-410		COMPUTER SERVICES/	\$1,298.07	4486242	General Support-October
E 101-42110-410		COMPUTER SERVICES/	\$1,854.38	4486242	General Support-October
E 101-43121-410		COMPUTER SERVICES/	\$278.16	4486242	General Support-October
E 601-49440-410		COMPUTER SERVICES/	\$602.67	4486242	General Support-October
E 602-49490-410		COMPUTER SERVICES/	\$602.68	4486242	General Support-October
E 101-42110-202		COPY & PRINTING SUPP	\$102.36	4487879	Copies-PD
		Total	\$9,151.32		
70388	10/16/23	MATRIX COMMUNICATIONS			
E 101-41940-321		TELEPHONE	\$75.00	M007455	Program Set up Extension
		Total	\$75.00		

CITY OF MINNETRISTA

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Batch: PR09282023,Aflac100423,Tasc100523,Medsurety100123,100523HP,101623_STREET_UTIL,POSTAGE
10042023,10032023PSN,101623AP,Xcel101123

Check #	Check Date	Vendor Name	Amount	Invoice	Comment
70389	10/16/23	Media Com			
E 673-49600-307		PROFESSIONAL SERVIC	\$374.90		Internet
		Total	\$374.90		
70390	10/16/23	MET COUNCIL			
G 602-2395		SAC CLEARING	\$19,830.30	September 2	* Monthly SAC
		Total	\$19,830.30		
70391	10/16/23	Metropolitan Council WW Servic			
E 602-49490-438		EXPENSE MWCC	\$32,573.45	0001163215	* Monthly Sewer
		Total	\$32,573.45		
70392	10/16/23	MID COUNTY			
E 101-42110-212		MOTOR FUELS AND LUB	\$926.90	25424	Squad Fuel
E 101-42110-212		MOTOR FUELS AND LUB	\$1,004.12	58402	Squad Fuel
E 101-42110-212		MOTOR FUELS AND LUB	\$726.16	58441	Squad Fuel
E 601-49440-212		MOTOR FUELS AND LUB	\$430.07	58457	Dyed Diesel Fuel
E 602-49490-212		MOTOR FUELS AND LUB	\$430.07	58457	Dyed Diesel Fuel
E 101-43121-212		MOTOR FUELS AND LUB	\$1,075.19	58457	Dyed Diesel Fuel
E 101-43125-212		MOTOR FUELS AND LUB	\$215.04	58457	Dyed Diesel Fuel
E 101-42110-212		MOTOR FUELS AND LUB	\$330.91	58458	Squad Fuel
		Total	\$5,138.46		
70393	10/16/23	MINUTEMAN PRESS MINNETONKA			
E 101-42110-202		COPY & PRINTING SUPP	\$100.53	23309	Brochures
E 101-42110-428		RESERVE OFFICERS	\$100.66	23343	Brochures
		Total	\$201.19		
70394	10/16/23	MINNESOTA ROADWAYS CO.			
E 101-43121-224		STREET MAINTENANCE	\$138.84	88470	Tack Oil for Patching
		Total	\$138.84		
70395	10/16/23	MOTOROLA			
E 101-42110-433		DUES & SUBSRIPT & TR	\$1,170.00	8230425594	Annual Device License and Support Fee
		Total	\$1,170.00		
70396	10/16/23	MOUND TRUE VALUE HARDWARE			
E 101-42110-322		POSTAGE	\$23.78	188812	Shipping Charge
E 101-42110-211		CLEANING & MAINT SUP	\$15.28	188952	Brush and Wasp Spray
E 101-42110-211		CLEANING & MAINT SUP	\$14.28	188984	Door Stops
E 101-42110-211		CLEANING & MAINT SUP	\$11.99	188994	Spatula
E 101-45202-401		BLDG/STRUCT MAINTEN	\$10.16	189142	Irrigation Repair
E 101-43121-401		BLDG/STRUCT MAINTEN	\$15.99	189213	Shop Sink repair part
		Total	\$91.48		
70397	10/16/23	OFFICE DEPOT			
E 101-41910-201		OFFICE SUPPLIES	\$51.98	32936705500	Copy Paper
E 101-42401-201		OFFICE SUPPLIES	\$51.99	32936705500	Copy Paper
E 101-41320-201		OFFICE SUPPLIES	\$51.99	32936705500	Copy Paper
		Total	\$155.96		

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10042023,10032023PSN,101623AP,Xcel101123

Check #	Check Date	Vendor Name	Amount	Invoice	Comment
70398	10/16/23	Per Mar Security Services			
E 601-49440-227		UTILITY SYSTEM MAINT	\$105.30	3131570	Fire Alarm Monitoring at N WTP
E 601-49440-227		UTILITY SYSTEM MAINT	\$105.30	3131571	Fire Alarm Monitoring at S WTP
		Total	\$210.60		
70399	10/16/23	PLUNKETTS			
E 601-49440-401		BLDG/STRUCT MAINTEN	\$36.40	8267554	Pest Control
E 601-49440-401		BLDG/STRUCT MAINTEN	\$56.45	8267868	Pest Control
E 601-49440-401		BLDG/STRUCT MAINTEN	\$56.45	8267869	Pest Control
		Total	\$149.30		
70400	10/16/23	Postmaster			
E 602-49490-322		POSTAGE	\$382.66	PI 89	Utility Bills
E 671-43230-322		POSTAGE	\$127.55	PI 89	Utility Bills
E 601-49440-322		POSTAGE	\$637.76	PI 89	Utility Bills
E 651-49590-322		POSTAGE	\$127.55	PI 89	Utility Bills
		Total	\$1,275.52		
70401	10/16/23	Stericycle, Inc.			
E 101-41320-307		PROFESSIONAL SERVIC	\$161.31	8004856446	Shredding Services
		Total	\$161.31		
70402	10/16/23	SUMMIT COMPANIES			
E 101-42110-401		BLDG/STRUCT MAINTEN	\$397.75	130088025	Extinguisher Annual Service
E 101-41940-401		BLDG/STRUCT MAINTEN	\$125.00	130088026	Extinguisher Annual Service
E 601-49440-227		UTILITY SYSTEM MAINT	\$326.00	130088026	Extinguisher Annual Service
E 101-43121-224		STREET MAINTENANCE	\$410.00	130088026	Extinguisher Annual Service
		Total	\$1,258.75		
70403	10/16/23	SUNRAM CONSTRUCTION			
E 404-45202-530		IMPROVEMENTS	\$67,614.21	Pay Voucher	Gene Lehner Park
		Total	\$67,614.21		
70404	10/16/23	T&R MEATS			
E 101-49020-437		MISCELLANEOUS EXPE	\$159.48		All Staff Meeting
		Total	\$159.48		
70405	10/16/23	TASC			
E 101-41320-437		MISCELLANEOUS EXPE	\$60.41	IN2880239	Admin Fees -FSA
		Total	\$60.41		
70406	10/16/23	Toll Gas & Welding Supply			
E 601-49440-227		UTILITY SYSTEM MAINT	\$24.60	40182804	Chlorine Cylinder
		Total	\$24.60		
70407	10/16/23	TREE TRUST			
E 407-45202-530		IMPROVEMENTS	\$14,357.51	230494	2023 Tree Sale Invoice
		Total	\$14,357.51		
70408	10/16/23	US BANK CORPORATE SYSTEMS			
E 101-42110-201		OFFICE SUPPLIES	\$63.80		Flash Drives (4)

CITY OF MINNETRISTA

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10042023,10032023PSN,101623AP,Xcel101123

Check #	Check Date	Vendor Name	Amount	Invoice	Comment
E 101-42110-434		POLICE TRAINING	\$55.00		Child Seat Certification
E 101-42110-201		OFFICE SUPPLIES	\$39.99		Paper
E 101-42110-240		SMALL TOOLS AND MIN	\$24.99		Scale
E 101-42110-434		POLICE TRAINING	\$1,120.00		Squires-Classes
E 101-42110-417		UNIFORMS	\$103.98		SWAT cases (2)
E 101-42110-201		OFFICE SUPPLIES	\$10.95		Ear Piece
E 101-42110-201		OFFICE SUPPLIES	\$17.09		Batteries
E 101-42110-201		OFFICE SUPPLIES	\$25.87		DVD Sleeves and Envelopes
E 101-42110-201		OFFICE SUPPLIES	\$54.99		Portable Hard Drive
E 101-42110-201		OFFICE SUPPLIES	\$21.99		Flash Drives
E 101-42110-201		OFFICE SUPPLIES	\$12.98		Tylenol
E 101-42110-201		OFFICE SUPPLIES	\$6.99		Badge
E 101-41110-437		MISCELLANEOUS EXPE	\$75.06		Council Meeting Food
E 101-41110-437		MISCELLANEOUS EXPE	\$91.39		Council Meeting Food
E 101-41320-433		DUES & SUBSRIPT & TR	\$272.42		Lodging MNGFOA Conference-Grimm
E 671-43230-437		MISCELLANEOUS EXPE	\$295.79		Compost/Organics Bags
E 602-49490-227		UTILITY SYSTEM MAINT	\$2,302.13		VFD's for LS 16
E 101-42110-201		OFFICE SUPPLIES	\$10.49		Advil
		Total	\$4,605.90		
70409	10/16/23	VERIZON WIRELESS			
E 101-42110-321		TELEPHONE	\$387.72	9945169488	PD Cell phones
E 101-41940-321		TELEPHONE	\$466.05	9945169488	Admin Cell phones
E 101-43121-321		TELEPHONE	\$81.21	9945169488	PW Cell Phones
E 602-49490-227		UTILITY SYSTEM MAINT	\$81.21	9945169488	PW Cell Phones
E 601-49440-227		UTILITY SYSTEM MAINT	\$117.46	9945169488	PW Cell Phones
E 651-49590-224		STREET MAINTENANCE	\$13.34	9945169488	PW Cell Phones
E 101-43121-224		STREET MAINTENANCE	\$13.34	9945169488	PW Cell Phones
E 602-49490-227		UTILITY SYSTEM MAINT	\$42.91	9945169488	PW Cell Phones
E 401-42110-560		EQUIP AND FURNISHIN	\$280.10	9945208222	MDC Connections
		Total	\$1,483.34		
70410	10/16/23	WASTE MANAGEMENT OF WI-MN			
E 671-43230-384		REFUSE REMOVAL	\$18,765.54	7838622-159	* Recycling
E 671-43230-384		REFUSE REMOVAL	\$86.81	8974331-228	*Organics
		Total	\$18,852.35		
70411	10/16/23	Waste Management			
E 101-43121-224		STREET MAINTENANCE	\$148.00	1706	Organic Soil to Mix with Dirt for Fall Tree Planting
E 407-45202-530		IMPROVEMENTS	\$26.50	1955	Mulch for Tree Planting
		Total	\$174.50		
70412	10/16/23	WILSON NURSERY INC			
E 407-45202-530		IMPROVEMENTS	\$729.90	26533	3 replacement boulevard trees, and one City Hall
		Total	\$729.90		
70413	10/16/23	Wm Mueller & Sons Inc.			
E 101-43121-224		STREET MAINTENANCE	\$84.80	293167	Asphalt for Patching
E 101-43121-224		STREET MAINTENANCE	\$76.00	293323	Asphalt for Patching
E 101-43121-224		STREET MAINTENANCE	\$1,104.80	293405	Patching on Clarence Road

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10042023,10032023PSN,101623AP,Xcel101123

Check #	Check Date	Vendor Name	Amount	Invoice	Comment
Total			\$1,265.60		
70414	10/16/23	WSB & ASSOCIATES			
E 651-49590-303		ENGINEERING SERV	\$1,900.00	R-012555-00	SWAMP Subscription
E 101-42401-303		ENGINEERING SERV	\$800.00	R-019691-00	* Bldg Permits/Review 2022
E 433-43122-303		ENGINEERING SERV	\$39,654.17	R-020668-00	2023 Street and Utility Reconstruction
E 601-43241-303		ENGINEERING SERV	\$37,321.55	R-020668-00	2023 Street and Utility Reconstruction
E 602-49490-303		ENGINEERING SERV	\$777.53	R-020668-00	2023 Street and Utility Reconstruction
E 406-43121-303		ENGINEERING SERV	\$14,272.00	R-020670-00	2023 Street Reclamation
E 433-43122-303		ENGINEERING SERV	\$3,148.06	R-020764-00	2023 Overlay Project
E 601-43241-303		ENGINEERING SERV	\$33.14	R-020764-00	2023 Overlay Project
E 602-49490-303		ENGINEERING SERV	\$132.55	R-020764-00	2023 Overlay Project
E 101-42600-303		ENGINEERING SERV	\$743.00	R-021220-00	Office Survey-ROW
E 101-45202-437		MISCELLANEOUS EXPE	\$152.00	R-021220-00	Office Survey-Parks
G 801-1170		LAND USE RECEIVABLE	\$2,139.00	R-021220-00	* ML 23017
E 101-42401-303		ENGINEERING SERV	\$1,420.00	R-021390-00	* Bldg Permits/Review 2023
E 601-49440-303		ENGINEERING SERV	\$500.00	R-021449-00	General Engineering Svcs
E 602-49490-303		ENGINEERING SERV	\$500.00	R-021449-00	General Engineering Svcs
E 651-49590-303		ENGINEERING SERV	\$500.00	R-021449-00	General Engineering Svcs
E 101-42600-303		ENGINEERING SERV	\$1,000.00	R-021449-00	General Engineering Svcs
E 404-45202-303		ENGINEERING SERV	\$3,559.50	R-021557-00	Gene Lehner Park Design and Construction
G 801-1170		LAND USE RECEIVABLE	\$1,441.00	R-021587-00	* 2023 WCA Services
E 602-49490-303		ENGINEERING SERV	\$1,738.50	R-021703-00	2023 Sanitary Sewer Replacement Proj
E 602-49490-303		ENGINEERING SERV	\$173.00	R-021899-00	2023 GIS Services
E 406-43121-303		ENGINEERING SERV	\$9,416.00	R-023081-00	2023 Pavement Maintenance Project
G 801-1170		LAND USE RECEIVABLE	\$540.00	R-023415-00	* Woodland Cove 10th
Total			\$121,861.00		
70415	10/16/23	XCEL ENERGY			
E 101-41940-381		ELECTRIC UTILITIES	\$1,422.07	51-6565407-3	Electricity-City Hall
E 101-43121-381		ELECTRIC UTILITIES	\$66.69	51-6565407-3	Electricity-PW
E 101-43160-381		ELECTRIC UTILITIES	\$42.88	51-6565407-3	Electricity-Signal Sunnyfield
E 101-43160-381		ELECTRIC UTILITIES	\$54.49	51-6565407-3	Electricity
E 101-45202-401		BLDG/STRUCT MAINTEN	\$17.16	51-6565407-3	Electricity-Hunters Trail
E 101-43121-381		ELECTRIC UTILITIES	\$353.23	51-6565407-3	Electricity-PW
E 101-41940-381		ELECTRIC UTILITIES	\$30.16	51-6565407-3	Non-Recurring Charge-Electricity
E 602-49490-381		ELECTRIC UTILITIES	\$1,893.13	51-6565409-5	Electricity-Lift Stations
Total			\$3,879.81		
1002798 e	10/02/23	Internal Revenue Service			
G 101-2300		PAYROLL CLEARING FE	\$12,274.96		* PR - Fed w/h
G 101-2320		PAYROLL CLEARING FIC	\$12,437.34		* PR - SS/Medicare w/h
Total			\$24,712.30		
1002799 e	10/02/23	MINNESOTA DEPT. OF REV.			
G 101-2310		PAYROLL CLEARING ST	\$5,790.12		* State w/h
Total			\$5,790.12		
1002800 e	10/02/23	Public Employees Retirement			
G 101-2330		PAYROLL CLEARING PE	\$26,194.81		* Pera w/h

CITY OF MINNETRISTA

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10042023,10032023PSN,101623AP,Xcel101123

Check #	Check Date	Vendor Name	Amount	Invoice	Comment
Total			\$26,194.81		
1002801 e	10/02/23	ICMA			
G 101-2370		PAYROLL CLEARING DE	\$400.00		* Roth IRA Contributions
Total			\$400.00		
1002802 e	10/02/23	HCSP			
G 101-2370		PAYROLL CLEARING DE	\$250.00		* HCSP Retirement
Total			\$250.00		
1002803 e	10/02/23	Optum			
G 101-2347		HSA CLEARING ACCT	\$4,903.55		HSA Employer and Employee Cont
Total			\$4,903.55		
1002804 e	10/02/23	EDWARD JONES			
G 101-2370		PAYROLL CLEARING DE	\$2,429.49		* Deferred Comp w/h
Total			\$2,429.49		
1002805 e	10/05/23	TASC			
G 101-2346		PR CLEARING DAYCARE	\$208.33		* Dependent Care
Total			\$208.33		
1002806 e	10/05/23	MEDSURETY, LLC			
E 101-41320-437		MISCELLANEOUS EXPE	\$32.00	26327	Cobra Continuation Administration
Total			\$32.00		
1002807 e	10/06/23	LaTour Construction, Inc.			
E 433-43122-530		IMPROVEMENTS	\$380,555.20	10/16/2023	PAY VOUCHER 4-2023 STREET RECONSTRUCTION & UTILITY IMP PROJECT
E 601-43241-530		IMPROVEMENTS	\$358,169.60	10/16/2023	PAY VOUCHER 4-2023 STREET RECONSTRUCTION & UTILITY IMP PROJECT
E 602-43251-530		IMPROVEMENTS	\$7,461.86	10/16/2023	PAY VOUCHER 4-2023 STREET RECONSTRUCTION & UTILITY IMP PROJECT
Total			\$746,186.66		
1002808 e	10/06/23	Postmaster			
E 101-41320-322		POSTAGE	\$300.00	10/4/23	POSTAGE 10-4-2023
Total			\$300.00		
1002809 e	10/06/23	PSN			
E 601-49440-307		PROFESSIONAL SERVIC	\$94.69	10/03/23	PROF SERVICES WATER-MONTHLY ONLINE PAYMENT FEES SEPTEMBER 2023
E 602-49490-307		PROFESSIONAL SERVIC	\$94.69	10/03/23	PROF SERVICES SEWER-MONTHLY ONLINE PAYMENT FEES SEPTEMBER 2023
E 651-49590-307		PROFESSIONAL SERVIC	\$63.12	10/03/23	PROF SERVICES SURFACE WM MONTHLY ONLINE PAYMENT FEES SEPTEMBER 2023
E 671-43230-307		PROFESSIONAL SERVIC	\$63.12	10/03/23	PROF SERVICES RECYCLING MONTHLY ONLINE PAYMENT FEES SEPTEMBER 2023
Total			\$315.62		
1002810 e	10/09/23	AFLAC			
G 101-2348		AFLAC INS	\$98.30	213680	* Aflac Supplemental
Total			\$98.30		

CITY OF MINNETRISTA

10/12/23 12:28 PM

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10042023,10032023PSN,101623AP,Xcel101123

Check #	Check Date	Vendor Name	Amount	Invoice	Comment
1002811 e	10/11/23	XCEL ENERGY			
E 601-49440-381		ELECTRIC UTILITIES	\$39,862.39		51-6565410-8 Electricity-Wells/Watertower (2 Months)
		Total	\$39,862.39		
		1010 1ST BK OF THE LAKES	\$1,363,579.93		

Fund Summary

1010 1ST BK OF THE LAKES	
101 GENERAL FUND	\$113,154.93
401 CAPITAL IMPROVEMENT PROGRAM	\$2,591.77
404 PARK DEDICATION FUND	\$71,173.71
406 ROAD MAINTENANCE FUND	\$175,457.12
407 TREE REPLACEMENT FUND	\$15,113.91
433 2023 STREET PROJECTS	\$423,357.43
601 WATER FUND	\$442,002.42
602 SEWER FUND	\$72,396.26
651 STORM WATER MGMT FUND	\$22,387.42
671 RECYCLING FUND	\$19,338.81
673 CABLE	\$833.15
801 LANDUSE AGENCY	\$5,773.00
	\$1,363,579.93

CITY OF MINNETRISTA



CITY COUNCIL AGENDA ITEM 4E

Subject: Simple Subdivision Request from Heidi Kelly

Prepared By: Nickolas Olson, Senior City Planner
Through: David Abel, Community Development Director

Meeting Date: October 16, 2023

Issue: Heidi Kelly (the “Applicant”) is the fee owner of 5875 Painter Road and 5900 West Branch Road (collectively the “Properties”). The Applicant has proposed to adjust the common lot lines between the Properties to better align with how the Properties are being maintained. Each parcel will meet or exceed the minimum lot size requirements for the Agriculture zoning district after the proposed lot line adjustment.

Recommended City Council Action: Motion to adopt Res. No. 87-23 Approving a Simple Subdivision request from Heidi Kelly for 5875 Painter Road and 5900 West Branch Road

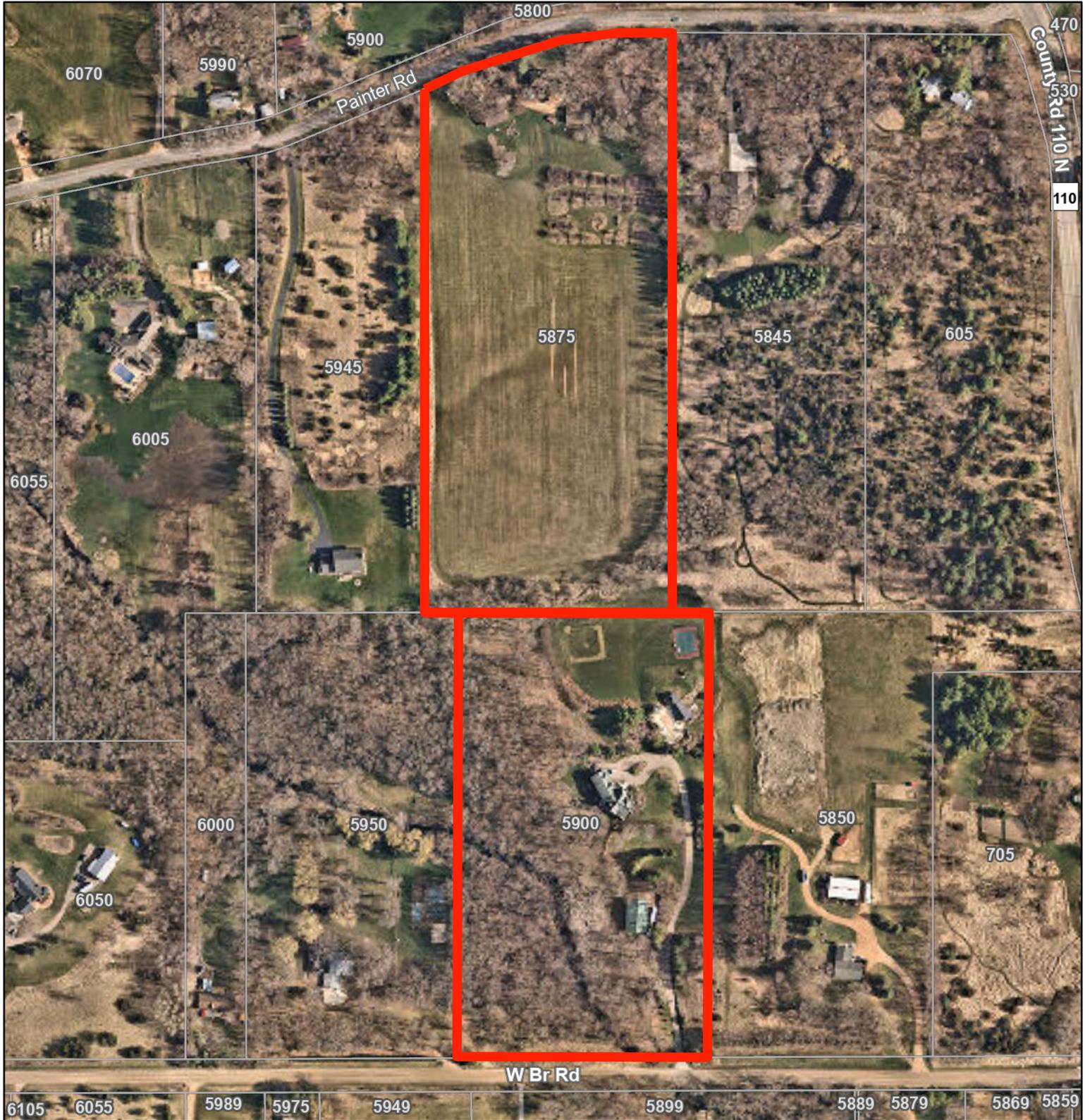
Attachments:

1. Location Map
2. Applicant Narrative
3. Survey of Proposal
4. Res. No. 87-23 Approving a Simple Subdivision request from Heidi Kelly for 5875 Painter Road and 5900 West Branch Road

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.

5875 Painter Road & 5900 West Branch Road



1 in = 375 Ft

-  City Boundary
-  Address Labels
-  Parcels



Statement explaining the purpose of the simple subdivision for the properties located at 5900 West Branch Road and 5875 Painter Road

The simple subdivision currently simplifies a future concern.

I have owned 5900 West Branch Road (5900) since 1996 and purchased the adjoined 5875 Painter Road (5875) in 2012.

As I developed the landscaping at 5900, it became apparent the natural fit from a usage and care standpoint was such that the south portion of 5875 naturally fit the use and care of the 5900 property better.

Today, due to the landscape and upkeep, the maintained combined property lends itself functionally and aesthetically as part of the 5900 property.

If the ownership of either property should be different, it is highly unlikely the 5875 owner would ever maintain the landscape which would burden the aesthetics and function of 5900.

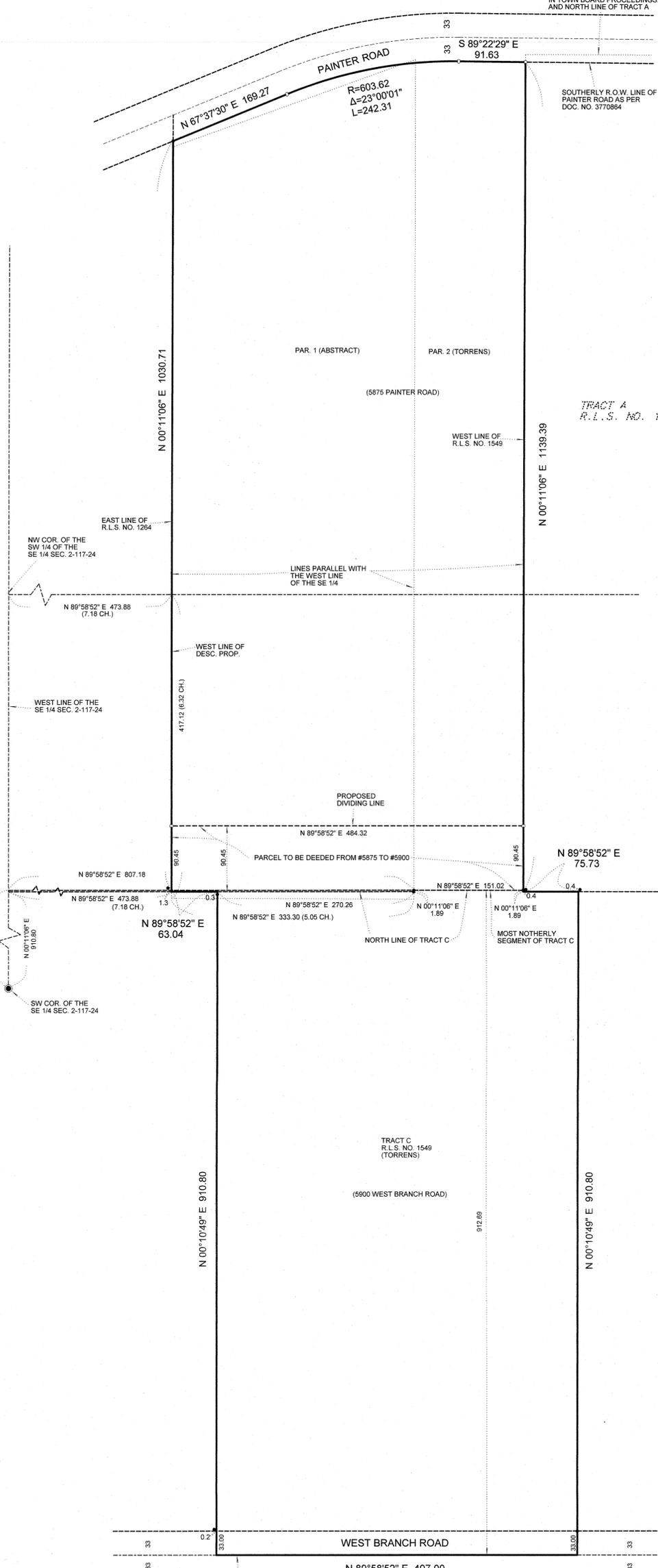
This change in no way affects the usage and look of 5875.

Thank you for your consideration.

**CERTIFICATE OF SURVEY AND LOT LINE REARRANGEMENT FOR
HEIDI KELLY
IN TRACT C, RLS NO 1549 AND THE SW 1/4
OF THE SE 1/4 OF SEC. 2, T. 117, R. 24
HENNEPIN COUNTY, MINNESOTA**

SOUTHERLY LINE OF 2 ROD
CARTWAY AS DESCRIBED
IN TOWN BOARD PROCEEDINGS
AND NORTH LINE OF TRACT A

SOUTHERLY R.O.W. LINE OF
PAINTER ROAD AS PER
DOC. NO. 3770864



EXISTING LEGAL DESCRIPTIONS:

#5900
Tract C, Registered Land Survey Number 1549. (Certifican of Title No. 1555572)

#5875
And (from Doc. No.s 11076255 + 5919940):

Parcel 1:
All that part of the Southeast Quarter of Section 2, Township 117, Range 24, described as follows: Commencing at a point 7.18 chains East of the Northwest corner of the Southwest Quarter of the Southeast Quarter of said Section 2; thence South 6.32 chains; thence East 5.05 chains; thence North 17.47 chains to the public highway or cartway; thence South 70 degrees West, along said cartway to a point due North of the point of beginning; thence South to the point of beginning, Hennepin County, Minnesota

Abstract Property

Parcel 2:
That part of the Southeast Quarter of Section 2, Township 117, Range 24, Hennepin County, Minnesota, described as follows: Commencing at a point in the West line of said Southeast Quarter distant 912.69 feet North of the Southwest Corner thereof; thence East parallel to the South line of said Southeast Quarter a distance of 807.18 feet to the point of beginning of the land to be described; thence North parallel to the West line of said Southeast Quarter a distance of 1153.02 feet, more or less, to the South line of a 33.00 foot cartway running in an Easterly and Westerly direction through said Southeast Quarter; thence East along the South line of said cartway a distance of 151.09 feet; thence South parallel to the West line of said Southeast Quarter a distance of 1151.96 feet, more or less, to a line drawn parallel to the South line of said Southeast Quarter and distant North therefrom 912.69 feet; thence West along said parallel line a distance of 151.07 feet, more or less, to point of beginning, Hennepin County, Minnesota

Torrens Property (per Cert. of Title No. 1538298)

- : Denotes found iron marker
- : Denotes set iron marker
- : Denotes Henn. Co. CIM

This survey intends to show the boundaries of the above described properties. It does not purport to show any other encroachments or improvements.

NOTE: The boundary of the northerly property has been determined in part from found monumentation, adjoining property descriptions, and a township map of Painter Road.

NOTE: Due to multiple ambiguities in the description of Parcel 1, assumptions have been made to match adjoining property descriptions and section bearings.

PROPOSED LEGAL DESCRIPTIONS:

Parcel to be deeded from 5875 Painter Rd. to 5900 West Branch Rd.:

Those parts of the following described parcels:

Parcel 1:
All that part of the Southeast Quarter of Section 2, Township 117, Range 24, described as follows: Commencing at a point 7.18 chains East of the Northwest corner of the Southwest Quarter of the Southeast Quarter of said Section 2; thence South 6.32 chains; thence East 5.05 chains; thence North 17.47 chains to the public highway or cartway; thence South 70 degrees West, along said cartway to a point due North of the point of beginning; thence South to the point of beginning, Hennepin County, Minnesota

Abstract Property

Parcel 2:
That part of the Southeast Quarter of Section 2, Township 117, Range 24, Hennepin County, Minnesota, described as follows: Commencing at a point in the West line of said Southeast Quarter distant 912.69 feet North of the Southwest Corner thereof; thence East parallel to the South line of said Southeast Quarter a distance of 807.18 feet to the point of beginning of the land to be described; thence North parallel to the West line of said Southeast Quarter a distance of 1153.02 feet, more or less, to the South line of a 33.00 foot cartway running in an Easterly and Westerly direction through said Southeast Quarter; thence East along the South line of said cartway a distance of 151.09 feet; thence South parallel to the West line of said Southeast Quarter a distance of 1151.96 feet, more or less, to a line drawn parallel to the South line of said Southeast Quarter and distant North therefrom 912.69 feet; thence West along said parallel line a distance of 151.07 feet, more or less, to point of beginning, Hennepin County, Minnesota

Torrens Property (per Cert. of Title No. 1538298)

Which lie South of a line drawn 90.45 North of, measured at right angles to, and parallel with the most Northerly segment of the North line of Tract C, Registered Land Survey No. 1549.

#5875 Parcel After:

Those parts of the following described parcels:

Parcel 1:
All that part of the Southeast Quarter of Section 2, Township 117, Range 24, described as follows: Commencing at a point 7.18 chains East of the Northwest corner of the Southwest Quarter of the Southeast Quarter of said Section 2; thence South 6.32 chains; thence East 5.05 chains; thence North 17.47 chains to the public highway or cartway; thence South 70 degrees West, along said cartway to a point due North of the point of beginning; thence South to the point of beginning, Hennepin County, Minnesota

Abstract Property

Parcel 2:
That part of the Southeast Quarter of Section 2, Township 117, Range 24, Hennepin County, Minnesota, described as follows: Commencing at a point in the West line of said Southeast Quarter distant 912.69 feet North of the Southwest Corner thereof; thence East parallel to the South line of said Southeast Quarter a distance of 807.18 feet to the point of beginning of the land to be described; thence North parallel to the West line of said Southeast Quarter a distance of 1153.02 feet, more or less, to the South line of a 33.00 foot cartway running in an Easterly and Westerly direction through said Southeast Quarter; thence East along the South line of said cartway a distance of 151.09 feet; thence South parallel to the West line of said Southeast Quarter a distance of 1151.96 feet, more or less, to a line drawn parallel to the South line of said Southeast Quarter and distant North therefrom 912.69 feet; thence West along said parallel line a distance of 151.07 feet, more or less, to point of beginning, Hennepin County, Minnesota

Torrens Property (per Cert. of Title No. 1538298)

Which lie North of a line drawn 90.45 North of, measured at right angles to, and parallel with the most Northerly segment of the North line of Tract C, Registered Land Survey No. 1549.

#5900 Parcel After:

Tract C, Registered Land Survey Number 1549.

AND

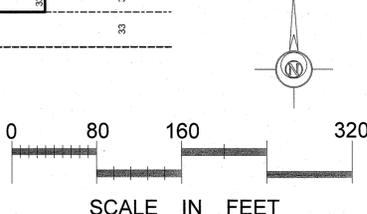
Those parts of the following described parcels which lie South of a line drawn 90.45 North of, measured at right angles to, and parallel with the most Northerly segment of the North line of Tract C, Registered Land Survey No. 1549.

Parcel 1:
All that part of the Southeast Quarter of Section 2, Township 117, Range 24, described as follows: Commencing at a point 7.18 chains East of the Northwest corner of the Southwest Quarter of the Southeast Quarter of said Section 2; thence South 6.32 chains; thence East 5.05 chains; thence North 17.47 chains to the public highway or cartway; thence South 70 degrees West, along said cartway to a point due North of the point of beginning; thence South to the point of beginning, Hennepin County, Minnesota

Abstract Property

Parcel 2:
That part of the Southeast Quarter of Section 2, Township 117, Range 24, Hennepin County, Minnesota, described as follows: Commencing at a point in the West line of said Southeast Quarter distant 912.69 feet North of the Southwest Corner thereof; thence East parallel to the South line of said Southeast Quarter a distance of 807.18 feet to the point of beginning of the land to be described; thence North parallel to the West line of said Southeast Quarter a distance of 1153.02 feet, more or less, to the South line of a 33.00 foot cartway running in an Easterly and Westerly direction through said Southeast Quarter; thence East along the South line of said cartway a distance of 151.09 feet; thence South parallel to the West line of said Southeast Quarter a distance of 1151.96 feet, more or less, to a line drawn parallel to the South line of said Southeast Quarter and distant North therefrom 912.69 feet; thence West along said parallel line a distance of 151.07 feet, more or less, to point of beginning, Hennepin County, Minnesota

Torrens Property (per Cert. of Title No. 1538298)



REVISIONS	
DATE	REMARKS
7-20-23	REVISIONS & LEGAL DESCRIPTIONS

DESIGNED: I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

DRAWN: _____

CHECKED: *Mark A. Stanley*

DATE: 7-20-23 MINN. LICENSE NUMBER: 12755

DATE: 12-21-20
SCALE: 1"=80'
JOB NO: 20-314
SHEET: 20-314
OF SHEETS: 2

GRONBERG & ASSOCIATES, INC.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS
445 N. WILLOW DRIVE LONG LAKE, MN 55356
PHONE: 952-473-4141 FAX: 952-473-4435

RESOLUTION NO. 87-23

CITY OF MINNETRISTA

RESOLUTION APPROVING A SIMPLE SUBDIVISION FOR HEIDI KELLY TO ALLOW FOR THE LOT LINE ADJUSTMENT BETWEEN PROPERTIES LOCATED AT 5875 PAINTER ROAD AND 5900 WEST BRANCH ROAD

WHEREAS, the city of Minnetrista (the “City”) is a municipal corporation, organized and existing under the laws of Minnesota; and

WHEREAS, the City has adopted a zoning ordinance and subdivision regulations, which are codified in chapter 5 of the city code, to promote the orderly, economic and safe development and utilization of land within the community; and

WHEREAS, Heidi Kelly (the “Applicant”) is the fee owner of the two adjacent properties located at 5875 Painter Road and 5900 West Branch Road, which are legally described on Exhibit A attached hereto; and

WHEREAS, the Applicant has requested that the common lot line between the parcels be modified so that the two newly configured properties will be as legally described on Exhibit B attached hereto; and

WHEREAS, the existing and new parcels are depicted on Exhibit C attached hereto; and

WHEREAS, the City Council considered the Applicant’s request for a simple subdivision for a lot line adjustment at its meeting on October 16th, 2023 and adopted the following findings of fact regarding the application:

1. The Applicant has properly applied for a simple subdivision in accordance with city code; and
2. The request does not involve the creation of any additional lots; and
3. The resulting lots conform to the City’s land use regulations.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Minnetrista, Minnesota that the Applicant’s request for a simple subdivision to allow a lot line adjustment of the properties at 5875 Painter Road and 5900 West Branch Road is hereby approved, subject to the following:

1. The new legal descriptions of the two parcels are those included on Exhibit B attached hereto.
2. The approval of this simple subdivision shall expire within one year of the date of this resolution unless recorded within Hennepin County within that period of time; and

3. The Applicants shall reimburse the City for all costs and expenses associated with the review of this application.

This resolution was adopted by the City Council of the City of Minnetrista on the 16th day of October, 2023 by a vote of _____ ayes and _____ nays.

Lisa Whalen, Mayor

ATTEST:

Ann Meyerhoff, City Clerk

(SEAL)

EXHIBIT A

Existing Legal Descriptions

5900 West Branch Road:

Tract C, Registered Land Survey No. 1549, Hennepin County, Minnesota
Torrens Certificate No. 1555572

5875 Painter Road:

Parcel 1:

All that part of the Southeast Quarter of Section 2, Township 117, Range 24, described as follows: Commencing at a point 7.18 chains East of the Northwest corner of the Southwest Quarter of the Southeast Quarter of said Section 2; thence South 6.32 chains; thence East 5.05 chains; thence North 17.47 chains to the public highway or cartway; thence South 70 degrees West, along said cartway to a point due North of the point of beginning; thence South to the point of beginning, Hennepin County, Minnesota

Abstract Property

Parcel 2:

That part of the Southeast Quarter of Section 2, Township 117, Range 24, Hennepin County, Minnesota, described as follows: Commencing at a point in the West line of said Southeast Quarter distant 912.69 feet North of the Southwest Corner thereof; thence East parallel to the South line of said Southeast Quarter a distance of 807.18 feet to the point of beginning of the land to be described; thence North parallel to the West line of said Southeast Quarter a distance of 1153.02 feet, more or less, to the South line of a 33.00 foot cartway running in an Easterly and Westerly direction through said Southeast Quarter; thence East along the South line of said cartway a distance of 151.09 feet; thence South parallel to the West line of said Southeast Quarter a distance of 1151.96 feet, more or less, to a line drawn parallel to the South line of said Southeast Quarter and distant North therefrom 912.69 feet; thence West along said parallel line a distance of 151.07 feet, more or less, to point of beginning, Hennepin County, Minnesota

Torrens Property (per Cert. of Title No. 1538298)

EXHIBIT B

New Legal Descriptions

5900 West Branch Road:

Tract C, Registered Land Survey Number 1549.

AND

Those parts of the following described parcels which lie South of a line drawn 90.45 North of, measured at right angles to, and parallel with the most Northerly segment of the North line of Tract C, Registered Land Survey No. 1549.

