

Joint Powers Water Board

AGENDA

Regular Meeting of August 26, 2024

Joint Powers WTP

11100 50th Street NE

Albertville, MN

6:00 PM

Chairperson

Ryan Gleason

Engineer

Chris Larson, SEH

Board Members

Tom Dierberger

Keith Wettschreck (for Joe Hagerty)

Chris Kauffman

Rob Olson

Bob Zagorski

Operations

John Seifert, Veolia

Jennifer Thomas, Veolia

Dustin Carlson, Veolia

1. Call to Order / Roll Call
2. Approve Agenda – Page 1
3. Consent Agenda – Page 2
 - 3.1 Approval of July 29, 2024 Regular Board Meeting Minutes – Page 3
 - 3.2 Approval of August 2024 List of Claims – Page 5
 - 3.3 Approval of August 2024 Budget Report – Page 6
 - 3.4 Approval of August 2024 Cash Balances Report – Page 7
 - 3.5 Receipt of July 2024 Investment Summary Report – Page 8
 - 3.6 Approval of July 2024 Monthly Operations Report – Page 12
 - 3.7 Approval of Minger Construction Pay App # 2 on ASR Looping Project – Page 25
4. General Business – Page 30
 - 4.1 2024 Abdo Long Range Planning Update – Page 31
 - 4.2 JPWB Potential Water Treatment Plant Land Acquisition – Page 44
 - 4.3 Joint Powers Water Board Draft 2025 Budget Discussion – Page 46
5. Engineer – Page 48
 - 5.1 Draft SCADA Memo – Page 49
6. Operations
 - 6.1 Lead Service Line Survey for Member Cities (Verbal)
 - 6.2 ASR / 15th Street Looping Project Update (Verbal)
7. Other Business / Announcements / Correspondence – Page 65
 - 7.1 Cybersecurity Incident Reporting Law – Page 66
8. Adjourn

CONSENT AGENDA

1. Call to Order. The regular meeting of the Joint Powers Water Board was called to order by Chairperson Gleason, on Monday, July 29, 2024 at 6:16 p.m. at the Joint Powers Water Board Water Treatment Plant, 11100 50th St NE, Albertville, MN 55301.

Board present: Ryan Gleason, Tom Dierberger, Joe Hagerty, Chris Kauffman, Rob Olson, Bob Zagorski.

Board absent: None.

Staff present: John Seifert, General Manager.

Staff absent: Jennifer Thomas, Office Manager, Dustin Carlson, Water Department Supervisor / Facilities Manager.

Engineering present: None.

Engineering absent: Chris Larson, Short Elliott Hendrickson, Inc. (SEH).

2. Approve Agenda. Hagerty moved, Zagorski seconded, to adopt the Agenda as presented. Motion carried 6-0.

3. Approve Consent Agenda. Dierberger moved, Zagorski seconded, to approve the Consent Agenda below. Motion carried 6-0.

- 3.1 Approval of June 24, 2024 Regular Board Meeting Minutes
- 3.2 Approval of July 2024 List of Claims
- 3.3 Approval of July 2024 Budget Report
- 3.4 Approval of July 2024 Cash Balances Report
- 3.5 Approval of May 2024 Investment Summary Report
- 3.6 Approval of June 2024 Investment Summary Report
- 3.7 Approval of June 2024 Monthly Operations Report
- 3.8 Upgrade to Plant Security
- 3.9 Emergency Filter Actuator Repair
- 3.10 MBI Final Pay App – Filter Rehabilitation

4. General Business.

- 4.1 **Authorization to Purchase New Dehumidifier.** General Manager Seifert told the Board that the water treatment plant currently utilizes five separate dehumidifiers to help reduce humidity. Due to age, some of the dehumidifiers need to be replaced. Staff evaluated the efficiencies of the current model 195 dehumidifiers and found a more efficient option, the Quest 335 (208-240Volt). The current dehumidifiers remove 195 pints of water in a 24 hour period. The proposed replacement has a larger capacity at 335 pints per day and, on an evaluation of energy applied per pints of water per day, provides a significant electrical cost savings. In comparison, the 195 unit removes 5.4 pints/kWh and the 335 removes 9.3 pints/kWh of electricity. Due to the ability of the 335 model to remove humidity at a lower temperature and that it runs on 240 volt power with less amperage, Staff feels that the single 335 would replace up to 2 of the 195s and provide a significant capital savings between the two options. Staff obtained three quotes for a Quest 335 (208-240Volt) dehumidifier: Mid-America

Meter (\$4,575), Alden Pool & Muni Supply (\$4,891) and Sylvane Co. (\$5,199). Seifert will contact Xcel Energy to see if there are any efficiency discounts associated with the new dehumidifier. Staff recommends authorizing the purchase of a new Quest 335 (208-240Volt) dehumidifier from Mid-America Meter in the amount of \$4,575. Kauffman moved, Zagorski seconded, to authorizing the purchase of a new Quest 335 (208-240Volt) dehumidifier from Mid-America Meter in the amount of \$4,575. Motion carried 6-0.

- 4.2 Emergency Well 2 Drive Replacement.** General Manager Seifert told the Board that Staff has been assessing the underground wire and splices to Well 2 and has determined that the underground wire needs a full replacement. Seifert told the Board that the approximate cost for this repair will be \$5,000 for the wire, \$3,000 for the electrical work, plus the cost of the conduit. Olson asked if this would be considered an emergency repair. Seifert said he recommends the Board approve the replacement of the wire to Well 2 with a price not to exceed \$20,000. Hagerty moved, Olson seconded, to approve the replacement of the wire to Well 2 with a price not to exceed \$20,000. Motion carried 6-0.

5. Engineer. None.

6. Operations and Office. None.

7. Other Business / Announcements / Correspondence. None.

8. Adjourn. Zagorski moved, Olson seconded, to adjourn the Joint Powers Water Board meeting at 6:28 PM. Motion carried 6-0.