Parcel 1:

All that part of the Southeast Quarter of Section 2, Township 117, Range 24, described as follows: Commencing at a point 7.18 chains East of the Northwest corner of the Southwest Quarter of the Southeast Quarter of said Section 2; thence South 6.32 chains; thence East 5.05 chains; thence North 17.47 chains to the public highway or cartway; thence South 70 degrees West, along said cartway to a point due North of the point of beginning; thence South to the point of beginning, Hennepin County, Minnesota

Abstract Property

Parcel 2:

That part of the Southeast Quarter of Section 2, Township 117, Range 24, Hennepin County, Minnesota, described as follows: Commencing at a point in the West line of said Southeast Quarter distant 912.69 feet North of the Southwest Corner thereof; thence East parallel to the South line of said Southeast Quarter a distance of 807.18 feet to the point of beginning of the land to be described; thence North parallel to the West line of said Southeast Quarter a distance of 1153.02 feet, more or less, to the South line of a 33.00 foot cartway running in an Easterly and Westerly direction through said Southeast Quarter; thence East along the South line of said cartway a distance of 151.09 feet; thence South parallel to the West line of said Southeast Quarter a distance of 1151.96 feet, more or less, to a line drawn parallel to the South line of said Southeast Quarter and distant North therefrom 912.69 feet; thence West along said parallel line a distance of 151.07 feet, more or less, to point of beginning, Hennepin County, Minnesota

Torrens Property (per Cert. of Title No. 1538298)

5875 West Branch Road:

Those parts of the following described parcels:

Parcel 1:

All that part of the Southeast Quarter of Section 2, Township 117, Range 24, described as follows: Commencing at a point 7.18 chains East of the Northwest corner of the Southwest Quarter of the Southeast Quarter of said Section 2; thence South 6.32 chains; thence East 5.05 chains; thence North 17.47 chains to the public highway or cartway; thence South 70 degrees West, along said

cartway to a point due North of the point of beginning; thence South to the point of beginning, Hennepin County, Minnesota

Abstract Property

Parcel 2:

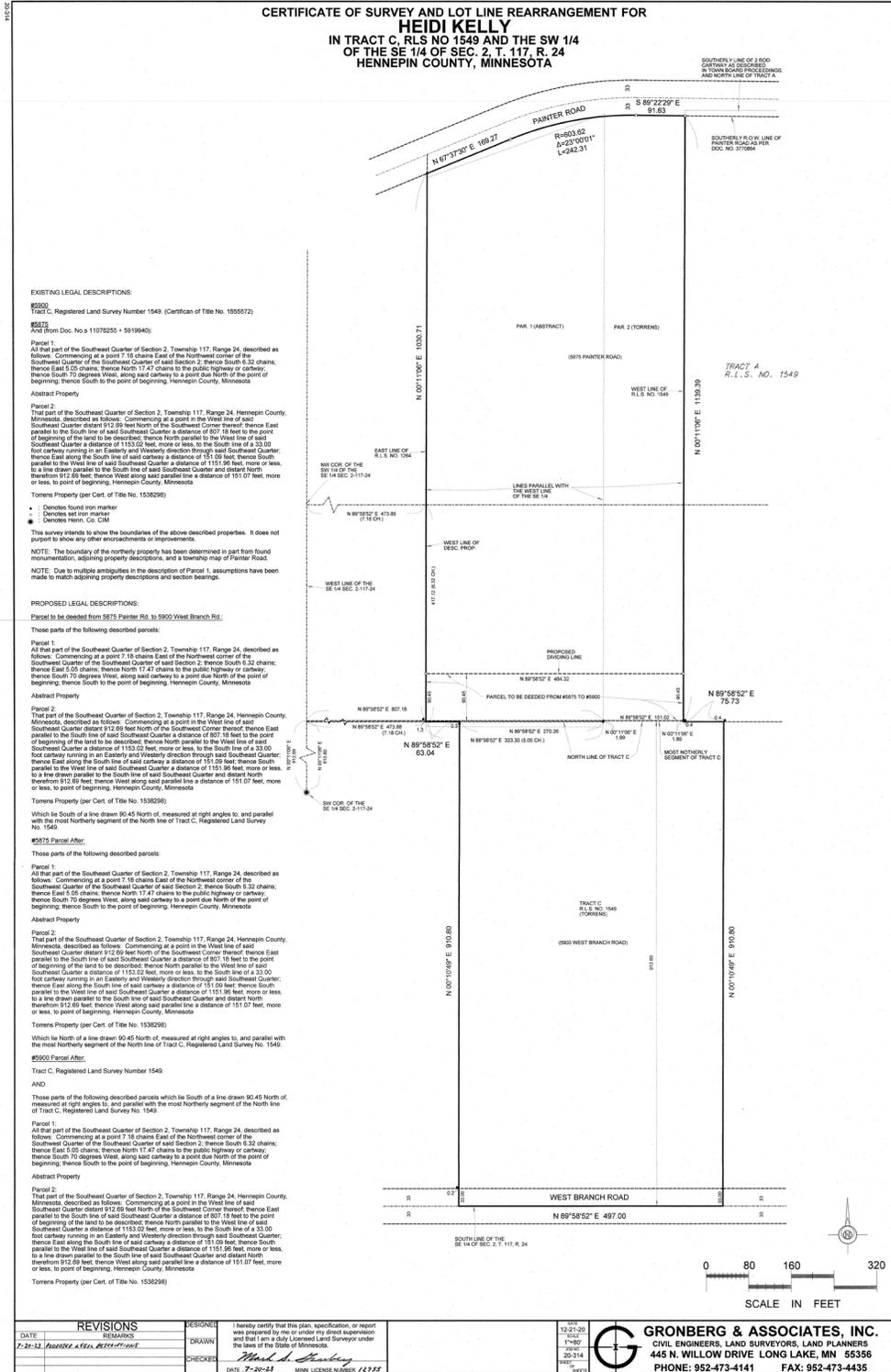
That part of the Southeast Quarter of Section 2, Township 117, Range 24, Hennepin County, Minnesota, described as follows: Commencing at a point in the West line of said Southeast Quarter distant 912.69 feet North of the Southwest Corner thereof; thence East parallel to the South line of said Southeast Quarter a distance of 807.18 feet to the point of beginning of the land to be described; thence North parallel to the West line of said Southeast Quarter a distance of 1153.02 feet, more or less, to the South line of a 33.00 foot cartway running in an Easterly and Westerly direction through said Southeast Quarter; thence East along the South line of said cartway a distance of 151.09 feet; thence South parallel to the West line of said Southeast Quarter a distance of 1151.96 feet, more or less, to a line drawn parallel to the South line of said Southeast Quarter and distant North therefrom 912.69 feet; thence West along said parallel line a distance of 151.07 feet, more or less, to point of beginning, Hennepin County, Minnesota

Torrens Property (per Cert. of Title No. 1538298)

Which lie North of a line drawn 90.45 North of, measured at right angles to, and parallel with the most Northerly segment of the North line of Tract C, Registered Land Survey No. 1549.

EXHIBIT C

Depiction of Existing and New Parcels



CITY OF MINNETRISTA

CITY COUNCIL AGENDA ITEM 4F



Subject: **Approve Change Order 1 for the 2023
Street Reconstruction and Utility Improvement Project, City Project
01-23**

Prepared By: Alyson Fauske, PE, City Engineer

Meeting Date: October 16, 2023

Issue:

Should the City approve Change Order 1 for the 2023 Street and Utility Improvement Project, City Project 01-23?

Background/Discussion:

On March 20, 2023 the City Council awarded the contract for the 2023 Street and Utility Improvement Project, City Project 01-23 to LaTour Construction. Centerpoint Energy was replacing gas main and services in the project area in June. The narrow street widths presented a challenge to accommodate resident traffic if both Centerpoint and LaTour excavating in the project area therefore the removal and replacement of the watermain was delayed. To offset this delay LaTour has requested the following:

- 1) Amend the substantial completion date to October 27, 2023, which shall include installation of concrete curb and gutter and placement of the first lift of bituminous.
- 2) Amend the final completion date to November 30, 2023, which shall include turf restoration, cleanup, placement of the final lift of bituminous, and resolving punch list items.

LaTour has continuously worked in the project corridor throughout the construction season. Curb and gutter installation is complete and at the time that this report is written the contractor was backfilling the curb to prepare the project area for paving. Once the first lift of pavement is installed topsoil will be placed and the disturbed areas will be sodded or seeded before the final lift of pavement is placed.

Recommendation:

Staff recommends the City Council approve Change Order 1.

Fiscal Impact:

None.

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.

Recommended City Council Action: Staff recommends approval of Resolution 88-23, approving a Change Order 1 for the 2023 Street and Utility Improvement Project, City Project 01-23.

Does Recommended Action meet City Mission Statement? Yes No
Does Recommended Action meet City Goals/Priorities? Yes No

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.

WSB Project No. 020668-000	Owner Project No. 01-23	Change Order No. 1
Project Title/Description: 2023 Street Reconstruction and Utility Improvement Project		
Owner: City of Minnetrista		
Owner Address: 7701 County Road 110 West Minnetrista, MN 55364-9553		
Contractor: LaTour Construction, Inc.		
Contractor Address: 2134 County Rd 8 NW Maple Lake, MN 55358		
Total Change Order Amount: \$0.00		

Description:

The Contractor has requested, and the Engineer concurs, that an adjustment to the substantial and final completion dates on the project is warranted, due to other work being performed on the project that was out of the Contractor's control.

The provisions of 1806.1 DETERMINATION AND EXTENSION OF PROJECT TIME, paragraphs 4, 5 and 6, shall be amended to read:

The Work will be substantially completed on or before October 27, 2023.

Substantial completion includes utility installation, installation of concrete curb and gutter, and the placement of the first lift of bituminous.

The Work will be ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before November 30, 2023. Final completion includes placement of the final lift of bituminous, restoration, cleanup, and resolving punch list items.

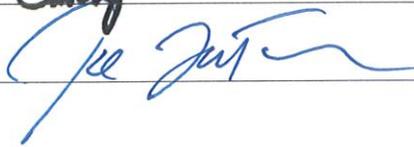
Estimate Of Cost: (Include any increases or decreases in contract items, any negotiated or force account items.)

Group/Funding Category	Item No.	Description	Unit	Unit Price	+ or - Quantity	+ or - Amount \$
Net Change This Change Order						\$0.00

Due to this change, the contract time: (check one)

<input type="checkbox"/> Is NOT changed	<input checked="" type="checkbox"/> May be revised as provided in MnDOT Specification 1806
Number of Working Days Affected by this Contract Change: 22	Number of Calendar Days Affected by this Contract Change: 30

Approved By Project Engineer:  Date: October 11, 2023

Approved By Contractor:  Date: 10/11/23

Approved By Owner: _____ Date: _____

RESOLUTION NO. 88-23

**CITY OF MINNETRISTA
HENNEPIN COUNTY, MINNESOTA**

**A RESOLUTION APPROVING CHANGE ORDER 1 FOR
THE 2023 STREET RECONSTRUCTION AND UTILITY IMPROVEMENT PROJECT
CITY PROJECT NO. 01-23**

WHEREAS, on March 20, 2023 the City of Minnetrista awarded the contract for the 2023 Street Reconstruction and Utility Improvement Project, City Project 01-23 to LaTour Construction, Inc.; and

WHEREAS, the contract identifies a substantial completion date of October 13, 2023 and a final completion date of October 31, 2023; and

WHEREAS, LaTour Construction requests an extension on the completion dates due to gas main installation by a private utility at the outset of the project that delayed underground work on City Project 01-23. The requested dates are October 27, 2023 for substantial completion and November 30, 2023 for final completion.

NOW THEREFORE, BE IT RESOLVED by the City Council of Minnetrista that Change Order 1 for 2023 Street and Utility Improvement Project, City Project 01-23 is approved.

This resolution was adopted by the City Council of the City of Minnetrista on the 16th day of October, 2023, by a vote of _____ Ayes and _____ Nays.

Lisa Whalen, Mayor

ATTEST:

Ann Meyerhoff, City Clerk

(seal)



**CITY OF MINNETRISTA
CONSENT AGENDA ITEM 4G**

Subject: **Accept Improvements and Authorize Final Payment for the 2023 Pavement Maintenance Project – Seal Coat and Crack Fill/Reclamite, City Project No. 05-23**

Prepared By: Chris Bunders, PE, Assistant City Engineer Through: Alyson Fauske, PE, City Engineer

Meeting Date: October 16, 2023

Issue:

The 2023 Pavement Maintenance Project – Seal Coat and Crack Fill/Reclamite, City Project No. 05-23, has been satisfactorily completed and project acceptance and final payment is requested by the contractor.

Background/Discussion:

The 2023 Pavement Maintenance Project – Seal Coat and Crack Fill/Reclamite, City Project No. 05-23 was initiated by the City Council at their June 26, 2023, regular City Council meeting. Improvements proposed for construction in 2023 included Crack fill and fog seal chip seal and reclamite of the roads listed below in the table.

Table 1. Summary of Proposed Improvements

Street	From-To	Length (ft)	Year Built ¹	Previous Maintenance	2021 PCI ²	Proposed Maintenance
Astilbe Ct	Ginger Dr to cul-de-sac	950	New	N/A	100	Fog sealed chip seal
Bracken Dr	Mayapple Dr to cul-de-sac	3,300	New	N/A	100	Fog sealed chip seal
Enchanted Ln	Lee to Shorewood border	1,200	2018	Reclamation	100	Crack fill
Farmhill Dr	Halstead Dr to cul-de-sac	3,400	2017	Recon	100	Crack fill
Fielding Trl	Game Farm Rd to cul-de-sac	2,300	2020	M&O in 2020	97	Crack fill
Game Farm Cir	Game Farm Rd to cul-de-sac	2,800	2020	M&O in 2020	92	Crack fill
Ginger Dr	Lotus Dr to cul-de-sac	1,700	New	N/A	100	Fog sealed chip seal
Halstead Dr	Highland Rd to	12,700	Recon	2017	100	Crack fill

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.

	Lakeside Dr						
Lakeview Dr	Cty Rd 44 to cul-de-sac	1,400	2020	Reclamation	100	Crack fill	
Langewood Dr	Cul-de-sac	2,000	2021	M&O in 2021	100	Crack fill	
Loring Dr	Cty 44 to cul-de-sac	250	2021	Reclamation	100	Crack fill	
Lotus Dr	Cty Rd 44 to Woodland Cove addition	2,150	2018	Recon	100	Crack fill	
Margaret Cir	Lakeview Dr to cul-de-sac	650	2018	N/A	100	Fog sealed chip seal	
May Apple Dr	Lotus Dr to dead end	1,040	New	N/A	100	Fog sealed chip seal	
Minneapolis Ave	Cty 19 to Crest Ridge	5,300	2022	Reclamation	100	Reclamite	
Ox Yoke Cir	Cty Rd 92 to cul-de-sac	1,950	2019	Reclamation	100	Crack fill	
Retreat Cir	Game Farm Rd to cul-de-sac	1,550	2020	M&O in 2020	99	Crack fill	
Shady Lane	Cty Rd 44 to Lakeview Dr	1,600	2020	Reclamation	100	Crack fill	
Sterling Dr	Game Farm Rd to cul-de-sac	850	2020	M&O in 2020	99	Crack fill	
Stonebridge Cir	cul-de-sac to cul-de-sac	1930	2021	Reclamation	100	Reclamite	
Stonebridge Ln	Hermitage Tr to Stonebridge Cir	1120	2021	Reclamation	100	Reclamite	
Stonebridge Rd	Cty 44 to Hermitage Tr	730	2021	Reclamation	100	Reclamite	
Sunnyfield Rd N	Cty Rd 110 N to Gravel	500	2021	Reclamation	100	Reclamite	
Sunnyfield Rd E	Cty Rd 110 N to Gravel	500	2021	Reclamation	100	Reclamite	
Tuxedo Rd	Wellesley to St Mary's	3,350	2018	Reclamation	100	Crack fill	

Allied Blacktop Company and Corrective Asphalt Materials, LLC substantially completed the scheduled work on September 18, 2023, in general conformance with the Contract documents. Final quantities have been reviewed and agreed to by the City Engineer and it has been determined that the project is complete and final payment is appropriate.

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.

Allied Blacktop Company and Corrective Asphalt Materials, LLC has submitted the required Consent of Surety to Final Payment, Minnesota Form IC-134 Withholdings Affidavit, lien waivers, and the signed request for final payment. Allied Blacktop Company and Corrective Asphalt Materials, LLC has provided a maintenance bond terminating on September 18, 2025, and September 22, 2025 respectively.

A Resolution Accepting Improvements for the 2023 Pavement Maintenance Project – Seal Coat and Crack Fill/Reclamite, City Project No. 05-23, and Authorizing Final Payment is included for Council consideration of approval.

Conclusion:

Staff recommends that the 2023 Pavement Maintenance Project – Seal Coat and Crack Fill/Reclamite, City Project No. 05-23 be accepted, and that final payment be issued to Allied Blacktop Company and Corrective Asphalt Materials, LLC.

Fiscal Impact:

The bid awarded to Allied Blacktop Company was a total of \$125,799.45 and the final project construction amount is \$149,485.59, which is 18.8% over the base bid.

Below are reasons for the overrun of project costs:

- The contract included unit costs for work, and the scope of the work was modified per the request of the City of Minnetrista Public Works Department. The addition scope of crack fill and fog seal chip seal on Lotus Drive, Bracken Drive, Ginger Drive, May Apple Drive and Astilbe Court accounted for the overrun in project cost. Except for Lotus Drive, these roads are within the Woodland Cove development. Sealcoat escrows were collected with the Woodland Cove developer’s agreement to pay for a portion of the sealcoat costs.

The bid awarded to Corrective Asphalt Materials, LLC was a total of \$51,253.50 and the final project construction amount is \$45,670.65, which is 12% under the base bid.

Below are reasons for the underrun of project costs:

- The contractor included unit costs for work, and the estimated SY area of the project was higher than the SY area that was needed to complete the scope of the project.

The 2023 Pavement Maintenance Project – Seal Coat and Crack Fill/Reclamite, City Project No. 05-23 costs are funded by Road Maintenance Fund and the Woodland Cove sealcoat escrows. The budgeted amount associated with engineering design, bidding, and construction administration was \$22,313. The final amount billed for these services amounts to \$16,967.50.

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.

The Engineer's opinion of grand total project cost was presented to City Council on June 5, 2023 and was \$199,365.95. The total cost of the project, including engineering and construction, is \$212,123.74.

Recommended City Council Action: Staff recommends approving Resolution _____ No.89-23 accepting the 2023 Pavement Maintenance Project – Seal Coat and Crack Fill/ Reclamite, City Project No. 05-23, and authorizing final payment to Allied Blacktop Company in the amount of \$149,485.59 and Corrective Asphalt Materials, LLC in the amount of

\$2,283.53.

Does Recommended Action meet City Mission Statement? Yes No

Does Recommended Action meet City Goals/Priorities? Yes No

Explain:

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.



September 12, 2023

Mr. Peter Capistrant
Allied Blacktop
10503 89th Avenue North
Maple Grove, MN 55369

Re: Final Pay Voucher No. 1
2023 Pavement Maintenance Project – Seal Coat and Crack Fill
City Project no. 05-23
WSB Project No. 023081-000

Dear Mr. Capistrant:

Please find attached Final Construction Pay Voucher No. 1 for the above-referenced project in the amount of \$149,485.59 for your review and signature. Please sign and return three copies to our office for processing with the City.

Please note that the original signed vouchers must be accompanied by the following documents when submitting for final payment and to close out the project. Final acceptance will be considered up on receipt of these documents.

1. Satisfactory showing that the Contractor has complied with the provisions of Minnesota Statutes 290.92 requiring withholding state income tax (IC134 forms).
2. Evidence in the form of an affidavit that all claims against the contractor by reasons of the contract have been fully paid or satisfactorily secured (lien waivers, if any).
3. Consent of Surety to Final Payment certification from the Contractor's surety.
4. Two-year Maintenance Bond.

Please give me a call at 612.430.0986 if you have any questions regarding this letter.

Sincerely,

WSB

Chris Bunders, PE
Project Manager

Attachments

cc: Alyson Fauske, City Engineer

ar

2023 Pavement Maintenance
Project - Seal Coat and Crack Fill

Final Pay Voucher 1



Client: City of Minnetrista 7701 County Road 110 West Minnetrista, MN 55364-9553	Contractor: Allied Blacktop 10503 89th Avenue North Maple Grove, MN 55369
---	--

WSB Project No.: 023081-000
Client Project No.: 05-23
State Project No.:
Federal Project No.:

Contract Amount		Funds Encumbered	
Original Contract	\$125,799.45	Original	\$125,799.45
Contract Changes	\$0.00	Additional	N/A
Revised Contract	\$125,799.45	Total	\$125,799.45

Work Certified To Date	
Base Bid Items	\$149,485.59
Contract Changes	\$0.00
Material On Hand	\$0.00
Total	\$149,485.59

Work Certified This Voucher	Work Certified To Date	Less Amount Retained	Less Previous Payments	Amount Paid This Voucher	Total Amount Paid To Date
\$149,485.59	\$149,485.59	\$0.00	\$0.00	\$149,485.59	\$149,485.59
Percent Retained: 0%			Percent Complete: 118.83%		

FINAL PAY VOUCHER

I hereby certify that a Final Examination has been made of the noted Contract, that the Contract has been completed, that the entire amount of Work Shown in this Final Voucher has been performed and the Total Value of the Work Performed in accordance with, and pursuant to, the terms of the Contract is as shown in this Final Voucher.

Approved By WSB

Signature

September 18, 2023

Date

Approved By Allied Blacktop

Signature

Date

Approved By City of Minnetrista

Signature

Date

Payment Summary				
No.	Up Through Date	Work Certified Per Voucher	Amount Retained Per Voucher	Amount Paid Per Voucher
1	09/18/2023	\$149,485.59	\$0.00	\$149,485.59

Funding Category Name	Work Certified To Date	Less Amount Retained	Less Previous Payments	Amount Paid This Voucher	Total Amount Paid To Date
Local	\$149,485.59	\$0.00	\$0.00	\$149,485.59	\$149,485.59

Accounting Number	Funding Source	Amount Paid This Voucher	Revised Contract Amount	Funds Encumbered To Date	Paid Contractor To Date
1	Local	\$149,485.59	\$125,799.45	\$125,799.45	\$149,485.59

Contract Item Status									
Line No.	Item	Description	Unit	Unit Price	Contract Quantity	Quantity This Voucher	Amount This Voucher	Quantity To Date	Amount To Date
1	2021.501	MOBILIZATION	LUMP SUM	\$10,000.00	1	1	\$10,000.00	1	\$10,000.00
2	2331.603	CRACK SEALING TYPE A	L F	\$0.65	23465	51073	\$33,197.45	51073	\$33,197.45
3	2331.603	CRACK SEALING TYPE B	L F	\$0.80	29880	17862.8	\$14,290.24	17862.8	\$14,290.24
4	2355.506	BITUMINOUS MATERIAL FOR FOG SEAL	GAL	\$1.20	2567	2475	\$2,970.00	2475	\$2,970.00
5	2356.504	BITUMINOUS SEAL COAT	S Y	\$2.50	19740	25351	\$63,377.50	25351	\$63,377.50
6	2356.506	BITUMINOUS MATERIAL FOR SEAL COAT	GAL	\$2.40	5922	6521	\$15,650.40	6521	\$15,650.40
7	2563.601	TRAFFIC CONTROL	LS	\$10,000.00	1	1	\$10,000.00	1	\$10,000.00
Bid Totals:							\$149,485.59		\$149,485.59

Project Category Totals		
Category	Amount This Voucher	Amount To Date
SEAL COAT AND CRACK FILL	\$149,485.59	\$149,485.59

Contract Change Item Status											
CC	CC No.	Line No.	Item	Description	Units	Unit Price	Contract Quantity	Quantity This Voucher	Amount This Voucher	Quantity To Date	Amount To Date
Contract Change Totals:											

Contract Change Totals				
No.	Contract Change	Description	Amount This Voucher	Amount To Date

Material On Hand Additions					
Line No.	Item	Description	Date	Added	Comments

Material On Hand Balance						
Line No.	Item	Description	Date	Added	Used	Remaining



Contractor Affidavit Submitted

Thank you, your Contractor Affidavit has been approved.

Confirmation Summary

Confirmation Number:	0-888-501-856
Submitted Date and Time:	19-Sep-2023 11:22:47 AM
Legal Name:	ALLIED BLACKTOP COMPANY
Federal Employer ID:	41-0827871
User Who Submitted:	N10503
Type of Request Submitted:	Contractor Affidavit

Affidavit Summary

Affidavit Number:	1135169536
Minnesota ID:	8606387
Project Owner:	CITY OF MINNETRISTA
Project Number:	05-23 2023 PAVEMENT MAINTENANCE PROJECT SEAL COAT AND CRACK FILL
Project Begin Date:	17-Aug-2023
Project End Date:	08-Sep-2023
Project Location:	VARIOUS ROADS AND STREETS
Project Amount:	\$149,485.59
Subcontractors:	No Subcontractors

Important Messages

A copy of this page must be provided to the contractor or government agency that hired you.

Contact Us

If you need further assistance, contact our Withholding Tax Division at 651-282-9999, (toll-free) 800-657-3594, or (email) withholding.tax@state.mn.us. Business hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Central Time.

Please [print this page](#) for your records using the print or save functionality built into your browser.

BOND NO. 30194785

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS, That we Allied Blacktop Company,
of 10503 89th Avenue North Maple Grove, MN 55369, as Principal, and
Western Surety Company, of
151 N. Franklin St. Chicago, IL 60606, a corporation duly
authorized to do business in the State of Minnesota, as Surety, are held
and firmly bound unto City of Minnetrista, of
7701 County Road 110 W, Minnetrista, MN 55364 in the penal sum of
One Hundred Forty-nine Thousand Four Hundred Eighty-five And 59/100
(\$149,485.59) which payment well and truly to be made we bind
ourselves, our and each of our heirs, executors, administrators,
successors and assigns jointly and severally, firmly by these presents.

WHEREAS, said Principal has completed the project known as
2023 Pavement Maintenance Project - Seal Coat & Crack Fill, and a Two (2) year
maintenance bond covering the said construction has been requested by
the City of Minnetrista.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT if said
Principal does and shall, at their own cost and expense, remedy any and
all failures that may develop, by reason of defective workmanship or
poor materials used in the construction of said work, for a period of
Two (2) year(s) beginning from 9/18/2023 to
9/18/2025 shall in all other respects comply with all the terms
and conditions of the contract with respect to maintenance and repair of
said work, then this obligation to be null and void; otherwise to be and
remain in full force and virtue in law.

SIGNED SEALED AND DATED this 19th Day of September, 2023.

Allied Blacktop Company

BY: Peter M Capistrano
Peter M Capistrano, President

Western Surety Company

BY: Jessica A. Olson
Jessica A. Olson, Attorney-in-Fact

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Litton E S Field Jr, Nicole M Coty, Mark Alan Thune, Mutya Alvaran Enoksen, Gayle L Thorson, Jeffrey R Skaar, Jessica A Olson, Sierra McQuoid, Individually, of Mendota Heights, MN
Kevin Paulson, Tom Corneil, Chad Christianson, De Ette J Wurm, Debra M Bledsoe, Brenda S Klimstra, Erin Pohlman, Deb Geislinger, Jacqueline Riley, Amanda Plantenberg, Dena Grunhovd, Leslie Seehusen, Individually, of Saint Cloud, MN**

its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 14th day of July, 2023.



WESTERN SURETY COMPANY

Larry Kasten

Larry Kasten, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 14th day of July, 2023, before me personally came Larry Kasten, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires
March 2, 2026



M. Bent

M. Bent, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law and Resolutions of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 19th day of September, 2023.



WESTERN SURETY COMPANY

L. Nelson

L. Nelson, Assistant Secretary

CONSENT OF SURETY TO FINAL PAYMENT

AIA Document G707

(Instructions on reverse side)

- OWNER
- ARCHITECT
- CONTRACTOR
- SURETY
- OTHER

TO OWNER:
(Name and address)
 City of Minnetrista
 7701 County Road 110 W
 Minnetrista, MN 55364

ARCHITECT'S PROJECT NO.:

CONTRACT FOR:

PROJECT:
(Name and address)
 2023 Pavement Maintenance Project - Seal Coat & Crack Fill for the City of Minnetrista, City Project No. 05-23, WSB Project No. 023081-000

CONTRACT DATED: July 26, 2023

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the *(Insert name and address of Surety)*

Western Surety Company
 151 N. Franklin St.
 Chicago, IL 60606

, SURETY,

on bond of
(Insert name and address of Contractor)

Allied Blacktop Company
 10503 89th Avenue North
 Maple Grove, MN 55369

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety of any of its obligations to *(Insert name and address of Owner)*

City of Minnetrista
 7701 County Road 110 W
 Minnetrista, MN 55364

, OWNER,

as set forth in said Surety's bond.

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date: September 19, 2023
(Insert in writing the month followed by the numeric date and year)

Western Surety Company
(Surety)

(Signature of authorized representative)

Attest.
(Seal):

(Signature)

Jessica A. Olson Attorney-in-fact
(Printed name and title)



CAUTION: You should sign an original AIA document that has this caution printed in red. An original assures that changes will not be obscured as may occur when documents are reproduced. See Instruction Sheet for Limited License for Reproduction of this document.



Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Litton E S Field Jr, Nicole M Coty, Mark Alan Thune, Mutya Alvaran Enoksen, Gayle L Thorson, Jeffrey R Skaar, Jessica A Olson, Sierra McQuoid, Individually, of Mendota Heights, MN
Kevin Paulson, Tom Corneil, Chad Christianson, De Ette J Wurm, Debra M Bledsoe, Brenda S Klimstra, Erin Pohlman, Deb Geislinger, Jacqueline Riley, Amanda Plantenberg, Dena Grunhovid, Leslie Seehusen, Individually, of Saint Cloud, MN**

its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 14th day of July, 2023.



WESTERN SURETY COMPANY

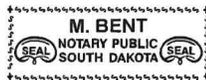
Larry Kasten
Larry Kasten, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 14th day of July, 2023, before me personally came Larry Kasten, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

March 2, 2026



M. Bent
M. Bent, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law and Resolutions of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 19th day of September, 2023.



WESTERN SURETY COMPANY

L. Nelson
L. Nelson, Assistant Secretary



September 12, 2023

Ms. Carol Perkins, Bids & Contracts Specialist
Corrective Asphalt Materials, LLC
300 Daniel Boone Trail
South Roxana, IL 62087

Re: Final Pay Voucher No. 2
2023 Pavement Maintenance Project – Reclamite
City Project no. 05-23
WSB Project No. 023081-000

Dear Ms. Perkins:

Please find attached Final Construction Pay Voucher No. 2 for the above-referenced project in the amount of \$2,283.53 for your review and signature. Please sign and return three copies to our office for processing with the City.

Please note that the original signed vouchers must be accompanied by the following documents when submitting for final payment and to close out the project. Final acceptance will be considered up on receipt of these documents.

1. Satisfactory showing that the Contractor has complied with the provisions of Minnesota Statutes 290.92 requiring withholding state income tax (IC134 forms).
2. Evidence in the form of an affidavit that all claims against the contractor by reasons of the contract have been fully paid or satisfactorily secured (lien waivers, if any).
3. Consent of Surety to Final Payment certification from the Contractor's surety.
4. Two-year Maintenance Bond.

Please give me a call at 612.430.0986 if you have any questions regarding this letter.

Sincerely,

WSB

Chris Bunders, PE
Project Manager

Attachments

cc: Alyson Fauske, City Engineer

ar

Client: City of Minnetrista 7701 County Road 110 West Minnetrista, MN 55364-9553	Contractor: Corrective Asphalt Materials, LLC 300 Daniel Boone Trail South Roxana, IL 62087
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WSB Project No.: 023081-000
Client Project No.: 05-23
State Project No.:
Federal Project No.:

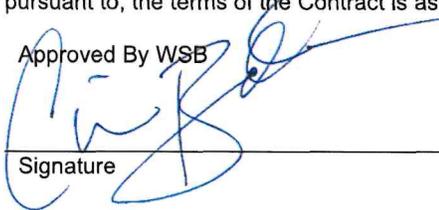
Contract Amount		Funds Encumbered	
Original Contract	\$51,253.50	Original	\$51,253.50
Contract Changes	\$0.00	Additional	N/A
Revised Contract	\$51,253.50	Total	\$51,253.50

Work Certified To Date	
Base Bid Items	\$45,670.65
Contract Changes	\$0.00
Material On Hand	\$0.00
Total	\$45,670.65

Work Certified This Voucher	Work Certified To Date	Less Amount Retained	Less Previous Payments	Amount Paid This Voucher	Total Amount Paid To Date
\$0.00	\$45,670.65	\$0.00	\$43,387.12	\$2,283.53	\$45,670.65
Percent Retained: 0%			Percent Complete: 89.11%		

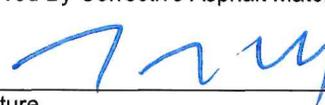
FINAL PAY VOUCHER

I hereby certify that a Final Examination has been made of the noted Contract, that the Contract has been completed, that the entire amount of Work Shown in this Final Voucher has been performed and the Total Value of the Work Performed in accordance with, and pursuant to, the terms of the Contract is as shown in this Final Voucher.

Approved By WSB 

 Signature
 September 12, 2023

 Date

Approved By Corrective Asphalt Materials, LLC


 Signature
 9-18-23

 Date

Approved By City of Minnetrista

 Signature

 Date

Payment Summary				
No.	Up Through Date	Work Certified Per Voucher	Amount Retained Per Voucher	Amount Paid Per Voucher
1	08/25/2023	\$45,670.65	\$2,283.53	\$43,387.12
2	09/12/2023	\$0.00	(\$2,283.53)	\$2,283.53

Funding Category Name	Work Certified To Date	Less Amount Retained	Less Previous Payments	Amount Paid This Voucher	Total Amount Paid To Date
Local	\$45,670.65	\$0.00	\$43,387.12	\$2,283.53	\$45,670.65

Accounting Number	Funding Source	Amount Paid This Voucher	Revised Contract Amount	Funds Encumbered To Date	Paid Contractor To Date
1	Local	\$2,283.53	\$51,253.50	\$51,253.50	\$45,670.65

Contract Item Status									
Line No.	Item	Description	Unit	Unit Price	Contract Quantity	Quantity This Voucher	Amount This Voucher	Quantity To Date	Amount To Date
1	2021.501	MOBILIZATION	LUMP SUM	\$1,970.00	1	0	\$0.00	1	\$1,970.00
2	2356.604	ASPHALT REJUVENATION	S Y	\$1.05	44270	0	\$0.00	38953	\$40,900.65
3	2563.601	TRAFFIC CONTROL	LS	\$2,800.00	1	0	\$0.00	1	\$2,800.00
Bid Totals:							\$0.00		\$45,670.65

Project Category Totals		
Category	Amount This Voucher	Amount To Date
RECLAMITE	\$0.00	\$45,670.65

Contract Change Item Status											
CC	CC No.	Line No.	Item	Description	Units	Unit Price	Contract Quantity	Quantity This Voucher	Amount This Voucher	Quantity To Date	Amount To Date
Contract Change Totals:											

Contract Change Totals				
No.	Contract Change	Description	Amount This Voucher	Amount To Date

Material On Hand Additions					
Line No.	Item	Description	Date	Added	Comments

Material On Hand Balance						
Line No.	Item	Description	Date	Added	Used	Remaining

THE CINCINNATI INSURANCE COMPANY

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we

Corrective Asphalt Materials, LLC, 300 Daniel Boone Trail, South Roxana, IL 62087

as Principal and THE CINCINNATI INSURANCE COMPANY, 6200 S. Gilmore Road, Fairfield, Ohio 45014-5141, a corporation organized under the laws of the State of Ohio, with principal office at Cincinnati, Ohio, as Surety, are held and firmly bound unto

City of Minnetrista, MN, 7701 County Road 110 West, Minnetrista, MN 55364

(hereinafter called the Obligee), in the penal sum of

Forty Five Thousand Six Hundred Seventy and 65/100 (\$45,670.65)

Dollars, for payment of which, well and truly to be made, we do hereby bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

DATED this 22nd day of September, 2023

WHEREAS, the said Principal has heretofore entered into a contract with the Obligee above named for

2023 Pavement Maintenance Project - Reclamite, Minnetrista, MN - Various Locations

and,

WHEREAS, the work called for under said contract has now been completed and accepted by the said Obligee;

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if said Principal shall, for a period of 2 year(s) from and after the 12th day of September, 2023, indemnify the Obligee against any loss or damage directly arising by reason of any defect in the material or workmanship which may be discovered within the period aforesaid, then this obligation shall be void; otherwise to be and remain in full force and virtue in law.

PROVIDED, HOWEVER, that in the event of any default on the part of said Principal, written statement of the particular facts showing such default and the date thereof shall be delivered to the Surety by registered mail, at its Home Office in the City of Cincinnati, Ohio, promptly and in any event within ten (10) days after the Obligee or his representative shall learn of such default, and that no claim, suit, or action by reason of any default of the Principal shall be brought here under after the expiration of thirty days from the end of the maintenance period as herein set forth

Corrective Asphalt Materials, LLC

(Principal)

(Seal)

General Manager

(Title)

THE CINCINNATI INSURANCE COMPANY

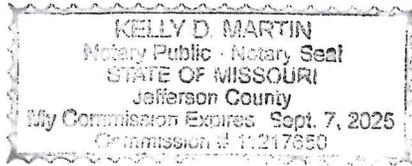
By

Brandi L. Bullock

Attorney-in-fact

State of Missouri
County of City of St. Louis

On this September 22, 2023, before me personally appeared
Brandi L. Bullock to me known to be an Attorney-in-Fact of
The Cincinnati Insurance Company the corporation described in the
within instrument, and he acknowledged that he executed the within instrument as the act of the said
Company in accordance with authority duly conferred upon him by said Company.



Kelly D Martin
Notary Public

THE CINCINNATI INSURANCE COMPANY

Fairfield, Ohio

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE CINCINNATI INSURANCE COMPANY, a corporation organized under the laws of the State of Ohio, and having its principal office in the City of Fairfield, Ohio, does hereby constitute and appoint

Michael T. Reedy; Stephen C. Ruff; Patricia A. Inchiostro; Gregory L. Stanley; Theresa A. Hunziker; Barbara M. Johnson; Christopher J. O'Hagan; Brandi L. Bullock; Don K. Ardolino; Kimberly Ann Connell; Timothy E. Griffin; Michael A. Flavin; Debra Baggett; Trudy Whitrock and/or Michelle Wilson

of Chesterfield and St. Louis, Missouri its true and lawful Attorney(s)-in-Fact to sign, execute, seal and deliver on its behalf as Surety, and as its act and deed, any and all bonds, policies, undertakings, or other like instruments, as follows:

Any such obligations in the United States, up to Forty Million and No/100 Dollars (\$40,000,000.00).

This appointment is made under and by authority of the following resolution passed by the Board of Directors of said Company at a meeting held in the principal office of the Company, a quorum being present and voting, on the 6th day of December, 1958, which resolution is still in effect:

"RESOLVED, that the President or any Vice President be hereby authorized, and empowered to appoint Attorneys-in-Fact of the Company to execute any and all bonds, policies, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such Attorney-in-Fact to affix the corporate seal; and may with or without cause modify or revoke any such appointment or authority. Any such writings so executed by such Attorneys-in-Fact shall be binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company."

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 7th day of December, 1973.

"RESOLVED, that the signature of the President or a Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary or Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power of certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company."

IN WITNESS WHEREOF, THE CINCINNATI INSURANCE COMPANY has caused these presents to be sealed with its corporate seal, duly attested by its Senior Vice President this 19th day of December, 2018.



THE CINCINNATI INSURANCE COMPANY

Stephen A. Ventre

STATE OF OHIO) ss:
COUNTY OF BUTLER)

On this 19th day of December, 2018, before me came the above-named Vice President of THE CINCINNATI INSURANCE COMPANY, to me personally known to be the officer described herein, and acknowledged that the seal affixed to the preceding instrument is the corporate seal of said Company and the corporate seal and the signature of the officer were duly affixed and subscribed to said instrument by the authority and direction of said corporation.



Keith Collett signature

KEITH COLLETT, Attorney at Law
NOTARY PUBLIC - STATE OF OHIO
My commission has no expiration date. Section 147.03 O.R.C.

I, the undersigned Secretary or Assistant Secretary of THE CINCINNATI INSURANCE COMPANY, hereby certify that the above is a true and correct copy of the Original Power of Attorney issued by said Company, and do hereby further certify that the said Power of Attorney is still in full force and effect.

GIVEN under my hand and seal of said Company at Fairfield, Ohio.

this 22nd day of September, 2023



Ed H. signature

Bond# B3289116

**CONSENT OF SURETY
TO FINAL PAYMENT**

Conforms with the American Institute of
Architects, AIA Document G707

- OWNER
- ARCHITECT
- CONTRACTOR
- SURETY
- OTHER

TO OWNER: City of Minnetrista, MN

ARCHITECT'S PROJECT NO.:

(Name and address) 7701 County Road 110 West
Minnetrista, MN 55364

CONTRACT FOR:
Reclamite - Minnetrista, MN - Various Locations

PROJECT: 2023 Pavement Maintenance Project
(Name and address)

CONTRACT DATED:
June 26, 2023

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

The Cincinnati Insurance Company

P.O. Box 145496
Cincinnati, OH 45250-5496

, SURETY,

on bond of

(Insert name and address of Contractor)
Corrective Asphalt Materials, LLC

300 Daniel Boone Trail
South Roxana, IL 62087

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety of any
of its obligations to
(Insert name and address of Owner)

City of Minnetrista, MN

7701 County Road 110 West
Minnetrista, MN 55364

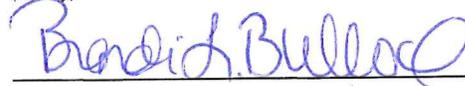
, OWNER,

as set forth in said Surety's bond.

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date: September 22, 2023
(Insert in writing the month followed by the numeric date and year.)

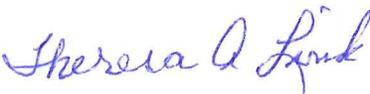
The Cincinnati Insurance Company

(Surety)



(Signature of authorized representative)

Attest:

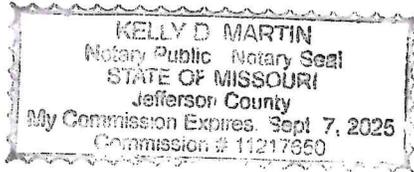


Brandi L. Bullock, Attorney-In-Fact

(Printed name and title)

State of Missouri
County of City of St. Louis

On this September 22, 2023, before me personally appeared
Brandi L. Bullock to me known to be an Attorney-in-Fact of
The Cincinnati Insurance Company the corporation described in the
within instrument, and he acknowledged that he executed the within instrument as the act of the said
Company in accordance with authority duly conferred upon him by said Company.



Kelly D. Martin
Notary Public

THE CINCINNATI INSURANCE COMPANY

Fairfield, Ohio

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE CINCINNATI INSURANCE COMPANY, a corporation organized under the laws of the State of Ohio, and having its principal office in the City of Fairfield, Ohio, does hereby constitute and appoint

Michael T. Reedy; Stephen C. Ruff; Patricia A. Inchiostro; Gregory L. Stanley; Theresa A. Hunziker; Barbara M. Johnson; Christopher J. O'Hagan; Brandi L. Bullock; Don K. Ardolino; Kimberly Ann Connell; Timothy E. Griffin; Michael A. Flavin; Debra Baggett; Trudy Whitrock and/or Michelle Wilson

of Chesterfield and St. Louis, Missouri its true and lawful Attorney(s)-in-Fact to sign, execute, seal and deliver on its behalf as Surety, and as its act and deed, any and all bonds, policies, undertakings, or other like instruments, as follows: Any such obligations in the United States, up to Forty Million and No/100 Dollars (\$40,000,000.00).

This appointment is made under and by authority of the following resolution passed by the Board of Directors of said Company at a meeting held in the principal office of the Company, a quorum being present and voting, on the 6th day of December, 1958, which resolution is still in effect:

“RESOLVED, that the President or any Vice President be hereby authorized, and empowered to appoint Attorneys-in-Fact of the Company to execute any and all bonds, policies, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such Attorney-in-Fact to affix the corporate seal; and may with or without cause modify or revoke any such appointment or authority. Any such writings so executed by such Attorneys-in-Fact shall be binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company.”

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 7th day of December, 1973.

“RESOLVED, that the signature of the President or a Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary or Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power of certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company.”

IN WITNESS WHEREOF, THE CINCINNATI INSURANCE COMPANY has caused these presents to be sealed with its corporate seal, duly attested by its Senior Vice President this 19th day of December, 2018.



THE CINCINNATI INSURANCE COMPANY

Stephen A. Denton

STATE OF OHIO) ss:
COUNTY OF BUTLER)

On this 19th day of December, 2018, before me came the above-named Vice President of THE CINCINNATI INSURANCE COMPANY, to me personally known to be the officer described herein, and acknowledged that the seal affixed to the preceding instrument is the corporate seal of said Company and the corporate seal and the signature of the officer were duly affixed and subscribed to said instrument by the authority and direction of said corporation.



Keith Collett

KEITH COLLETT, Attorney at Law
NOTARY PUBLIC - STATE OF OHIO
My commission has no expiration date. Section 147.03 O.R.C.

I, the undersigned Secretary or Assistant Secretary of THE CINCINNATI INSURANCE COMPANY, hereby certify that the above is a true and correct copy of the Original Power of Attorney issued by said Company, and do hereby further certify that the said Power of Attorney is still in full force and effect.

GIVEN under my hand and seal of said Company at Fairfield, Ohio, this 22nd day of September, 2023



Ed [Signature]

RESOLUTION NO. 89-23

**CITY OF MINNETRISTA
HENNEPIN COUNTY, MINNESOTA**

**A RESOLUTION ACCEPTING IMPROVEMENTS AND AUTHORIZING FINAL
PAYMENT FOR THE 2023 PAVEMENT MAINTENANCE PROJECT – SEAL COAT &
CRACK FILL/RECLAMITE, CITY PROJECT NO. 05-23**

WHEREAS, pursuant to a written contract signed with the City on June 26, 2023, Allied Blacktop Company and Corrective Asphalt Materials, LLC has satisfactorily completed 2023 Pavement Maintenance Project – Seal Coat & Crack Fill/Reclamite, City Project No. 05-23, in accordance with such contract; and

WHEREAS, Allied Blacktop Company and Corrective Asphalt Materials, LLC has supplied a maintenance bond terminating on September 18, 2025 and September 22, 2025 respectively.

NOW THEREFORE, BE IT RESOLVED by the City Council of the City of Minnetrista, Minnesota, the work completed under said contract is hereby accepted and approved; and

BE IT FURTHER RESOLVED by the City Clerk and Mayor are hereby directed to issue a proper order for the final payment on such contract.

This resolution was adopted by the City Council of the City of Minnetrista on the 16th day of October, 2023, by a vote of _____ Ayes and _____ Nays.

Lisa Whalen, Mayor

ATTEST:

Ann Meyerhoff, City Clerk

(seal)

CITY OF MINNETRISTA



CITY COUNCIL AGENDA ITEM 6A

Subject: Accept AE2S Tech Memo for Wells #8 and #9

Prepared By: Gary Peters, Public Works Director

Meeting Date: October 16, 2023

Issue:

Do a preliminary design for new City wells #8 and #9 placement options and water availability, quality and required regulatory requirements.

Overview:

These wells will be used to supply the new water treatment plant. The overall findings for wells #8 and #9 show that water quality meets all maximum contaminant levels (MCL) set forth by the EPA National Secondary Drinking Water Regulations (NSDWRs). The overall findings show that wells #8 and #9 can be placed in this area, and that they can adequately supply enough water for the new water treatment plant. There may also be a need for a third well, and this too can be placed in this area as needed. The step will be the design of the water treatment facility and where distribution lines need to be installed.

Fiscal Impact:

The financial impact for this was billed at hourly rates, with total compensation not to exceed \$43,400.00, as set forth at the December 5, 2022, city council meeting. This fee also includes the actual well design, which is the next step. Total invoiced to date is \$4,947.25. This is being expensed to the water fund.

Recommended City Council Action:

Council accept AE2S Tech Memo for Minnetrista Wells #8 and #9 preliminary design.

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.



TECHNICAL MEMORANDUM

To: Gary Peters
Public Works Director
City of Minnetrista

From: Nancy Zeigler
Ross Mindermann
Richard Wagner

Re: **Minnetrista Wells No. 8 and No. 9 Preliminary Design**

Date: August 22, 2023

BACKGROUND

The City of Minnetrista (City) requested that Advanced Engineering and Environmental Services, LLC (AE2S) assist with preliminary design for new City Wells No. 8 and No. 9 on the potential Woodland Cove WTP site (herein referred to as "potential WTP Site").

This technical memorandum documents the water quality, hydrogeologic information, water availability, regulatory requirements, and other findings of Well No. 8 and Well No. 9.

WATER QUALITY

Water quality expectations vary based on numerous parameters. To provide a standardized benchmark, the Environmental Protection Agency (EPA) has established the National Primary Drinking Water Regulations (NPDWR). The NPDWR establishes the maximum contaminant level (MCL) and are legally enforceable primary standards and treatment techniques that apply to public water systems. The NPDWR address microbial contaminants, disinfectants and disinfection by-products (DBPs), maximum residual disinfectant levels (MRDLs), inorganic and organic compounds, radionuclides, treatment techniques (TT), maximum contaminant levels (MCLs), and other advisory objectives and parameters. Primary standards protect public health by limiting the levels of contaminants in drinking water.

The EPA has established National Secondary Drinking Water Regulations (NSDWRs) that set non-mandatory water quality standards. These standards establish guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color,

Technical Memorandum

Re: Minnetrista Wells No. 8 and No. 9 Preliminary Design

August 22, 2023

and odor. The EPA does not enforce these secondary maximum contaminant levels (SMCLs), which include iron and manganese. However, the Minnesota Department of Health (MDH) has been notifying municipalities of health risk advisories for manganese in their systems above the health-based value (HBV) of 100 ug/l (or 0.1 mg/l).

Traut wells completed a Test Well No. 10 at the potential WTP site in 2022. A series of aquifer pumping tests were completed on the Jordan aquifer, Tunnel City Wonewoc (TCW) aquifer, and Mt. Simon Aquifer as drilling and construction of the test well progressed. Testing was completed by isolating the open hole of each aquifer as it was encountered. The depth of the Jordan, TCW and Mount Simon were 343 feet, 565 feet and 765 respectively. Water quality within each aquifer was determined from Test Well No. 10. The analytical results for key parameters are summarized in **Table 1**

Table 1: Focus Area Aquifer Water Quality

	Tunnel City-Wonewoc	Jordan	Mt. Simon	MCL (SMCL)
Iron	1.00 mg/L	1.07 mg/L	1.10 mg/L	0.3 mg/L
Manganese	0.14 mg/L	0.67 mg/L	0.24 mg/L	0.05 mg/L*
Combined Radium	4.28 pCi/L	0.23 pCi/L	4.25 pCi/L	5.00 pCi/L
TDS	540 mg/L	390 mg/L	500 mg/L	500 mg/L

* Manganese also has a Health-Based Value (HBV) of 100 µg/L (or 0.1 mg/l)

The water from all aquifers:

- Meets all MCLs.
- Exceeds iron and manganese SMCLs.
- Exceed the HBV for manganese.

The water from the TCW and Mt Simon aquifers are higher in radium and total dissolved solids (TDS) than the Jordan formation. Radium levels are below, but approaching, the primary standard and TDS levels are at or above the secondary standard. TDS is generally made up of inorganic salts, as well as a small amount of organic matter. The TDS levels above are commonly found in local wells and an indication of hard water due to calcium and magnesium in the water.

Treatment for any parameters exceeding primary drinking water standards and the manganese health-based value will be required, as a minimum. However, removal of iron along with manganese is desirable and will achieve water similar in quality to the City's current treated drinking water. Water treatment to remove iron and manganese typically includes oxidation of iron and manganese followed by filtration, and chlorine and fluoride addition.

Technical Memorandum

Re: Minnetrista Wells No. 8 and No. 9 Preliminary Design

August 22, 2023

HYDROGEOLOGICAL STUDY

A hydrogeological study was completed by LRE Water. The resulting study "City of Minnetrista Hydrogeologic Assessment and Preliminary Siting of Proposed Wells No. 8 and No. 9" (Hydrogeological Study) is summarized herein and attached at the end of this Technical Memorandum as Appendix A.

The objectives of the Hydrogeological Study were as follows:

- Provide information on the available bedrock aquifers.
- Estimate potential well yields from these aquifers, particularly in the City's south well field area.
- Identify locations and target aquifers for proposed Wells No. 8, No. 9, and No. 10; and
- Identify general areas in the City where future potential well fields could be located based on the hydrogeologic conditions.

The hydrogeologic study area is considered to be all land within the City Limits while the actual siting is focused on a "focus area" which is considered to be an area within the SE corner of the City including Wells No. 3, No. 4, No. 6, No. 7, the potential Woodland Cove WTP Site, and Test Well No. 10. The study area and focus area are depicted in **Figure 1**.

The hydrogeological study revealed that the focus area and potential new well site has three aquifers present that could be utilized as high-capacity water sources. The aquifers present are the TCW, Jordan, and Mt. Simon. Additionally, there are shallow sand and gravel aquifers that are present and are thick enough to be utilized as water source; however, due to the vulnerable nature of these aquifers it is not recommended to use it as a source when other reliable, less vulnerable aquifers are available.

As part of the Hydrogeological Study, multiple geological cross-sections were produced throughout the study area. **Figure 8** of the Hydrogeological Study and in **Appendix A** show's a geological cross section connecting Wells No. 6, No. 7, No. 3, No. 4, and Test Well No. 10, through the focus area. Analysis of this cross section shows approximate depths and thickness's of present geological formations within the focus area. The buried sand and gravel aquifers that are present in the focus area are shown to be hydraulically connected to the Jordan aquifer, where present, and the Mt. Simon and TCW, where the Jordan is not present. This connectivity will likely provide additional groundwater recharge to the connected aquifers.

The hydrogeological study results indicate that proposed Wells No. 8 and No. 9 would have the capacity to meet a 2,000-gpm demand if constructed in the Mt. Simon and Jordan aquifers. An optional Well No. 10 in the TCW aquifer could be constructed, if needed. More details on the new potential wells are provided below in the conclusions section, and in Appendix A.

Technical Memorandum

Re: Minnetrista Wells No. 8 and No. 9 Preliminary Design

August 22, 2023

REGULATORY SUMMARY AND NEXT STEPS

The Mt. Simon Sandstone aquifer is not an option for additional development per the following State of Minnesota statute:

“Minnesota Statutes 103G.271, Subdivision 4a. Mt. Simon-Hinckley Aquifer. (a) The commissioner may not issue new water use permits that will appropriate water from the Mt. Simon-Hinckley aquifer in a metropolitan county, as defined in section 473.121, subdivision 4, unless the appropriation is for potable water use, there are no feasible or practical alternatives to this source, and a water conservation plan is incorporated with the permit.”

However, there is an exception to the rule according to the DNR. An existing Mt. Simon well can be replaced with a new Mt. Simon well if the rate for that well does not exceed what is currently permitted for the well being replaced. The City has had discussions with the DNR and is considering replacing their existing Mt. Simon aquifer Well No. 4 that was constructed in 1995.

Previous discussions the City had with the DNR were reviewed and contact was made with Sara Mielke, MN Groundwater Protection Hydrologist. The DNR’s position is summarized below:

- Replacement of Well No. 4 with another Mt. Simon is interpreted to be allowed (as long as it follows the restriction of 108 million gallons per year (MGY) from the Mt. Simon; more on that below)
- A TCW monitoring well will also be required before the permit is amended to be able to use the well.
- The DNR would like the City of Minnetrista to update the DNR on the progress of the water conservation measures that are being employed by the City of Minnetrista to reduce residential per capita demand.
- 100 percent of water pumped from Wells No. 1 and No. 3 is considered to be from the Mt. Simon. Therefore, the sum of Wells No. 1, No. 3, and the new Mt. Simon well needs to be less than 108 MGY. The historical average pumped for Wells No. 1 and No. 3 have been 43 MGY and 34 MGY, respectively.
- Well No. 4 may potentially be converted to a level monitoring well (and therefore avoid sealing it). The DNR Groundwater Technical Unit is reviewing this option.

Action items for permitting the new wells include:

- Submit a Preliminary Well Construction Assessment request for each well to the DNR as soon as the location and approximate capacity is known.
- Submit Well Construction plans and specifications to MDH for approval.
- Discuss monitoring well requirements with the DNR.
- Provide the DNR with an update on progress of water conservation methods the City is using to reduce per capita demand.
- Submit an amendment request to the DNR for the City’s Water Appropriation Permit

CONCLUSIONS AND RECOMMENDATIONS

The Hydrogeologic Study in combination with regulatory discussion provided the requested two (2) potential new well locations within the focus area. Each well is located in a separate aquifer within the focus area and **Table 2** of the Hydrogeologic Study shows which aquifer each potential well could be in along with the estimated capacity for each potential well. In addition to the two (2) potential new wells, a third option is listed in case the necessary capacity cannot be obtained by the first two wells.

Table 2: New Potential Wells

	Well No. 8	Well No. 9	Well No. 10
Aquifer	Mt. Simon	Jordan	TCW
Estimated Capacity (gpm)	600	1,500	400

Well No. 8 capacity is assumed based on the allowable capacity of Well No. 4. Since new wells can't be drilled into the Mt. Simon, the DNR allows for an even trade in capacity for a new Mt. Simon well, potential Well No. 8 capacity can equal the existing Well No. 4 capacity of 600 gpm.

Well No. 9 capacity is based on test well data and specific capacity of the Jordan Aquifer equal to 25 gpm per foot of water level drawdown. Additional testing after Well No. 9 is constructed is a normal part of the construction process and will confirm the capacity. The location of private/residential wells within the Jordan Aquifer should be determined during design and potential well interference be monitored during well pump testing to determine the extent of aquifer drawdown and impact on private/residential wells.

Optional Well No. 10 capacity is based on potential interference with other TCW wells in the area. It is recommended that further water level monitoring be conducted in the TCW on the parcel to refine estimates of well interference before Well No. 10 is constructed.

The location of Potential Wells No. 8, No. 9, and No. 10 are shown on the south side of the Potential WTP site in **Figure 9** of the Hydrogeological Study and included in the attached Appendix A.

Finalizing the placement of each well should ensure that MDH minimum separation distances are met. (See attached Figure A) The key separation distances that will apply, include:

- Sewer line - 50 ft
- Storm water drainpipe, 8 inches or greater in diameter - 20 ft.
- Ordinary high water level of a storm water retention pond – 50 ft.
- Property line, unless legally controlled through an easement - 50 ft

Technical Memorandum

Re: Minnetrista Wells No. 8 and No. 9 Preliminary Design

August 22, 2023

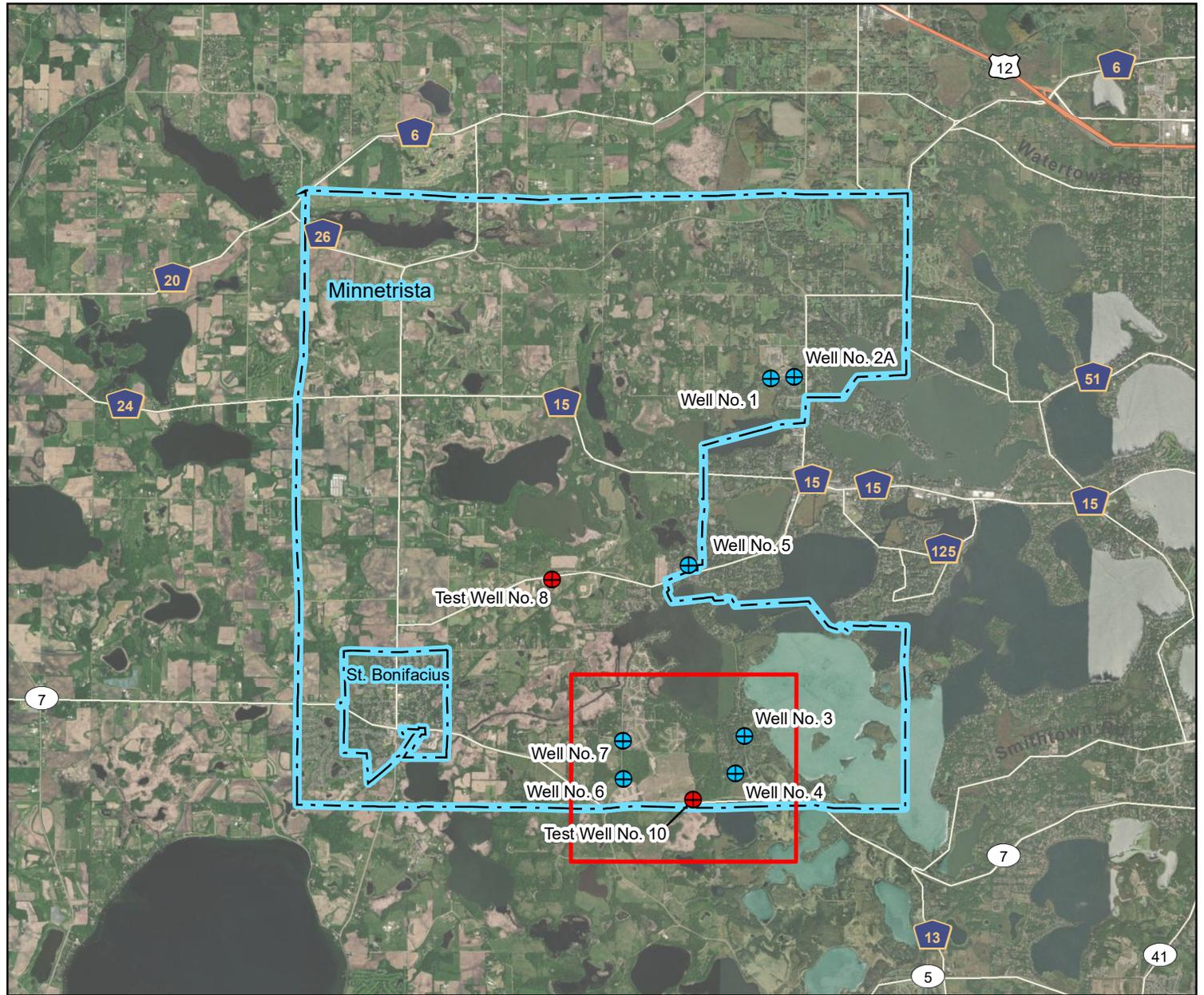
Ref:

<https://www.health.state.mn.us/communities/environment/water/wells/construction/isolate.html>

It is recommended that the City move forward with the design phase of Wells No. 8 and No. 9 on the Potential WTP Site based on preliminary results summarized in this technical memorandum including:

- Submit a Preliminary Well Construction Assessment request for each well to the DNR.
- Discuss monitoring well requirements with the DNR.
- Provide the DNR with an update on progress of water conservation methods the City is using to reduce per capita demand.
- Submit Well Construction plans and specifications to MDH for approval once final design is completed.
- Determine general location of the potential WTP structures and necessary separation distances.

-  City Well
-  City Test Well
-  City Boundaries
-  Focus Area for Proposed City Public Supply Wells No. 8, 9 and 10



Notes:
Locations are approximate and not survey grade.

Sources:
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Well locations are from the MWI Well Index database.

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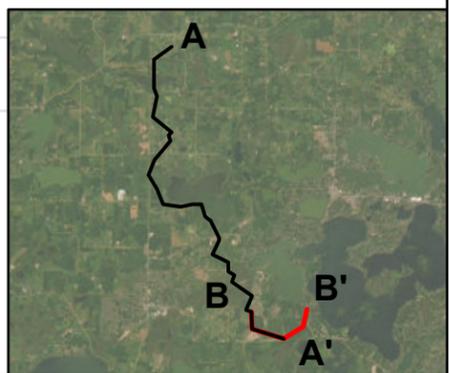
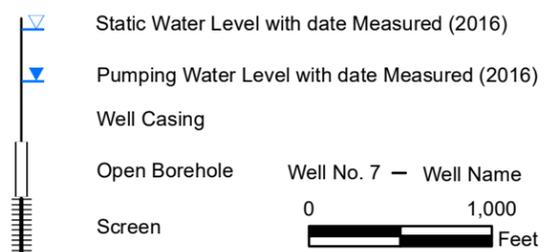
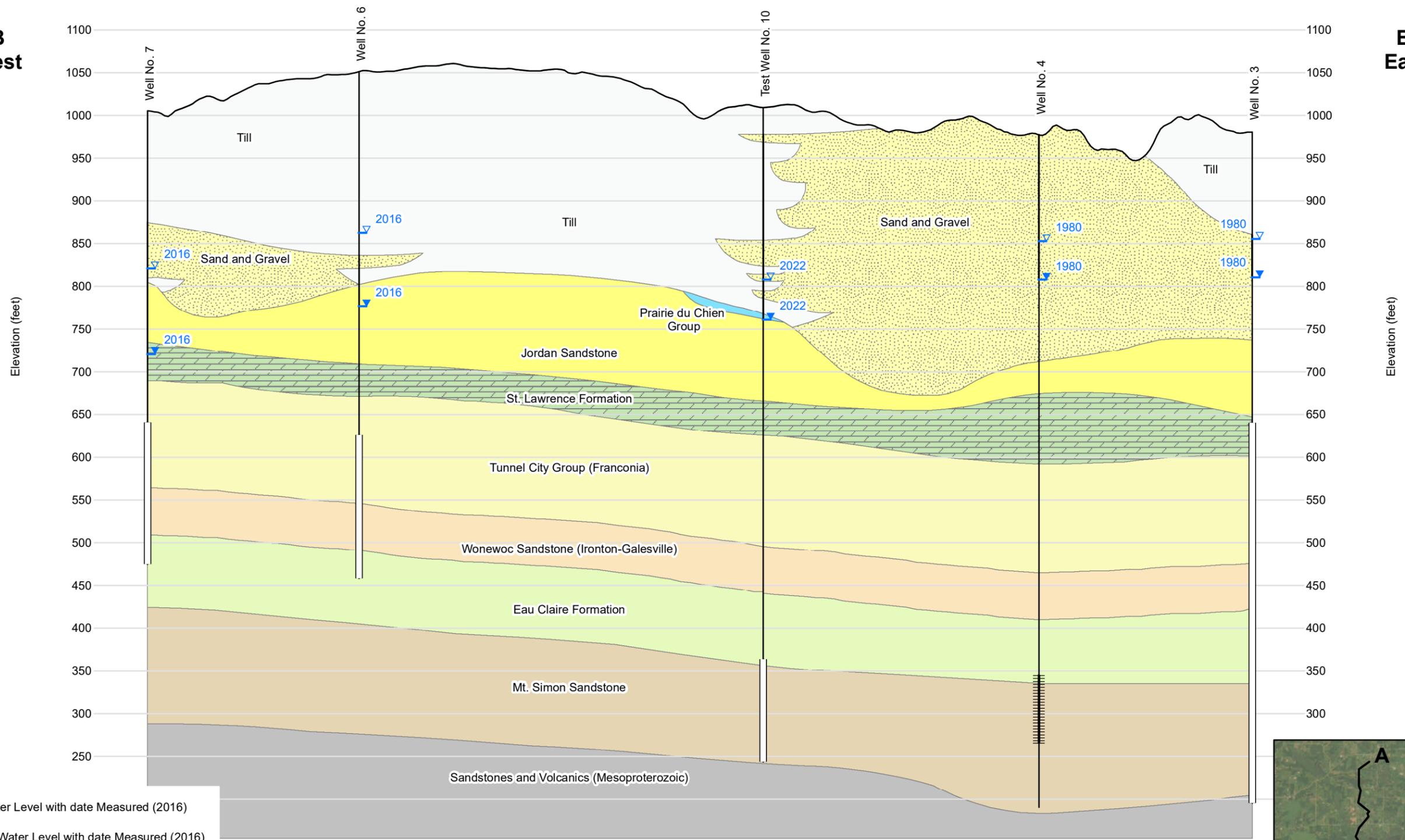


Prepared By:
LRE Water
Minneapolis / St. Paul Office
Minnesota
(612) 805-0919

AE2S		
DESKTOP HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION MINNETRISTA, MN		
STUDY AREA AND LOCATIONS OF CITY'S ACTIVE WELLS AND TEST WELLS		
FILE: 5013AEN08_01a.MXD	DATE: 5/31/2023	FIGURE: 1

B
West

B'
East



- Geologic Contact (all contacts are inferred)
- Till (Undifferentiated)
- Sand and Gravel (Undifferentiated)
- Prairie du Chien Group
- St. Peter Sandstone
- Jordan Sandstone
- St. Lawrence Formation
- Tunnel City Group (Franconia)
- Wonewoc Sandstone (Ironton-Galesville)
- Eau Claire Formation
- Mt. Simon Sandstone
- Sandstones and Volcanics (Mesoproterozoic)

Note: Geologic contacts are interpreted from well logs on the Minnesota Well Index (MWI). Bedrock surface topography and faults are interpreted from the Hennepin County Geologic Atlas.

Drawn: 4/26/2023
 Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Minnesota Well Index Database



Prepared By:
LRE Water
 Minnesota Office
 Minneapolis / St. Paul
 (612) 805-0919

AE2S
 HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION
 MINNETRISTA, MN

HYDROGEOLOGIC CROSS SECTION B-B'

C:\GIS\GIS\AE2S_Minnetrista\maps\5013AEN08_01e_xsect_B-B.mxd, 4/26/2023, 11:28:57 AM, NAD 1983 StatePlane Minnesota South FIPS 2203 Feet

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-  City Test Well
-  Proposed City Well
-  City Boundaries
-  Parcel for City Wells No. 8, 9 and 10



Notes:
Locations are approximate and not survey grade.

Final setback distances for proposed Well No.8, 9 and 10 need to be confirmed in the field.

Sources:
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

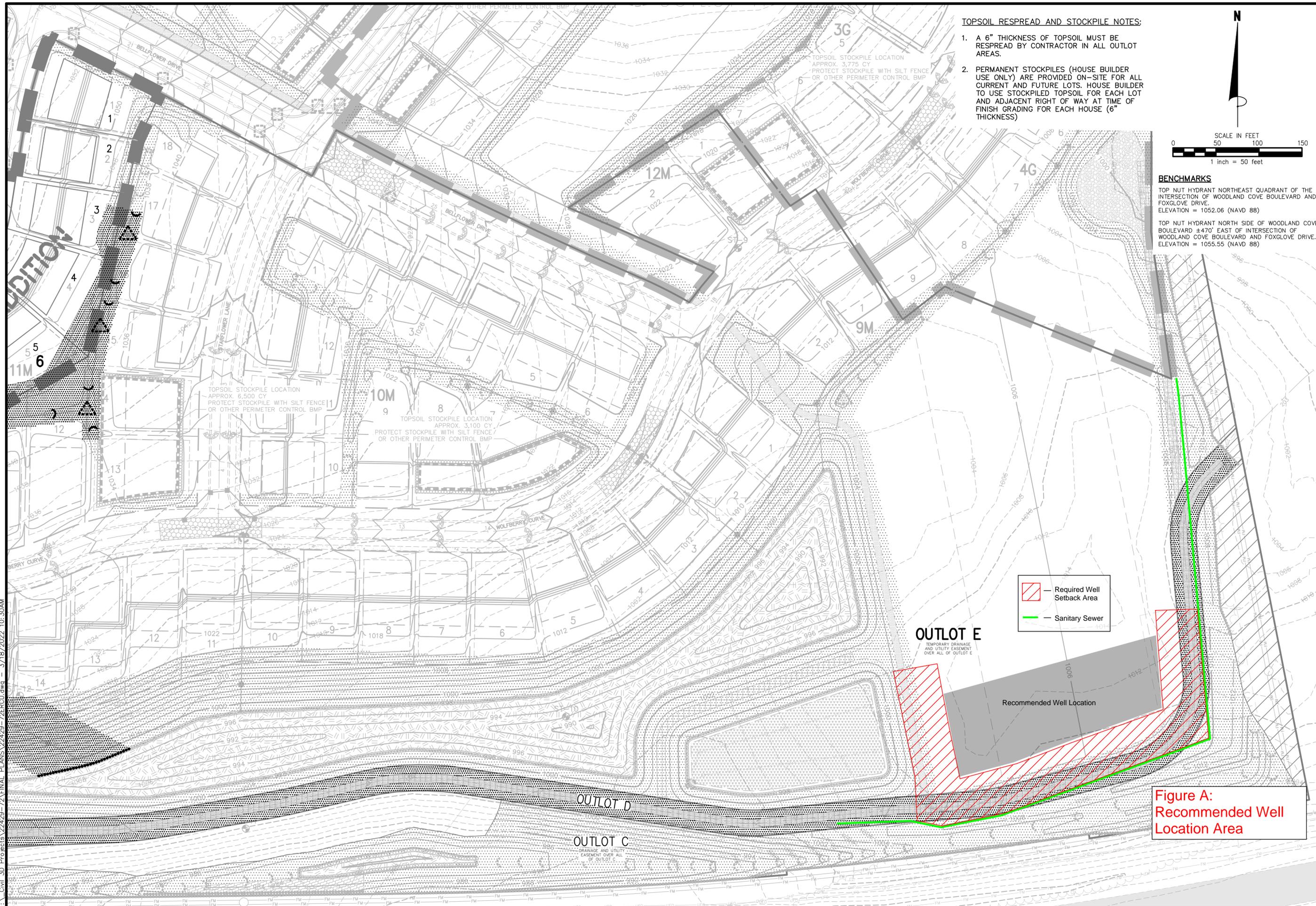
Well locations are from the MWI Well Index database.



Prepared By:
LRE Water
Minneapolis / St. Paul Office
Minnesota
(612) 805-0919

AE2S DESKTOP HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION MINNETRISTA, MN		
PARCEL OF INTEREST FOR PROPOSED CITY WELLS NO. 8, 9 AND 10		
FILE: 5013AEN08_01c.MXD	DATE: 5/31/2023	FIGURE: 9

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TOPSOIL RESPREAD AND STOCKPILE NOTES:

1. A 6" THICKNESS OF TOPSOIL MUST BE RESPREAD BY CONTRACTOR IN ALL OUTLOT AREAS.
2. PERMANENT STOCKPILES (HOUSE BUILDER USE ONLY) ARE PROVIDED ON-SITE FOR ALL CURRENT AND FUTURE LOTS. HOUSE BUILDER TO USE STOCKPILED TOPSOIL FOR EACH LOT AND ADJACENT RIGHT OF WAY AT TIME OF FINISH GRADING FOR EACH HOUSE (6" THICKNESS)

BENCHMARKS

TOP NUT HYDRANT NORTHEAST QUADRANT OF THE INTERSECTION OF WOODLAND COVE BOULEVARD AND FOXGLOVE DRIVE.
ELEVATION = 1052.06 (NAVD 88)

TOP NUT HYDRANT NORTH SIDE OF WOODLAND COVE BOULEVARD +470' EAST OF INTERSECTION OF WOODLAND COVE BOULEVARD AND FOXGLOVE DRIVE.
ELEVATION = 1055.55 (NAVD 88)

James R. Hill, Inc.
 PLANNERS / ENGINEERS / SURVEYORS
 2999 W. Ctr. Rd. 42, Suite 100, Burnsville, MN 55306
 PHONE: (952)890-6044 FAX: (952)890-6244

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
KURT J. HANSEN, P.E.
 Date: 1/28/22 Reg. No. 24676

WOODLAND COVE 8TH ADDITION
 MINNETRISTA, MINNESOTA
FINAL EROSION & SEDIMENT CONTROL PLAN
 FOR
M/I HOMES OF MPIS/ST. PAUL, LLC
 5354 PARKDALE DRIVE, SUITE 100, ST. LOUIS PARK, MN 55416

DRAWN BY	CJK
DATE	1/28/22
REVISIONS	
3/4/22 CITY COMMENTS	
3/18/22 CITY COMMENTS	
CAD FILE	22429-72ERCU
PROJECT NO.	22429-72
2.13	

Figure A:
Recommended Well Location Area

APPENDIX A



June 1, 2023

Nancy Zeigler, P.E.
Senior Project Manager
Advanced Engineering and Environmental Services, LLC
6901 E Fish Lake Rd, Suite 184
Maple Grove, MN 55369

RE: Desktop Hydrogeologic and Well Siting Assessment
Proposed Wells No. 8, 9 and 10
City of Minnetrista, MN

Dear Nancy,

This correspondence provides Advanced Engineering and Environmental Services, Inc. (AE2S) with the results of LRE Water's (LRE) Desktop Hydrogeologic Assessment and Siting of Proposed Wells No. 8, 9 and 10 (Assessment) for the City of Minnetrista's (City) well field expansion project (Project).

INTRODUCTION

Project Understanding and Objectives

As part of the Mater Water Supply Plan, the City is planning to increase its groundwater withdrawal by installing proposed Wells No. 8, 9 and 10 in the southern portion of the City near existing Wells No. 3, 4, 6 and 7. The target rate from the new wells is a combined 2,000 gallons per minute (gpm).

In addition, the City is interested in identifying other areas within the City limits that have the groundwater resources to support future potential well fields.

The objectives of the Assessment are as follows:

- provide information on the available bedrock aquifers;
- estimate potential well yields from these aquifers, particularly in the City's south well field area;
- identify locations and target aquifers for proposed Wells No. 8, 9 and 10; and,

- identify general areas in the City where future potential well fields could be located based on the hydrogeologic conditions.

As outlined in LRE's scope of work dated January 18, 2023, and discussed in subsequent meetings with AE2S, evaluation of the unconsolidated sand and gravel aquifers was not included in this Assessment.

Mt. Simon Water Use Restrictions

The bedrock aquifers available to the City for additional appropriation by the Minnesota Department of Natural Resources (DNR) are the Jordan Sandstone and Tunnel City-Wonewoc (TCW). The Mt. Simon Sandstone aquifer is not an option for additional development per the following State of Minnesota statute:

"Minnesota Statutes 103G.271, Subdivision 4a. Mt. Simon-Hinckley Aquifer. (a) The commissioner may not issue new water use permits that will appropriate water from the Mt. Simon-Hinckley aquifer in a metropolitan county, as defined in section 473.121, subdivision 4, unless the appropriation is for potable water use, there are no feasible or practical alternatives to this source, and a water conservation plan is incorporated with the permit."

However, there is an exception to the rule according to the DNR. An existing Mt. Simon well can be replaced with a new Mt. Simon well if the rate for that well does not exceed what is currently permitted for the well being replaced. LRE understands the City has had discussions with the DNR and is considering replacing their existing Mt. Simon aquifer Well No. 4 that was constructed in 1995.

BACKGROUND

Study and Well Siting Focus Area

The area evaluated for the Assessment, referred to as the Study Area, is defined by the City limits shown on **Figure 1**.

An area selected by the City for proposed Wells No. 8, 9 and 10 is referred to as the Focus Area. Within the Focus Area is a parcel of land adjacent to State Highway 7 (Parcel) that is owned City where proposed Wells No. 8, 9 and 10 could be located. A test well (Test Well No. 10) was installed in July 2022 on the Parcel. More information on Test Well No. 10 and the Parcel is provided later in this report.

Data Sources

The following information sources and tasks were completed by LRE to meet the objectives:

- Corresponded and attended meetings with the AE2S;
- Obtained and analyzed aquifer pumping test data collected by Traut Companies (Traut) from Test Well 10, and by the City from Wells No. 6 and 7;
- Reviewed relevant information including the bedrock geologic map from the Hennepin County Geologic Atlas - Part A (Steenberg, et al., 2018) (Part A Atlas), and the hydrogeologic cross sections from the Groundwater Atlas of Hennepin County - Part B (Berg, 2021) (Part B Atlas);
- Evaluated geologic logs from MDH Minnesota Well Index Database (MWI) within the Study Area, and well logs from the existing City wells;
- Identified the target aquifers, estimated well yields, and locations for proposed Wells No. 8, 9 and 10 in the Focus Area;
- Provided a summary of other areas in the City for future well field considerations; and,
- Provided this summary report of the Assessment results including assumptions, data gaps, and recommendations to address data gaps.

Existing City Wells

The City currently has eight active wells that are shown on **Figure 1**. The general well construction and permit information is summarized in **Table 1**, and the well logs are in **Attachment 1**.

Table 1. City Well Information

Well Name	Well ID	Depth (ft bg)	Open Hole/Screened interval (ft bg)	Aquifer	Permitted Volume (mgy)	Permitted Rate (gpm)
1	208864	678	264 - 678	TCW - MS	223	630
2A	773393	498	385 - 498	TCW		600
3	161408	785	340 - 785	TCW - MS		600
4	554097	712	632 - 712	MS		600
5	638450	253	312 - 253	QBAA		650
6	818310	593	425 - 593	TCW		500
7	818311	517	364 - 517	TCW		500

QBAA - Quaternary buried artesian (confined) sand and gravel aquifer; TCW – Tunnel City- Wonewoc; MS – Mt. Simon
 ft bg – feet below grade; mgy – million gallons per year; gpm – gallons per minute

HYDROGEOLOGY

Study Area Geology

The geology of Study Area consists of unconsolidated Quaternary-age sands, gravels and glacial till that range in thickness from approximately 100 to over 400 feet. These are underlain by Cambrian-age bedrock. The bedrock formations, from youngest to oldest, include the Jordan Sandstone, St. Lawrence Formation, TCW, Eau Claire Formation and the Mt. Simon Sandstone.

The uppermost bedrock formations are mapped on **Figure 2**. The bedrock geology is complex because of several southwest-northeast trending faults that extend through the Study Area, in addition to incised paleo bedrock valleys which are shown by the different subcropping bedrock formations and variable bedrock surface topography on **Figures 2 and 3**, respectively.

As a result of the faulting and erosional bedrock surface features the Jordan Sandstone is only present in the south-southeast, northeast, and northwest portions of the Study Area. The deeper TCW aquifer is present across most of the Study Area except in the southwest corner where it has been removed by erosion and the Eau Claire Formation and Mt. Simon are the uppermost bedrock formations encountered.

Study Area Hydrogeology

Hydrogeologic cross sections I-I' and J-J' from Atlas A are shown on **Figures 4 and 5**, and LRE's cross section A-A' on **Figure 6**. The cross transect locations are shown on **Figure 2**. The cross sections illustrate the hydrostratigraphy, displacement along the fault lines, and extent and thickness of the formations.

The bedrock aquifers available to the City for additional groundwater development are the Jordan Sandstone and TCW. These are separated hydraulically by the St. Lawrence Formation which is classified an aquitard and not suitable for high-capacity supplies. The Jordan aquifer is absent across most of the Study Area except in the areas mentioned above, while the TCW is present across most of the Study Area.

The deeper bedrock valleys and faults limit the extent of the bedrock aquifers in places, creating potential negative boundaries that may reduce groundwater flow to wells that are drilled in proximity to the fault lines and where aquifers thin or are absent. In contrast, some bedrock valleys may be filled with thick saturated sands and gravels that can provide additional recharge to the Jordan and TCW when hydraulically connected (**Figure 6**).

In general, the Jordan aquifer (combined with the overlying Ordovician-age Prairie du Chein Group where present) is preferred for public water supply wells in Hennepin County because

of greater water transmitting properties and well yields compared to the TCW; however, if the extent and thickness of the Jordan is limited, and recharge from overlying aquifers (i.e., Prairie du Chein or sands and gravels) are absent, the TCW may be a more reliable source.

Focus Area Hydrogeology

The Focus Area on **Figure 2** encompasses the City's south well field which is shown in detail on **Figure 7** with LRE's hydrogeologic cross section transect B-B'. The cross section is shown on **Figure 8**. Wells No. 3, 4, 6 and 7, and Test Well No. 10 are included on the cross section to illustrate the geology and their open borehole or screened intervals. Well No. 3 pumps from the TCW and Mt. Simon, Well No. 4 from the Mt. Simon, and Wells No. 6 and 7 from the TCW. Test Well No. 10 is also completed in the Mt. Simon. More details on this well are provided below in the Aquifer Pumping Test section.