John Seifert, Recording Secretary

JOINT POWERS WATER BOARD
CHECK REGISTER SUMMARY
 MEETING DATE: 8/26/24

Check #	Vendor	Check Date	Amount	Comments
17983e	CITY OF ST MICHAEL	8/20/2024	\$328,853.77	July 2024 Receipt by Charge
17984e	PAYMENT SERVICE NETWORK	8/20/2024	\$5,953.10	July 2024 Web Pay Fees
17985e	MN DEPT OF REVENUE	8/20/2024	\$1,509.00	July 2024 Sales Tax
17986e	CENTERPOINT ENERGY	8/20/2024	\$385.33	July 2024 Invoices
17987e	XCEL ENERGY	8/21/2024	\$16,502.59	Reissue Check 21109 as EFT
21155	AE2S	8/21/2024	\$28,684.85	Water Storage and Watermain Extension
21156	AMY DER XIONG/BARRY MOUA VANG	8/21/2024	\$122.01	Ref cr bal on 530 Terrace Rd NW
21157	ANDY/LESLIE SHERK	8/21/2024	\$234.67	Ref cr bal on 3089 Kalberg Ct NE
21158	CHAD ROHMAN	8/21/2024	\$331.76	Ref cr bal on 10690 108th Av N
21159	CHRISTOPHER/KATHLINE SAGER	8/21/2024	\$5.91	Ref cr bal on 1267 Irvine Dr
21160	CITY OF HANOVER	8/21/2024	\$64,030.82	July 2024 Receipts by Charge
21161	CUSTOM ELECTRICAL CONCEPTS LLC	8/21/2024	\$2,024.96	ASR New Flow Meter
21162	DANA TROUTH	8/21/2024	\$63.41	Ref cr bal on 214 Labeaux Av NE
21163	DEHN TREE COMPANY INC	8/21/2024	\$2,800.00	Emergency Storm Damage Removal - West Tower
21164	DELLIS/MARIANNE LENZ	8/21/2024	\$158.06	Ref cr bal on 1435 Esterly Oaks Dr
21165	EBI DRILLING	8/21/2024	\$2,250.00	Refund RPZ ACM1834 / Meter 1552678 Deposit
21166	ERIK/MARY MILLER	8/21/2024	\$90.63	Ref cr bal on 14982 50th St NE
21167	HOFF, BARRY PA	8/21/2024	\$100.00	August 2024 Invoice
21168	JESSICA LINZEY	8/21/2024	\$200.68	Ref cr bal on 12757 39th Ct NE
21169	JUDY/JOHN MOTAN/TURNEY	8/21/2024	\$53.38	Ref cr bal on 317 Riverview Cir
21170	JULIE JOHNSON	8/21/2024	\$10.13	Ref cr bal on 10149 Kaitlin Av NE
21171	KARL TROTT	8/21/2024	\$169.49	Ref cr bal on 11253 16th St NE
21172	KAY COQUYT	8/21/2024	\$126.38	Ref cr bal on 309 Central Av W
21173	KEN BARTHEL	8/21/2024	\$141.57	Ref cr bal on 12471 47th St NE
21174	KIM KOLSTAD	8/21/2024	\$69.71	Ref cr bal on 10420 35th St NE
21175	LANCE/MELINDA FISHER	8/21/2024	\$72.40	Ref cr bal on 2073 Lambert Av NE
21176	M/I HOMES	8/21/2024	\$41.09	Ref cr bal on 2934 Kama Av NE
21177	MINGER CONSTRUCTION	8/21/2024	\$304,719.15	Watermain Extension
21178	MN DEPT OF HEALTH	8/21/2024	\$19,347.66	3rd Quarter Safe Water Fees
21179	NICOLE/MICHAEL OLSON	8/21/2024	\$104.39	Ref cr bal on 3539 Kady Av NE
21180	PETE/DEB EULL	8/21/2024	\$28.49	Ref cr bal on 989 Kadler Av NE
21181	RANDY REIS	8/21/2024	\$22.18	Ref cr bal on 11106 River Rd NE
21182	RIVER TOWN VILLAS LLC	8/21/2024	\$75.06	Ref cr bal on 257 Liberty Dr
21183	RONALD/NANETTE SMITH	8/21/2024	\$166.05	Ref cr bal on 11364 12th St NE
21184	SARA/DAVID BERNING	8/21/2024	\$90.55	Ref cr bal on 3470 Kahler Dr NE
21185	Short Elliott Hendrickson Inc	8/21/2024	\$4,629.30	General Engineering Services
21186	SQUEEGEE MAGIC	8/21/2024	\$2,250.00	Refund deposit Meter # 15349135 / RPZ # 22723192
21187	STEPHANIE STUART	8/21/2024	\$44.80	Ref cr bal on 10167 45th PI NE
21188	TEGRETE	8/21/2024	\$462.00	August 2024 Invoice
21189	TROY/RANDEE WOODIS	8/21/2024	\$48.25	Ref cr bal on 3310 Lachman Ct NE
21190	VEOLIA WATER NA	8/21/2024	\$101,528.00	September 2024 Contract Maintenance
21191	WEBER LAWN & LANDSCAPE LLC	8/21/2024	\$2,237.00	Lawn Maintenance
21192	WSB	8/21/2024	\$225.00	GIS Services
			\$890,963.58	

Ryan Gleason	Rob Olson
Joe Hagerty	Bob Zagorski
Chris Kauffman	Tom Dierberger

Joint Water Board
Budget - 2024 JPWB Board Meeting

Account Descr	Budget	August 2024 Amt	2024 YTD Budget	2024 YTD Amt
FUND 101 GENERAL FUND				
E 101-40000-700 Advertising	\$200.00	\$0.00	\$200.00	\$0.00
E 101-40000-702 License/Fees	\$375.00	\$0.00	\$375.00	\$1,502.50
E 101-40000-704 Bank Charges	\$500.00	\$0.00	\$500.00	\$135.00
E 101-40000-712 Contract Maintenance	\$1,247,045.00	\$101,528.00	\$1,247,045.00	\$812,224.48
E 101-40000-730 Insurance	\$28,000.00	\$0.00	\$28,000.00	\$29,948.00
E 101-40000-734 Meeting Allowance	\$300.00	\$0.00	\$300.00	\$0.00
E 101-40000-748 Office Supplies	\$500.00	\$0.00	\$500.00	\$203.73
E 101-40000-749 Credit Card Fees	\$30,000.00	\$2,572.33	\$30,000.00	\$22,646.25
E 101-40000-752 Audit Fees	\$24,000.00	\$0.00	\$24,000.00	\$18,965.00
E 101-40000-754 GIS Engineer fees	\$7,500.00	\$225.00	\$7,500.00	\$5,856.00
E 101-40000-755 Project Engineering Fe	\$2,500.00	\$1,860.16	\$2,500.00	\$18,450.79
E 101-40000-756 General Engineering F	\$24,000.00	\$2,161.76	\$24,000.00	\$7,847.90
E 101-40000-757 Wellhead Protection En	\$400.00	\$0.00	\$400.00	\$0.00
E 101-40000-758 Legal Fees	\$4,000.00	\$100.00	\$4,000.00	\$3,889.00
E 101-40000-759 ASR-Misc	\$1,000.00	\$0.00	\$1,000.00	\$864.00
E 101-40000-770 System Maintenance	\$40,000.00	\$847.33	\$40,000.00	\$527,566.46
E 101-40000-771 Well Maintenance	\$100,000.00	\$0.00	\$100,000.00	\$0.00
E 101-40000-772 System Repairs	\$35,000.00	\$2,024.96	\$35,000.00	\$17,907.75
E 101-40000-773 Facility Mgmt	\$25,000.00	\$5,037.00	\$25,000.00	\$37,470.57
E 101-40000-774 Utilities	\$330,000.00	\$16,502.59	\$330,000.00	\$88,258.20
E 101-40000-785 DNR Water Usage	\$18,000.00	\$0.00	\$18,000.00	-\$0.91
E 101-40000-795 Misc Expense	\$2,500.00	\$0.00	\$2,500.00	\$0.00
E 101-40000-796 EDA/RR Fees	\$1,100.00	\$0.00	\$1,100.00	\$0.00
FUND 101 GENERAL FUND	\$1,921,920.00	\$132,859.13	\$1,921,920.00	\$1,593,734.72
	\$1,921,920.00	\$132,859.13	\$1,921,920.00	\$1,593,734.72

Joint Water Board
***Cash Balances**

Cash Account: 1
August 2024

Fund	2024 Begin Balance	Receipts	Disbursements	Transfers	Journal Entries	Payroll JEs	Balance
<u>10000 - First American Bank</u>							
101 - GENERAL FUND	\$717,062.37	\$5,986,129.50	(\$6,712,426.08)	0		\$0.00	In Balance (\$9,234.21)
<u>10161 - 2004 Revolving Proj</u>							
101 - GENERAL FUND	\$3,857,853.84		(\$500,000.00)	0	\$74,583.22	\$0.00	In Balance \$3,432,437.06
<u>10181 - MorganStanley Invest</u>							
101 - GENERAL FUND	\$11,899,970.33		(\$570,000.00)	0	\$127,909.89	\$0.00	In Balance \$11,457,880.22
<u>10191 - Wells Fargo Invest</u>							
101 - GENERAL FUND	\$3,840,541.30		(\$245,000.00)	0	\$44,405.10	\$0.00	In Balance \$3,639,946.40
	\$20,315,427.84	\$5,986,129.50	(\$8,027,426.08)	\$0.00	\$246,898.21	\$0.00	\$18,521,029.47

RBC	Cash/MM Treasury	Settle Date	Maturity Date	Certificate Amount	Interest Rate	Balance 6/30/2024	Purchases	Sales	Transfer IN	Transfer Out	Unrealized Gain(Loss)	Interest/Dividends	Balance 7/31/2024
		2/27/2019	2/27/2024	\$244,000.00	0.00%	\$624.25			\$447.37				\$1,071.62
		3/22/2017	3/22/2024	\$96,000.00	4.86%	\$96,157.13			\$271,768.24	-\$250,447.37	\$0.00	\$451.83	\$117,929.83
		9/13/2022	6/13/2024	\$270,000.00	3.00%	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		8/21/2019	8/21/2024	\$100,000.00	2.60%	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		11/16/2021	11/25/2024	\$245,000.00	3.55%	\$99,489.00			\$0.00	\$0.00	\$318.00	\$0.00	\$99,807.00
		11/22/2021	11/29/2024	\$245,000.00	2.00%	\$240,447.90			\$0.00	\$0.00	\$1,158.85	\$0.00	\$241,606.75
		3/10/2020	3/28/2025	\$245,000.00	0.85%	\$240,381.75			\$0.00	\$0.00	\$1,156.40	\$0.00	\$241,538.15
		3/13/2022	3/13/2025	\$245,000.00	1.10%	\$237,534.85			-\$450.40	-\$450.40	\$1,293.60	\$450.40	\$238,828.45
		5/15/2020	5/15/2025	\$245,000.00	2.20%	\$239,482.60			-\$900.79	-\$900.79	\$1,070.65	\$900.79	\$240,553.25
		5/28/2020	5/28/2025	\$245,000.00	0.90%	\$238,776.88			\$0.00	\$0.00	\$1,490.48	\$0.00	\$240,267.36
		2/3/2023	8/1/2025	\$245,000.00	1.10%	\$235,974.20			\$0.00	\$0.00	\$1,477.35	\$0.00	\$237,451.55
		8/31/2020	8/29/2025	\$245,000.00	4.60%	\$243,549.60			-\$926.30	-\$926.30	\$965.30	\$926.30	\$244,514.90
		10/20/2022	10/20/2025	\$245,000.00	0.50%	\$232,142.40			-\$204.72	-\$204.72	\$1,869.35	\$0.00	\$234,011.75
		11/30/2020	11/28/2025	\$245,000.00	4.50%	\$243,142.90			-\$906.16	-\$906.16	\$1,144.15	\$906.16	\$244,287.05
		12/30/2020	12/30/2025	\$245,000.00	0.45%	\$229,577.25			-\$184.26	-\$184.26	\$2,035.95	\$184.26	\$231,613.20
		1/22/2021	1/22/2026	\$245,000.00	0.45%	\$228,741.80			-\$335.95	-\$335.95	\$2,065.35	\$184.26	\$230,831.65
		8/11/2022	3/11/2026	\$245,000.00	0.55%	\$228,611.95			\$0.00	\$0.00	\$1,565.55	\$335.95	\$230,677.30
		3/11/2021	3/11/2026	\$245,000.00	3.80%	\$240,401.35			\$0.00	\$0.00	\$2,180.50	\$0.00	\$241,966.90
		6/16/2021	6/16/2026	\$245,000.00	0.55%	\$227,448.20			-\$171.16	-\$171.16	\$2,268.70	\$171.16	\$229,628.70
		7/17/2019	7/17/2026	\$150,000.00	0.85%	\$142,953.00			-\$1,832.47	-\$1,832.47	\$1,231.50	\$1,832.47	\$144,184.50
		8/4/2022	8/4/2026	\$245,000.00	2.45%	\$238,044.45			\$0.00	\$0.00	\$2,018.80	\$0.00	\$240,063.25
		10/8/2020	10/8/2026	\$245,000.00	0.60%	\$222,462.45			-\$120.82	-\$120.82	\$2,734.20	\$120.82	\$225,196.65
		11/2/2021	11/2/2026	\$245,000.00	1.10%	\$224,449.40			\$0.00	\$0.00	\$2,748.90	\$0.00	\$227,198.30
		2/5/2021	2/5/2027	\$245,000.00	1.00%	\$223,410.60			-\$201.37	-\$201.37	\$2,827.30	\$201.37	\$226,237.90
		3/12/2021	3/12/2027	\$245,000.00	0.65%	\$219,728.25			-\$130.89	-\$130.89	\$3,123.75	\$130.89	\$222,852.00
		4/30/2020	4/30/2027	\$245,000.00	0.80%	\$219,720.90			-\$161.10	-\$161.10	\$3,229.10	\$161.10	\$222,950.00
		5/17/2022	5/17/2027	\$245,000.00	1.35%	\$222,112.10			-\$552.76	-\$552.76	\$3,327.10	\$552.76	\$225,439.20
		6/30/2022	6/30/2027	\$245,000.00	3.35%	\$234,898.65			\$0.00	\$0.00	\$3,072.30	\$0.00	\$237,970.95
		7/23/2020	7/23/2027	\$245,000.00	4.10%	\$205,407.30			-\$4,305.00	-\$4,305.00	\$2,251.20	\$4,305.00	\$207,658.50
		1/28/2022	7/28/2027	\$245,000.00	0.80%	\$216,660.85			-\$161.10	-\$161.10	\$3,616.20	\$161.10	\$220,277.05
		8/27/2021	8/27/2027	\$245,000.00	1.60%	\$222,166.00			-\$322.19	-\$322.19	\$3,493.70	\$322.19	\$225,659.70
		9/18/2020	9/20/2027	\$245,000.00	0.95%	\$219,034.90			-\$191.30	-\$191.30	\$3,579.45	\$191.30	\$222,614.35
		3/30/2021	9/30/2027	\$245,000.00	0.70%	\$216,959.75			-\$140.96	-\$140.96	\$3,670.10	\$140.96	\$220,629.85
		10/19/2021	10/19/2027	\$245,000.00	1.10%	\$217,584.50			-\$450.40	-\$450.40	\$3,599.05	\$450.40	\$220,629.85
		10/27/2022	10/27/2027	\$250,000.00	1.10%	\$217,756.00			-\$221.51	-\$221.51	\$3,591.70	\$221.51	\$221,347.70
		10/29/2020	10/29/2027	\$245,000.00	5.50%	\$248,467.50		-\$250,000.00			\$1,532.50	\$3,437.50	\$0.00
		12/18/2020	12/20/2027	\$245,000.00	0.65%	\$213,691.45			-\$266.14	-\$266.14	\$3,667.65	\$266.14	\$217,359.10
		7/22/2022	1/21/2028	\$110,000.00	0.70%	\$213,321.50			\$0.00	\$0.00	\$3,638.25	\$0.00	\$216,959.75
		8/21/2020	2/22/2028	\$245,000.00	3.45%	\$105,330.50			-\$311.92	-\$311.92	\$1,474.00	\$311.92	\$106,804.50
		2/24/2023	2/24/2028	\$245,000.00	0.75%	\$212,378.25			-\$151.03	-\$151.03	\$3,650.50	\$151.03	\$216,028.75
		8/6/2020	6/30/2028	\$245,000.00	4.70%	\$244,769.70			-\$946.44	-\$946.44	\$257.25	\$946.44	\$245,026.95
		7/31/2020	7/31/2028	\$245,000.00	0.90%	\$211,484.00			-\$368.50	-\$368.50	\$3,603.95	\$368.50	\$215,087.95
		10/2/2020	10/2/2028	\$215,000.00	1.00%	\$211,863.75			-\$409.45	-\$409.45	\$3,643.15	\$409.45	\$215,506.90
		10/29/2021	10/30/2028	\$245,000.00	0.70%	\$182,498.45			-\$123.70	-\$123.70	\$3,175.55	\$123.70	\$185,674.00
		10/29/2021	10/30/2028	\$245,000.00	1.15%	\$212,010.75			\$0.00	\$0.00	\$3,518.20	\$0.00	\$215,528.95
		1/29/2021	1/29/2029	\$245,000.00	1.20%	\$212,245.95			-\$491.34	-\$491.34	\$3,537.80	\$491.34	\$215,783.75
		3/30/2022	3/29/2029	\$245,000.00	0.95%	\$208,362.70			-\$388.98	-\$388.98	\$3,454.50	\$388.98	\$211,817.20
		6/28/2021	6/28/2030	\$245,000.00	2.30%	\$221,465.30			-\$941.74	-\$941.74	\$3,238.90	\$941.74	\$224,704.20
		8/21/2020	8/21/2030	\$245,000.00	1.40%	\$203,296.10			-\$281.92	-\$281.92	\$4,091.50	\$281.92	\$208,869.85
		8/31/2021	8/30/2030	\$245,000.00	1.10%	\$204,521.10			-\$593.71	-\$593.71	\$4,167.45	\$593.71	\$207,463.55
		4/10/2024	3/7/2030	\$245,000.00	1.45%	\$242,189.85			\$0.00	\$0.00	\$3,577.00	\$0.00	\$245,766.85
					4.30%								
						\$10,745,003.46	\$0.00	-\$250,000.00	\$272,215.61	-\$272,215.61	\$126,657.53	\$22,220.07	\$10,643,891.06