The Jordan aquifer extends across the entire Focus Area ranging in thickness from approximately 50 feet near Well No. 7 to over 100 feet at Wells No. 3 and 6, and Test Well No. 10. Overlying and in contact with the Jordan at each well location are buried sand and gravel aquifers that likely provide additional recharge to the Jordan, especially under pumping conditions.

Parcel Hydrogeology

The geologic log from Test Well 10 (**Attachment 1**) shows the Jordan aquifer was encountered at a depth of 255 ft bg and is approximately 90 feet thick. Several sand and gravel layers were logged above the Jordan. These are likely connected to the thicker sand and gravel aquifers in the area and are a good source of recharge to the Jordan (**Figure 8**).

AQUIFER PUMPING TESTS

Test Well No. 10

A series of aquifer pumping tests were completed by Traut on the Jordan, TCW, and Mt Simon aquifers as drilling and construction progressed for Test Well No. 10. Testing was completed by isolating the open hole for each aquifer and conducting step-rate drawdown and constant rate tests. A schematic of the test design is provided in **Attachment 2** and the test data are in **Attachment 3**.

Wells No. 6 and 7

TCW Wells No. 6 and 7 were step-rate tested 2016 (drilling contractor information unavailable). The test data are in **Attachment 3**.

Specific Capacities

Specific capacities from the Test Well 10 test intervals, and Wells No. 6 and 7 are provided below. Estimated transmissivity (T) values for the aquifers were also calculated using the empirical equation from Driscoll (1986). The results are summarized in **Table 2** and provide a baseline for initial well performance and aquifer evaluations.

Table 2. Specific capacities and associated aquifer transmissivities

Well	Aquifer Tested	Test	SWL	PWL	s	Rate	Q/s	T	T
			(ft bg)	(ft bg)	(ft)	(gpm)	(gpm/ft)	(gpd/ft)	(ft ² /day)
TW-10	Jordan	constant	131	155	24	600	25	50,000	6,684
	TCW	constant	192	309	117	300	2.6	5,128	685
	MS	constant	204	248	44	343	7.8	15,591	2,084
No. 6	TCW	step	189	367	178	500	2.8	5,618	751
No. 7	TCW	step	125	330	205	600	2.9	5,854	782

SWL – static water level; PWL – pumping water level
 gpm/ft - gallons per minute per foot of drawdown
 gpd/ft – gallon per day per foot
 ft²/day – feet squared per day

Aquifer Pumping Test Analyses

Data from the Test Well No. 10 constant rate tests, and Wells No. 6 and 7 step tests were analyzed by LRE to evaluate aquifer responses to pumping and to estimate T of each aquifer. The analyses are provided in **Attachment 4** and summarized in **Table 3**.

Table 3. Transmissivity values from the aquifer pumping tests

Well	Test	Aquifer	T	T	Method
			(gpd/ft)	(ft ² /fday)	
TW-10	constant	Jordan	19,683	2,631	Hantush, 1964 (leaky)
			41,587	5,559	Copper-Jacob, 1946 (confined)
		TCW	10,107	1,351	Copper-Jacob, 1946 (confined)
			7,795	1,042	Theis, 1935 (confined)
		MS	21,650	2,894	Copper-Jacob, 1946 (confined)
6	step	TCW	13,361	1,786	Jacob-Rorabaugh, 1946, 1953 (confined)
7		TCW	5,431	726	Theis, 1935 (confined)

The T values estimated from specific capacities and aquifer pumping tests for each aquifer match reasonably well. The aquifer storage (S) could not be determined from the tests since the only water level observation data collected was from the pumping wells; therefore, S was estimated to be 0.0001 for all the aquifers, which is typical for confined systems.

The drawdown response for the Jordan aquifer interval began to flatten at later time (~ 100 minutes after pumping began), which is typical for a leaky aquifer. The leakage is likely from the overlying sand and gravel aquifers. The water level responses in the TCW and Mt. Simon aquifers appear to represent confined conditions with no significant boundary conditions based on the limited test data.

THEORETICAL MAXIMUM WELL YIELDS

The estimated yields for proposed Wells No. 8, 9 and 10 are listed in Table 4 and were calculated by multiplying the specific capacities from Test Well 10 by the available drawdown and assuming the wells are located on the Parcel shown on **Figure 9**.

Table 4. Estimated Yields for Proposed Wells No. 8, 9 and 10.

Proposed Well	Aquifer	Q/s (gpm/ft)	Assumed Pump Setting (ft bg)	SWL (ft bg)	Available Drawdown (ft)	Maximum Theoretical Yield (gpm)
8	MS	7.8	NA	NA	NA	600 ⁽¹⁾
9	Jordan	25	260	130	120	3,000
10	TCW	2.8	450	200	230	828

NA – not applicable

The available drawdown was calculated from the approximate static water level measured during the Test Well 10 tests, and an assumed pump depth minus 10 feet of water column above the pump for protection.

Note that the maximum yield for the replacement Mt. Simon well (proposed Well No. 8) was not calculated since it is limited to the current permitted rate of 600 gpm; however, based on the specific capacity from Test Well 10, the theoretical drawdown in this well is estimated to be approximately 75 feet at 600 gpm.

WELL INTERFERENCE EVALUATION

A well interference evaluation was completed in the Focus Area for wells in the TCW aquifer (Wells No. 3, 6, 7) and assuming proposed Well No. 10 is installed on the Parcel and constructed in the TCW. LRE assumed Well No. 3 pumps continuously for 12 hours at 75 gpm, and Wells No. 6 and 7 pump continuously for 12 hours at approximately 275 gpm. The rates were based on the 2021 reported annual withdrawals from these wells and assuming a 12-hour day pumping period. Proposed Well No. 10 was assumed pump

at 400 gpm. The results indicate the wells can meet these rates assuming periods of recovery between pumping cycles.

FUTURE POTENTIAL WELL FIELD AREAS

Figure 10 shows general locations where future well fields could be located in the bedrock aquifers (other than the Mt. Simon). The locations are labelled Area A through Area D. Areas B and D would target the Jordan aquifer or underlying TCW, and Area A and C are limited to the TCW. These areas were selected because the aquifers at these locations have greater extents and thicknesses.

Although it was beyond the scope of this Assessment, there are several sand and gravel aquifers associated with the buried bedrock valleys that could provide high well capacities.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this Assessment and currently available information, the following conclusions and recommendations are provided.

Figure 9 shows the Parcel identified by the City for a possible water treatment plant location and area for locating proposed Wells No. 8, 9 and 10. This includes the location of existing Test Well No. 10. LRE's well siting evaluation focused on this Parcel.

The results of the Assessment indicate Proposed Wells No. 8 and 9 would have the capacity meet the 2,000 gpm demand if constructed in the Mt. Simon and Joran aquifers, respectively.

- **Proposed Well No. 8** - Replace Mt. Simon aquifer Well No. 4 with a new Mt. Simon aquifer well. The pumping rate of the new well cannot exceed the current permitted rate of 600 gpm.
- **Proposed Well No. 9** - Install a new municipal well in the Jordan aquifer with an estimated pumping rate of 1,500 gpm.
 - Assuming a specific capacity of 25 gpm/ft (based on test data from Traut), the drawdown in the well would be approximately 60 feet. This would leave 65 feet of water column above the top of the aquifer.

- Higher capacities are anticipated with a larger diameter well (e.g., 16 inch).
 - Consider installing a larger diameter test well in the Jordan aquifer at this location and conducting an aquifer pumping test at or near 1,500 gpm rate for a minimum of 3 days.
 - If the City decides to forego the test well, the test should be conducted on Proposed Well No. 9 after it is constructed.
 - There is potential for well interference with other private Jordan wells, or overlying sand and gravel wells in the vicinity of the Parcel. The City should identify these prior to any testing and discuss with the DNR.
 - A second Jordan well could be installed to reduce the drawdown in a single Jordan well, increase the total withdrawal from the Jordan, or provide redundancy.
- **Proposed Well No. 10** (if needed) – If Proposed Wells No. 8 and 9 cannot meet the combined 2,000 gpm demand on the Parcel, a TCW could also be installed. The maximum pumping rate for this well should not exceed 400 gpm considering well interference from other TCW wells in the area.
 - Water level monitoring of the TCW should be conducted on the Parcel before proceeding and to estimate the influence from Wells No. 3, 6 and 7.
 - There is potential for well interference with other private TCW wells.

Thank you for the opportunity to assist AE2S and the City with this Assessment. Please email me at dave.hume@LREwater.com, or call me at (612) 805-0919 if you have any questions or need additional information.

Sincerely,

LRE WATER



Dave Hume, PG
VP Midwest Operations

REFERENCES

Berg, J.A., 2021, Groundwater atlas of Hennepin County, Minnesota: Minnesota Department of Natural Resources, County Atlas Series C-45, Part B, report, 3 pls., GIS files.

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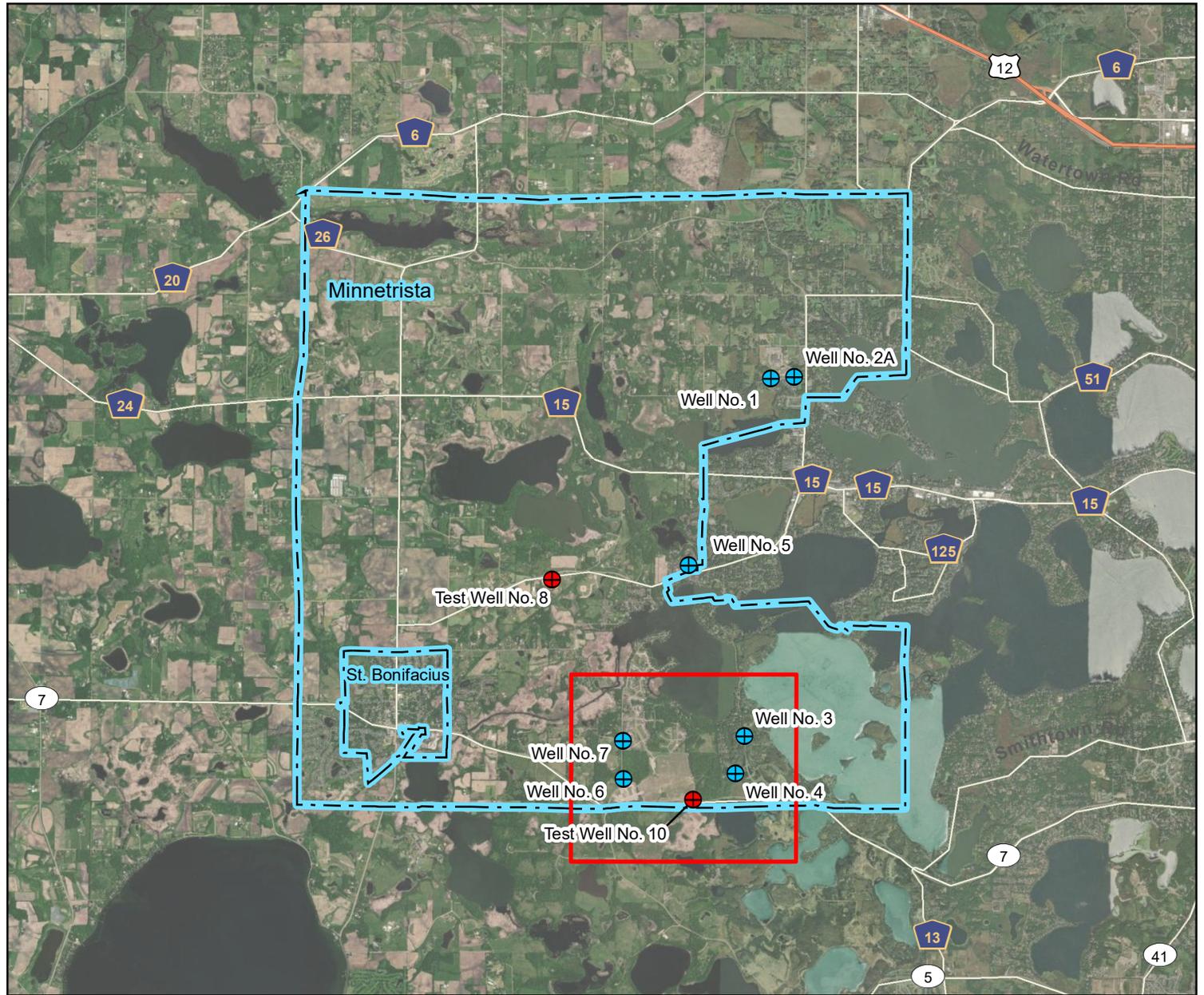
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Rorabaugh, M.J., 1953. Graphical and theoretical analysis of step-drawdown test of artesian well, *Proc. Amer. Soc. Civil Engrs.*, vol. 79, separate no. 362, 23 pp.

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-  City Well
-  City Test Well
-  City Boundaries
-  Focus Area for Proposed City Public Supply Wells No. 8, 9 and 10



Notes:
Locations are approximate and not survey grade.

Sources:
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Well locations are from the MWI Well Index database.

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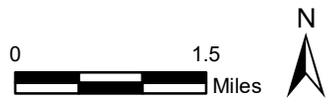


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AE2S		
DESKTOP HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION MINNETRISTA, MN		
STUDY AREA AND LOCATIONS OF CITY'S ACTIVE WELLS AND TEST WELLS		
FILE: 5013AEN08_01a.MXD	DATE: 5/31/2023	FIGURE: 1

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-  City Well
 -  City Test Well
 -  City Boundaries
 -  Fault
 -  Cross Section Line Used in Hennepin County Groundwater Atlas
 -  LRE Cross Section Transect
 -  Section of Cross Sections A-A' and B-B' that are coincident
- Bedrock Geology**
-  Od, Decorah Shale
 -  Opg, Platteville Fm & Glenwood Fm
 -  Os, St. Peter Sandstone
 -  Ops, Prairie du Chain Grp, Shakopee Fm
 -  Opo, Prairie du Chain, Grp, Oneota Dolomite
 -  Cj, Jordan Sandstone
 -  Cs, St. Lawrence Fm
 -  Ctm, Tunnel City Grp, Mazomanie Fm
 -  Ctl, Tunnel City Grp, Lone Rock Fm
 -  Cw, Tunnel City Grp, Wonewoc Sandstone
 -  Ce, Eau Claire Fm
 -  Cm, Mt. Simon Sandstone



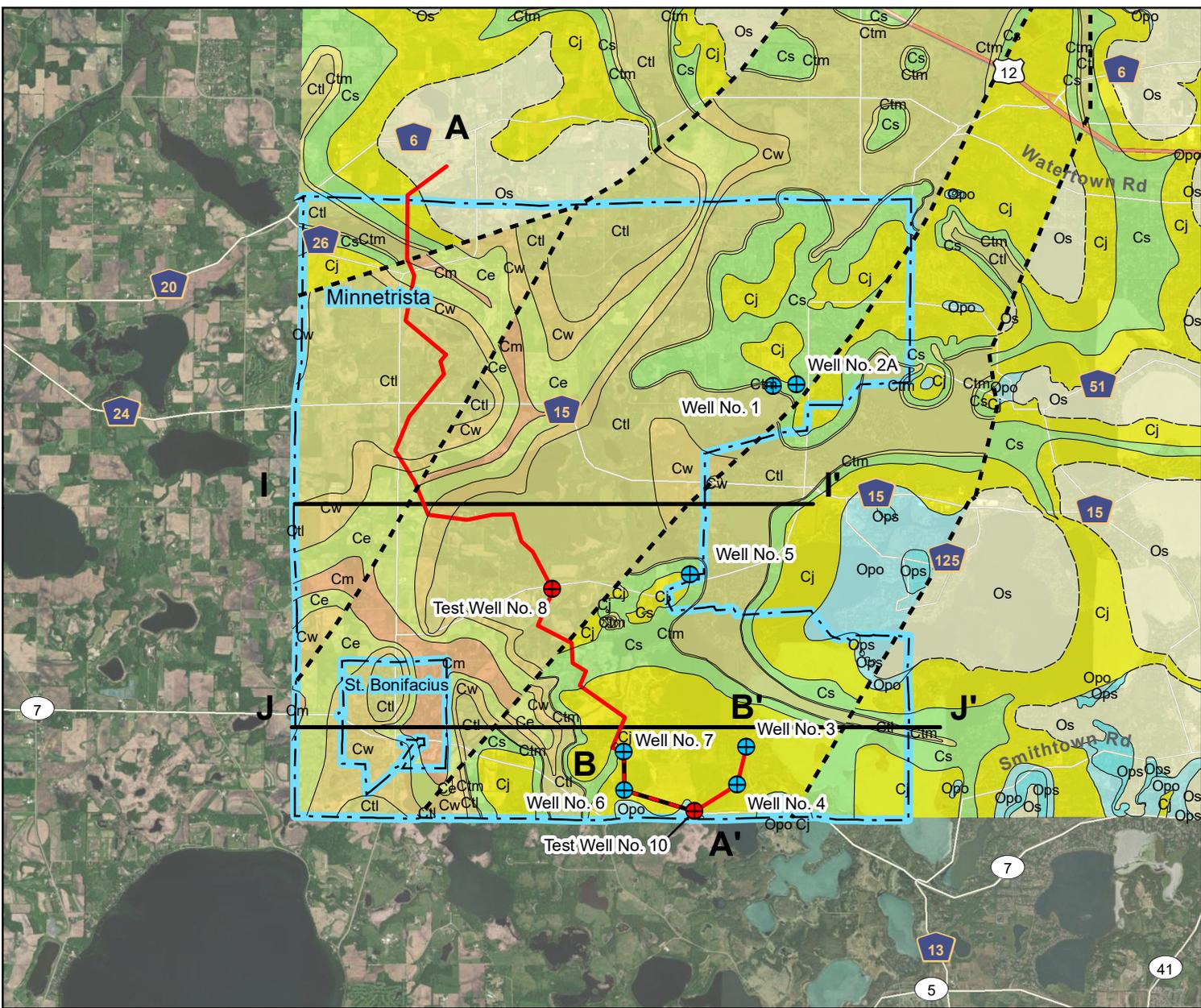
Notes:
Locations are approximate and not survey grade.

Sources:
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Well locations are from the MWI Well Index database.

Bedrock geology and fault locations MN DNR 2018 Hennepin County Bedrock Geology Atlas, Plate 2.

Cross section partial lines from transects I-I' and J-J' are from the MN DNR 2021 Hennepin County Groundwater Atlas, Plate 9.



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<p>AE2S DESKTOP HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION MINNETRISTA, MN</p>		
<p>FIRST ENCOUNTERED BEDROCK GEOLOGY WITH CROSS SECTION TRANSECTS</p>		
FILE: 5013AEN08_011.MXD	DATE: 4/26/2023	FIGURE: 2

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-  City Well
 -  City Test Well
- Elevation of Bedrock Surface**
-  High : 847.539
 -  Low : 507.277
 -  -700- Contour Line
 -  LRE Cross Section Transect
 -  Section of Cross Sections A-A' and B-B' that are coincident



Notes:

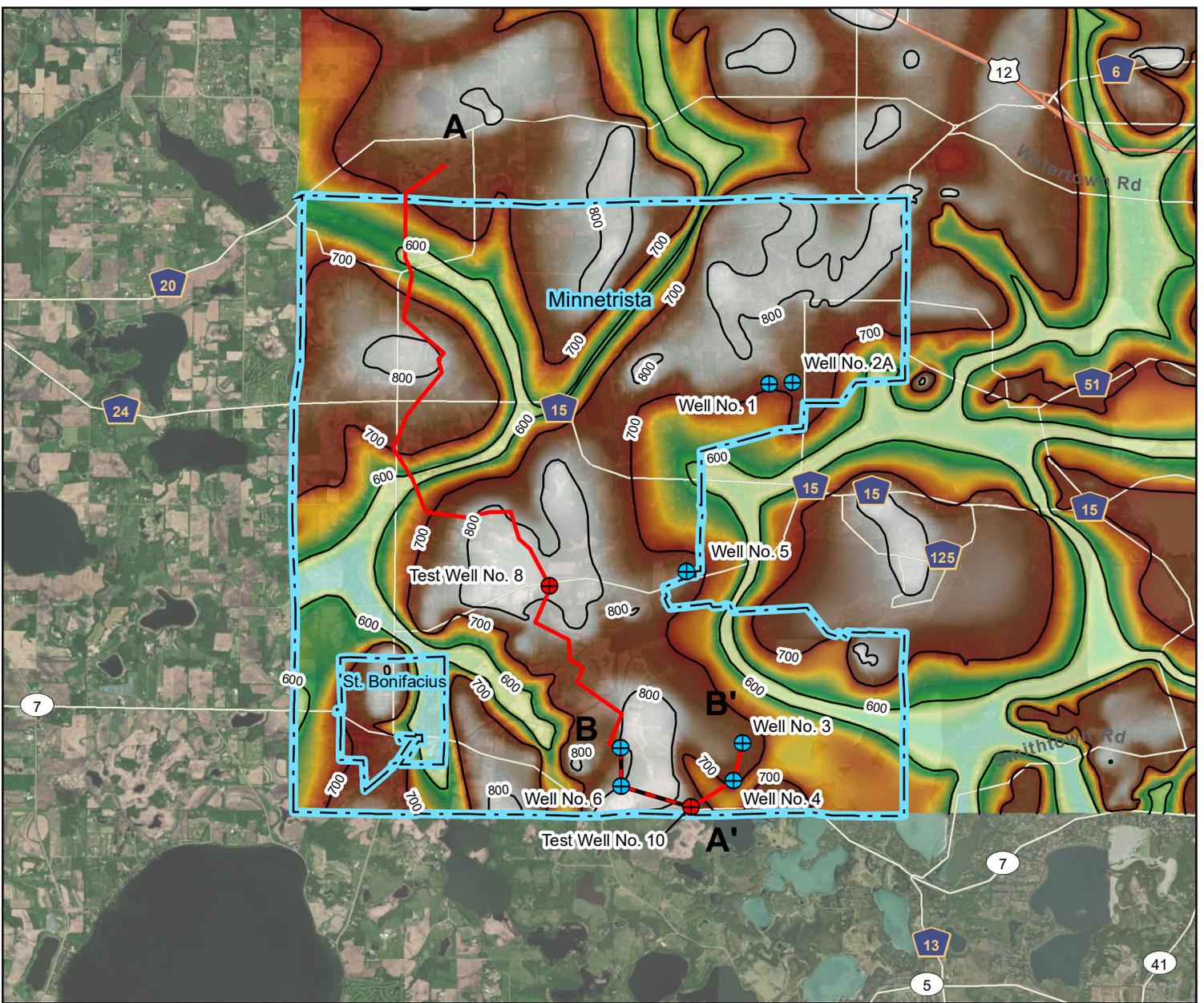
Locations are approximate and not survey grade.

Sources:

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Well locations are from the MWI Well Index database.

Bedrock surface topography was from the Hennepin County Geologic Atlas.



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AE2S DESKTOP HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION MINNETRISTA, MN		
BEDROCK SURFACE TOPOGRAPHY AND CROSS SECTION TRANSECTS		
FILE: 5013AEN08_01k.MXD	DATE: 5/31/2023	FIGURE: 3

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Bedrock

Interpreted tritium age is indicated by pattern color.
See Figure 6 in the report for geologic unit correlation.

-  Od Decorah Shale*
-  Opg Platteville and Glenwood
-  Os St. Peter
-  Ops Shakopee
-  Opo Oneota Dolomite*
-  Cj Jordan
-  Cs St. Lawrence Formation*
-  Ctm Upper Tunnel City (includes unmapped part of underlying unit)
-  Ctl Lower Tunnel City Group*
-  Cw Wonewoc
-  Ce Eau Claire Formation*
-  Cm Mt. Simon
-  Mss Hinckley, Solor Church, Fond du Lac
-  Mbv North Branch mafic volcanic sequence
-  Mcv Chengwatana volcanic rock

*aquitard

Tritium age

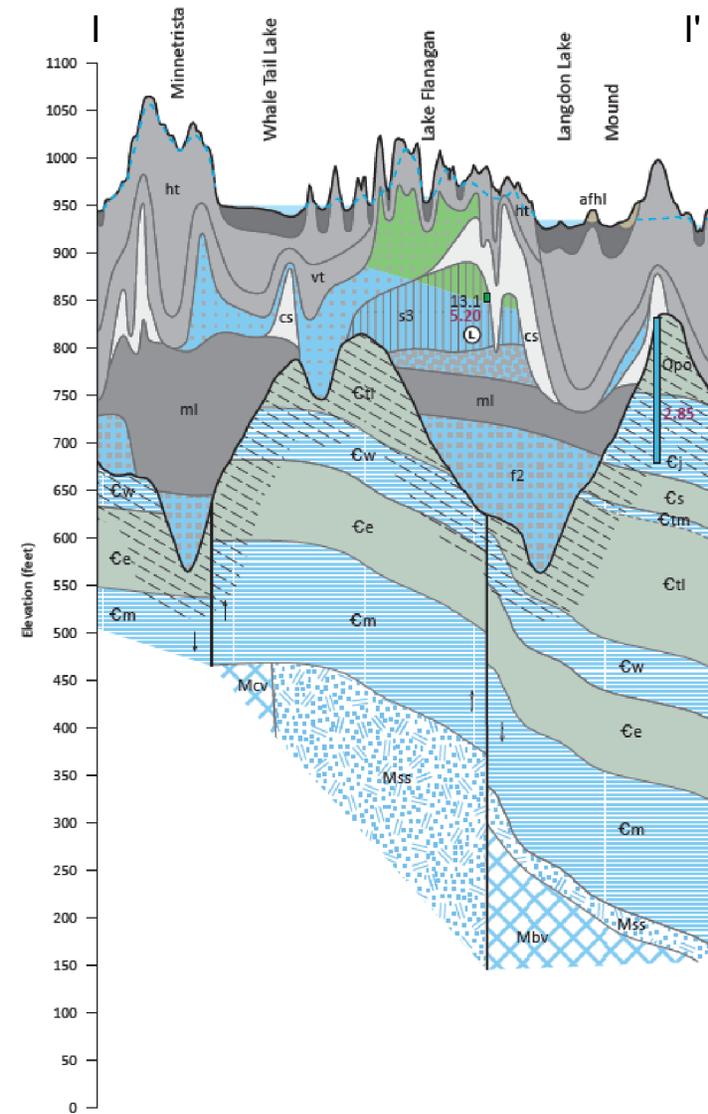
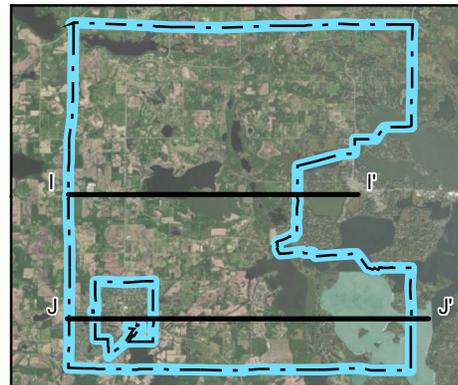
Darker color in small vertical rectangle (well screen symbol) indicates tritium age of water sampled in well. Lighter color indicates interpreted age of water in aquifer. Well casings (thin vertical lines) are not shown on cross sections to avoid obscuring other information.

-  Modern: water entered the ground since about 1953.
-  Mixed: water is a mixture of modern and premodern waters.
-  Mostly premodern*: tritium not detected and the premodern threshold is below the detection limit.
-  Premodern: water entered the ground before 1953.
-  Well not sampled for tritium.

*These samples are referred to as "premodern" in the report. Both "mostly premodern" and "premodern" are shown on plates and figures for consistency with the dataset.

Sources:

Cross sections are from the MN DNR 2021 Hennepin County Groundwater Atlas, Plate 9.



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<p>AE2S DESKTOP HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION MINNETRISTA, MN</p>		
<p>MN DNR HYDROGEOLOGIC CROSS SECTION I - I'</p>		
<p>FILE: 5013AEN08_01g.MXD</p>	<p>DATE: 5/31/2023</p>	<p>FIGURE: 4</p>

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Bedrock

Interpreted tritium age is indicated by pattern color.
See Figure 6 in the report for geologic unit correlation.

- Od Decorah Shale*
- Opg Platteville and Glenwood
- Os St. Peter
- Ops Shakopee
- Opo Oneota Dolomite*
- Cj Jordan
- Cs St. Lawrence Formation*
- Ctm Upper Tunnel City (includes unmapped part of underlying unit)
- Ctl Lower Tunnel City Group*
- Cw Wonewoc
- Ce Eau Claire Formation*
- Cm Mt. Simon
- Mss Hinckley, Solor Church, Fond du Lac
- Mbv North Branch mafic volcanic sequence
- Mcv Chengwatana volcanic rock

*aquitard

Tritium age

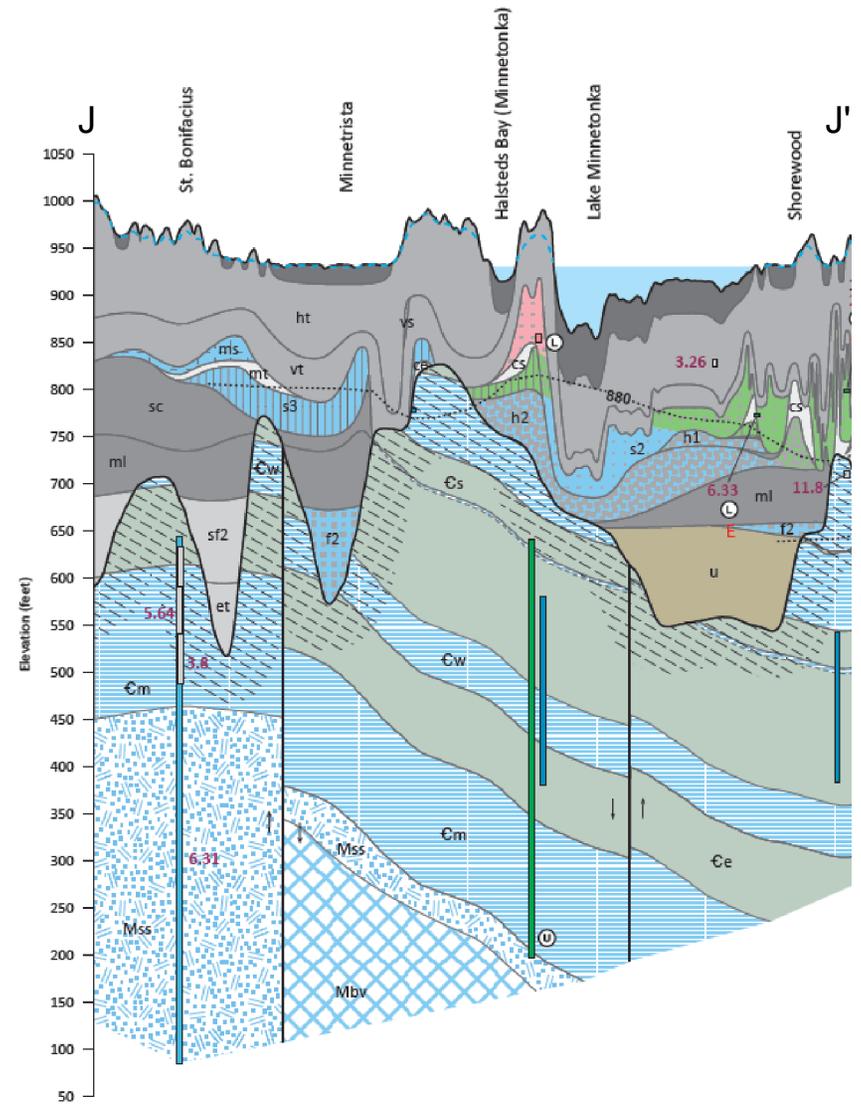
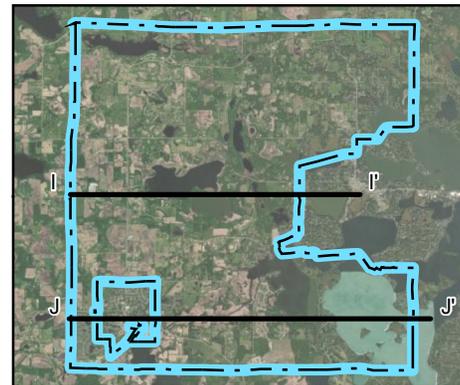
Darker color in small vertical rectangle (well screen symbol) indicates tritium age of water sampled in well. Lighter color indicates interpreted age of water in aquifer. Well casings (thin vertical lines) are not shown on cross sections to avoid obscuring other information.

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- Premodern: water entered the ground before 1953.
- Well not sampled for tritium.

*These samples are referred to as "premodern" in the report. Both "mostly premodern" and "premodern" are shown on plates and figures for consistency with the dataset.

Sources:

Cross sections are from the MN DNR 2021 Hennepin County Groundwater Atlas, Plate 9.

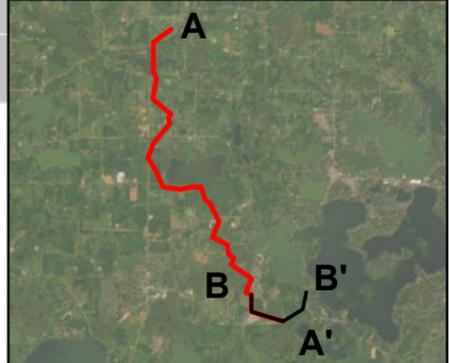
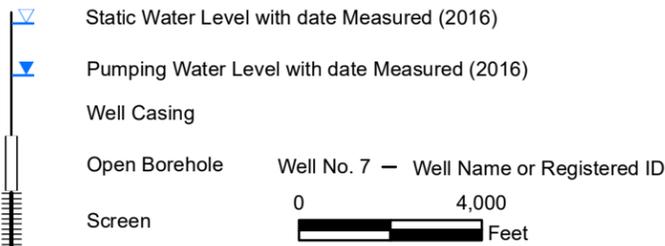
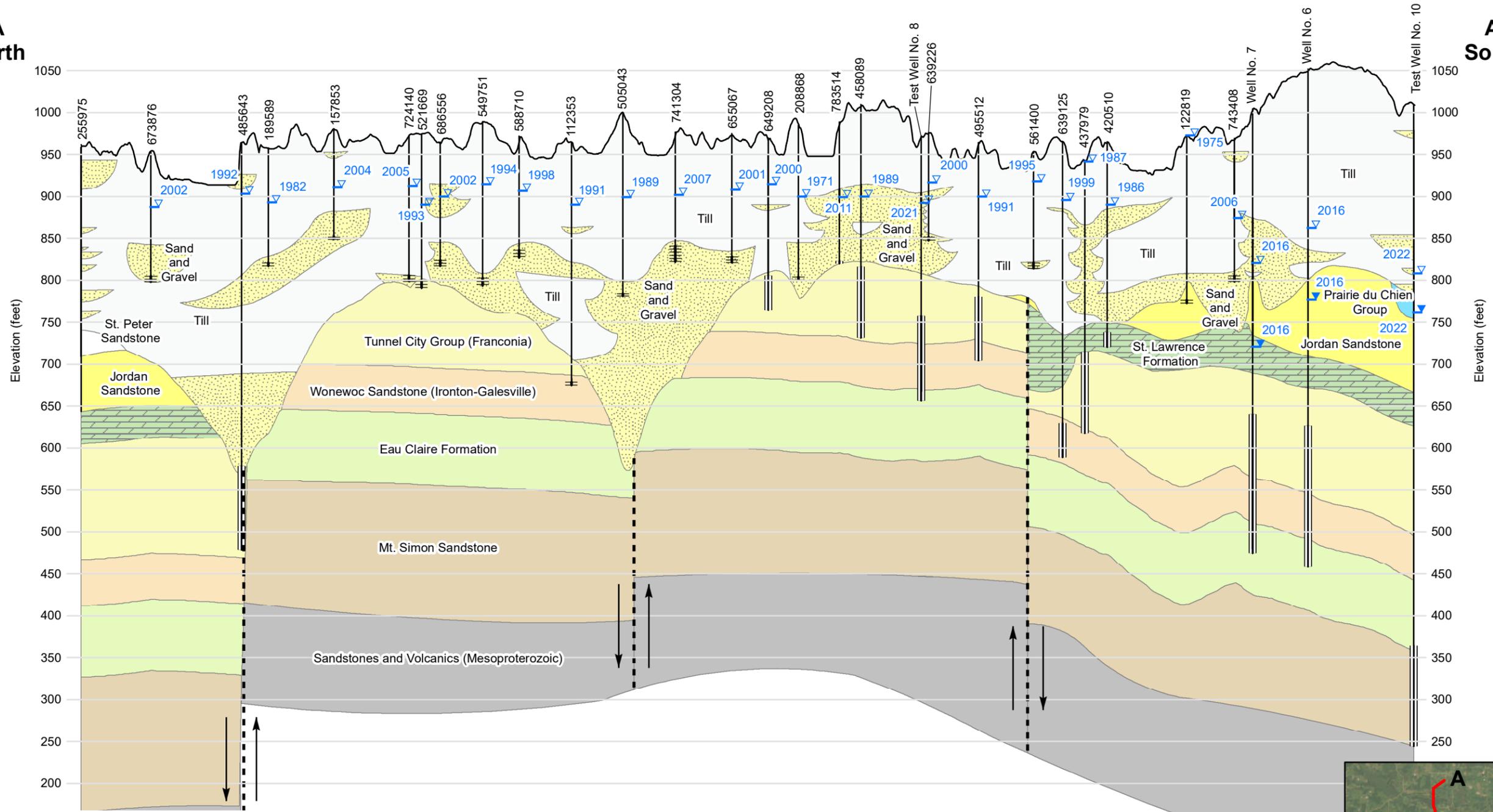


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<p>AE2S DESKTOP HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION MINNETRISTA, MN</p>	
<p>MN DNR HYDROGEOLOGIC CROSS SECTION J - J'</p>	
<p>FILE: 5013AEN08_01h.MXD</p>	<p>DATE: 5/31/2023 FIGURE: 5</p>

A
North

A'
South



- Geologic Contact (all contacts are inferred) - - - - -
- Till (Undifferentiated) - - - - -
- Sand and Gravel (Undifferentiated) - - - - -
- Prairie du Chien Group - - - - -
- St. Peter Sandstone - - - - -
- Jordan Sandstone - - - - -
- St. Lawrence Formation - - - - -
- Bedrock Fault - - - - -
- Tunnel City Group (Franconia) - - - - -
- Wonewoc Sandstone (Ironton-Galesville) - - - - -
- Eau Claire Formation - - - - -
- Mt. Simon Sandstone - - - - -
- Sandstones and Volcanics (Mesoproterozoic) - - - - -

Note: Geologic contacts are interpreted from well logs on the Minnesota Well Index (MWI). Bedrock surface topography and faults are interpreted from the Hennepin County Geologic Atlas.

Drawn: 4/26/2023
 Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Minnesota Well Index Database, Hennepin County Atlas



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AE2S
 HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION
 MINNETRISTA, MN

HYDROGEOLOGIC CROSS SECTION A-A'

C:\GIS\GIS\AE2S_Minnetrista\maps\5013AEN08_01j_xsect_A-A.mxd, 4/26/2023, 11:39:38 AM, NAD, 1983 StatePlane Minnesota South, FIPS 2203 Feet

C:\GIS\GIS\AE2S_Minnetrista\maps\5013AEN08_01d.mxd, 5/31/2023, 9:56:45 AM, NAD: 1983 UTM Zone 15N

-  City Well
-  City Test Well
-  City Boundaries
-  LRE Cross Section Transect



Notes:
Locations are approximate and not survey grade.

Sources:
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Well locations are from the MWI Well Index database.