Journal Entries
7/31/2024

Date	Account	Debit	Credit	Reason
7/31/2024	2004 Revolving Project Investment Interest	\$2,692.03		Record interest earned for July PMA
			\$2,692.03	
	Revolving Fund Contra Investment Interest	\$10,095.04		Record market change for July PMA
			\$10,095.04	
<hr/>				
7/31/2024	Wells Fargo Investment Interest	\$13,741.99		Record interest earned for July WF
			\$13,741.99	
	Wells Fargo Contra Investment Interest	\$34,927.70		Record market change for July WF
			\$34,927.70	
<hr/>				
7/31/2024	RBC Investment Interest	\$22,220.07		Record interest earned for July RBC
			\$22,220.07	
	RBC Contra Investment Interest	\$126,657.53		Record market change for July RBC
			\$126,657.53	
<hr/>				
7/29/2024	Undistributed Receipts	\$9.09		Reclass credit card sale for watersalesman
	Water Sales		\$8.47	
	MN Tax		\$0.62	
<hr/>				

JOINT POWERS WATER BOARD PLEDGE REPORT as of 7-31-2024

Public Funds	Account	Rates	Balance	Notes
CKG Joint Powers Water Board	xxx1529	0.10%	\$ 1,770,895.76	

	<u>\$ 1,770,895.76</u>
FDIC Insurance	\$ 250,000.00
	<u>\$ 1,520,895.76</u>
	\$ 1,672,985.34

the amount to be pledged

Community Development Bank
Pledged Securities for the Joint Powers Water Board

Securities	Par Value	Book Value	Market Value	Percentage Pledged	Pledged Value
US TREASURY 912828Z52	\$ 500,000.00	\$ 500,902.83	\$ 490,771.49	100.00	\$ 490,771.49
FHLMC Pool 3132D6AS9	\$ 715,985.24	\$ 713,612.18	\$ 608,865.54	100.00	\$ 608,865.54
US TREASURY 912828YD6	\$ 1,000,000.00	\$ 1,009,105.12	\$ 940,468.75	100.00	\$ 940,468.75
	\$ 2,215,985.24	\$ 2,223,620.13			

Total Pledged to Joint Powers Water Board

\$ 2,040,105.78

(Under)/Over Pledged

\$ 367,120.44



JOINT POWERS

ALBERTVILLE,
MINNESOTA

Office & Plant Location:
11100 50th St NE
Albertville MN 55301

Office – 763-497-3611
Fax – 763-497-3611
Emergency
763-219-5309



Monthly Operations Report

John Seifert - General Manager

Dustin W. Carlson - Supervisor & Facilities Manager

Jennifer Thomas - Office Manager

Ruth Klick - Project Associate

Delena Daleiden - Admin. - Finance

Jen Stodola - Admin

Operators:

Joseph Hill - Lead Operator

Fred Hoilles - Operator

Kyle Golby - Operator

Grayson Maresh - Operator

July 2024

Executive Summary

Joint Powers effectively produced 143,253,000 gallons of water in the report month. All bacteriological samples were negative. The average fluoride concentration was 0.76 mg/L (Limits are 0.5 & 0.9). The total production to the distribution system was 141,964,700 gallons and actual consumer use was 141,964,700 gallons, an average daily amount of 4.58 million gallons per day.

Operations

The standard operations of the facilities include:

❖ Daily testing of fluoride and chlorine in the system.	❖ Monthly performance inspections on wells.
❖ Monthly bacteriological sampling (25 samples).	❖ Bulk chemical deliveries.
❖ ERT missed reads/ meter checks.	❖ Chemical feed systems adjustments & maintenance.
❖ Laboratory equipment calibrations.	❖ Safety and training meetings.
❖ MC Lite meter reading routes for Hanover & St. Michael.	❖ Regularly scheduled operations & maintenance meetings.
❖ Routine daily rounds, inspections, and security checks of the water treatment plant.	❖ Routine weekly off-site facilities inspections and security checks.
❖ Regular backwashing of filters, reclaiming and pumping of backwash sludge.	❖ Monthly performance inspections of emergency generators.
❖ Monitoring & regulating access to the water towers for telecommunications companies to make repairs & upgrades.	

Major Activities

Uncommon Operations and Major Corrective Maintenance:

- ❖ Fixed fire hydrant along Hwy 241
- ❖ Lead Service Line Inventory
- ❖ Cty Rd 35 water main shutdown for construction
- ❖ Annual VFD Maintenance
- ❖ Well #2 Underground Emergency Repairs
- ❖ Site Clean up and Noxious Weed Removal
- ❖ Storm Clean up at West Water Tower - Damaged and Hazardous Tree removal.



Safety & Training

Each month our staff performs inspections of all safety equipment such as fire extinguishers, eyewash stations, chemical showers, and emergency lighting. We also have safety meetings during the month that consist of both routine and non-routine topics.

Call-Outs (After-Hours Emergency Calls)

- ◆ None in July.

Regulatory Communications

Our monthly regulatory communications were completed satisfactorily and on-time. These were:

- ◆ The monthly fluoridation report to the MDH
- ◆ The monthly bacteriological test results to the MDH
- ◆ The monthly injection/recovery report to the EPA

Major Client / Public Relations Issues

- ◆ None in July

Distribution System Statistics

	Total	Hanover	St Michael	Joint Powers	Comments
Locates (GSOC)	735	150	569	16	Gopher State One Call, Tickets Received
Hydrants Flushed	0	0	0	0	Spring/Fall (Joint Powers Are Albertville)
Customer Service Visits	22	5	17	0	Including water quality issues (Albertville), water usage issues, curb stops on/off, water main operations, special locates (not through GSOC) & misc. issues.
Inspections	36	2	34	NA	
Meter/ERT Issues/Repairs	36	7	29	NA	These include out-of bounds read checks, leaking meters, bad ERTs/replacements, wiring issues, missed reads, monthly meter reading, etc.
Maintenance Work Orders	43	1	0	42	These include issues/repairs & regular maintenance for the dist. systems & JP facilities.
Finals	68	18	50	N/A	

YTD Reconcilable Limit Budget

	Budget	Expenses	Balance
LIM	\$356,472	\$ 114,587.45	\$241,844

Final reconciliation will occur after year-end finances have been processed.*No updates on Actual available at time of report. Estimated

Appendices

Monthly Fluoride Report, Monthly Bacteriological Report, Monthly ASR EPA Report



Licensed Operator:  Dustin W. Carlson
 Signature: _____
 Title 'B' Operator

Raw Water Fluoride Concentration	
Well #1	0.20 mg/l
Well #2	mg/l
Well #3	0.26 mg/l
Well #4	0.16 mg/l
Well #5	0.21 mg/l
Well #6	0.27 mg/l
Well #7	0.23 mg/l

Date	Well #1 gals (1000's)	Well #2 gals (1000's)	Well #3 gals (1000's)	Well #4 gals (1000's)	Well #5 gals (1000's)	Well #6 gals (1000's)	Well #7 gals (1000's)	Total gals (1000's)	FI Used gals	Fluoride mg/l	Location
1	1,018	0	178	0	0	742	1,336	3,274	5.0	0.72	Radzwill Building
2	1,128	0	303	0	140	835	1,501	3,907	7.0	0.73	Booster Station
3	1,036	0	91	0	110	759	1,365	3,361	6.0	0.75	3504 1/2 Kachina
4	907	0	0	0	0	663	1,193	2,763	3.5	0.82	11279 River Rd. Apts.
5	993	0	38	0	0	719	1,294	3,044	6.5	0.76	Taco John's
6	1,104	0	222	0	0	807	1,452	3,585	6.0	0.78	West Tower
7	1,360	0	321	0	167	1,012	1,820	4,680	9.0	0.73	Speedway West
8	1,246	0	181	0	149	1,028	1,850	4,454	8.0	0.78	10900 26th Street
9	1,251	0	387	337	607	934	1,680	5,196	9.0	0.72	Particle Control
10	1,180	0	0	247	249	872	1,570	4,118	7.0	0.72	10350 64th st hydrant
11	1,413	0	0	524	240	1,049	1,888	5,114	10.0	0.68	Hardware Hank
12	1,487	0	112	755	183	993	2,005	5,535	10.0	0.75	4600 Lasalle
13	1,023	0	0	195	75	757	1,360	3,410	6.0	0.76	Mill Pond Apartments
14	1,475	0	104	34	0	1,071	1,928	4,612	8.0	0.86	CJ's Laundry
15	1,362	0	33	0	314	991	1,784	4,484	8.0	0.86	4335 Kady Ave
16	398	0	669	314	1,273	887	1,383	4,924	8.0	0.86	Speedway East
17	373	0	819	28	1,324	881	1,584	5,009	9.0	0.85	Hanover City Hall
18	255	0	876	42	1,644	1,094	1,969	5,880	11.0	0.84	2293 Kester
19	17	0	1,097	0	1,663	1,107	1,991	5,875	11.0	0.74	49th st Irr box anton village
20	446	0	906	0	1,391	924	1,663	5,330	9.0	0.78	St. Michael Comm. Garden
21	106	0	804	0	1,202	799	1,438	4,349	8.0	0.78	Well House 1
22	79	0	812	0	1,242	826	1,485	4,444	8.0	0.56	4756 Otter TRL
23	149	0	758	0	1,156	768	1,382	4,213	8.0	0.75	NAPA
24	381	0	875	0	1,321	878	1,580	5,035	10.0	0.77	Country Inn
25	276	0	1,112	0	1,644	1,095	1,970	6,097	11.0	0.72	Hanover PW
26	245	0	1,062	0	1,569	1,044	1,879	5,799	11.0	0.68	38 Balsam Ave. West
27	112	0	1,090	0	1,616	1,076	1,937	5,831	11.0	0.77	Holiday St. Michael
28	178	0	1,007	0	1,572	1,046	1,881	5,684	10.0	0.74	Casey's
29	386	0	774	63	1,215	875	1,322	4,635	9.0	0.75	Swamp Lake Park
30	82	0	675	19	1,472	978	1,760	4,986	10.0	0.84	East Tower
31	0	0	618	0	1,052	699	1,256	3,625	5.0	0.79	Kwik Trip
Total	21,466	0	15,924	2,558	24,590	28,209	50,506	143,253			
Avg.	692	0	514	83	793	910	1,629	4,621		0.76	



Drinking Water Protection Section
 P.O. Box 64975-0975
 St. Paul, MN 55164-0975
 651/201-4700, FAX 651/201-4701

Bacteriological/Disinfectant Residual Monthly Report

Public Water System ID (7 digits) **1 8 6 0 0 2 4** Laboratory Certification ID (9 digits) **0 2 7 - 1 6 1 - 1 8 6**

NAME OF WATER SUPPLY SYSTEM
 Joint Powers Water

ADDRESS
 11100 50th St NE

CITY
 Albertville

ZIP
 55301

PHONE
 763-497-3611

LABORATORY NAME
 UC LABORATORY

Total Coliform Analysis Method
 Membrane Filter MPN 10 ml
 Colisure MPN 100 ml

Analyst Name
 See Below

Setup/Read
 I verify that this report is accurate
 W 7/30/2024

PHONE (507) 234-5835

Routine Samples

Report For M/F/Y	Number of Samples required Per Month	Number of Samples Collected	Number of Sites Where D.R. Was Measured	Monthly Average D.R. (Total Chlorine or Chloramine, mg/l)	Number of Samples Positive for Total Coliform	Number of Samples Positive For E. Coli	Percent of Samples Positive for Total Coliform (for systems required to collect 40 or more samples)
Jul/2024	25	25	25	0.65	0	0	

Original Positive Samples

Collection Date	Distribution Location (address or name of facility)	Analysis Date	Results (Total Coliform/E. Coli)

Repeat Samples (Lab may attach sheet with additional repeat sample locations.)

Collection Date	Source/Well#(s) or Distribution Location (address or name of facility)	Analysis Date	Results (Total Coliform/E. Coli)

*Disinfectant Residual (chlorine/chloramine) monitoring samples must be collected at the same sample points and same time as coliform samples.