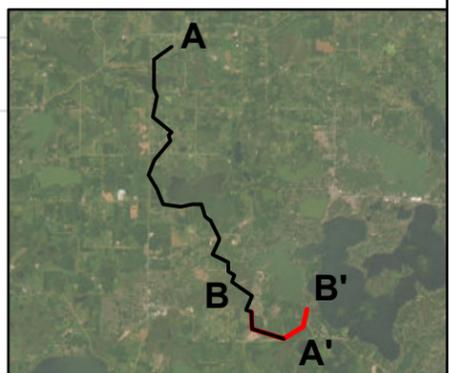
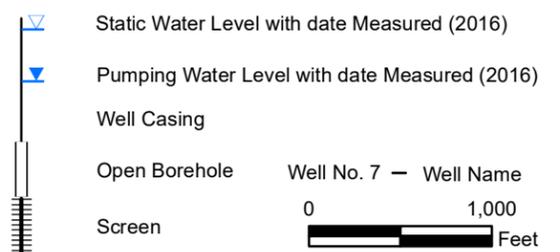
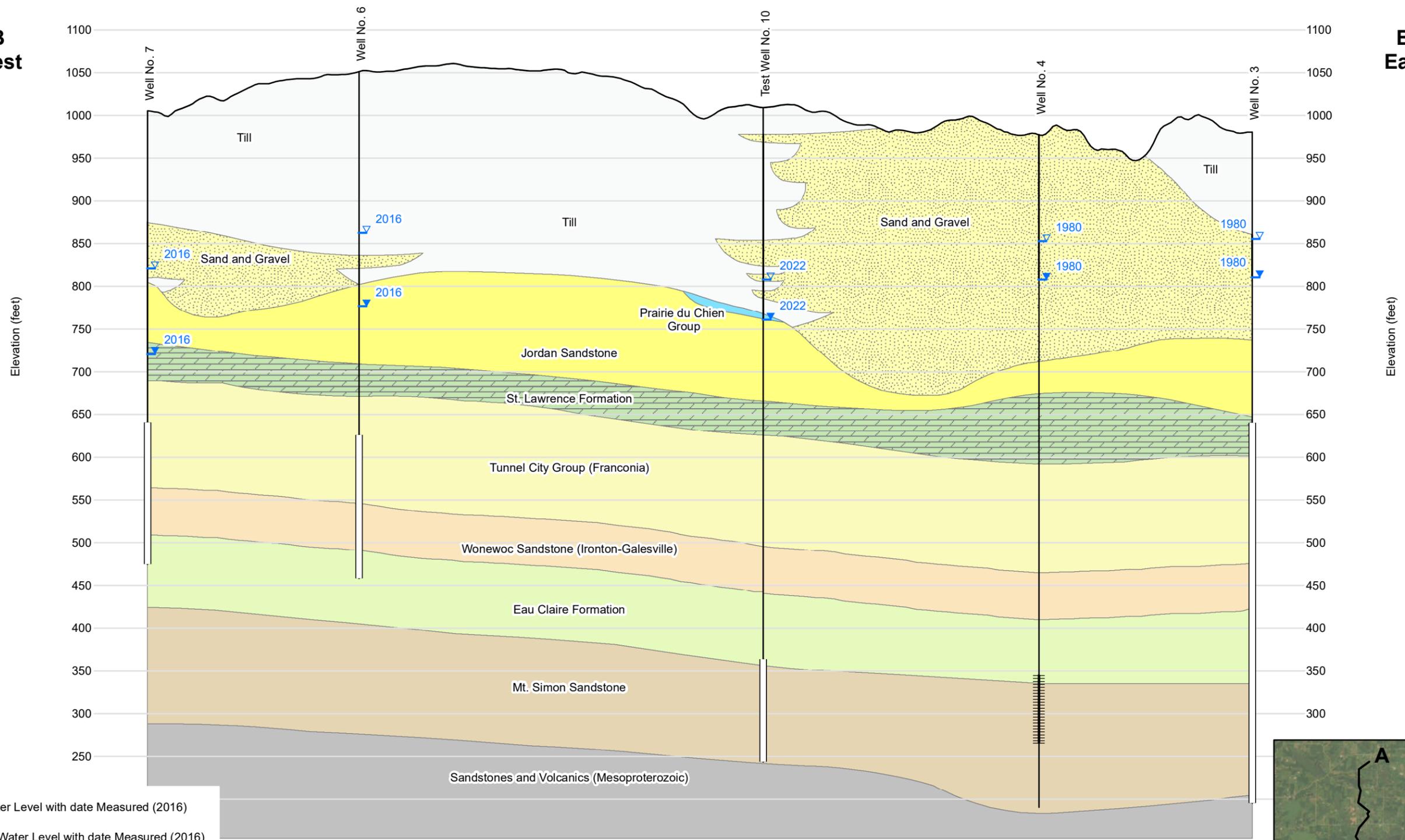


Prepared By:
LRE Water
Minneapolis / St. Paul Office
Minnesota
(612) 805-0919

AE2S DESKTOP HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION MINNETRISTA, MN		
TRANSECT B-B' THROUGH FOCUS AREA PROPOSED AREA MAP		
FILE: 5013AEN08_01d.MXD	DATE: 5/31/2023	FIGURE: 7

B
West

B'
East



- Geologic Contact (all contacts are inferred)
- Till (Undifferentiated)
- Sand and Gravel (Undifferentiated)
- Prairie du Chien Group
- St. Peter Sandstone
- Jordan Sandstone
- St. Lawrence Formation
- Tunnel City Group (Franconia)
- Wonewoc Sandstone (Ironton-Galesville)
- Eau Claire Formation
- Mt. Simon Sandstone
- Sandstones and Volcanics (Mesoproterozoic)

Note: Geologic contacts are interpreted from well logs on the Minnesota Well Index (MWI). Bedrock surface topography and faults are interpreted from the Hennepin County Geologic Atlas.

Drawn: 4/26/2023
 Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Minnesota Well Index Database



Prepared By:
LRE Water
 Minnesota Office
 Minneapolis / St. Paul
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AE2S
 HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION
 MINNETRISTA, MN

HYDROGEOLOGIC CROSS SECTION B-B'

C:\GIS\GIS\AE2S_Minnetrista\maps\5013AEN08_01e_xsect_B-B.mxd, 4/26/2023, 11:28:57 AM, NAD 1983 StatePlane Minnesota South FIPS 2203 Feet

C:\GIS\GISAE2S_Minnetrista\maps\5013AEN08_01c.mxd, 5/31/2023, 9:43:11 AM, NAD 1983 UTM Zone 15N

-  City Test Well
-  Proposed City Well
-  City Boundaries
-  Parcel for City Wells No. 8, 9 and 10



Notes:
 Locations are approximate and not survey grade.

Final setback distances for proposed Well No.8, 9 and 10 need to be confirmed in the field.

Sources:
 Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 Well locations are from the MWI Well Index database.



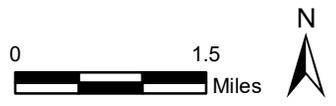
Prepared By:
LRE Water
 Minneapolis / St. Paul Office
 Minnesota
 (612) 805-0919

AE2S DESKTOP HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION MINNETRISTA, MN		
PARCEL OF INTEREST FOR PROPOSED CITY WELLS NO. 8, 9 AND 10		
FILE: 5013AEN08_01c.MXD	DATE: 5/31/2023	FIGURE: 9

C:\GIS\GIS\AE2S_Minnetristis\maps\5013A\EN08_01m.mxd, 5/31/2023, 1:53:26 PM, NAD 1983 UTM Zone 15N

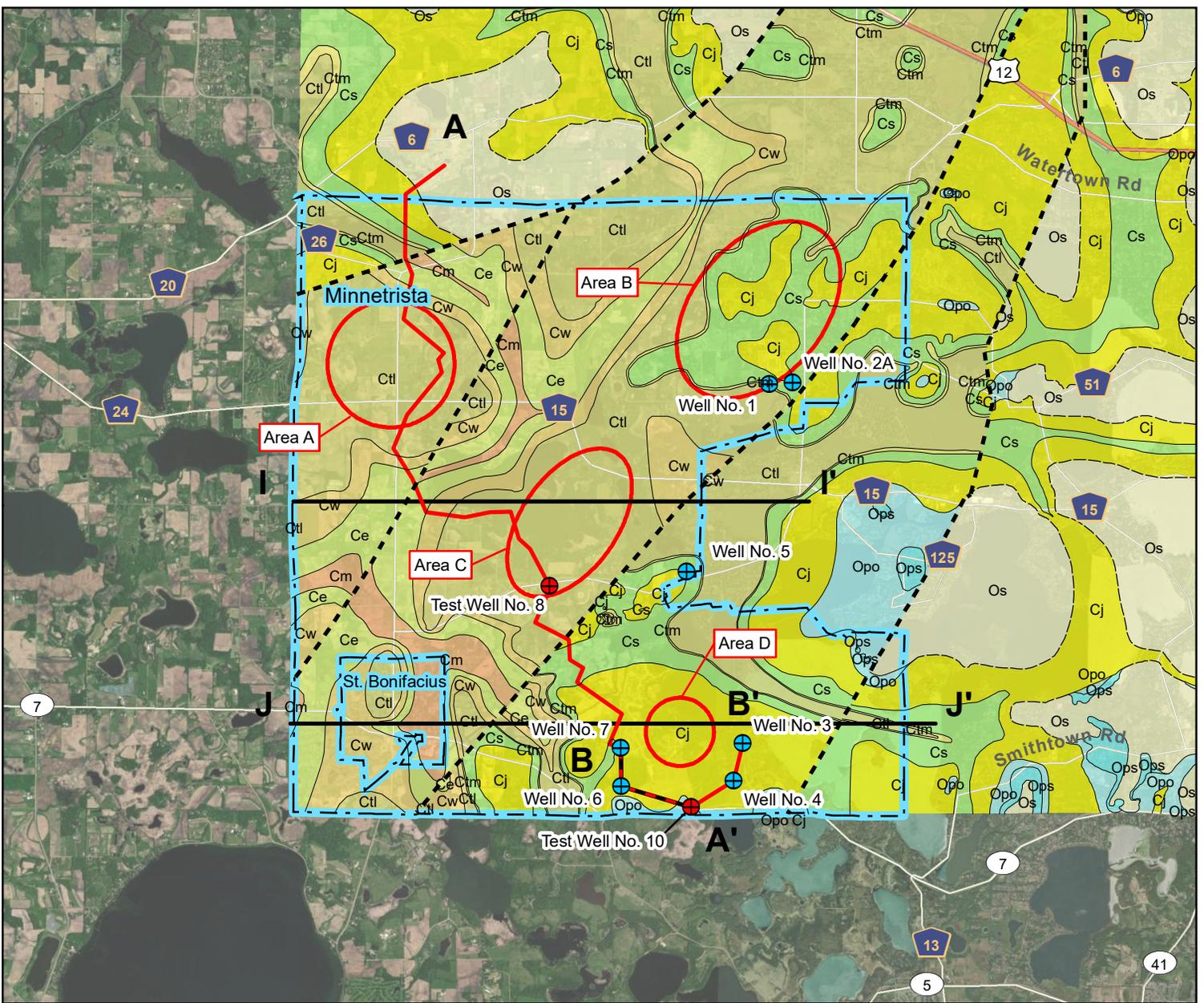
-  City Well
-  City Test Well
-  City Boundaries
-  Fault
-  Cross Section Line Used in Hennepin County Groundwater Atlas
-  LRE Cross Section Transect
-  Section of Cross Sections A-A' and B-B' that are coincident
-  Future Well Field Development Areas

- Bedrock Geology**
-  Od, Decorah Shale
 -  Opg, Platteville Fm & Glenwood Fm
 -  Os, St. Peter Sandstone
 -  Ops, Prairie du Chain Grp, Shakopee Fm
 -  Opo, Prairie du Chain, Grp, Oneota Dolomite
 -  Cj, Jordan Sandstone
 -  Cs, St. Lawrence Fm
 -  Ctm, Tunnel City Grp, Mazomanie Fm
 -  Ctl, Tunnel City Grp, Lone Rock Fm
 -  Cw, Tunnel City Grp, Wonewoc Sandstone
 -  Ce, Eau Claire Fm
 -  Cm, Mt. Simon Sandstone



Notes:
Locations are approximate and not survey grade.

Sources:
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Well locations are from the MWI Well Index database.
Bedrock geology and fault locations MN DNR 2018 Hennepin County Bedrock Geology Atlas, Plate 2.
Cross section partial lines from transects I-I' and J-J' are from the MN DNR 2021 Hennepin County Groundwater Atlas, Plate 9.



Prepared By:
LRE Water
Minneapolis / St. Paul Office
Minnesota
(612) 805-0919

AE2S		
DESKTOP HYDROGEOLOGIC ASSESSMENT FOR WELL FIELD EXPANSION		
MINNETRISTA, MN		
FUTURE POTENTIAL WELL FIELD DEVELOPMENT AREAS IN		
THE JORDAN OR TCW AQUIFERS		
FILE: 5013AEN08_01m.MXD	DATE: 5/31/2023	FIGURE: 10

ATTACHMENT 1

CITY WELL LOGS

208864

County Hennepin
 Quad Mound
 Quad ID 105B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
 Update Date 03/30/2015
 Received Date

Well Name MINNETRISTA 1	Township 117	Range 24	Dir Section W 11	Subsection DCACBA	Well Depth 678 ft.	Depth Completed 678 ft.	Date Well Completed 02/01/1971
Elevation 980 ft.	Elev. Method 7.5 minute topographic map (+/- 5 feet)				Drill Method Cable Tool	Drill Fluid	
Address					Use public supply/community	Status Active	
Contact 7701 110 CR W MINNETRISTA MN 55364-9552					Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> From To		
Well GAMEFARM RD MINNETRISTA MN 55364					Casing Type Single casing Joint Welded		
Stratigraphy Information					Drive Shoe? Yes <input type="checkbox"/> No <input type="checkbox"/> Above/Below		
Geological Material	From	To (ft.)	Color	Hardness	Casing Diameter Weight		
CLAY	0	20	BROWN		16 in. To	264 ft.	lbs./ft.
CLAY	20	60	GRAY				
SANDY CLAY STONES	60	70	GRAY				
CEMENTED SAND	70	142	GRAY				
SAND-COARSE	142	155	BROWN				
SANDY CLAY	155	168	TAN				
SANDY CLAY	168	176	TAN				
STONES-ROCKS	176	177	BROWN				
GRAVEL	177	178	TAN				
STONES-ROCK	178	179	BROWN				
GRAVEL	179	185	TAN				
CLAY STONES	185	195	BROWN				
CLAY	195	200	GRAY				
CLAY STONES	200	210	GRAY				
SANDY CLAY	210	225	BRN/RED				
SHALE	225	233	LIGHT				
JORDAN AND	233	250	BROWN				
JORDAN AND	250	265	LIGHT				
ST. LAWRENCE	265	300	GREEN				
SANDSTONE, SHALE	300	375	BLU/RED				
FRANCONIA SHALE	375	380	RED				
FRANCONIA	380	390	TAN				
FRANCONIA SHALE	390	420	GREEN				
GALESVILLE &	420	465	TAN				
SHALE	465	467	TAN				
SANDSTONE	467	480	WHITE				
SHALE	480	503	TAN				
EAU CLAIRE SHALE	503	515	GREEN				
SANDSTONE	515	520	GRAY				
SHALE	520	530					
EAU CLAIRE SHALE	530	540	GREEN				
EAU CLAIRE	540	600					
GALESVILLE	600	670					
EAU CLAIRE	670	678					
Remarks					Open Hole From 264 ft. To 678 ft.		
DICK BIALON 466-1660 MP=1.5.					Screen? <input type="checkbox"/> Type Make		
M.G.S. NO. 617. INTERVAL 233-265 SAMPLE INDICATES REWORKED BEDROCK.					Static Water Level		
					75 ft. land surface Measure 02/01/1971		
					Pumping Level (below land surface)		
					145 ft. hrs. Pumping at 1200 g.p.m.		
					Wellhead Completion		
					Pitless adapter manufacturer Model		
					<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade		
					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified		
					Nearest Known Source of Contamination		
					feet Direction Type		
					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Pump <input checked="" type="checkbox"/> Not Installed Date Installed		
					Manufacturer's name		
					Model Number HP Volt		
					Length of drop pipe ft Capacity g.p. Typ		
					Abandoned		
					Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Variance		
					Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Miscellaneous		
					First Bedrock Tunnel City Group Aquifer Tunnel City-Mt.		
					Last Strat Mt.Simon Sandstone Depth to Bedrock 265 ft		
					Located by Minnesota Department of Health		
					Locate Method GPS SA On (averaged) (100 meters)		
					System UTM - NAD83, Zone 15, Meters X 446944 Y 4977849		
					Unique Number Verification Input Date 10/12/1999		
					Angled Drill Hole		
					Well Contractor		
					Renner E.H. & Sons 02015		
					Licensee Business Lic. or Reg. No. Name of Driller		
Minnesota Well Index Report				208864		Printed on 03/27/2023 HE-01205-15	

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
 Minnesota Statutes, Chapter 103I

MINNESOTA UNIQUE WELL
 AND BORING NO.

773393

WELL OR BORING LOCATION
 County Name
Hennepin

Township Name **Minnereista** Township No. **117** Range No. **24** Section No. **11** Fraction **ne se se**

WELL/BORING DEPTH (completed) **498 feet** DATE WORK COMPLETED **August 31, 2010**

GPS LOCATION: Latitude **44deg 57.143min** Longitude **093deg 40.078min**

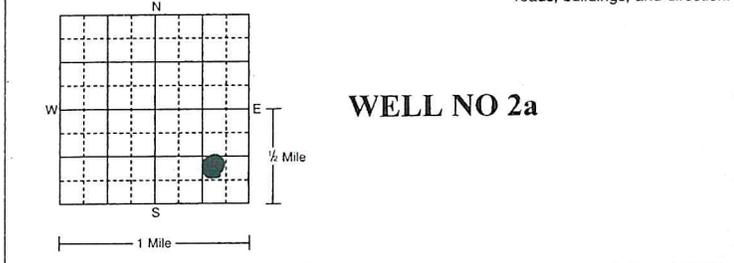
DRILLING METHOD
 Cable Tool Driven Dug
 Auger Rotary Jetted

House Number, Street Name, City, and Zip Code of Well Location
5666 Game Farm Road, Minnetrista, MN

DRILLING FLUID **Bentonite/Water** WELL HYDROFRACTURED? Yes No

Show exact location of well/boring in section grid with "X." Sketch map of well/boring location. Showing property lines, roads, buildings, and direction.

USE
 Domestic Monitoring Heating/Cooling
 Noncommunity PWS Environ. Bore Hole Industry/Commercial
 Community PWS Irrigation Remedial
 Elevator Dewatering



CASING MATERIAL Drive Shoe? Yes No
 Steel Threaded Welded
 Plastic

PROPERTY OWNER'S NAME/COMPANY NAME
CITY OF MINNETRISTA

CASING Diameter **30** Weight **118.65** Specifications **A53** HOLE DIAM. **30**
24 in. to **385.0** ft. **94.62** lbs./ft. **5-L** in. to **498.0** ft.

Property owner's mailing address if different than well location address indicated above.
7701 CO RD 110W

Minnetrista, MN 55364
Phone: (952) 446-1312

SCREEN OPEN HOLES **385'** **498'**
 Make _____ From _____ ft. To _____ ft.
 Type _____ Diam. _____
 Slot/Gauze _____ Length _____
 Set between _____ ft. and _____ ft. FITTINGS _____

WELL OWNER'S NAME/COMPANY NAME
CITY OF MINNETRISTA

STATIC WATER LEVEL Measured from _____
81.7' ft. Below Above land surface Date measured **8/17/10**

Well/boring owner's mailing address if different than property owner's address indicated above.
Same as above

Attn: Mr. Robin Bowman
Phone: (951) 446-1312

PUMPING LEVEL (below land surface)
205.3 ft. after **24.0 hrs** hrs. pumping **500** g.p.m.

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
Clay & Gravel	Bm/Grey	Medium	0	136
Sand	Grey	Soft	136	162
Sand/Grvl/Clay	Brown	Medium	87	247
St Lawrence shale	Brown	Med H	248	278
Lone Rock-sandstone	Grn/Wht	Hard	278	420
Wonewoc sandstone	Brown	Medium	420	490
Eau Claire shale	Grn/Tan	Medium	490	498

WELLHEAD COMPLETION
 Pitless/adaptor manufacturer **Pitless** Model **8PS2426**
 Casing Protection 12 in. above grade
 At-grade (Environmental Well and Boring ONLY)

GROUTING INFORMATION
 Well grouted Yes No
 Grout materials Neat cement Bentonite Concrete Other _____
 From **0** To **385** ft. **24.0** Yds. Bags
 From _____ To _____ ft. _____ Yds. Bags
 From _____ To _____ ft. _____ Yds. Bags

REMARKS, ELEVATION, SOURCE OF DATA, etc.
MGS cutting set
Elevation: 980.0 ft MSGS Quad: B105
WSB-Kevin Newman (763) 512-5240
Roger E. Renner, MGWC

NEAREST KNOWN SOURCE OF CONTAMINATION
53 feet **SOUTH** direction **SANITARY** type
 Well disinfected upon completion? Yes No

PUMP
 Not installed Date installed **30 Sep, 2010**
 Manufacturer's name **GOULD**
 Model Number **11WAHC** HP **75HP** Volts **460V/3PH**
 Length of drop pipe **260** ft. Capacity **500 @ 404tdh** g.p.m.
 Type: Submersible L.S. Turbine Reciprocating Jet

ABANDONED WELLS
 Does property have any not in use and not sealed well(s)? Yes No
 VARIANCE
 Was a variance granted from the MDH for this well? Yes No TN# _____

WELL CONTRACTOR CERTIFICATION
 This well was drilled under my supervision and in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

MINN. DEPT. OF HEALTH COPY **773393**

E.H. Renner & Sons, Inc. **1431**
 Licensee Business Name Lic. or Reg. No.

 Certified Representative Signature Certified Rep. No. Date **9/30/10**
ARNIE COX **9/30/10**
 Name of Driller

161408

County Hennepin
 Quad Mound
 Quad ID 105B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 08/24/1991
 Update Date 03/10/2017
 Received Date

Well Name MINNETRISTA 3	Township 117	Range 24	Dir Section W 35	Subsection BDACAD	Well Depth 785 ft.	Depth Completed 785 ft.	Date Well Completed 08/24/1980
Elevation 981 ft.	Elev. Method LiDAR 1m DEM (MNDNR)				Drill Method Cable Tool	Drill Fluid	
Address					Use public supply/community	Status Active	
Contact 7701 110 CR W MINNETRISTA MN 55364					Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> From To		
Well 4270 44 CR MINNETRISTA MN 55364					Casing Type Step down Joint Welded		
Stratigraphy Information					Drive Shoe? Yes <input type="checkbox"/> No <input type="checkbox"/> Above/Below		
Geological Material	From	To (ft.)	Color	Hardness	Casing Diameter	Weight	Hole Diameter
SANDY CLAY	0	120	YELLOW		16 in. To 340 ft. 62 lbs./ft.		24 in. To 340 ft.
MUDDY SAND	120	243	YELLOW		24 in. To 244 ft. 98 lbs./ft.		16 in. To 785 ft.
MUDDY SAND	243	244	YELLOW				
SAND ROCK	244	322	YELLOW				
HARD GREEN SHALE	322	333					
RED ROCK	333	336					
SHALE	336	379					
SHALE	379	505					
SAND ROCK W/SHALE	505	512					
SAND ROCK W/SHALE	512	560					
SAND ROCK W/SHALE	560	595					
SAND ROCK	595	645					
SAND ROCK	645	775					
SHALE	775	785	RED				
					Open Hole	From 340 ft.	To 785 ft.
					Screen? <input type="checkbox"/>	Type	Make
					Static Water Level		
					125 ft.	land surface	Measure 08/20/1980
					Pumping Level (below land surface)		
					170 ft.	40 hrs.	Pumping at 1000 g.p.m.
					Wellhead Completion		
					Pitless adapter manufacturer	Model	
					<input type="checkbox"/> Casing Protection	<input checked="" type="checkbox"/> 12 in. above grade	
					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified		
					Material	Amount	From To
					neat cement	52 Cubic yards	0 ft. 340 ft.
					Nearest Known Source of Contamination		
					feet	Direction	Type
					Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Pump <input checked="" type="checkbox"/> Not Installed	Date Installed	
					Manufacturer's name		
					Model Number	HP	Volt
					Length of drop pipe	ft	Capacity g.p. Typ
					Abandoned		
					Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Variance		
					Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Miscellaneous		
					First Bedrock	Jordan Sandstone	Aquifer Tunnel City-Mt.
					Last Strat	Mid.Prot. sed. undivided	Depth to Bedrock 243 ft
					Located by Minnesota Department of Health		
					Locate Method GPS SA On (averaged) (100 meters)		
					System	UTM - NAD83, Zone 15, Meters	X 446522 Y 4972189
					Unique Number Verification	Information from	Input Date 10/12/1999
					Angled Drill Hole		
					Well Contractor		
					Bergerson-Caswell	27058	HENRICH, E.
					Licensee Business	Lic. or Reg. No.	Name of Driller
Remarks							
DICK BIALON 466-1660 MP=3.4 WELL#3- MUNI WELL. M.G.S. NO. 1547. GAMMA LOGGED 5-27-1980. STONEBRIDGE ADD. OUTLOT A. GAMMA, CALIPER, AND MULTI TOOL LOGGED 2-14-2017. LOGGED FOR MDH. HYDROLAB ON 2-14-2014 BY MDH.							
Minnesota Well Index Report					161408		
					Printed on 03/27/2023 HE-01205-15		

638450County Hennepin
Quad Mound
Quad ID 105BMINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
Minnesota Statutes Chapter 1031Entry Date 03/22/2000
Update Date 01/12/2016
Received Date

Well Name MINNETRISTA 5	Township 117	Range 24	Dir Section W 22	Subsection DACADB	Well Depth 255 ft.	Depth Completed 253 ft.	Date Well Completed 12/10/1999
Elevation 1001	Elev. Method 7.5 minute topographic map (+/- 5 feet)				Drill Method Non-specified Rotary	Drill Fluid Bentonite	
Address					Use public supply/community	Status Active	
Contact 7701 110 CR W MINNETRISTA MN 55364-9552					Well Hydrofractured? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> From To		
Well 6587 SAUNDERS LAKE DR S MINNETRISTA MN 55364					Casing Type Step down Joint		
Stratigraphy Information					Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Above/Below		
Geological Material	From	To (ft.)	Color	Hardness	Casing Diameter	Weight	Hole Diameter
CLAY	0	21	BROWN		12 in. To	213 ft. lbs./ft.	24 in. To 96 ft.
SAND & GRAVEL	21	28	BROWN		20 in. To	96 ft. lbs./ft.	19 in. To 255 ft.
CLAY	28	31	GRAY				
SAND	31	43	BROWN				
CLAY	43	49	BROWN				
SAND	49	76	BROWN				
CLAY	76	94	BROWN				
SAND	94	108	GRAY				
SAND	108	171	GRAY				
GRAVEL & SHALE	171	254	BROWN				
SHALE	254	255	GREEN				
					Open Hole From ft. To ft.		
					Screen? <input checked="" type="checkbox"/> Type stainless Make JOHNSON		
					Diameter Slot/Gauze Length Set		
					12 in. 120 40 ft. 213 ft. 253 ft.		
					Static Water Level		
					94 ft. land surface Measure 12/10/1999		
					Pumping Level (below land surface)		
					250 ft. 47 hrs. Pumping at 1000 g.p.m.		
					Wellhead Completion		
					Pitless adapter manufacturer Model		
					<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade		
					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified		
					Material Amount From To		
					neat cement 7 Cubic yards 2 ft. 203 ft.		
					Nearest Known Source of Contamination		
					feet Direction Type		
					Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
					Pump <input checked="" type="checkbox"/> Not Installed Date Installed		
					Manufacturer's name		
					Model Number HP Volt		
					Length of drop pipe ft Capacity g.p. Typ		
					Abandoned		
					Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
					Variance		
					Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
					Miscellaneous		
					First Bedrock St.Lawrence Formation Aquifer Quat. buried		
					Last Strat St.Lawrence Formation Depth to Bedrock 254 ft		
					Located by Minnesota Department of Health		
					Locate Method GPS SA Off (averaged) (15 meters)		
					System UTM - NAD83, Zone 15, Meters X 445636 Y 4974896		
					Unique Number Verification Information from Input Date 01/08/2001		
					Angled Drill Hole		
					Well Contractor		
					Traut M.J. Well Co. 71536 BRUCE/LYLE		
					Licensee Business Lic. or Reg. No. Name of Driller		
Remarks							
SAUNDERS LAKE ADD. BLK 8 LOT 4.							
Minnesota Well Index Report					638450		
					Printed on 03/27/2023 HE-01205-15		

818311

County Hennepin
Quad Mound
Quad ID 105BMINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
Minnesota Statutes Chapter 1031Entry Date 05/31/2016
Update Date 08/12/2020
Received Date 10/06/2016

Well Name	Township	Range	Dir Section	Subsection	Well Depth	Depth Completed	Date Well Completed
MINNETRISTA 7	117	24	W 34	BCDAAA	530 ft.	517 ft.	07/15/2016
Elevation	1006	Elev. Method	LiDAR 1m DEM (MNDNR)				
Address							
Well	7701 110W CR MINNETRISTA MN 55364						
Contact	4342 KINGS POINT RD MINNETRISTA MN						
Stratigraphy Information							
Geological Material	From	To (ft.)	Color	Hardness			
SANDY LOAM/CLAY	0	5	BLK/YEL	MEDIUM			
CLAY W/ SOME	5	10	TAN	MEDIUM			
CLAY W/ FINE GRAVEL	10	15	TAN	MEDIUM			
CLAY W/ FINE GRAVEL	15	20	TAN	MEDIUM			
CLAY W/ FINE GRAVEL	20	25	TAN	MEDIUM			
CLAY W/ FINE GRAVEL	25	30	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	30	35	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	35	40	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	40	45	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	45	50	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	50	55	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	55	60	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	60	65	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	65	70	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	70	75	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	75	80	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	80	85	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	85	90	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	90	95	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	95	100	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	100	105	GRAY	MEDIUM			
CLAY W/ FINE GRAVEL	105	110	BROWN	MEDIUM			
CLAY W/ FINE GRAVEL	110	115	BROWN	MEDIUM			
CLAY W/ FINE GRAVEL	115	120	BROWN	MEDIUM			
CLAY W/ FINE GRAVEL	120	125	BROWN	MEDIUM			
CLAY W/ FINE GRAVEL	125	130	BROWN	MEDIUM			
BOULDERS BLK MULTI	130	135	BLACK	HARD			
BOULDER BLK MULTI	135	140	BLACK	HARD			
BOULDER BLK MULTI	140	145	BLACK	MEDIUM			
SAND W/ FINE GRAVEL	145	150	BROWN	SOFT			
SAND	150	155	BROWN	SOFT			
SAND W/ FINE GRAVEL	155	160	BROWN	SOFT			
SAND W/ FINE GRAVEL	160	165	BROWN	SOFT			
FINE SAND W/ FINE	165	170	BROWN	SOFT			
FINE SAND W/ MED	170	175	BROWN	SOFT			
FINE TO MED GRAVEL	175	180	VARIED	SOFT			
FINE TO MED GRAVEL	180	185	VARIED	SOFT			
Remarks	MED GRAVEL 185 190 VARIED SOFT						
Remarks	FINE TO MED GRAVEL 190 200 VARIED MEDIUM						
Remarks	FINE TO MED GRAVEL 200 205 VARIED MEDIUM						
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Remarks	FINE TO MED GRAVEL 515 520 VARIED MEDIUM						
Remarks	FINE TO MED GRAVEL 520 525 VARIED MEDIUM						
Remarks	FINE TO MED GRAVEL 525 530 VARIED MEDIUM						

Minnesota Well Index Report

818311

Printed on 03/27/2023
HE-01205-15

Well Depth	Depth Completed	Date Well Completed
530 ft.	517 ft.	07/15/2016
Drill Method	Dual Rotary	Drill Fluid Water
Use	public supply/community	Status Active
Well Hydrofractured?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	From To
Casing Type	Step down	Joint Welded
Drive Shoe?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Above/Below
Casing Diameter	Weight	Hole Diameter
18 in. To 364 ft.	lbs./ft.	23 in. To 530 ft.
24 in. To 202 ft.	lbs./ft.	
Open Hole	From 364 ft.	To 517 ft.
Screen? <input type="checkbox"/>	Type	Make
Static Water Level	184 ft. land surface	Measure 07/15/2016
Pumping Level (below land surface)	284 ft. 24 hrs. Pumping at	500 g.p.m.
Wellhead Completion	Pitless adapter manufacturer	Model
<input type="checkbox"/> Casing Protection	<input type="checkbox"/> 12 in. above grade	
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
Grouting Information	Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified	
Material	Amount	From To
driven casing seal	7 Sacks	ft. 202 ft.
neat cement	23.5 Cubic yards	ft. 364 ft.
Nearest Known Source of Contamination	feet	Direction
Well disinfected upon completion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Type
Pump <input checked="" type="checkbox"/> Not Installed	Date Installed	
Manufacturer's name		
Model Number	HP	Volt
Length of drop pipe	ft Capacity	g.p. Typ
Abandoned	Does property have any not in use and not sealed well(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Variance	Was a variance granted from the MDH for this well?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Miscellaneous	First Bedrock Jordan Sandstone	Aquifer Tunnel City-
Last Strat	Eau Claire Formation	Depth to Bedrock 195 ft
Located by	Minnesota Geological Survey	
Locate Method	Digitization (Screen) - Map (1:24,000) (15 meters or	
System	UTM - NAD83, Zone 15, Meters	X 444602 Y 4972118
Unique Number Verification	Info/GPS from data	Input Date 05/31/2016
Angled Drill Hole		
Well Contractor	Mark J Traut Wells, Inc.	1404 GAUSTAD,E.
Licensee Business	Lic. or Reg. No.	Name of Driller

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING CONSTRUCTION RECORD
 Minnesota Statutes, chapter 103I

877551

WELL OR BORING LOCATION

County Name **Hennepin**
 Township Name **Minnetrista** Township No. **117** Range No. **24** Section No. **34** Fraction (sm. → lg.) **SESESE**

WELL/BORING DEPTH (completed) **765** ft. DATE WORK COMPLETED **7-24-22**

GPS LOCATION (decimal degrees (to four decimal places))
 Latitude **44.8921** Longitude **-93.6874**

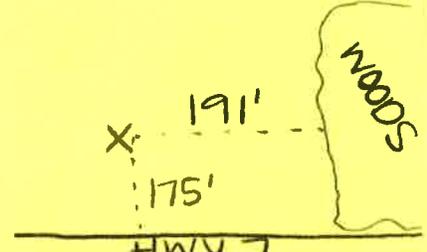
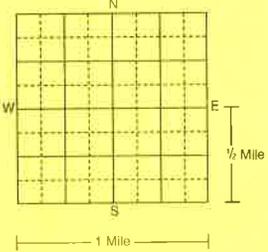
DRILLING METHOD
 Cable Tool Driven Dual Rotary
 Auger Rotary Rotasonic
 Other

House Number, Street Name, City, and ZIP Code of Well Location
'NA' State Hwy 7 Minnetrista, MN 55331

DRILLING FLUID **Water** WELL HYDROFRACTURED? Yes No
 From _____ ft. To _____ ft.

Show exact location of well/boring in section grid with "X." Sketch map of well/boring location. Showing property lines, roads, buildings, and direction.

USE
 Domestic Monitoring Heating/Cooling
 Noncommunity PWS Irrigation Industry/Commercial
 Community PWS Dewatering Remedial
 Elevator



CASING MATERIAL Drive Shoe? Yes No
 Steel Threaded Welded
 Plastic

CASING Diameter Weight Specifications
10 in. To **288** ft. lbs./ft. **A53B** **9 7/8** in. To **765** ft.
6 in. To **645** ft. lbs./ft. **A53B** _____ in. To _____ ft.
 _____ in. To _____ ft. lbs./ft. _____ in. To _____ ft.

PROPERTY OWNER'S NAME/COMPANY NAME
City of Minnetrista - Test well 10

SCREEN **NA** OPEN HOLE From **645** ft. To **765** ft.
 Make _____ Diameter _____
 Type _____ Length _____
 Slot/Gauze _____
 Set between _____ ft. and _____ ft. FITTINGS _____

Property owner's mailing address if different than well location address indicated above.
**7701 Co. Rd. 110 W.
 Minnetrista, MN 55364**

STATIC WATER LEVEL **201.3** ft. Below Above land surface
 Date measured **7-25-22** Dry hole Yes No

WELL OWNER'S NAME/COMPANY NAME
City of Minnetrista - Test well 10

PUMPING LEVEL (below land surface)
248 ft. after **12** hrs. pumping **340** g.p.m.

Well/boring owner's mailing address if different than property owner's address indicated above.
**7701 Co. Rd. 110 W.
 Minnetrista, MN 55364**

WELLHEAD COMPLETION
 Pitless/adaptor manufacturer _____ Model _____
 Casing protection _____ 12 in. above grade
 At-grade Well House Hand Pump

GROUT INFORMATION (specify bentonite, cement-sand, neat-cement, concrete, cuttings, or other)
 Material **neat cement** From **0** To **645** ft. **17** Yds. Bags
 Material _____ From _____ To _____ ft. _____ Yds. Bags
 Material _____ From _____ To _____ ft. _____ Yds. Bags

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
See attached for detailed Log				
Drift			0	255
Jordan			255	343
St. Lawrence			343	383
Tunnel City			383	513
Worhenc			513	505
Eau Claire			505	639
Mt. Simon			639	765

Driven casing seal From **0** To **288** **11** Bags One bag = 94 lbs. cement or 50 lbs. bentonite

NEAREST KNOWN SOURCE OF CONTAMINATION
 Well is **110** feet **South** direction from **SEWER** type

Well disinfected upon completion? Yes No

PUMP
 Not installed Date installed _____
 Manufacturer's name _____
 Model Number _____ HP _____ Volts _____
 Length of drop pipe _____ ft. Capacity _____ g.p.m.
 Type: Submersible L.S. Turbine Reciprocating Jet

ABANDONED WELLS
 Does property have any not in use and not sealed well(s)? Yes No

VARIANCE
 Was a variance granted from the MDH for this well? Yes No TN# _____

WELL CONTRACTOR CERTIFICATION
 This well was drilled under my supervision and in accordance with Minnesota Rules, chapter 4725. The information contained in this report is true to the best of my knowledge.

REMARKS, ELEVATION, SOURCE OF DATA, etc.
Test well 10

Traut Companies **1404**
 Licensee Business Name Lic. or Reg. No.
Paul Traut **589 8-29-22**
 Certified Representative Signature Certified Rep. No. Date

IMPORTANT-FILE WITH PROPERTY PAPERS-WELL OWNER COPY **877551**

Kyle Gratke & Hunter Neyens
 Name of Driller

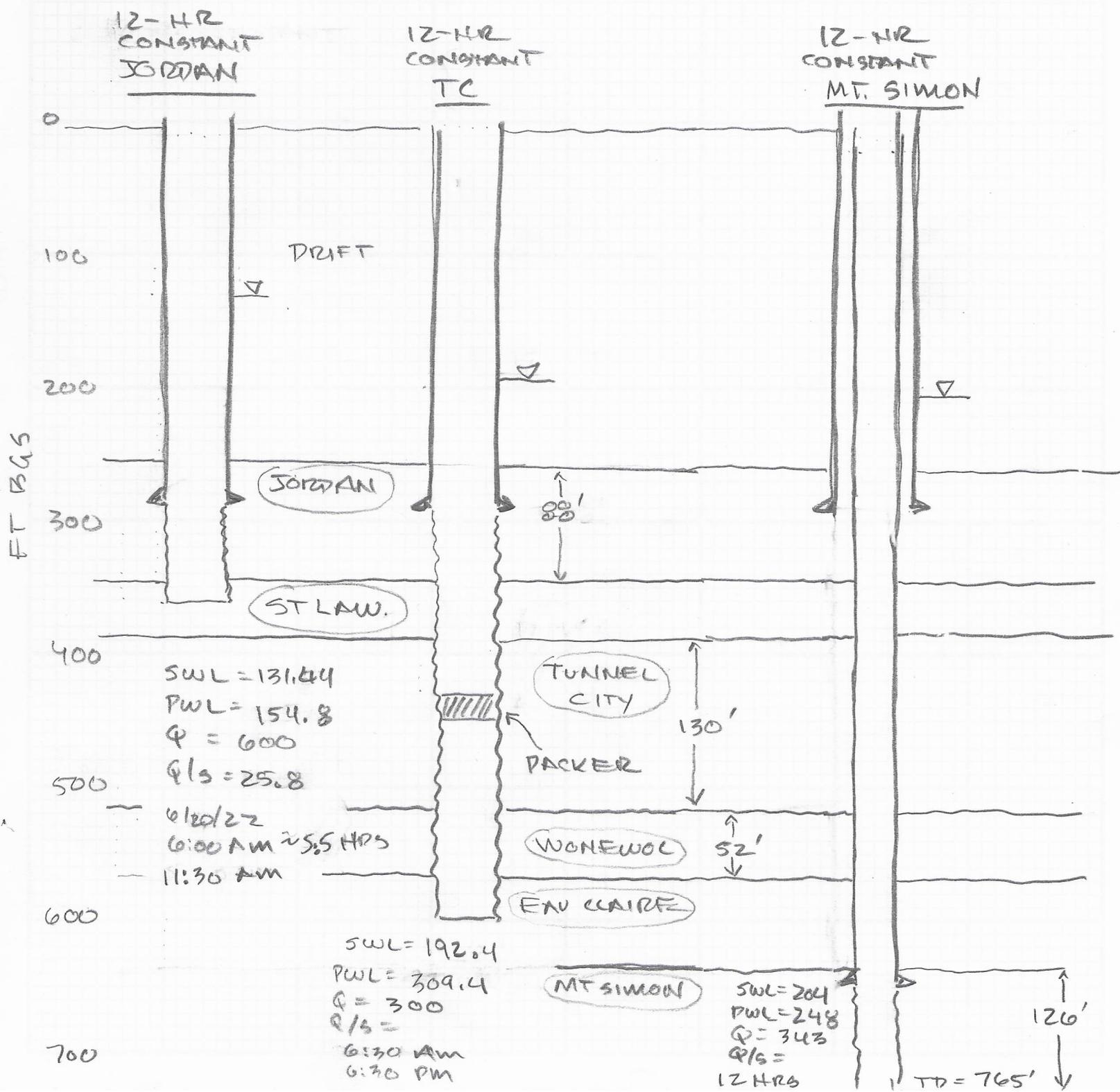
UNIQUE #877551

Geological Materials	Color	Hardness of Materials	From	To
CLAY W/ SAND	BROWN	S	0	31
SAND & GRAVEL	BROWN	S	31	35
SAND & GRAVEL W/ CLAY	BROWN	S	35	40
CLAY W/SAND	GRAY	S	40	155
SAND & GRAVEL	MULTI	M	155	185
CLAY W/ SAND	BROWN	M	185	195
SAND & GRAVEL	BROWN	M	195	203
CLAY & SAND	BROWN	M	203	205
CLAY	GRAY	M	205	214
GRAVEL, SAND, CLAY MIX	BROWN	S	214	220
MIXED ROCK	MULTI COLORED	S	220	223
SHALE	WHITE	S	223	227
SS SHALE MIX	BROWN	S	227	240
SS	BLACK	HARD	240	250
SAND	BROWN	S	250	255
SAND STONE	WHITE	S	255	260
SS	BROWN	S	260	265
SS	TAN	S	265	310
SS	TAN W/ BLACK	M	310	315
SS	TAN	M	315	320
SS & SHALE	TAN	M	320	335
SS & SHALE	WHITE	M	335	340
SHALE & SS	BROWN	M	340	356
SHALE & SS	GRAY	M	356	380
SHALE & SS	GRAY	M	380	385
SHALE	GREEN	M	385	390
SHALE W/ SOME SS	TAN/GREEN	M	390	485
SANDSTONE/SHALE MIX	RED	M	485	500
SAND STONE	CREAM	S	500	565
SILT STONE W/ SHALE	CREAMY GREEN	M	565	590
SHALE	RED	M	590	600
SHALE & SILTSTONE	GREEN/TAN	M	600	635
SHALE	BROWN	M	635	639
SHALE & SS	WHITE/GREEN	M	639	645
SS	WHITE	S	645	655
SS & SHALE	WHITE & GREEN	M	655	660
SS	WHITE	S	660	760
SS	WHITE/PINK HINT	S	760	765

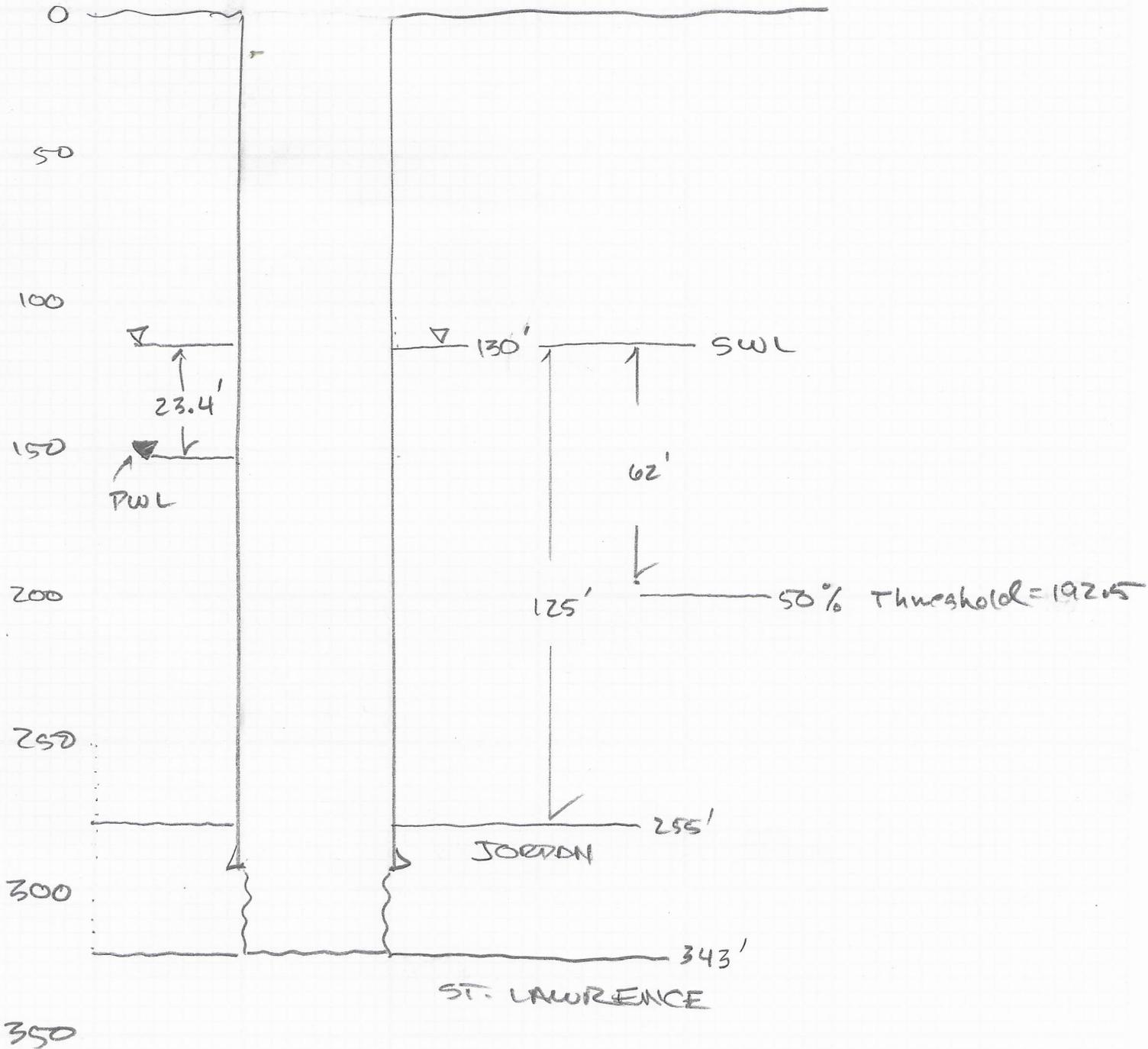
ATTACHMENT 2

LRE NOTES ON TEST WELL 10

TEST WELL No 10 - AQUIFER TEST



TEST WELL NO. 10
JORDAN INTERVAL



SWL = 131.44
PWL = 154.8
Q = 600 gpm
S = 23.4

Q/s = 25.8

Available Drawdown = $25.8 \times 62' =$
to 50% Threshold

1,581 gpm

ATTACHMENT 3

AQUIFER TEST DATA



SUBMITTALS

DATE: 9/1/22

FOR:
CITY OF MINNETRISTA
TEST WELL #10

ENGINEER:
WSB

CONTRACTOR:
TRAUT COMPANIES
32640 COUNTY ROAD 133
ST. JOSEPH, MN 56374
(320)251-5090

SUBMITTED BY:
JOE TRAUT

Email: joet@trautcompanies.com

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING CONSTRUCTION RECORD
Minnesota Statutes, chapter 103I

877551

WELL OR BORING LOCATION

County Name Hennepin
Township Name Minnetrista Township No. 117 Range No. 24 Section No. 3A Fraction (sm. → lg.) SESESE

WELL/BORING DEPTH (completed) 765 ft. DATE WORK COMPLETED 7-24-22

GPS LOCATION (decimal degrees (to four decimal places))
Latitude 44.8921 Longitude -93.6874

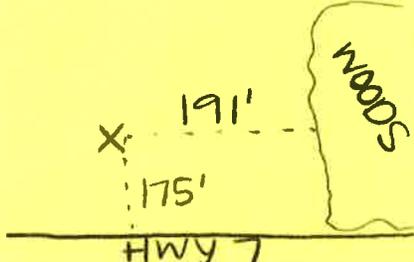
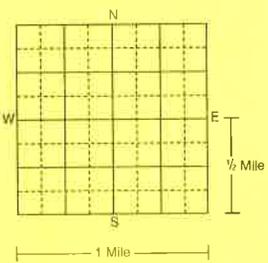
DRILLING METHOD
 Cable Tool Driven Dual Rotary
 Auger Rotary Rotasonic
 Other

House Number, Street Name, City, and ZIP Code of Well Location
'NA' State Hwy 7 Minnetrista, MN 55331

DRILLING FLUID Water WELL HYDROFRACTURED? Yes No
From _____ ft. To _____ ft.

Show exact location of well/boring in section grid with "X." Sketch map of well/boring location. Showing property lines, roads, buildings, and direction.

USE Domestic Monitoring Heating/Cooling
 Noncommunity PWS Irrigation Industry/Commercial
 Community PWS Dewatering Remedial
 Elevator



CASING MATERIAL Steel Plastic Drive Shoe? Yes No
 Threaded Welded

CASING Diameter 10 in. To 288 ft. Weight _____ lbs./ft. Specifications A53B
6 in. To 645 ft. Weight _____ lbs./ft. Specifications A53B
_____ in. To _____ ft. Weight _____ lbs./ft. Specifications _____

PROPERTY OWNER'S NAME/COMPANY NAME
City of Minnetrista - Test well 10

SCREEN NA OPEN HOLE From 645 ft. To 765 ft.

Property owner's mailing address if different than well location address indicated above.
7701 Co. Rd. 110 W.
Minnetrista, MN 55364

Make _____ Type _____ Diam. _____
Slot/Gauze _____ Length _____
Set between _____ ft. and _____ ft. FITTINGS _____

WELL OWNER'S NAME/COMPANY NAME
City of Minnetrista - Test well 10

STATIC WATER LEVEL 201.3 ft. Below Above land surface
Date measured 7-25-22 Dry hole Yes No

Well/boring owner's mailing address if different than property owner's address indicated above.
7701 Co. Rd. 110 W.
Minnetrista, MN 55364

PUMPING LEVEL (below land surface) 248 ft. after 12 hrs. pumping 340 g.p.m.

WELLHEAD COMPLETION
 Pitless/adaptor manufacturer _____ Model _____
 Casing protection _____ 12 in. above grade
 At-grade Well House Hand Pump

GROUT INFORMATION (specify bentonite, cement-sand, neat-cement, concrete, cuttings, or other)
Material neat cement From 0 To 645 ft. 17 Yds. Bags
Material _____ From _____ To _____ ft. _____ Yds. Bags
Material _____ From _____ To _____ ft. _____ Yds. Bags
Driven casing seal From 0 To 288 11 Bags One bag = 94 lbs. cement or 50 lbs. bentonite

NEAREST KNOWN SOURCE OF CONTAMINATION
Well is 110 feet South direction from SEWER type
Well disinfected upon completion? Yes No

PUMP
 Not installed Date installed _____
Manufacturer's name _____
Model Number _____ HP _____ Volts _____
Length of drop pipe _____ ft. Capacity _____ g.p.m.
Type: Submersible L.S. Turbine Reciprocating Jet

ABANDONED WELLS
Does property have any not in use and not sealed well(s)? Yes No

VARIANCE
Was a variance granted from the MDH for this well? Yes No TN# _____

WELL CONTRACTOR CERTIFICATION
This well was drilled under my supervision and in accordance with Minnesota Rules, chapter 4725. The information contained in this report is true to the best of my knowledge.

Traut Companies 1404
Licensee Business Name Lic. or Reg. No.
Dave [Signature] 589 8-29-22
Certified Representative Signature Certified Rep. No. Date

Kyle Gratke & Hunter Neyens
Name of Driller

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
See attached for detailed Log				
Drift			0	255
Jordan			255	343
St. Lawrence			343	383
Tunnel City			383	513
Worhac			513	505
Eau Claire			505	639
Mt. Simon			639	765

REMARKS, ELEVATION, SOURCE OF DATA, etc.
Test well 10

IMPORTANT-FILE WITH PROPERTY PAPERS-WELL OWNER COPY

877551

UNIQUE #877551

Geological Materials	Color	Hardness of Materials	From	To
CLAY W/ SAND	BROWN	S	0	31
SAND & GRAVEL	BROWN	S	31	35
SAND & GRAVEL W/ CLAY	BROWN	S	35	40
CLAY W/SAND	GRAY	S	40	155
SAND & GRAVEL	MULTI	M	155	185
CLAY W/ SAND	BROWN	M	185	195
SAND & GRAVEL	BROWN	M	195	203
CLAY & SAND	BROWN	M	203	205
CLAY	GRAY	M	205	214
GRAVEL, SAND, CLAY MIX	BROWN	S	214	220
MIXED ROCK	MULTI COLORED	S	220	223
SHALE	WHITE	S	223	227
SS SHALE MIX	BROWN	S	227	240
SS	BLACK	HARD	240	250
SAND	BROWN	S	250	255
SAND STONE	WHITE	S	255	260
SS	BROWN	S	260	265
SS	TAN	S	265	310
SS	TAN W/ BLACK	M	310	315
SS	TAN	M	315	320
SS & SHALE	TAN	M	320	335
SS & SHALE	WHITE	M	335	340
SHALE & SS	BROWN	M	340	356
SHALE & SS	GRAY	M	356	380
SHALE & SS	GRAY	M	380	385
SHALE	GREEN	M	385	390
SHALE W/ SOME SS	TAN/GREEN	M	390	485
SANDSTONE/SHALE MIX	RED	M	485	500
SAND STONE	CREAM	S	500	565
SILT STONE W/ SHALE	CREAMY GREEN	M	565	590
SHALE	RED	M	590	600
SHALE & SILTSTONE	GREEN/TAN	M	600	635
SHALE	BROWN	M	635	639
SHALE & SS	WHITE/GREEN	M	639	645
SS	WHITE	S	645	655
SS & SHALE	WHITE & GREEN	M	655	660
SS	WHITE	S	660	760
SS	WHITE/PINK HINT	S	760	765

JORDAN - STEP

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: KYLE G.

Job # 3014127

Meter Reading Beginning: 22551200

Meter Reading Ending: 22820850

Well Information:

Transducer set at: - ft. (From Grade)

Length of Casing: 288'

Length of Screen: NONE

Hp of Pump: 40

Total Well Depth: 358'

Model of Pump: 2 STAGE A-M

Static Water Level: 131.50 ft (From Grade)

Well Capacity: - GPM @ - PWL - G.P.F.D.D.

Page 1 of 4

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
6/17/2022	6:00	X			135.50		
	6:01	X		250	138.00		
	6:02	X		250	138.45		
	6:03	X		250	138.70		
	6:04	X		250	138.77		
	6:05	X		250	138.92		
	6:10	X		250	139.30		
	6:15	X		250	139.50		
	6:20	X		250	139.65		
	6:25	X		250	139.80		
	6:30	X		250	139.90		
	6:45	X		250	140.15		
	7:00	X		250	140.30		
	7:15	X		250	140.50		
	7:30	X		250	140.55		
	7:45	X		250	140.60		
	8:00	X		300	140.65		
	8:01	X		300			
	8:02	X		300	142.75		
	8:03	X		300	142.80		
	8:04	X		300	142.85		
	8:05	X		300	142.90		
	8:10	X		300	143.00		
	8:15	X		300	143.10		
	8:20	X		300	143.15		

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks

5-1 minute checks

2-30 minute checks

1-per hour as needed

JORDAN - STEP

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: KYLE G.

Job # 3014127

Meter Reading Beginning: 22551200

Meter Reading Ending: 22820850

Well Information:

Transducer set at: - ft. (From Grade)

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Total Well Depth: 358'

Model of Pump: 2 STAGE A-M

Static Water Level: 131.50 ft (From Grade)

Well Capacity: - GPM @ - PWL - G.P.F.D.D.

Page 2 of 4

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
6/17/2022	8:25	X		300	143.25		
	8:30	X		300	143.20		
	8:45	X		300	143.40		
	9:00	X		300	143.47		
	9:15	X		300	143.55		
	9:30	X		300	143.60		
	9:45	X		300	143.60		
	10:00	X		350	143.66		
	10:01	X		350	145.20		
	10:02	X		350	145.25		
	10:03	X		350	145.31		
	10:04	X		350	145.26		
	10:05	X		350	145.23		
	10:10	X		350	145.27		
	10:15	X		350	143.30		
	10:20	X		350	145.39		
	10:25	X		350	145.46		
	10:30	X		350	145.45		
	10:45	X		350	145.53		
	11:00	X		350	145.54		
	11:15	X		350	145.55		
	11:30	X		350	145.57		
	11:45	X		350	145.58		
	12:00		X	400	145.61		
	12:01		X	400	147.50		

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks

5-1 minute checks

2-30 minute checks

1-per hour as needed

JORDAN - STEP

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: KYLE G.

Job # 3014127

Meter Reading Beginning: 22551200

Meter Reading Ending: 22820850

Well Information:

Transducer set at: - ft. (From Grade)

Length of Casing: 288'

Length of Screen: NONE

Hp of Pump: 40

Total Well Depth: 358'

Model of Pump: 2 STAGE A-M

Static Water Level: 131.50 ft (From Grade)

Well Capacity: - GPM @ - PWL - G.P.F.D.D.

Page 3 of 4

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
6/17/2022	12:02		X	400	147.62		
	12:03		X	400	147.70		
	12:04		X	400	147.74		
	12:05		X	400	147.76		
	12:10		X	400	147.83		
	12:15		X	400	147.89		
	12:20		X	400	147.90		
	12:25		X	400	147.98		
	12:30		X	400	147.99		
	12:45		X	400	148.06		
	1:00		X	400	148.10		
	1:15		X	400	148.12		
	1:30		X	400	148.10		
	1:45		X	400	148.17		
	2:00		X	500	148.12		
	2:01		X	500	152.50		
	2:02		X	500	152.80		
	2:03		X	500	152.85		
	2:04		X	500	152.96		
	2:05		X	500	153.00		
	2:10		X	500	153.11		
	2:15		X	500	153.19		
	2:30		X	500	153.26		
	2:45		X	500	153.31		
	3:00		X	500	153.31		

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks

5-1 minute checks

2-30 minute checks

1-per hour as needed

JORDAN - STEP

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: KYLE G.

Job # 3014127

Meter Reading Beginning: 22551200

Meter Reading Ending: 22820850

Well Information:

Transducer set at: - ft. (From Grade)

Length of Casing: 288'

Length of Screen: NONE

Hp of Pump: 40

Total Well Depth: 358'

Model of Pump: 2 STAGE A-M

Static Water Level: 131.50 ft (From Grade)

Well Capacity: - GPM @ - PWL - G.P.F.D.D.

Page 4 of 4

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
6/17/2022	3:15		X	500	153.25		
	3:30		X	500	153.20		
	3:45		X	500	153.20	1 1/4 cir	
	4:00		X	600	153.18		
	4:01		X	600	155.21		
	4:02		X	600	155.61		
	4:03		X	600	155.76		
	4:05		X	600	155.79		
	4:10		X	600	155.83		
	4:15		X	600	155.83		
	4:20		X	600	155.87		
	4:25		X	600	155.86		
	4:30		X	600	155.85		
	4:45		X	600	155.85		
	5:00		X	600	155.75	2" cir	
	5:15		X	600	155.71		
	5:30		X	SHUT DOWN	155.68		
	5:31		X		141.20		
	5:32		X		140.30		
	5:33		X		139.25		
	5:34		X		138.82		
	5:35		X		138.30		
	5:40		X		138.81		
	5:45		X		136.00		
	6:00		X		134.79		

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks 5-1 minute checks 2-30 minute checks 1-per hour as needed

JORDAN - 12 HR. CONSTANT RATE

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: KYLE G.

Job # 3014127

Meter Reading Beginning: 22820850

Meter Reading Ending: 23116600

Well Information:

Transducer set at: - ft. (From Grade)

Length of Casing: 288'

Length of Screen: NA

Hp of Pump: 40

Total Well Depth: 357'

Model of Pump: 2 STAGE AM

Static Water Level: 131.44 ft (From Grade)

Well Capacity: 600 GPM @ 154.8 PWL 25.6 G.P.F.D.D.

Page 1 of 2

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
6/20/2022	6:00	X		600			
	6:01	X					
	6:02	X			146.49		
	6:03	X			148.81		
	6:04	X			149.14		
	6:05	X			149.60		
	6:10	X			150.40		
	6:15	X			150.95		
	6:20	X			151.59		
	6:25	X			151.64		
	6:30	X			152.59		
	6:45	X			153.30		
	7:00	X			153.71		
	7:15	X			154.02		
	7:30	X			154.16		
	7:45	X			154.35		
	8:00	X			154.49		
	8:30	X			154.64		
	9:00	X			154.77		
	9:30	X			154.72		
	10:00	X			154.81		
	10:30	X			154.84		
	11:00	X			154.81		
	11:30	X			154.79		
	12:00		X				

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks

5-1 minute checks

2-30 minute checks

1-per hour as needed

TUNNEL CITY - STEP TEST

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: KYLE G.

Job # 3014127

Meter Reading Beginning: 23116600

Meter Reading Ending: 23233500

Well Information:

Transducer set at: 395.00 ft. (From Grade)

Length of Casing: PACKER AT 430'

Length of Screen: NA Hp of Pump: 40

Total Well Depth: 600' Model of Pump: 300S400

Static Water Level: 187.60 ft (From Grade)

Well Capacity: - GPM @ - PWL - G.P.F.D.D.

Page 1 of 4

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
6/30/2022	7:00	X		50	187.60		
	7:01	X		50	206.89		
	7:02	X		50	206.70		
	7:03	X		50	206.41		
	7:04	X		50	206.34		
	7:05	X		50	206.47		
	7:10	X		50	207.07		
	7:15	X		50			
	7:25	X		50	207.65		
	7:30	X		50	207.12		
	7:45	X		50	206.93		
	8:00	X		50	207.82		
	8:30	X		50	206.90		
	9:00	X		100	207.46		
	9:01	X		100	224.10		
	9:02	X		100	224.65		
	9:03	X		100	224.94		
	9:04	X		100	225.30		
	9:05	X		100	225.35		
	9:10	X		100	225.94		
	9:20	X		100	226.35		
	9:30	X		100	227.00		
	10:00	X		100	227.65		
	10:30	X		100	228.30		
	11:00	X		150	228.55		

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks

5-1 minute checks

2-30 minute checks

1-per hour as needed

TUNNEL CITY - STEP TEST

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: KYLE G.

Job # 3014127

Meter Reading Beginning: 23116600

Meter Reading Ending: 23233500

Well Information:

Transducer set at: 395.00 ft. (From Grade)

Length of Casing: PACKER AT 430'

Length of Screen: NA Hp of Pump: 40

Total Well Depth: 600' Model of Pump: 300S400

Static Water Level: 187.60 ft (From Grade)

Well Capacity: - GPM @ - PWL - G.P.F.D.D.

Page 2 of 4

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
6/30/2022	11:01	X		150	240.80		
	11:02	X		150	241.25		
	11:03	X		150	241.65		
	11:04	X		150	241.90		
	11:05	X		150	242.09		
	11:10	X		150	242.65		
	11:20	X		150	243.19		
	11:30	X		150	243.51		
	12:00		X	150	244.19		
	12:30		X	150	244.60		
	1:00		X	200	244.90		
	1:01		X	200	258.27		
	1:02		X	200	258.97		
	1:03		X	200	259.13		
	1:04		X	200	259.41		
	1:05		X	200	259.66		
	1:10		X	200	260.42		
	1:20		X	200	261.23		
	1:30		X	200	261.28		
	2:00		X	200	262.01		
	2:30		X	200	261.98		
	3:00		X	200	262.34		
	3:01		X	200			
	3:02		X	250	280.00		
	3:03		X		282.20		

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks

5-1 minute checks

2-30 minute checks

1-per hour as needed

TUNNEL CITY - STEP TEST

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: KYLE G.

Job # 3014127

Meter Reading Beginning: 23116600

Meter Reading Ending: 23233500

Well Information:

Transducer set at: 395.00 ft. (From Grade)

Length of Casing: PACKER AT 430'

Length of Screen: NA Hp of Pump: 40

Total Well Depth: 600' Model of Pump: 300S400

Static Water Level: 187.60 ft (From Grade)

Well Capacity: - GPM @ - PWL - G.P.F.D.D.

Page 3 of 4

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
6/30/2022	3:04		X	250	280.35		
	3:05		X	250	280.43		
	3:10		X	250	280.23		
	3:20		X	250	280.72		
	3:30		X	250	281.15		
	4:00		X	250	281.86		
	4:30		X	250	282.53		
	5:00		X	300	282.68		
	5:01		X	300	300.00		COULD NOT GET MANUAL READINGS
	5:02		X	300	300.00		PAST 300 FEET
	5:03		X	300	300.00		
	5:04		X	300	300.00		
	5:05		X	300	300.00		
	5:10		X	300	300.00		
	5:20		X	300	300.00		
	5:30		X	300	300.00		
	6:00		X	300	300.00		
	6:30		X	300	300.00		
	7:00		X	0	302.99		
	7:01		X	0	218.27		
	7:02		X	0	212.07		
	7:03		X	0	217.50		
	7:04		X	0	215.35		
	7:05		X	0	214.16		
	7:10		X	0	210.32		

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks 5-1 minute checks 2-30 minute checks 1-per hour as needed

TUNNEL CITY - CONSTANT RATE

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: KYLE G.

Job # 3014127

Meter Reading Beginning: 23233500

Meter Reading Ending: -

Well Information:

Transducer set at: 395.00 ft. (From Grade)

Length of Casing: PACKER @ 430'

Length of Screen: - Hp of Pump: 40

Total Well Depth: 600 Model of Pump: 300S400

Static Water Level: 192.24 ft (From Grade)

Well Capacity: 300 GPM @ 309.41 PWL 2.56 G.P.F.D.D.

Page 1 of 2

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
7/1/2022	6:30	X		300			
	6:31	X		300	276.15		
	6:32	X		300	279.10		
	6:33	X		300	281.20		
	6:34	X		300	283.23		
	6:35	X		300	283.59		
	6:40	X		300	293.61		
	6:45	X		300	294.86		
	7:00	X		300	298.40		
	8:00	X		300	301.76		
	9:00	X		300	303.96		
	10:00	X		300	305.18		
	11:00	X		300	305.16		
	12:00		X	300	306.57		
	1:00		X	300			
	2:00		X	300	307.63		
	3:00		X	300	308.14		
	4:00		X	300	308.42		
	5:00		X	300	309.11		
	6:00		X	300	309.20	0	
	6:30		X	0	309.41		
	6:31		X	0	218.76		
	6:32		X	0	222.83		
	6:33		X	0	221.43		
	6:34		X	0	219.25		

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks 5-1 minute checks 2-30 minute checks 1-per hour as needed

MT. SIMON STEP TEST

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: BRENT M.

Job # 3014127

Meter Reading Beginning: 24096300

Meter Reading Ending: 24253400

Well Information:

Transducer set at: 315' ft. (From Grade)

Length of Casing: 645'

Length of Screen: NA

Hp of Pump: 40

Total Well Depth: 765'

Model of Pump: -

Static Water Level: 204.00 ft (From Grade)

Well Capacity: - GPM @ - PWL - G.P.F.D.D.

Page 1 of 3

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/3/2022	7:08	X		100			START UP
	7:11	X					CLOUDY TAN
	7:26	X				2" CIRCLE	
	7:40	X		80		1 1/2" CIRCLE	CLOUDY TAN
	7:41	X		100			ADJUST VALVE TO 100 GPM
	8:04	X		100		1 1/8" CIRCLE	CLOUDY, WHITE SAND
	8:15	X		100		1" CIRCLE	CLEARER, WHITE SAND
	8:34	X		100	217.84		
	8:45	X			218.15		
	8:53	X			217.90	7/8" CIRCLE	
	8:55	X		150			OPEN VALVE TO 150, 41 PSI, 46 HZ
	9:00	X		150	222.78		
	9:01	X		150	222.70		
	9:14	X		150	223.15	1 1/2" CIRCLE	
	9:30	X		150	223.17	1 1/2" CIRCLE	
	10:30	X		150	223.20	1" CIRCLE	ALMOST CLEAR, WHITE SAND
	10:43	X		150	223.67		
	10:50	X		150	223.56		
	10:57	X		200			
	10:53	X		200	228.00		
	10:56	X		200	227.97		
	10:57	X		200	228.25	1 1/8"	ALMOST CLEAR, WHITE SAND
	11:00	X		200	228.67		
	11:10	X		200	229.65		
	11:20	X		200	229.09		

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks

5-1 minute checks

2-30 minute checks

1-per hour as needed

MT. SIMON STEP TEST

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: BRENT M.

Job # 3014127

Meter Reading Beginning: 24096300

Meter Reading Ending: 24253400

Well Information:

Transducer set at: 315' ft. (From Grade)

Length of Casing: 645'

Length of Screen: NA

Hp of Pump: 40

Total Well Depth: 765'

Model of Pump: -

Static Water Level: 204.00 ft (From Grade)

Well Capacity: - GPM @ - PWL - G.P.F.D.D.

Page 2 of 3

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/3/2022	11:30	X		200	228.93	1 1/8" CIRCLE	
	11:40	X		200	228.89		
	11:50	X		200	228.95		
	12:00		X	200	229.01	1 1/8"/ g	
	12:10		X	200	228.85		
	12:20		X	200	228.98		
	12:30		X	200	228.85		
	12:50		X	250			SPEED UP GENERATOR TO 49 HZ, ADJUST VALVE
	1:00		X		237.58		
	1:05		X	266	237.95		
	1:30		X		237.98		ADJUST VALVE
	1:45		X	266	237.85		
	2:30		X	266	237.93		
	2:45		X	266	238.13		
	2:55		X	300			
	3:00		X		240.19		
	3:05		X	281	240.29		
	3:15		X	300	242.64	7/8"/g	ADJUST VALVE & HZ
	3:45		X	300	242.58		
	4:00		X	600	242.65	1"/g	
	4:15		X	300	243.07		
	4:45		X		243.13		
	4:50		X	350			
	5:00		X	350	246.90	1 1/2"/g	CLOUDY
	5:15		X	350	246.45	1 1/4"/g	A LITTLE CLOUD, WHITE SAND

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks

5-1 minute checks

2-30 minute checks

1-per hour as needed

MT. SIMON CONSTANT RATE TEST

PROJECT: MINNETRISTA

Well # TEST WELL 10

Uniq # 877551

Test By: BRENT M.

Job # 3014127

Meter Reading Beginning: 24253400

Meter Reading Ending: 24498500

Well Information:

Transducer set at: 315' ft. (From Grade)

Length of Casing: 645

Length of Screen: NA

Hp of Pump: 40

Total Well Depth: 765'

Model of Pump: CAST 2-STAGE AMERICAN MARSH

Static Water Level: 204.00 ft (From Grade)

Well Capacity: 340 GPM @ 247.9 PWL 7.74 G.P.F.D.D.

Page 1 of 2

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/4/2022	6:50	X		-			
	7:07	X		350			START UP
	7:09	X			236.40	1/2" /g	
	7:13	X		325			UP TO 50 HZ
	7:17	X		350		1 3/4" /g	
	7:20	X		350	242.69		
	7:30	X		350	243.26		
	7:40	X		350	243.83		
	7:50	X		350	244.15		
	8:00	X		350	244.72		
	8:10	X		350	244.62		
	8:30	X		350	245.01	1 1/4" /g	CLEAR, WHITE SAND
	9:00	X		350	245.58		
	9:30	X		350	245.89	1"	
	10:00	X		344	246.12	7/8"	WHITE SAND, CLEAR WATER, RECALCULATED GPM @ 344
	10:30	X		344	246.35	7/8"	
	11:00	X		344	246.88		
	11:30	X		344	247.13		
	12:00		X	344	247.02		
	12:30		X	344	247.23	7/8"	
	1:00		X	344	247.43		
	1:30		X	344	247.70	7/8"	
	2:00		X	344	247.90	3/4"	
	4:00		X	343	248.16		
	4:30		X	343	247.09	5/8"	

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-5 minute checks

5-1 minute checks

2-30 minute checks

1-per hour as needed



32640 Co Rd 133, St. Joseph, MN 56374
 PO Box 547 Waite Park, MN 56387

(320) 251-5090
 (800) 728-5091

www.trautcompanies.com

Project Name: Minnetrista Test Well 10 (Mt. Simon)

Owner Name: City of Minnetrista

Street Address: 6800-7000 County Road 7

Coordinates: 44.89207, -93.68750

City: Minnetrista

County: Hennepin

State: Minnesota

Township Name: Minnetrista

Township #: 117

Range: 24

Section: 34

Qtr Sec.: SE,SE,SE

Unique Well #: 877551

Cutting Set #: 6035

File: Minnetrista Test Well 10 Summary

Logger: Travis Traut

Logging Tool: Mount Sopris 40LGR - Gamma + SP + SPR

Drilling Company: Traut Companies

Driller(s): Kyle G, Hunter N

Engineering Firm: WSB

Engineer: Ray Theiler

Lithology: MGS

Depth Drilled: 765'

Reported Depth: 765'

Depth Logged: 765'

Depth Reference: Grade

Elevation: 1012'

Stickup: 3'

Casing Size

From

To

Comments

10"

0'

282'

Steel Casing

Open Hole

282'

765'

Open Hole

Drilling Method: Dual Rotary

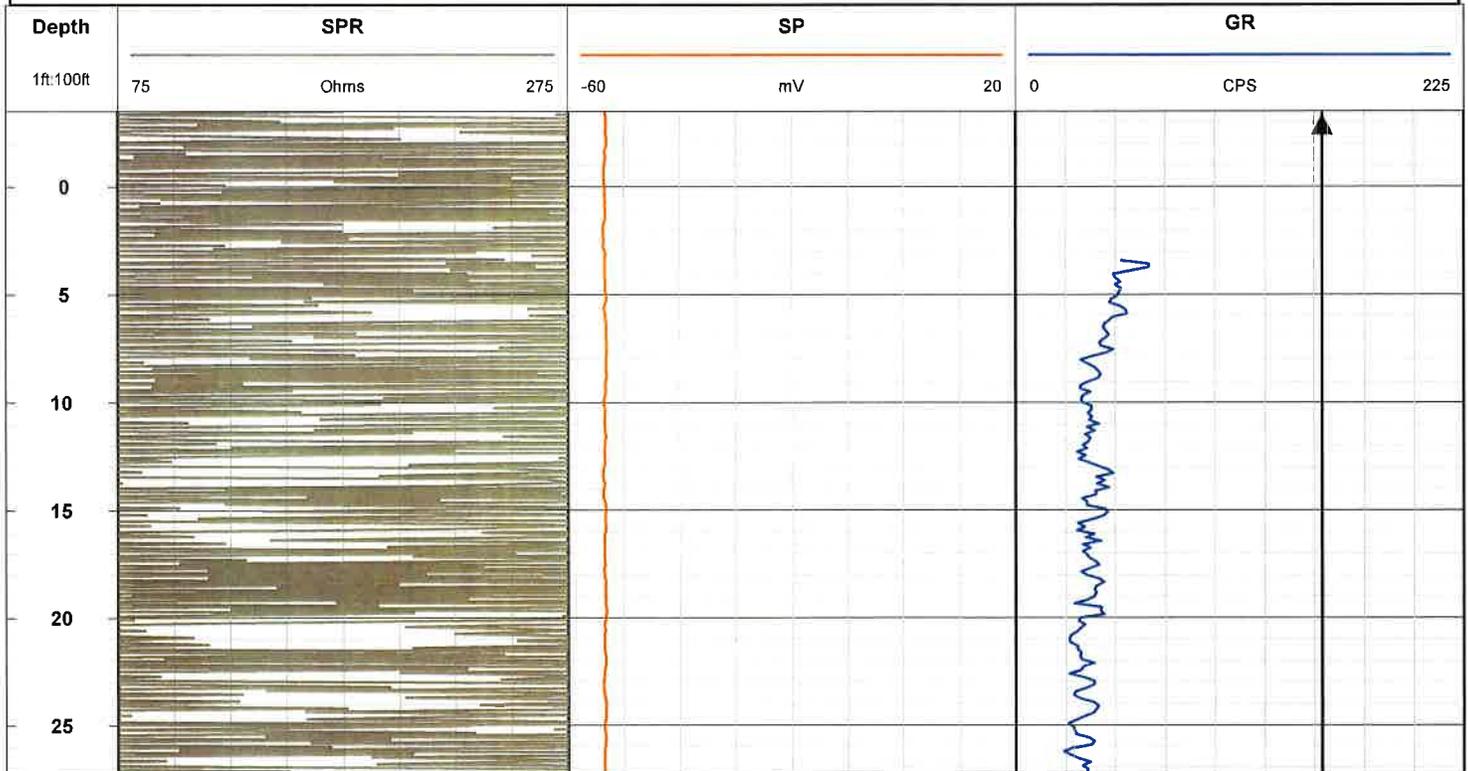
Date Drilled: In Process

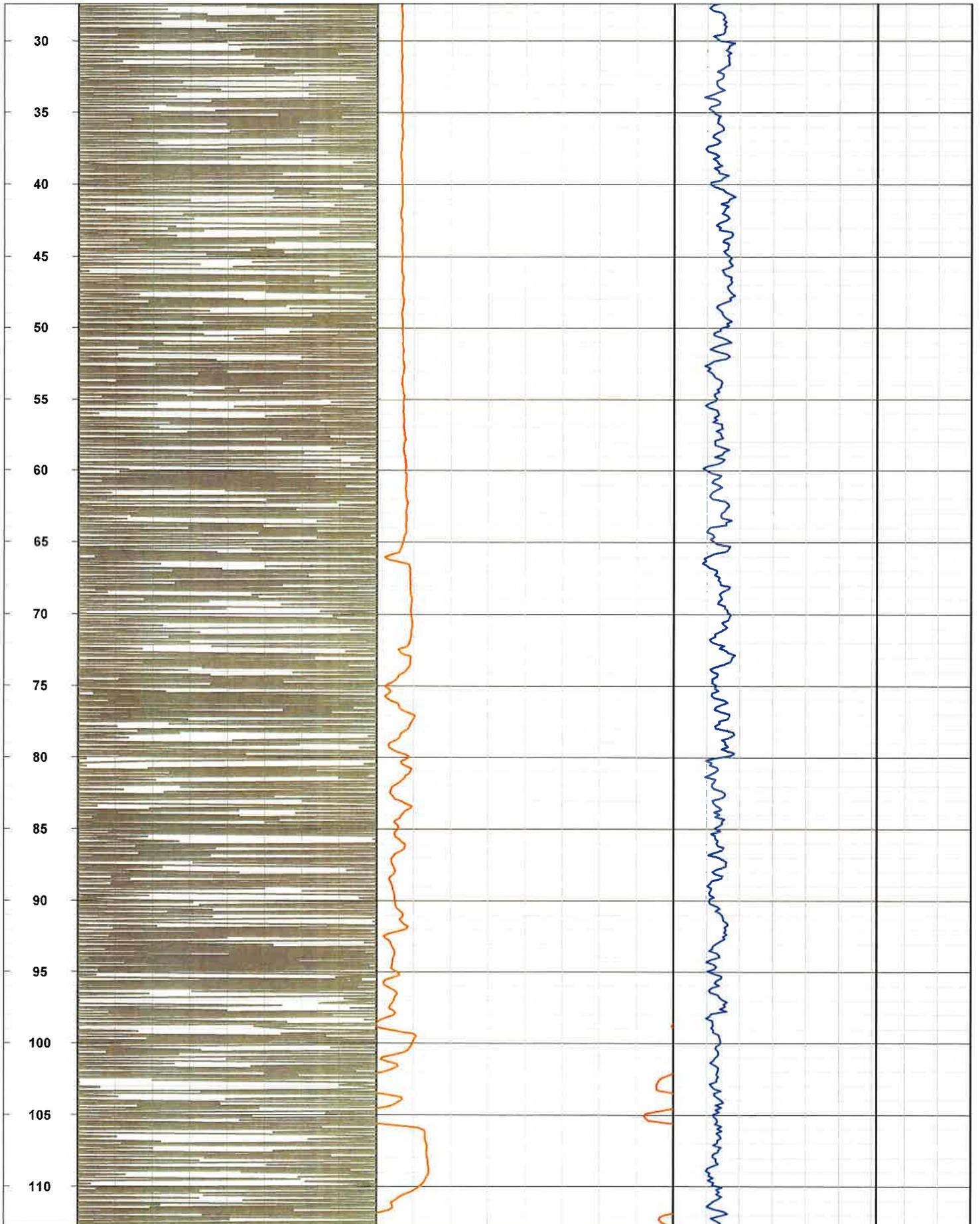
Static Water Level: 132'