Sample #	Location	Rec Temp	CI Residual	Sample #	Location	Rec Temp	CI Residual
Sample #1	Country Inn	2.8 oC	0.56	Sample #14	Speedway West	8.2 oC	0.73
Sample #2	CJ's Laundry	2.8 oC	0.95	Sample #15	STMPW	8.2 oC	0.59
Sample #3	Alb. Subway	2.8 oC	0.65	Sample #16	Tom Thumb	8.2 oC	0.57
Sample #4	Mill Pond Apts	2.8 oC	0.49	Sample #17	Dehmers	8.2 oC	0.69
Sample #5	Holiday	2.8 oC	0.70	Sample #18	Country Inn	3.7 oC	0.76
Sample #6	Al Quick Lube	2.8 oC	0.63	Sample #19	Alb Subway	3.7 oC	0.76
Sample #7	Radzwill	2.8 oC	0.84	Sample #20	CJ's Laundry	3.7 oC	0.96
Sample #8	38 Balsam	2.8 oC	0.50	Sample #21	Radzwill	3.7 oC	0.75
Sample #9	Caseys	2.8 oC	0.60	Sample #22	Holiday	3.7 oC	0.52
Sample #10	ALB Speedway	2.8 oC	0.78	Sample #23	Speedway East	3.7 oC	0.25
Sample #11	Parical Control	2.8 oC	0.72	Sample #24	38 Balsam	3.7 oC	0.43
Sample #12	Center Cut Meats	2.8 oC	0.88	Sample #25	Millpond Apts	3.7 oC	0.58
Sample #13	Kwik Trip	2.8 oC	0.44				

Sample(s) not thermal preservation requirements

U.S. ENVIRONMENTAL PROTECTION AGENCY MONTHLY MONITORING REPORT
FOR CLASS V INJECTION WELLS

UIC PERMIT NUMBER: MN-171-5R21-0002
 OPERATOR NAME: Joint Powers Water Board
 ADDRESS: 11000 50th St NE WELL NAME: Well 9
 CITY/STATE/ZIP: Albertville, MN 55301 WELL COUNTY: Wright
 PHONE: (763) 497-3611

MONTHLY REQUIREMENTS

Injection (Gallons)	Total Injection Period YTD Volume	Total Report Month Volume	Total Injection Period Volume
		97,648,000	0

Injection Pressure & GPM	Average	Highest Value	Lowest Value
	Monthly Injection Pressure (psig)	0	0
Monthly Injection Flow Rate (GPM)	0	0	0

Recovery (Gallons)	Total Recovery Period YTD Volume	Total Report Month Volume	% of Injection Period Total Volume
		0	0

COMMENTS:

The 2023 ASR cycle began in December 2023, with the injection phase. Test well 6 and ASR well 9 were flushed to waste and background testing & sampling was performed on both wells and the injection source, the Joint Powers distribution system, before injection was begun.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and punishment. (Ref. 40 CFR Section 144.32)

Dustin W. Carlson, Water Operations Supervisor & Facilities Manager

Name and Official Title

Signature:



Date Signed: 7-31-24

Year: 2024 (2024 Cycle)

Month: July

Injection Phase

On-Site Testing

UIC PERMIT NUMBER: MN-171-5R21-0002

OPERATOR NAME: Joint Powers Water Board
ASR PTC-3

SAMPLE LOCATION: Well 9 (Ml. Simon)

Field Tested

Field Equipment:		YSI Professional Plus (Multi-Probe)							Hach DR 890
Constituent	Units	Temperature °C	pH Sid Units	Conductivity uS/cm	ORP mV	Dissolved Oxygen mg/L	Chlorine, Total Residual mg/L		
	Detection Limit								
Date									
General Injection Background		9.2	7.36	0.54	695.2	1.03	1.03		
Well 9 Injection Background		10.1	7.19	0.47	58.4	0.45	0.0		
Monthly Well 9 Injection		7.5	7.23	0.51	771.4	0.73	0.78		
Monthly Well 9 Injection		7.9	7.37	0.54	767.7	0.77	0.8		
Monthly Well 9 Injection		9.0	7	0.54	723.7	3.08	0.75		
Monthly Well 9 Injection		10	7.22	0.54	701.6	0.75	0.79		
Monthly Well 9 Injection									
Monthly Well 9 Injection									
Well 9 Injection 95%		11.6	7.29	0.6	743.2	0.5	0.95		
	Federal Drinking Water Standard Method							Hach 8167 5th ED 2008	

Year: 2024 (2024 Cycle) Month: July

UIC PERMIT NUMBER: MN-171-5R21-0002

OPERATOR NAME: Joint Powers Water Board ASR PTC-3

SAMPLE LOCATION: Well 9 (Mt. Simon)

Injection Phase

Independent Lab Testing

Metals

	Date	Constituent										
		Units	Aluminum ug/L	Arsenic ug/L	Calcium ug/L	Copper ug/L	Iron ug/L	Lead ug/L	Magnesium ug/L	Manganese ug/L	Potassium ug/L	Sodium ug/L
General Injection Background	1/2/2024	Detection Limit	4	0.5	400	0.5	50	0.1	100	0.5	20	50
Well 9 Injection Background	1/2/2024		<1.7	<0.60	89,000	0.85	<0.0080	<0.13	34,000	1.1	3,800	10,000
Monthly Well 9 Injection	2/28/2024		3.50	<0.60	91,000	<0.57	190.00	<0.13	35,000	5.70	3,500	11,000
Monthly Well 9 Injection	3/28/2024		1.8	<0.60	95,000	<0.57	<0.0080	<0.13	36,000	<0.66	3,700	10,000
Monthly Well 9 Injection	4/30/2024		<1.7	<0.60	90,000	<0.57	<0.0080	<0.13	34,000	0.77	3,600	9,400
Monthly Well 9 Injection	5/21/2024		<1.7	<0.60	93,000	<0.57	<0.0080	<0.13	34,000	<0.66	3,400	10,000
Monthly Well 9 Injection	6/20/2024		<1.7	<0.59	90,000	<0.33	<0.0095	<0.12	34,000	<0.63	3,400	9,700
Well 9 Injection 95%		Federal Drinking Water Standard	200	10		1000	300		35,000	<0.63	3,500	11,000
		Method	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.7

* See cover page for explanation of this parameter data.

Year: **2024** (2024 Cycle)

Month: **July**

UIC PERMIT NUMBER: MN-171-5R21-0002

OPERATOR NAME: Joint Powers Water Board ASR PTC-3

SAMPLE LOCATION: Well 9 (Mt. Simon)

Injection Phase

Independent Lab Testing

General Chemistry

Constituent	Alkalinity, Total as CaCO3 mg/L	Chloride mg/L	Fluoride mg/L	Nitrogen, Ammonia mg/L	Phosphorous mg/L	Silica, Dissolved mg/L	Sulfate mg/L	Total Hardness by 2340B mg/L	Nitrogen, Kjeldahl, Total mg/L	Total Organic Carbon mg/L
General Injection Background	5	2	0.1	0.04	0.4	1	205	1420	1	2
Well 9 Injection Background	340	11.00	0.71	<0.014	0.60	24.00	12.00	360	0.35	1.50
Monthly Well 9 Injection	330	12.00	0.71	<0.014	0.71	22.00	12.00	370	0.37	1.83
Monthly Well 9 Injection	340	10.00		0.014	0.49	27.00	11.00	390	<0.19	1.53
Monthly Well 9 Injection	340	11.00		<0.014	0.69	23.00	12.00		<0.19	1.60
Monthly Well 9 Injection	340	12.00		0.02	0.55	24.00	11.00	370	<0.19	1.69
Monthly Well 9 Injection	350	12.00	0.6	<0.014	0.52	24.00	13.00	360	<0.19	1.63
Monthly Well 9 Injection										
Monthly Well 9 Injection										
Monthly Well 9 Injection										
Well 9 Injection 95%	340	13		<0.014	0.38	13.00	13.00	370	<0.19	1.49
Federal Drinking Water Standard		250	2				250			
Method	SM 2320B	SM 4500-Cl	SM 4500F/C	EPA 350.1	SM 4500-P-E	EPA 200.7	ASTM D516	EPA 200.8	EPA 351.2	SM 5310C