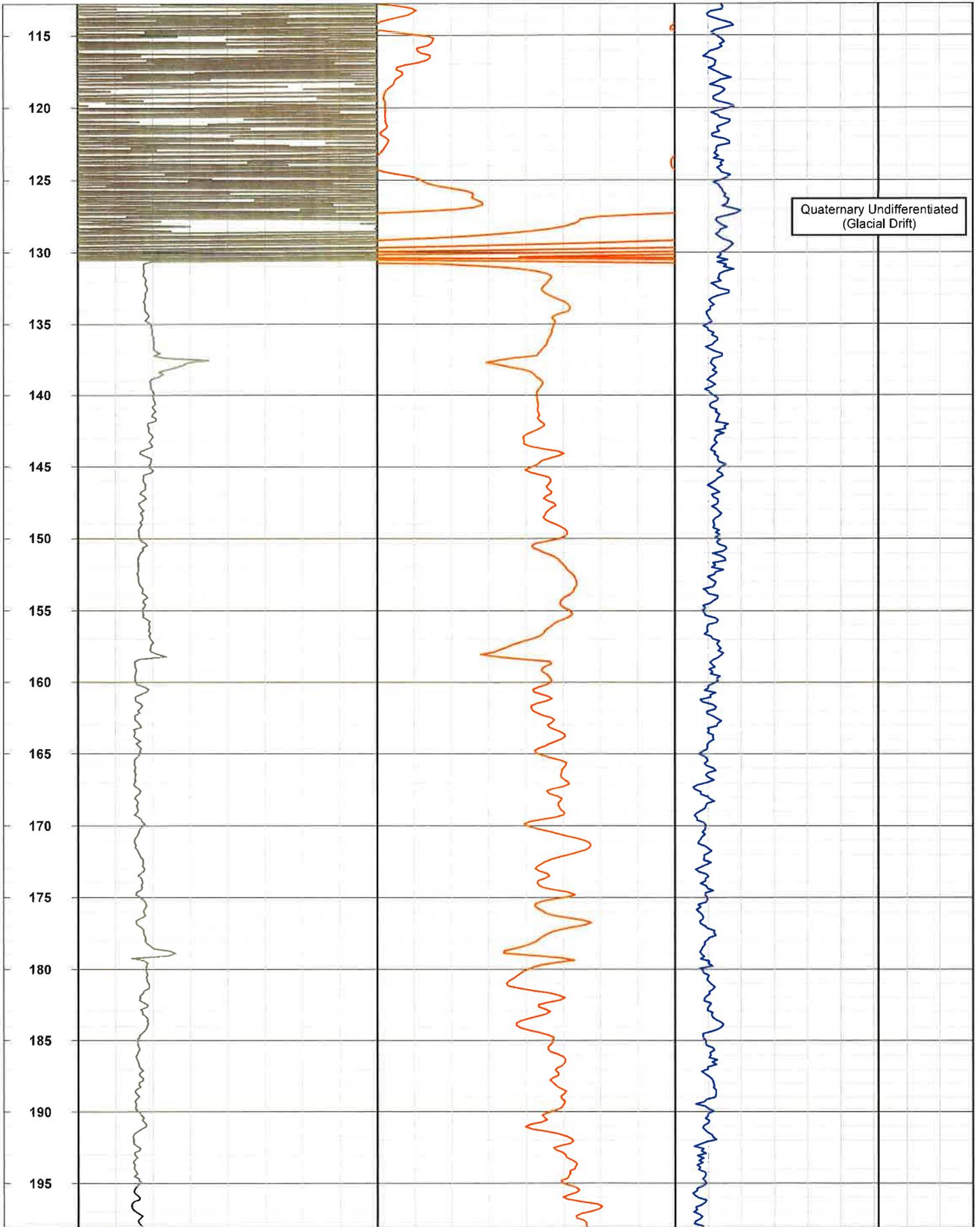
Mud Type: Water

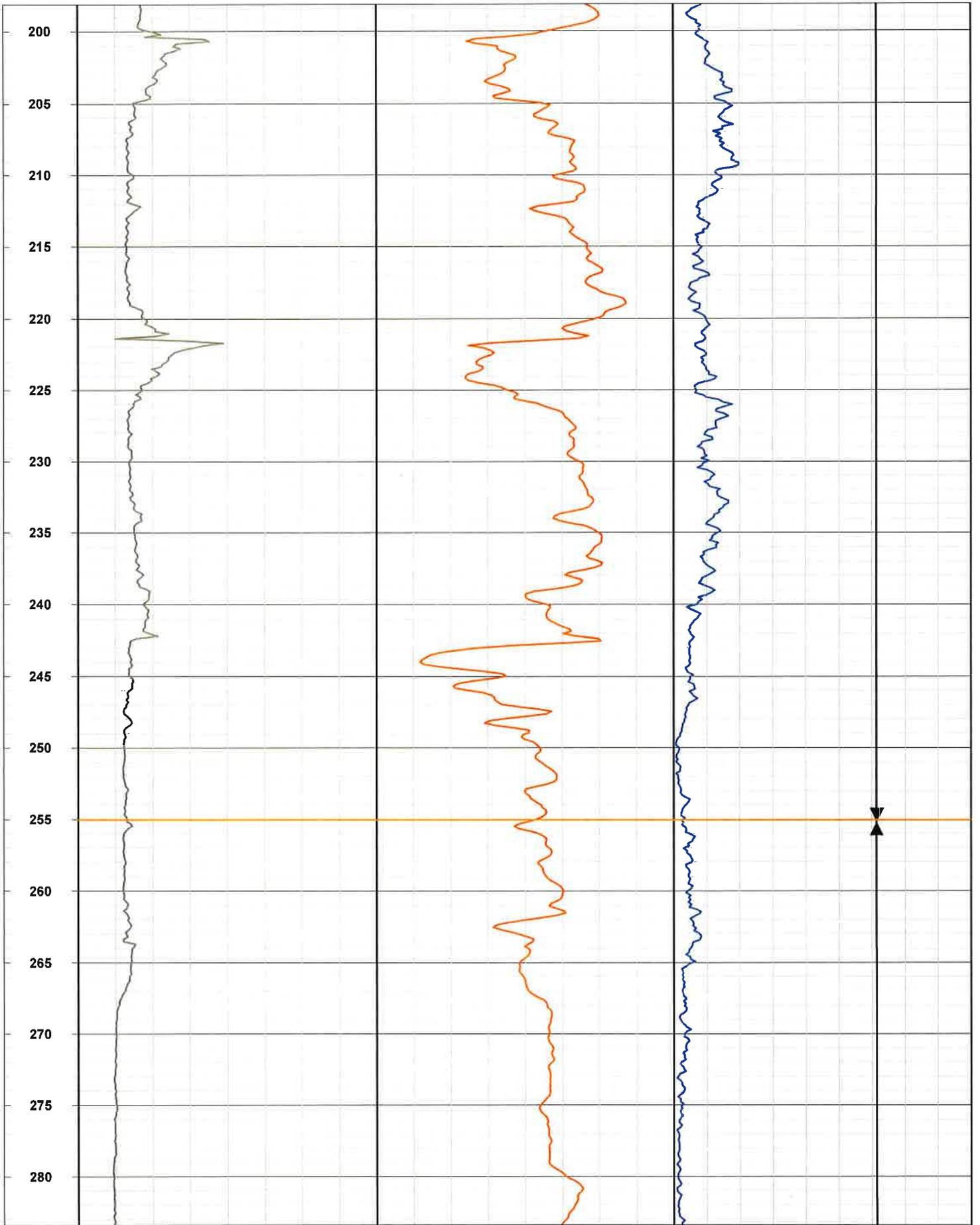
Hole Medium: Water

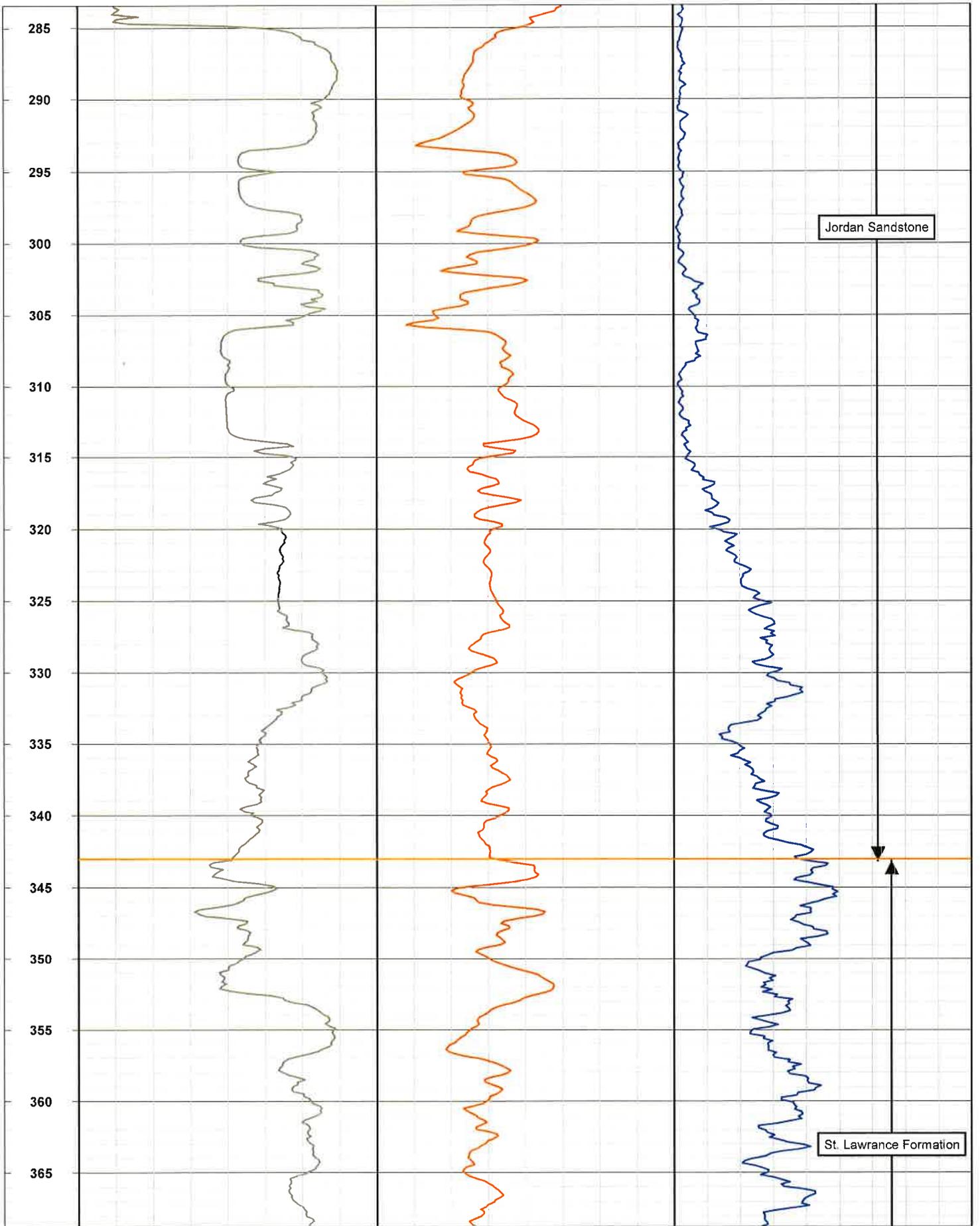
Date Logged: 7/18/2022

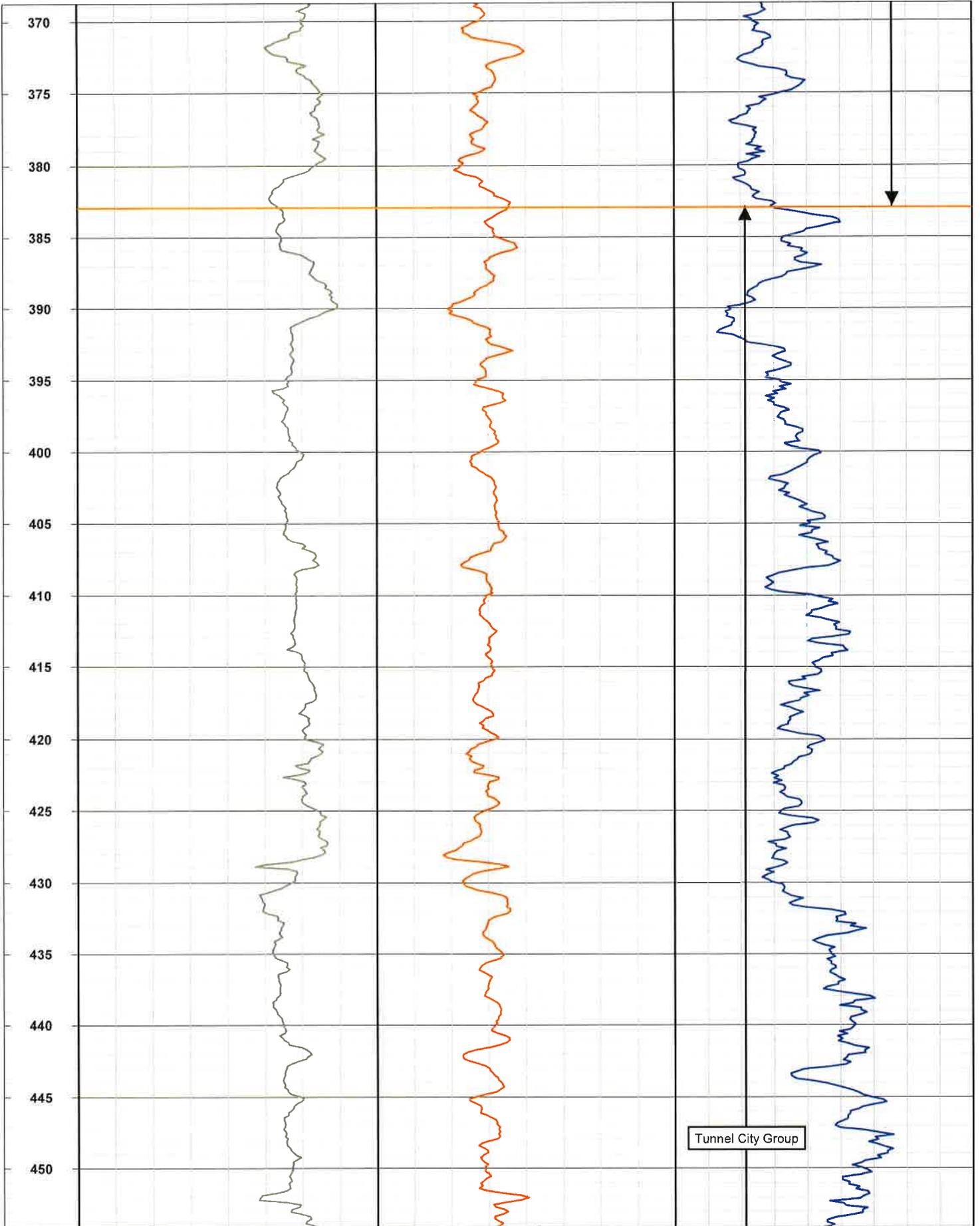


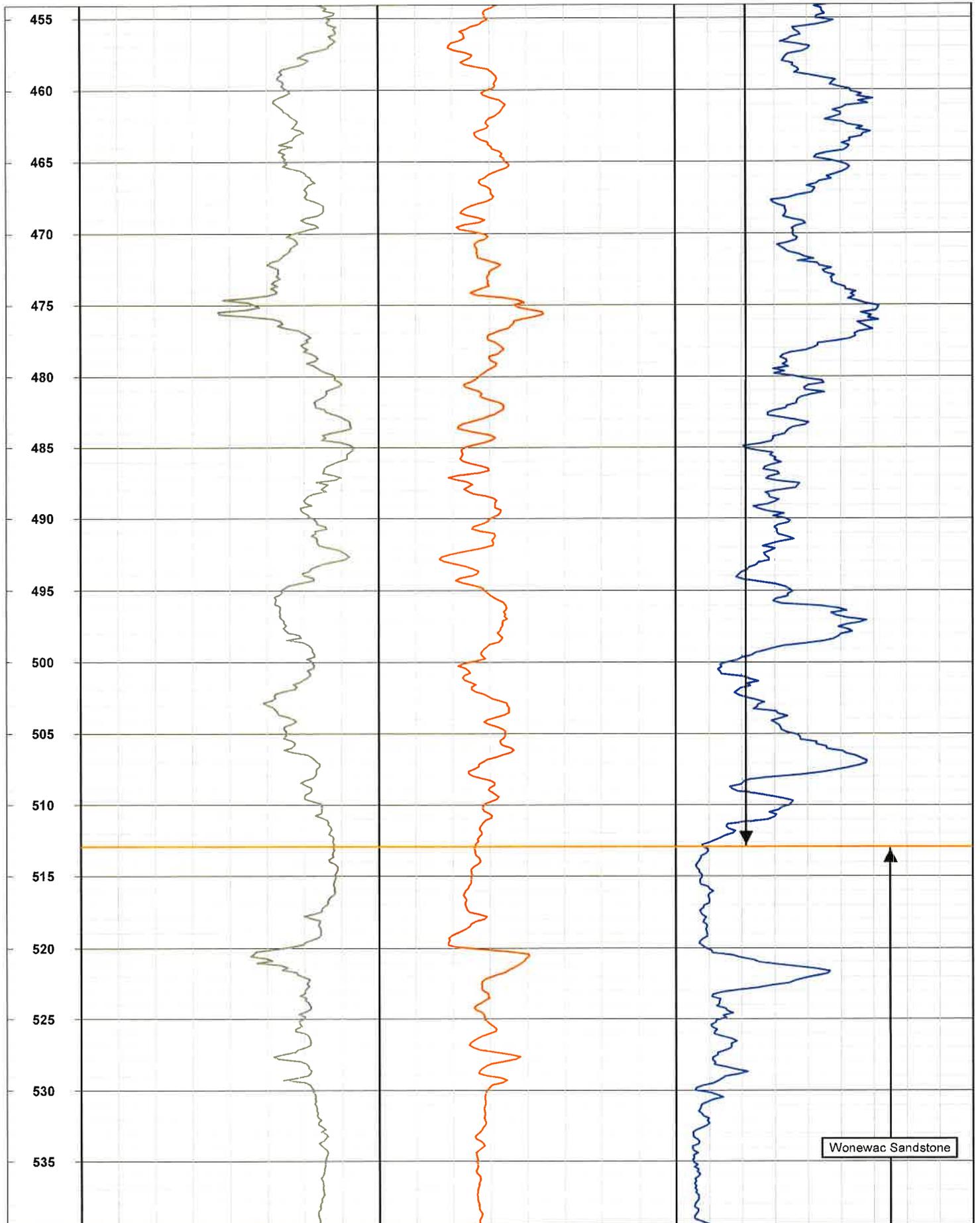


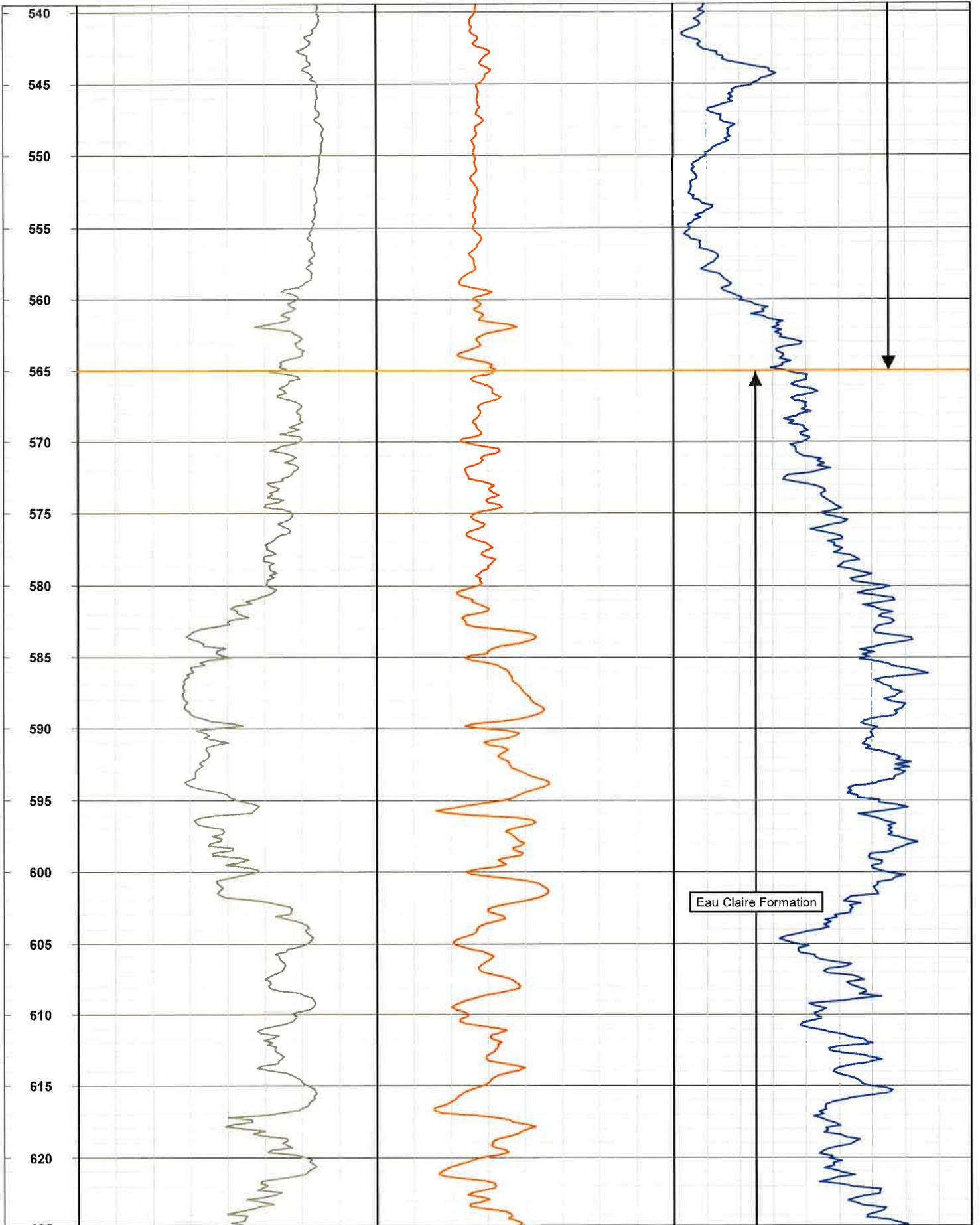


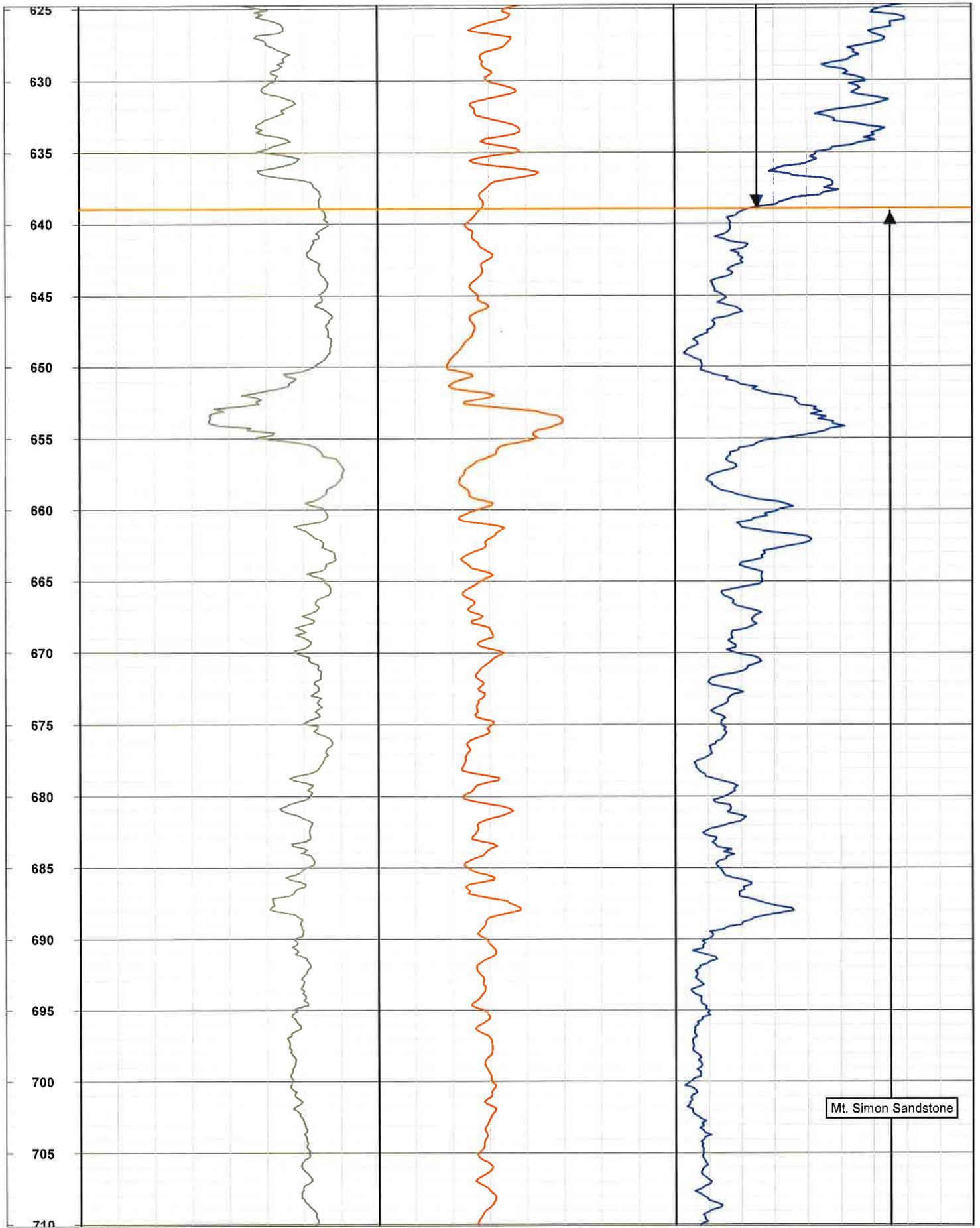


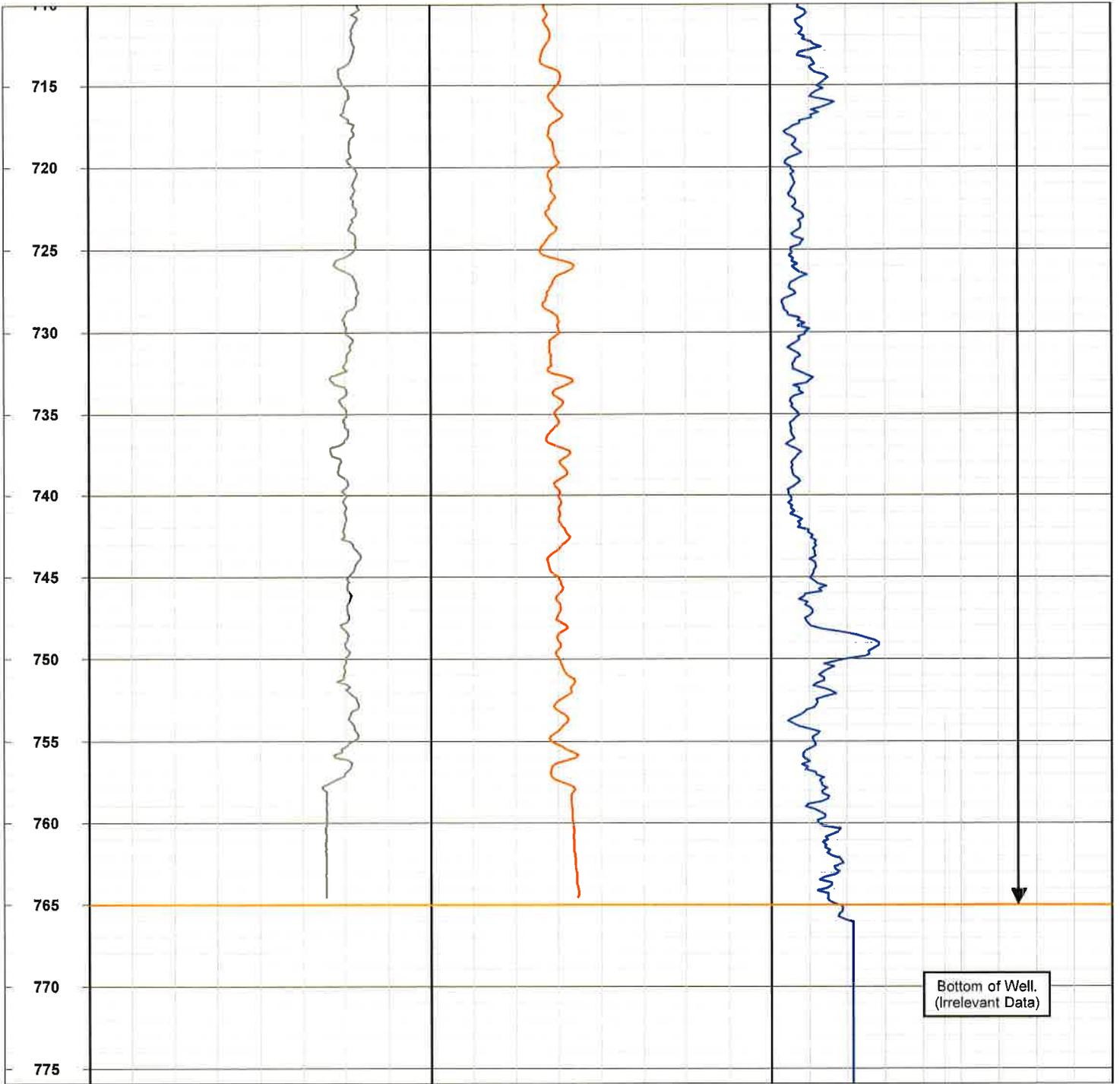












STEP TEST

PROJECT: CITY OF MINNETRISTA Well # 6 Uniq # 818310
 Test By: DON SILVERS Job # 3011468
 Meter Reading Beginning: 66752800
 Meter Reading Ending: 67180000

Well Information:

Transducer set at: 410 ft. (From Grade)
 Length of Casing: 425
 Length of OPEN: 168 Hp of Pump: 150
 Total Well Depth: 593 Model of Pump: 9CC
 Static Water Level: 176.30 ft (From Grade)
 Well Capacity: 650 GPM @ 390.3 PWL 3.03 G.P.F.D.D.

Page 1 of 2

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/16/2016	8:04	X		500			Start Up #6
	8:06	X		250	232.40	1"	Cloudy
	8:10	X		175	231.15	3/4"	Cloudy
	8:20	X			228.34	1/2"	Cloudy
	8:30	X			227.70	3/8"	Clear
	8:43	X			226.10	1/16"	10-sec shut down-bad-shut off valve on sand meter
	8:58	X			225.15	1/16"	Clear
	9:12	X			225.35	1/16"	Clear
	9:45	X			226.25	1/16"	Clear
	10:10	X			227.10	1/16"	Clear
	10:25	X			227.48	1/16"	Clear
	10:45	X			228.15	1/16"	Clear
	11:22	X			228.90	1/16"	.05 ml of sand in tester vial for 175 gpm test
	12:00		X		229.62	1/16"	
	12:04		X	375			Clear
	12:08		X		254.1	1/8"	
	12:15		X		263.3	1/8"	
	12:40		X		268.25	1/8"	
	1:40		X		273.92	1/8"	
	2:20		X		275.65	1/8"	
	3:00		X		277.15	1/16"	
	3:45		X		278.53	1/16"	
	4:00		X		279.05	1/16"	.35 ml of sand in tester vial for 375 gpm test

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-1 minute checks
 5-5 minute checks

2-30 minute checks
 1-per hour as needed

NOTES:

STEP TEST

PROJECT: CITY OF MINNETRISTA Well # 6 Uniq # 818310
 Test By: DON SILVERS Job # 3011468
 Meter Reading Beginning: 66752800
 Meter Reading Ending: 67180000

Well Information:

Transducer set at: 410 ft. (From Grade)

Length of Casing: 425
 Length of OPEN: 168 Hp of Pump: 150
 Total Well Depth: 593 Model of Pump: 9CC

Static Water Level: 176.30 ft (From Grade)

Well Capacity: 650 GPM @ 390.3 PWL 3.03 G.P.F.D.D.

Page 2 of 2

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/16/2016	4:04		X	500			
	4:15		X		310.55	1/4"	
	5:00		X		327.87	3/16"	
	5:45		X		332.60	3/16"	Leave Site
	7:40		X		337.05	1/2"	
	8:02		X		338.45	1/2"	3.5ml of sand in tester vial for 50 gpm test
	8:09		X		338.70	1/2"	
	8:10		X	600		3/4"	
	8:20		X		350.50	1/2"	
	8:30		X		362.00	3/8"	
	9:10		X		368.20	3/8"	
	10:00		X		371.30	3/8"	
	11:00		X		374.40	3/8"	
	11:45		X		376.60	3/8"	3.5 ml of sand in tester vial for 600 gpm test
8/17/2016	12:10	X		650	-	-	
	12:15	X			384.3	1/2"	
	12:30	X			387.9	1/2"	
	12:45	X			389.1	3/8"	
	1:00	X			390.30	3/8"	
	1:10	X			390.50	3/8"	
	1:12	X		300			Turned down to eliminate sand
8/17/2016	9:25	X					15' of recovery left = .95 recovered-currently 1.5'/hr

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-1 minute checks
 5-5 minute checks

2-30 minute checks
 1-per hour as needed

NOTES:

CONSTANT RATE TEST

PROJECT: MINNETRISTA

Well # 6

Uniq # 818310

Test By: DON SILVERS

Job # 3011468

Meter Reading Beginning: 67180000

Meter Reading Ending: _____

Well Information:

Transducer set at: 410 ft. (From Grade) 220.66

Length of Casing: 425

Length of OPEN: 168

Hp of Pump: 150

Total Well Depth: 593

Model of Pump: 9cc

Static Water Level: 189.34 (step 176.3) ft (From Grade)

Well Capacity: 500 GPM @ 367.35 PWL 2.8 G.P.F.D.D.

Page 1 of 3

178.01' of D.D. Not Stable

Using static at beginning of constant rate test

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/18/2016	8:00	X					Not 95% recovered - Start 24 hr per Greg Johnson
	8:40	X					Start up Pump - Well #6
	8:45	X		500	277.70	1/2"	
	8:57	X		500	302.65	3/8"	
	9:10	X		500	310.71	1/4"	
	9:20	X		500	313.35	1/4"	
	9:23	X		500			Start Sand Meter
	9:30	X		500	315.00	1/4"	
	9:45	X		500	317.80	1/4"	
	10:00	X		500	326.20	3/16"	
	10:15	X		500	328.00	1/4"	
	10:45	X		500	331.10	1/4"	
	11:15	X		500	333.52	1/4"	
	11:45	X		500	335.52	1/4"	
	11:49	X		500		1/4"	Shut Off Sand Meter (clean)
	11:50	X		500		1/4"	Re-Start Sand Meter
	12:45		X	500	339.11	1/4"	
	1:45		X	500	342.09	1/4"	
	1:49		X	500		1/4"	Shut off Sand Meter 2.64 ppm
	1:50		X	500		1/4"	Re-Start Sand Meter
	2:45		X	500	344.15	1/4"	
	2:49		X	500		1/8"	Shut Off Sand Meter 1.76 ppm
	2:50		X	500		1/8"	Re-Start Sand Meter

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-1 minute checks
5-5 minute checks

2-30 minute checks
1-per hour as needed

NOTES:

CONSTANT RATE TEST

PROJECT: MINNETRISTA

Well # 6

Uniq # 818310

Test By: DON SILVERS

Job # 3011468

Meter Reading Beginning: 67180000

Meter Reading Ending: _____

Well Information:

Transducer set at: 410 ft. (From Grade) 220.66

Length of Casing: 425

Length of OPEN: 168

Total Well Depth: 593

Hp of Pump: 150

Model of Pump: 9cc

Static Water Level: 189.34 (step 176.3) ft (From Grade)

Well Capacity: 500 GPM @ 367.35 PWL 2.8 G.P.F.D.D.

Page 2 of 3

178.01' of D.D. Not Stable

Using static at beginning of constant rate test

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/18/2016	3:45		X	500	346.12	1/8"	
	3:49		X	500		1/8"	Shut Off sand meter 1.76 ppm
	3:50		X	500		1/8"	Re-Start sand meter
	4:45		X	500	348.01	1/8"	
	4:49		X	500		1/8"	Shut Off sand meter 1.76 ppm
	4:50		X	500		1/8"	Re-Start sand meter
	4:55		X	500		1/8"	67424600 Leave Site
8/19/2016	7:45	X		500	363.85	1/16"	67861200 Arrive at Site
	7:49	X		500		1/16"	Shut off sand meter .88 ppm
	7:50	X		500		1/16"	Re-Start Sand Meter
	8:45	X		500	364.70	1/16"	
	9:45	X		500	365.47	1/16"	
	10:45	X		500	366.08	1/16"	
	11:45	X		500	366.66	1/16"	
	12:45		X	500	367.35	1/16"	
	1:00		X				Shut Down 68012000 per Dave Traut
	1:05		X	RECOVERY	276.55		
	1:10		X		265.80		Shut Down Sand Meter .51 ppm
	1:20		X		256.18		
	1:25		X		253.10		
	1:30		X		251.05		Leave Site
8/22/2016	10:20	X		↓	189.20		

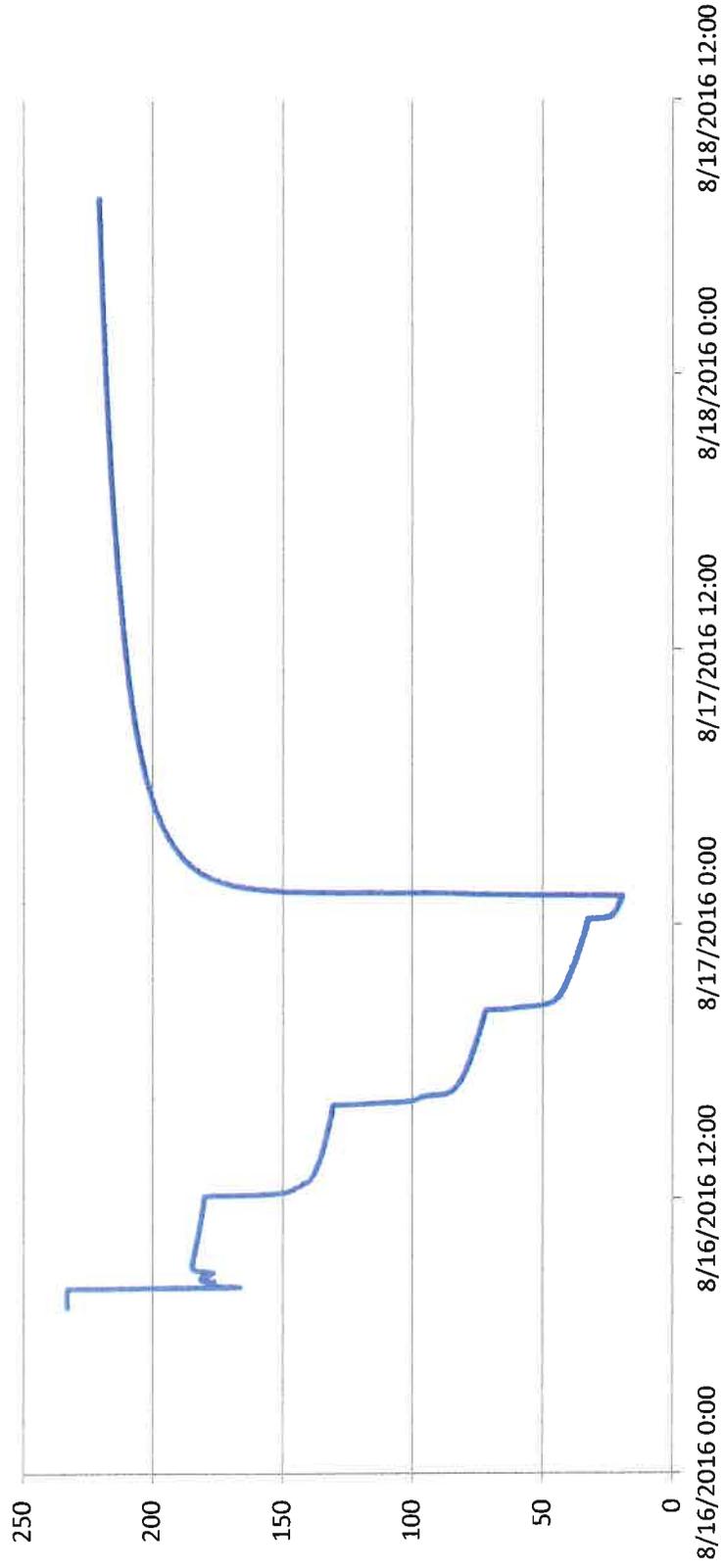
The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-1 minute checks
5-5 minute checks

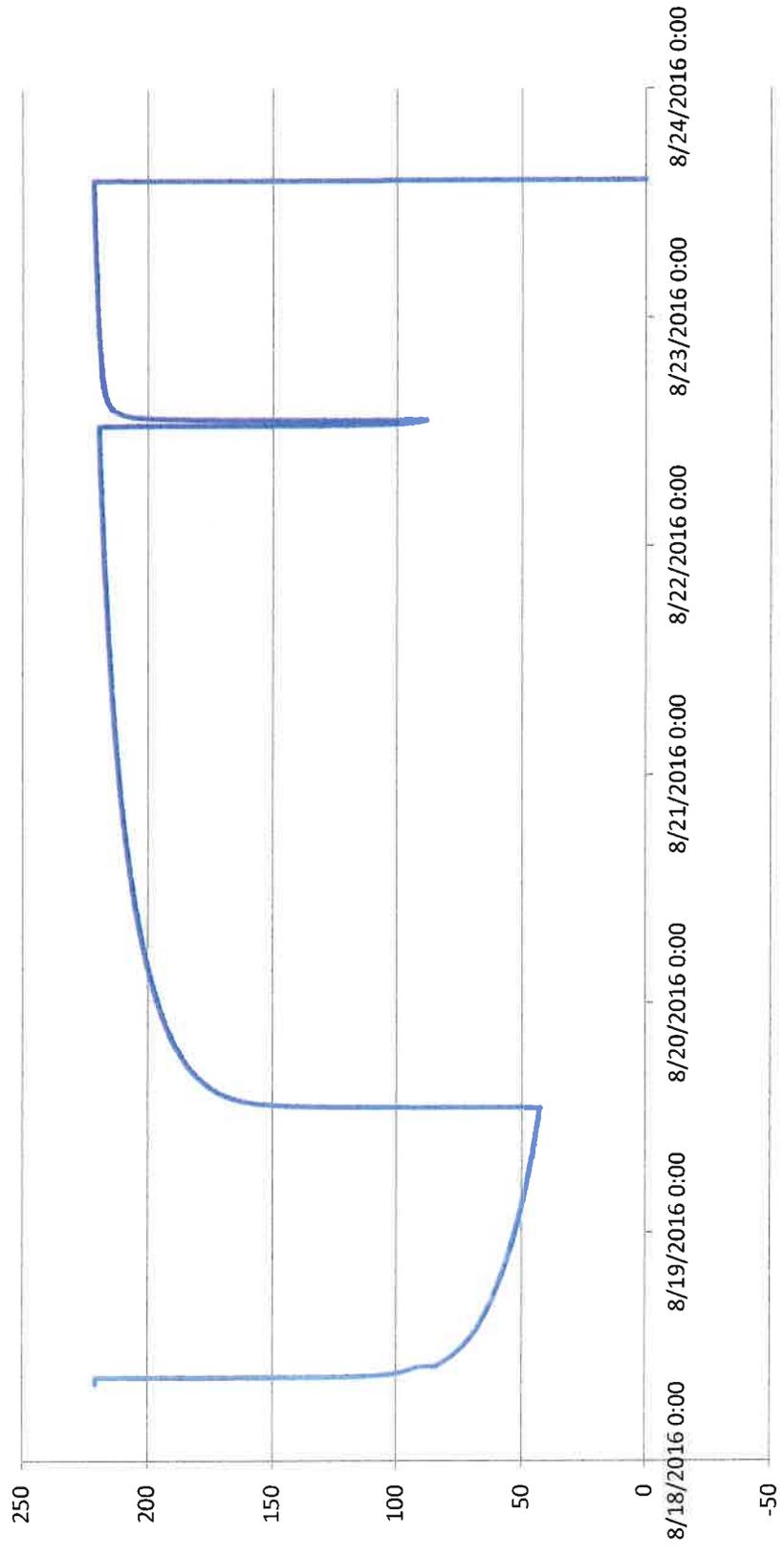
2-30 minute checks
1-per hour as needed

NOTES:

MINNETRISTA WELL #6 UNIQUE #818310 STEP TEST



MINNETRISTA WELL #6 UNIQUE #818310 CONSTANT RATE



STEP TEST

PROJECT: CITY OF MINNETRISTA Well # 7 Uniq # 818311

Test By: DON SILVERS Job # 3011468

Meter Reading Beginning: 72900900

Meter Reading Ending: 73325800

Well Information:

Transducer set at: 300 ft. (From Grade)

Length of Casing: 364 346 - PVC adapter failure on transducer cable

Length of OPEN: 153 Hp of Pump: 125

Total Well Depth: 517 Model of Pump: 1100-S-1250-3

Static Water Level: 124.60 ft (From Grade)

Well Capacity: 600 GPM @ 330.1 PWL 2.91 G.P.F.D.D.

Page 1 of 2

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/16/2016	8:04	X		200		1/8"	Cloudy
	8:06	X			155.50	1/8"	Cloudy
	8:10	X			158.30	1/8"	Clear
	8:15	X			160.50	1/16"	Clear
	8:35	X			167.40	1/16"	Clear
	8:38	X			-		Rossam Sand Tester Start
	9:17	X			170.75	1/16"	
	9:30	X			171.40	1/16"	
	9:40	X			171.84	1/16"	
	10:30	X			173.50	1/16"	
	12:00		X		175.75	1/16"	
	12:04		X	400			.015 ml of sand in tester vial for 200 gpm test
	12:06		X		206.00	1/16"	
	12:15		X		212.10	1/16"	
	12:45		X		216.85	1/16"	
	1:15		X		221.60	1/16"	
	1:50		X		223.55	1/16"	
	2:25		X		225.10	1/16"	
	3:03		X		226.35	1/16"	
	3:32		X		227.24	1/16"	
	3:52		X		227.90	1/16"	
	4:03		X		228.05	1/16"	.015 ml of sand in tester vial for 400 gpm test

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-1 minute checks
5-5 minute checks

2-30 minute checks
1-per hour as needed

NOTES:

STEP TEST

PROJECT: CITY OF MINNETRISTA Well # 7 Uniq # 818311

Test By: DON SILVERS Job # 3011468

meter Reading Beginning: 72900900

Meter Reading Ending: 73325800

Well Information:

Transducer set at: 300 ft. (From Grade)

Length of Casing: 364 346 - PVC adapter failure on transducer cable

Length of OPEN: 153 Hp of Pump: 125

Total Well Depth: 517 Model of Pump: 1100-S-1250-3

Static Water Level: 124.60 ft (From Grade)

Well Capacity: 600 GPM @ 330.1 PWL 2.91 G.P.F.D.D.

Page 2 of 2

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/16/2016	4:04		X	500			
	4:06		X		250.20	1/8"	
	4:10		X		252.90	1/16"	
	4:15		X		255.45	1/16"	
	4:40		X		264.25	1/16"	
	5:40		X		267.81	1/16"	Left Site (1 hour)
	7:45		X		273.60	1/16"	
	8:00		X		274.10	1/16"	.03 ml of sand in tester vial for 500 gpm test
	8:10		X	600	-	-	
	8:12		X		305.90	1/8"	
	8:15		X		307.60	1/8"	
	8:18		X		309.20	1/16"	
	8:45		X		322.20	1/16"	
	9:00		X		324.90	1/16"	
	10:00		X		326.70	1/16"	
	11:00		X		327.80	1/16"	.03 ml of sand in tester vial for 600 gpm test
	11:30		X		330.10	1/16"	
Water level less than 20' above pump - did not turn valve open to next step per request of Greg Johnson.							
8/17/2016	12:10	X					Turned well #6 up to 650 gpm
	12:25			600	332.65	1/16"	
	1:00				334.03	1/16"	
8/17/2016	9:45	X			150.65		16.3 ft of recovery left before 95% recovered
							Currently Recovering @ 1/43' / Hr.

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-1 minute checks
5-5 minute checks

2-30 minute checks
1-per hour as needed

NOTES:

CONSTANT RATE TEST

PROJECT: MINNETRISTA

Well # 7

Uniq # 818311

Test By: DON SILVERS

Job # 3011468

Meter Reading Beginning: 81209200

Meter Reading Ending: _____

Well Information:

Transducer set at: 342 ft. (From Grade) 205.21

Length of Casing: 364

Length of OPEN: 153

Total Well Depth: 517

Hp of Pump: 125

Model of Pump: 1100-S-1250-3

Static Water Level: 136.7 (step 124.6) ft (From Grade)

Well Capacity: 500 GPM @ 284.49 PWL 3.4 G.P.F.D.D.

Page 1 of 2

147.79' of D.D. Not Stable

Using static at beginning of constant rate test

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/18/2016	8:15	X					Not 95% recovered - Start 24 hr per Greg Johnson
	8:40	X					Start Up #7
	8:45	X			262.60	1/4"	GPM Meter is not working
	8:50	X			273.1	1/8"	
	8:55	X			278.1	1/8"	
	9:05	X			282.3	1/8"	
	9:10	X					Shut Down #7 Bad Meter
	9:12	X		500		1/4"	Start Up #7
	9:15	X			247.20	1/8"	Start Rossum Sand Meter
	9:20	X			247.35	1/16"	
	9:25	X			247.50	1/16"	
	9:30	X			247.76	1/16"	
	9:35	X			248.15	1/16"	
	10:00	X			250.3	1/16"	
	10:30	X			252.73	1/16"	
	11:00	X			254.65	1/16"	
	11:30	X			256.25	1/16"	
	12:30		X		259.21	1/16"	
	1:30		X		261.71	1/16"	
	2:30		X		263.72	1/16"	
	3:30		X		265.58	1/16"	
	4:30		X		267.51	1/16"	
	4:40		X			1/16"	81437000 Leave Site

The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-1 minute checks
5-5 minute checks

2-30 minute checks
1-per hour as needed

NOTES:

CONSTANT RATE TEST

PROJECT: MINNETRISTA

Well # 7

Uniq # 818311

Test By: DON SILVERS

Job # 3011468

Meter Reading Beginning: 81209200

Meter Reading Ending: _____

Well Information:

Transducer set at: 342 ft. (From Grade) 205.21

Length of Casing: 364

Length of OPEN: 153

Total Well Depth: 517

Hp of Pump: 125

Model of Pump: 1100-S-1250-3

Static Water Level: 136.7 (step 124.6) ft (From Grade)

Well Capacity: 500 GPM @ 284.49 PWL 3.4 G.P.F.D.D.

Page 2 of 2

147.79' of D.D. Not Stable

Using static at beginning of constant rate test

Date	Time	AM	PM	GPM	PWL	Sand/Gal	COMMENTS
8/19/2016	7:50	X		500	281.61	1/16"	81891500 Arrive at Site
	8:45	X		500	282.17	1/16"	
	9:45	X		500	282.91	1/16"	
	10:45	X		500	283.24	1/16"	
	11:45	X		500	284.27	1/16"	
	12:45		X	500	284.49	1/16"	
	1:00		X				SHUT DOWN 82037500
	1:05		X	RECOVERY	223.50		per Dave Traut
	1:10		X	↓	208.55		Shut Down Sand Meter .06 ppm
	1:20		X	↓	199.40		
	1:30		X	↓	195.17		Leave Site
8/22/2016	1:32	X		0	137.81		
	11:40	X		500			Start Up per Dave Traut to pull water samples
							21,500 gallons removed for this step
	12:23		X				Shut Down after 3 exchanges of water & time to pull samples
8/23/2016	8:10	X			136.20		Pulled Transducer
8/24/2016	8:15	X			133.23		
	2:15		X		132.74		

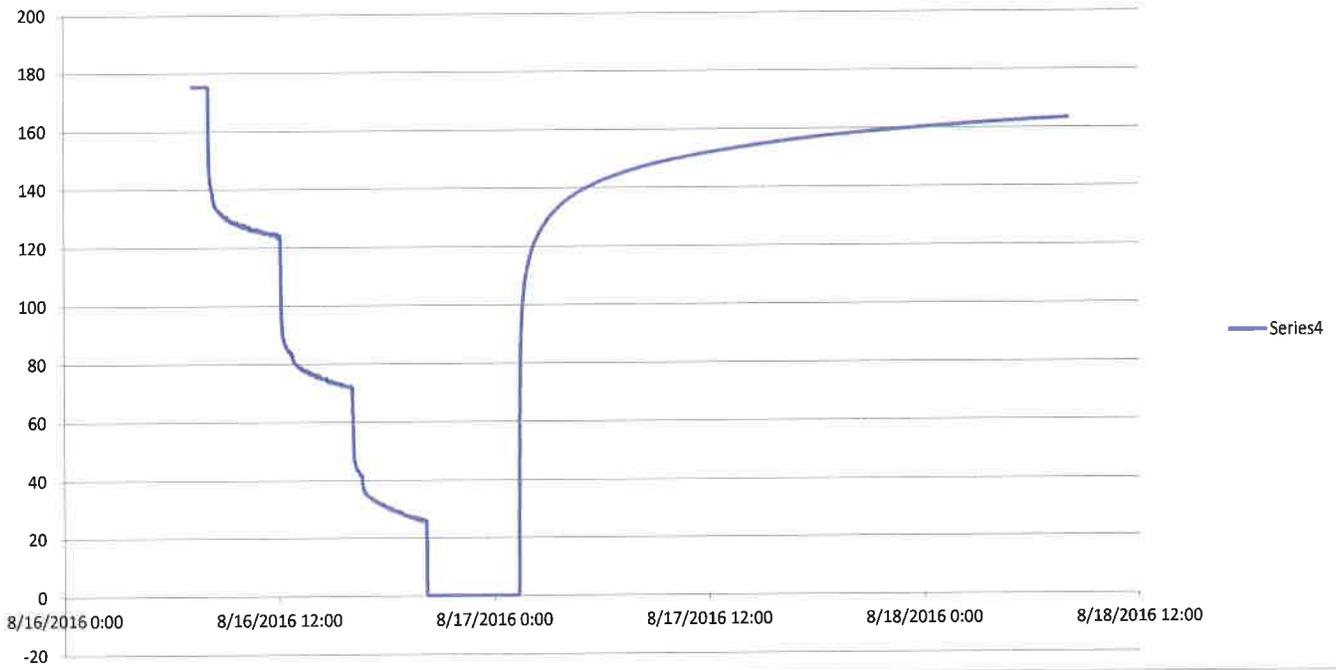
The data stated above is representative of the time spent pumping at the capacities stated. Deviation from either time spent pumping or both could change the outcome if these results.

NOTE: On RECOVERY need: 5-1 minute checks
5-5 minute checks

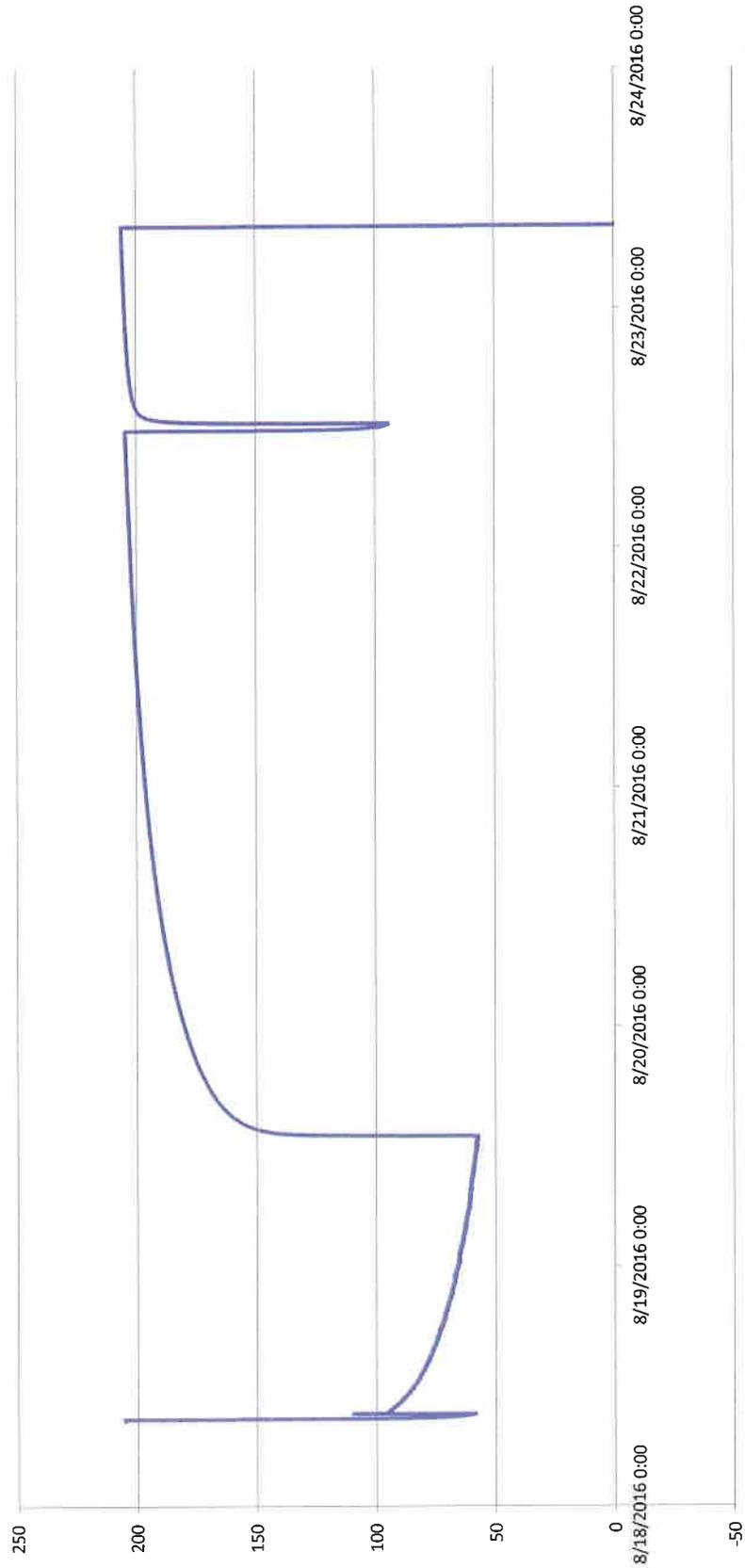
2-30 minute checks
1-per hour as needed

NOTES:

MINNETRISTA WELL #7 UNIQUE #818311 STEP TEST

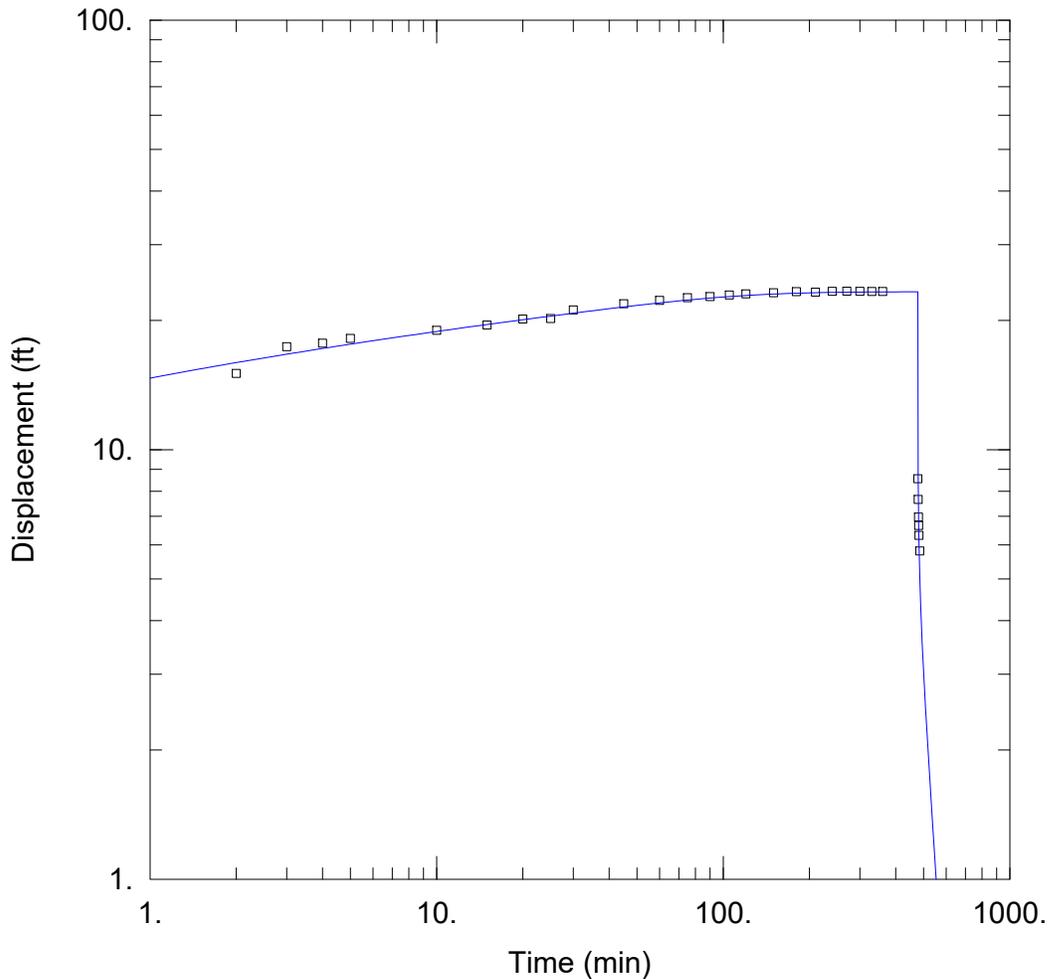


MINNETRISTA WELL #7 UNIQUE #818311 CONSTANT RATE



ATTACHMENT 4

AQUIFER TEST ANALYSES



WELL TEST ANALYSIS

Data Set: U:\...\Test Well 10 (Jordan interval - Leaky).aqt

Date: 04/16/23

Time: 22:51:08

PROJECT INFORMATION

Company: LRE

Client: AE2S

Location: City of Minnetrista

Test Well: Test Well 10 (Jordan interval)

Test Date: 6/20/22

AQUIFER DATA

Saturated Thickness: 88. ft

Anisotropy Ratio (Kz/Kr): 1.

Aquitard Thickness (b'): 1. ft

Aquitard Thickness (b''): 1. ft

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
Test Well 10 (Jordan)	0	0

Well Name	X (ft)	Y (ft)
□ Test Well 10 (Jordan)	0	0

SOLUTION

Aquifer Model: Leaky

Solution Method: Hantush

T = 2631.3 ft²/day

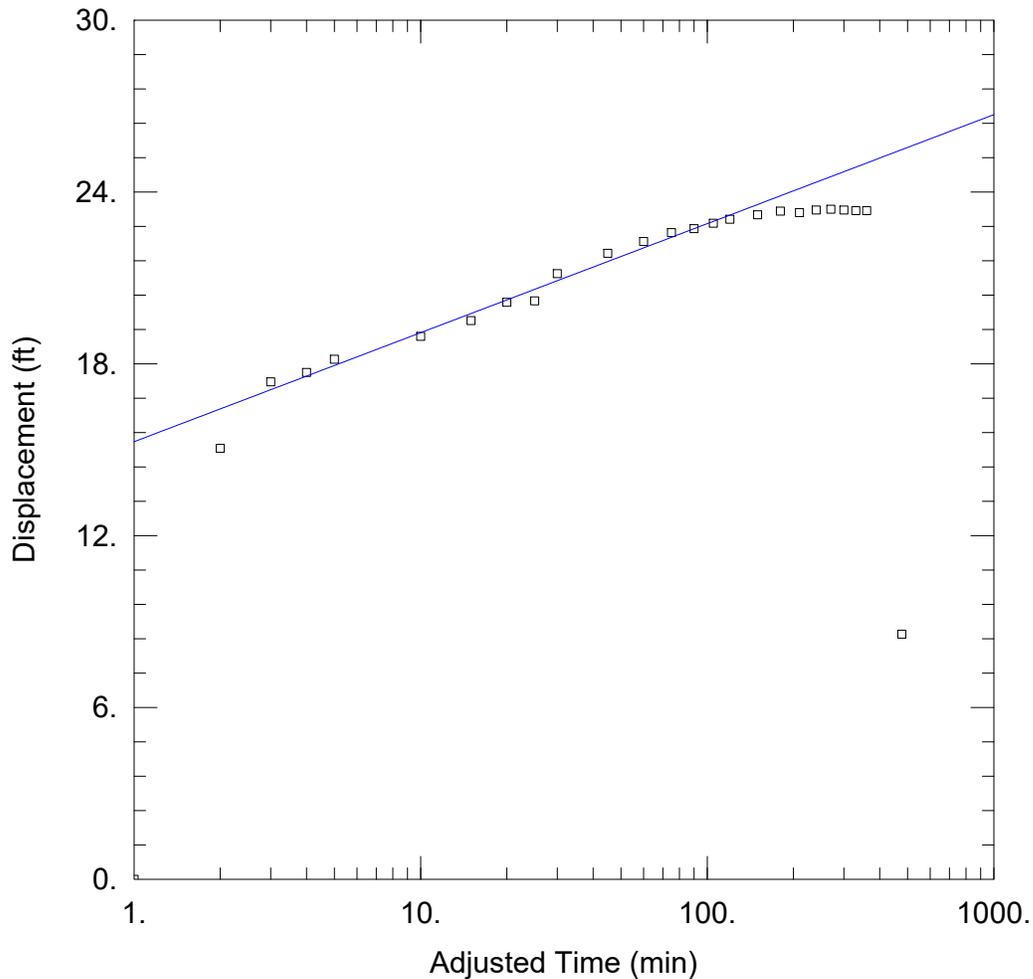
S = 0.03828

r/B' = 0.04

β' = 0.1

r/B'' = 0.

β'' = 0.



WELL TEST ANALYSIS

Data Set: U:\...\Test Well 10 (Jordan interval Cooper -Jacob)).aqt
 Date: 05/31/23 Time: 21:42:44

PROJECT INFORMATION

Company: LRE
 Client: AE2S
 Location: City of Minnetrista
 Test Well: Test Well 10 (Jordan interval)
 Test Date: 6/20/22

AQUIFER DATA

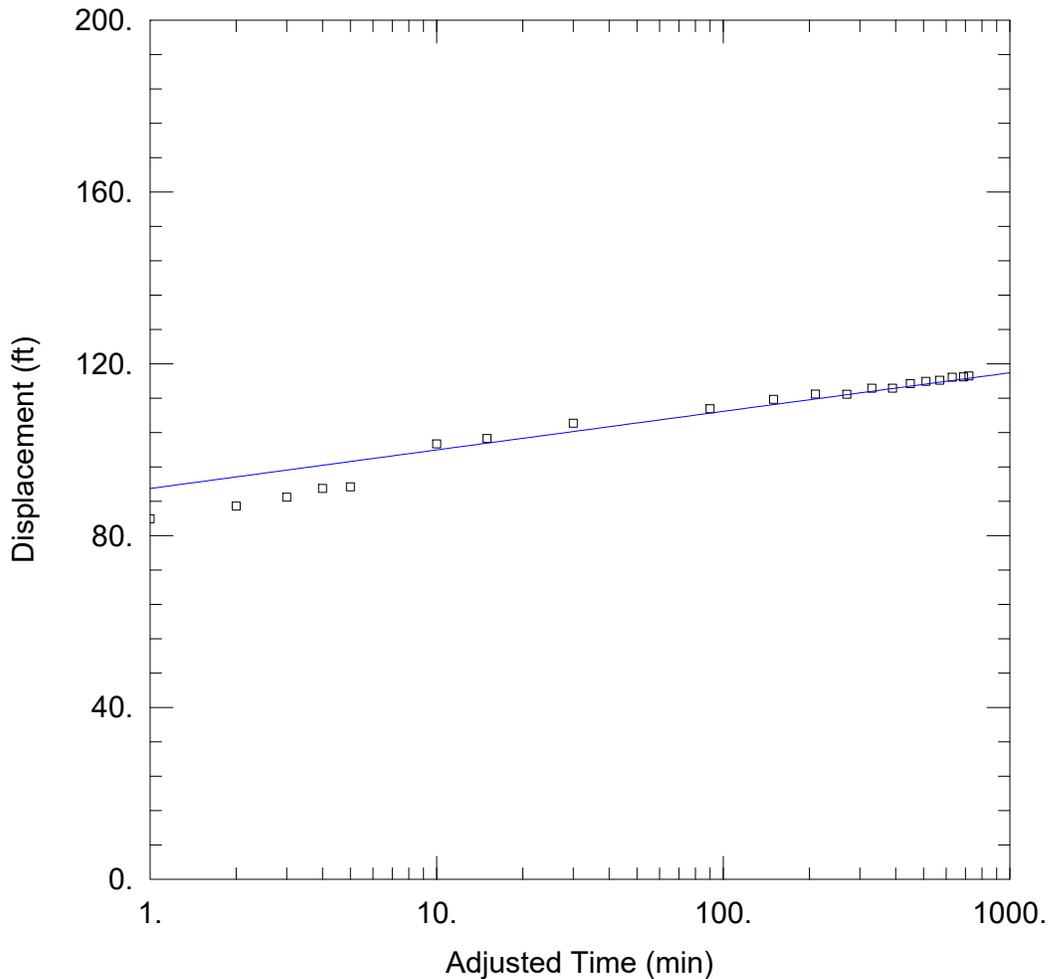
Saturated Thickness: 88. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
Test Well 10 (Jordan)	0	0	□ Test Well 10 (Jordan)	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob
 T = 5559.3 ft²/day S = 0.005001



WELL TEST ANALYSIS

Data Set: U:\...\Test Well 10 (TCW interval- Cooper Jacob)).aqt
 Date: 04/16/23 Time: 23:11:26

PROJECT INFORMATION

Company: LRE
 Client: AE2S
 Location: City of Minnetrista
 Test Well: Test Well 10 (TCW interval)
 Test Date: 7/1/22

AQUIFER DATA

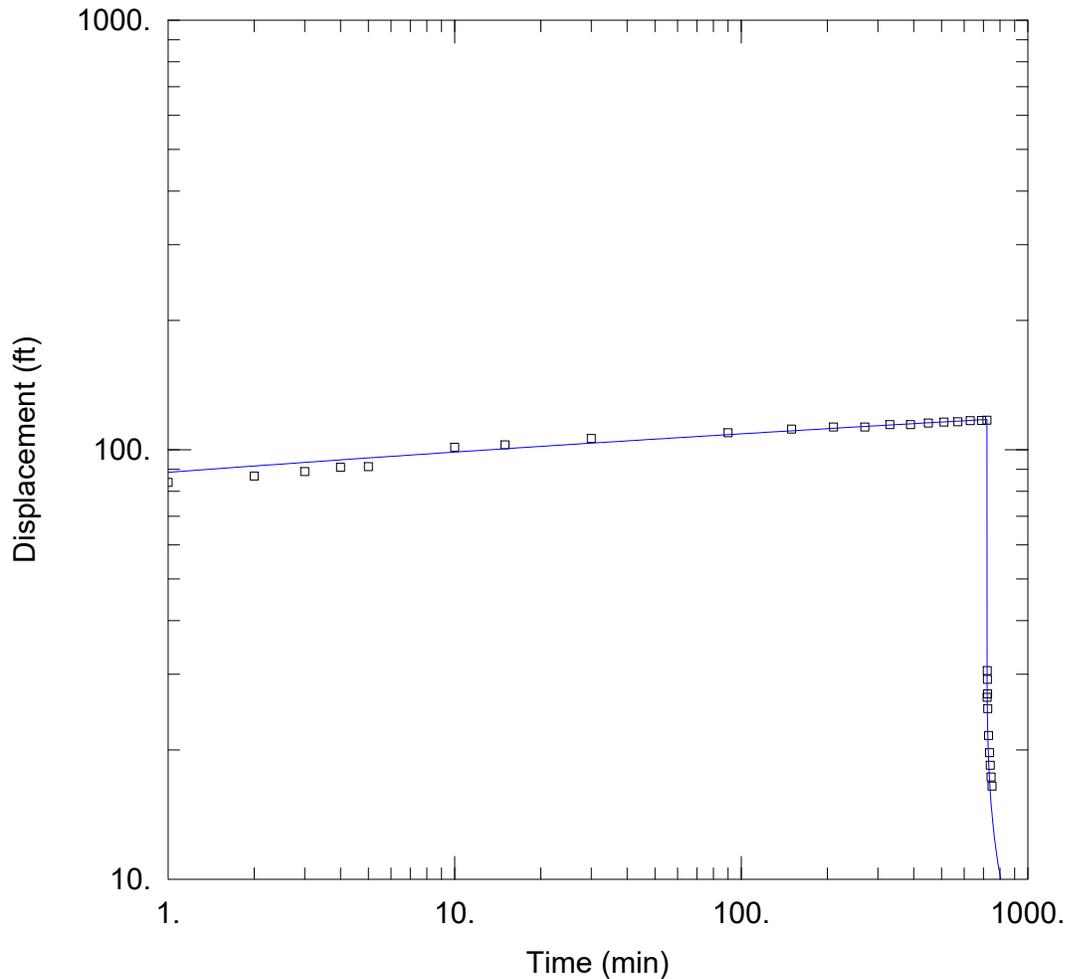
Saturated Thickness: 182. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
Test Well 10 (TCW Interval)	0	0	□ Test Well 10 (TCW Interval)	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob
 T = 1351.4 ft²/day S = 1.316E-11



WELL TEST ANALYSIS

Data Set: U:\...\Test Well 10 (TCW interval- Theis)).aqt

Date: 04/16/23

Time: 23:13:07

PROJECT INFORMATION

Company: LRE

Client: AE2S

Location: City of Minnetrista

Test Well: Test Well 10 (TCW interval)

Test Date: 7/1/22

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
Test Well 10 (TCW Interval)	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ Test Well 10 (TCW Interval)	0	0

SOLUTION

Aquifer Model: Confined

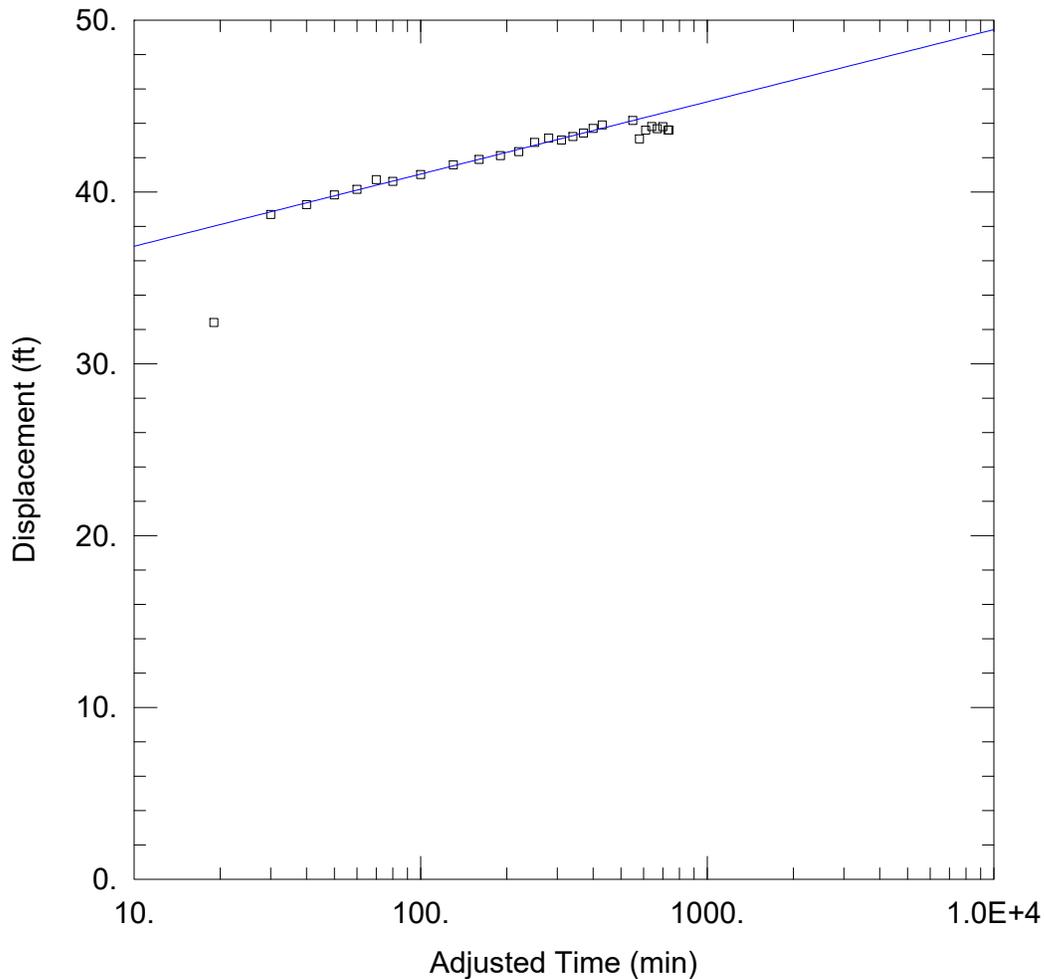
Solution Method: Theis

T = 1042.2 ft²/day

S = 1.829E-8

Kz/Kr = 1.

b = 182. ft



WELL TEST ANALYSIS

Data Set: U:\...\Test Well 10 (Mt Simon interval- Cooper Jacob)).aqt
 Date: 04/16/23 Time: 10:43:29

PROJECT INFORMATION

Company: LRE
 Client: AE2S
 Location: City of Minnetrista
 Test Well: Test Well 10 (Mt Sim interval)
 Test Date: 8/4/22

AQUIFER DATA

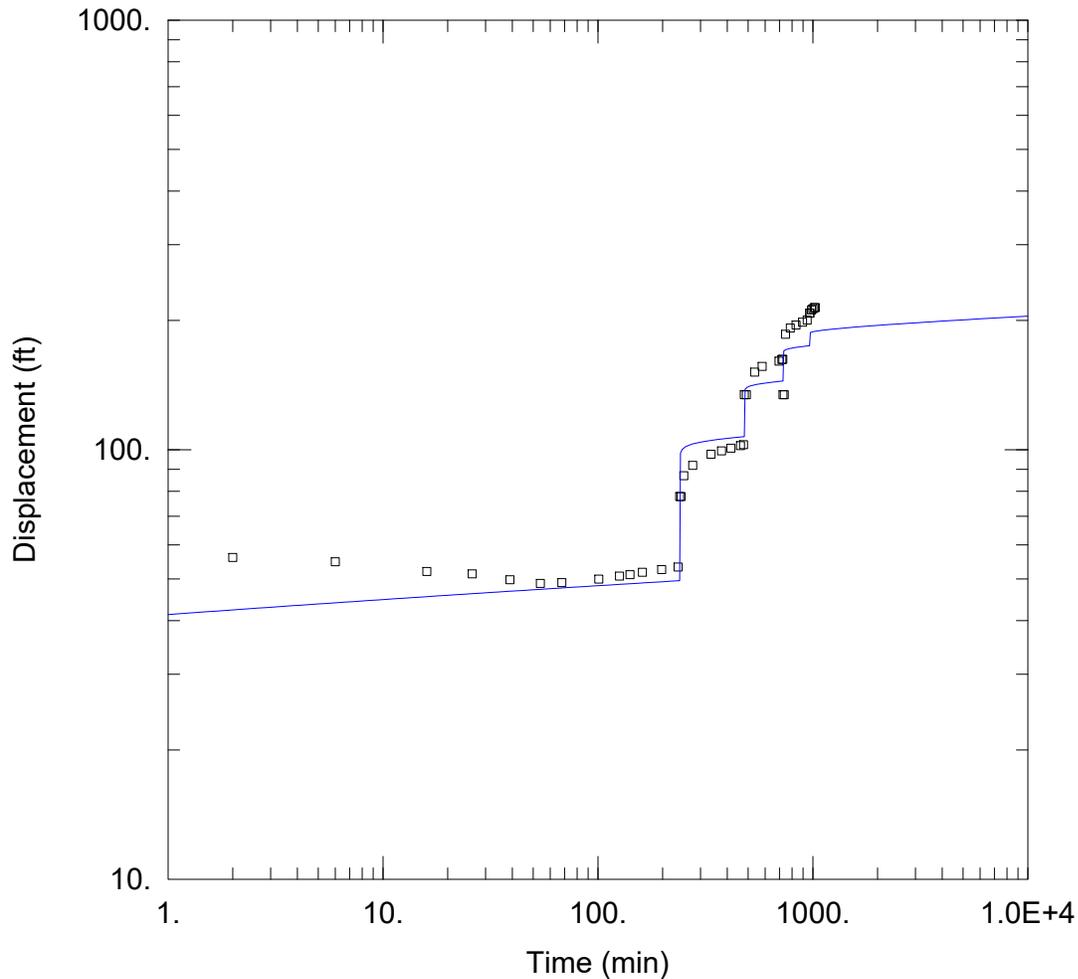
Saturated Thickness: 130. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
Test Well 10 (Mt. Simon interval)	0	0	□ Test Well 10 (Mt. Simon interval)	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob
 T = 2894. ft²/day S = 4.659E-7



WELL TEST ANALYSIS

Data Set: U:\5013AEN08 - Minnetrista\Hydrogeo\Aquifer Testing\Well 6 Step Test.aqt
 Date: 04/16/23 Time: 23:06:29

PROJECT INFORMATION

Company: LRE
 Client: AE2S
 Location: City of Minnetrista
 Test Well: Well 6
 Test Date: 8/16/16

AQUIFER DATA

Saturated Thickness: 200. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
Well 6	0	0	□ Well 6	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Step Test)

T = 1786.4 ft²/day

S = 5.438E-12

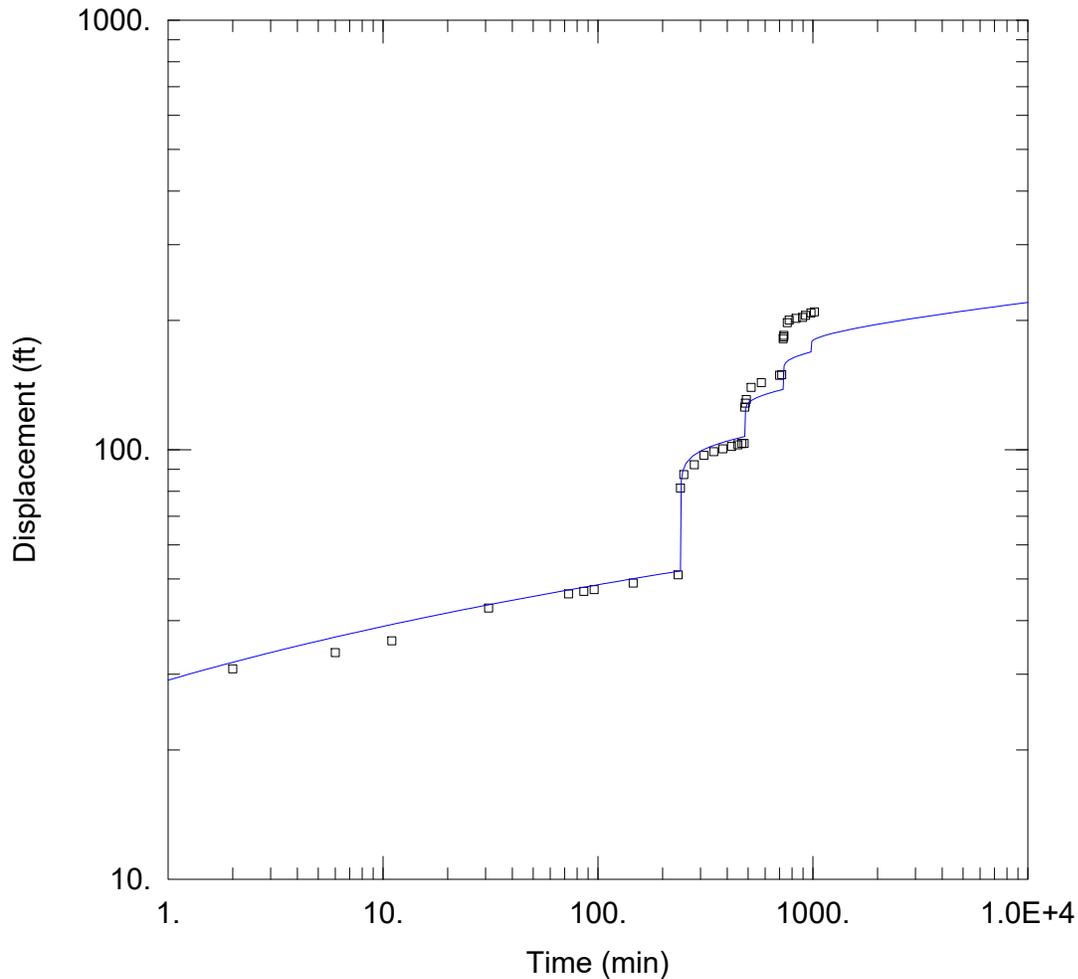
Sw = 0.

C = 0. min²/ft⁵

P = 2.

Step Test Model: Jacob-Rorabaugh

s(t) = 1.766Q + 0.Q².



WELL TEST ANALYSIS

Data Set: U:\5013AEN08 - Minnetrista\Hydrogeo\Aquifer Testing\Well 7 Step Test.aqt
 Date: 04/16/23 Time: 23:09:15

PROJECT INFORMATION

Company: LRE
 Client: AE2S
 Location: City of Minnetrista
 Test Well: Well 7
 Test Date: 8/16/16

AQUIFER DATA

Saturated Thickness: 210. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
Well 7	0	0	□ Well 7	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Step Test)
 $T = 726.8 \text{ ft}^2/\text{day}$ $S = 0.002039$
 $Sw = 0.$ $C = 0. \text{ min}^2/\text{ft}^5$
 $P = 2.$

Step Test Model: Jacob-Rorabaugh $s(t) = 1.087Q + 0.Q^2.$