Year: 2024 (2024 Cycle) Month: July

UIC PERMIT NUMBER: MN-171-5R21-0002
 OPERATOR NAME: Joint Powers Water Board ASR PTC-3
 SAMPLE LOCATION: Well 9 (Mt. Simon)

Injection Phase

Independent Lab Testing

Radionuclides & Uranium

Constituent	Gross Alpha pCi/L	Adjusted Gross Alpha pCi/L	Ra-226 pCi/L	Ra-228 pCi/L	Combined Radium pCi/L	Total Uranium pCi/L	Uranium - 234 pCi/L	Uranium - 235 pCi/L	Uranium - 238 pCi/L
General Injection Background									
Well 9 Injection Background									
Monthly Well 9 Injection	5.44	3.48	0.91	1.05	1.96	0.838	0.4450	0.0329	0.3600
Monthly Well 9 Injection	5.53	3.090	1.59	0.85	2.44	1.190	0.843	0.10400	0.2460
Monthly Well 9 Injection	-0.65	-1.361	1.10	0.63	1.1	0.711	0.385	0.00000	0.326
Monthly Well 9 Injection	2.49	1.831	0.98	0.17	0.98	0.659	0.296	0.00000	0.363
Monthly Well 9 Injection	2.33	1.402	0.28	1.44	1.44	0.928	0.658	0.05570	0.214
Monthly Well 9 Injection	0.65	-0.402	1.3	0.65	1.95	1.080	0.72	0.0524	0.303
Monthly Well 9 Injection									
Monthly Well 9 Injection									
Monthly Well 9 Injection									
Well 9 Injection 95%	1.82	1.042	0.58	1.68	2.26	0.778	0.546	0.00000	0.232
		15	5	5	5				
Federal Drinking Water Standard			7500-Ra B	7500-Ra D		EPA 200.8	HSL-300	HSL-300	HSL-300
Method	7100B								

Year: 2024 (2024 Cycle) Month: July

UIC PERMIT NUMBER: MN-171-5R21-0002
 OPERATOR NAME: Joint Powers Water Board ASR PTC-3
 SAMPLE LOCATION: Well 9 (Mt. Simon)

Injection Phase

Independent Lab Testing

Disinfection Byproducts

TTHM's & HAA5

Constituent	Bromodichloro-methane ug/L	Bromoform ug/L	Chloroform ug/L	Dibromochloro-methane ug/L	Total Trihalomethanes (Calc.) ug/L	Dibromo-acetic Acid ug/L	Dichloro-acetic Acid ug/L	Monobromo-acetic Acid ug/L	Monochloro-acetic Acid ug/L	Trichloro-acetic Acid ug/L	Total Haloacetic Acid ug/L
General Injection Background	0.5	0.5	4	0.5		1	1	1	1	1	
Well 9 Injection Background	1.5	<0.20	4.10	0.6	6.20	<0.60	2.70	<0.60	<1.2	3.1	5.8
Monthly Well 9 Injection	7.7	<0.20	27.00	2.2	36.90	<0.60	2.7	<0.60	<1.2	9.1	11.8
Monthly Well 9 Injection	3.40	<0.20	9.60	1.20	14.20	<0.60	4.10	<0.60	<1.2	5.70	9.80
Monthly Well 9 Injection	3.60	<0.20	9.20	1.30	14.10	<0.60	4.20	<0.60	<1.2	4.90	9.10
Monthly Well 9 Injection	2.6	<0.20	7.80	1.00	11.40	<0.60	4.80	<0.70	<1.1	5.50	10.30
Monthly Well 9 Injection	2.6	<0.20	6.00	1.10	9.70	<0.60	3.10	<0.70	<1.1	3.50	6.6
Monthly Well 9 Injection											
Monthly Well 9 Injection											
Well 9 Injection 95%	32	<0.20	9.10	1.2	13.5	<0.60	3.70	<0.70	<1.1	4.50	8.20
Federal Drinking Water Standard	EPA 524.2	EPA 524.2	EPA 524.2	EPA 524.2	EPA 524.2	EPA 552.2	EPA 552.2	EPA 552.2	EPA 552.2	EPA 552.2	EPA 552.2
Method					80						60

Year: **2024** (2024 Cycle) Month: **July**

UIC PERMIT NUMBER: MN-171-5R21-0002

OPERATOR NAME: Joint Powers Water Board ASR PTC-3

SAMPLE LOCATION: Hanover City Hall

Constituent	Units	Detection Limit	Pre-Recovery (Background)	Mid-Recovery	Late-Recovery	Federal Drinking Water Standard	Method
Date							
Bromodichloromethane	ug/L	0.5					EPA 524.2
Bromoform	ug/L	2					EPA 524.2
Chloroform	ug/L	0.5					EPA 524.2
Dibromochloromethane	ug/L	0.5					EPA 524.2
Total Trihalomethanes (Calc.)	ug/L					80	EPA 524.2
Dibromoacetic Acid	ug/L	1					EPA 552.2
Dichloroacetic Acid	ug/L	1					EPA 552.2
Monobromoacetic Acid	ug/L	1					EPA 552.2
Monochloroacetic Acid	ug/L	1					EPA 552.2
Trichloroacetic Acid	ug/L	1					EPA 552.2
Total Haloacetic Acid	ug/L					60	EPA 552.2

Year: 2024

(2024 Cycle)

Month:

July

UIC PERMIT NUMBER: MN-171-5R21-0002

OPERATOR NAME: Joint Powers Water Board ASR PTC-3

SAMPLE LOCATION: Well 9 (Mt. Simon)

Constituent	Units	Detection Limit	Well 9 5% Recovery	Well 9 30% Recovery	Well 9 60% Recovery	Well 9 100% Recovery	Federal Drinking Water Standard	Method
Date								
Temperature	°C							
pH	Std Units							
Conductivity	uS/cm							
ORP	mV							
Dissolved Oxygen (DO)	mg/L							
Chlorine, Total Residual	mg/L	0.01						HACH 8167 5th ED 2008
Aluminum	ug/L	4					200	EPA 200.8
Arsenic	ug/L	0.5					10	EPA 200.8
Calcium	ug/L	400						EPA 200.8
Copper	ug/L	0.5					1000	EPA 200.8
Iron	ug/L	50					300	EPA 200.8
Lead	ug/L	0.1						EPA 200.8
Magnesium	ug/L	100						EPA 200.8
Manganese	ug/L	0.5					50	EPA 200.8
Potassium	ug/L	20						EPA 200.8
Sodium	ug/L	50						EPA 200.8
Alkalinity, Total as CaCO3	mg/L	5						SM 2320B
Chloride	mg/L	2					250	SM 4500-Cl E
Fluoride	mg/L	0.1					2	SM 4500F/C
Nitrogen, Ammonia	mg/L	0.04						EPA 350.1
Phosphorous	mg/L	0.4						EPA 365.4
Silica, Dissolved	mg/L	1						EPA 200.7
Sulfate	mg/L	2.5					250	ASTM D516-02
Total Hardness by 2340B	mg/L	1420						EPA 200.8
Nitrogen, Kjeldahl, Total	mg/L	1						EPA 351.2
Total Organic Carbon	mg/L	2						EPA 9060
Gross Alpha	pCi/L							EPA 900.0
Adjusted Gross Alpha	pCi/L						15	
Ra-226	pCi/L						5	EPA 903.1
Ra-228	pCi/L						5	EPA 904.0
Ra-226 + Ra-228	pCi/L						5	
Total Uranium (238)	pCi/L	0.5						EPA 200.8
Bromodichloromethane	ug/L	0.5						EPA 524.2
Bromoform	ug/L	4						EPA 524.2
Chloroform	ug/L	0.5						EPA 524.2
Dibromochloromethane	ug/L	0.5						EPA 524.2
Total Trihalomethanes (Calc.)	ug/L						80	EPA 524.2
Dibromoacetic Acid	ug/L	1						EPA 552.2
Dichloroacetic Acid	ug/L	1						EPA 552.2
Monobromoacetic Acid	ug/L	1						EPA 552.2
Monochloroacetic Acid	ug/L	1						EPA 552.2
Trichloroacetic Acid	ug/L	1						EPA 552.2
Total Haloacetic Acid	ug/L						60	EPA 552.2
Uranium - 234	pCi/L							HSL-300
Uranium - 235	pCi/L							HSL-300
Uranium - 238	pCi/L							HSL-300

Year: 2024

(2024 Cycle)

Month:

July

UIC PERMIT NUMBER: MN-171-5R21-0002

OPERATOR NAME: Joint Powers Water Board ASR PTC-3

SAMPLE LOCATION: Test Well 6 (Mt. Simon)

Constituent	Units	Detection Limit	Test Well 6 Background Injection	Test Well 6 95% Injection	Test Well 6 100% Recovery	Federal Drinking Water Standard	Method
Date			1/2/2024	6/20/2024			
Temperature	°C		10.0	11.6			
pH	Std Units		6.47	7.29			
Conductivity	uS/cm		0.441	0.600			
ORP	mV		-68.10	743.20			
Dissolved Oxygen (DO)	mg/L		1.81	0.5			
Chlorine, Total Residual	ug/L	0.01	0.00	0.95			HACH 8167 5th ED 2008
Aluminum	ug/L	4	<1.7	<1.7		200	EPA 524.2
Arsenic	ug/L	0.5	1.00	1.1		10	EPA 524.2
Calcium	ug/L	400	77,000	78,000			EPA 524.2
Copper	ug/L	0.5	<0.57	<0.33		1000	EPA 524.2
Iron	ug/L	50	1,700.00	1,700.00		300	EPA 524.2
Lead	ug/L	0.1	<0.13	<0.12			EPA 524.2
Magnesium	ug/L	100	28,000.00	28,000.00			EPA 524.2
Manganese	ug/L	0.5	220.00	230.00		50	EPA 524.2
Potassium	ug/L	20	2,300.00	2,200.00			EPA 524.2
Sodium	ug/L	50	5,200.00	5,400.00			EPA 524.2
Alkalinity, Total as CaCO3	mg/L	5	270	280			SM 2320B
Chloride	mg/L	2	0.59	1.80		250	SM 4500-CI E
Fluoride	mg/L	0.1				2	SM 4500F/C
Nitrogen, Ammonia	mg/L	0.04	0.14	<0.014			EPA 350.1
Phosphorous	mg/L	0.4	<0.021	0.4			EPA 365.4
Silica, Dissolved	mg/L	1	9.70	25.00			200.7 MET ICP
Sulfate	mg/L	2.5	16.00	16.00		250	ASTM D516-02
Total Hardness by 2340B	mg/L	1420	310.00	310			EPA 200.8
Nitrogen, Kjeldahl, Total	mg/L	1	0.38	0.23			EPA 351.2
Total Organic Carbon	mg/L	2	0.682	0.834			EPA 9060
Gross Alpha	pCi/L		17.70	8.46			EPA 900.0
Adjusted Gross Alpha	pCi/L		15.52	6.35		15	
Ra-226	pCi/L		4	5.73		5	EPA 903.1
Ra-228	pCi/L		2.14	2.78		5	EPA 904.0
Ra-226 + Ra-228	pCi/L		6.17	8.51		5	
Total Uranium	ug/L	0.5	1.00	1.50			EPA 200.8
Bromodichloromethane	ug/L	0.5	<0.10	0.59			EPA 524.2
Bromoform	ug/L	4	<0.20	<0.20			EPA 524.2
Chloroform	ug/L	0.5	<0.20	2.60			EPA 524.2
Dibromochloromethane	ug/L	0.5	<0.10	0.17			EPA 524.2
Total Trihalomethanes (Calc.)	ug/L		<0.20	3.36		80	EPA 524.2
Dirbomoacetic Acid	ug/L	1	<0.60	<0.60			EPA 552.2
Dichloroacetic Acid	ug/L	1	<0.60	<0.60			EPA 552.2
Monobromoacetic Acid	ug/L	1	<0.60	<0.70			EPA 552.2
Monochloroacetic Acid	ug/L	1	<1.2	<1.1			EPA 552.2
Trichloroacetic Acid	ug/L	1	<0.50	<0.50			EPA 552.2
Total Haloacetic Acid	ug/L		<1.2	<1.1		60	EPA 552.2
Uranium - 234	pCi/L		1.710	1.730			HSL-300
Uranium - 235	pCi/L		0.056	0.05190			HSL-300
Uranium - 238	pCi/L		0.410	0.332			HSL-300

ASR / 15TH STREET WATERMAIN LOOPING PROJECT



Pay Voucher No. 2
Pay Period: July 2024



ENGINEER

Name: AE2S
Project Number: P10132-2023-001
Address: 6901 E Fish Lake Rd #184
Maple Grove, MN 55369

OWNER

Name: Joint Powers Water Board
Project Number: N/A
Address: 11100 50th Street NE
Albertville, MN 55301

CONTRACTOR

Name: Minger Construction Companies, Inc.
Project Number: 24-021
Address: 620 Corporate Drive
Jordan, MN 55352

CONTRACT SUMMARY:


Original Bid Amount	\$	1,062,161.50
Approved Contract Changes	\$	-
Revised Contract	\$	1,062,161.50

Contractual Retainage (%)	5%
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WORK CERTIFIED SUMMARY:

Previous Work Certified	\$	709,966.00
Previous Work Certified Retainage	\$	35,498.30
Previous Work Certified Less Retainage	\$	674,467.70
Previous Total Payments	\$	674,467.70
Work Certified in This Pay Voucher	\$	320,757.00
Pay Voucher Retainage	\$	16,037.85
Amount Paid This Pay Voucher	\$	304,719.15
Total Amount Paid to Date	\$	979,186.85
Balance to Finish Plus Retainage	\$	82,974.65


This Certificate of Pay Voucher certifies that the work items for the referenced project have been provided in full compliance with the approved plans and specifications.

Approved By: **AE2S**


 Ursinio Puga, PE (MN)
 Project Manager

 08/14/2024

 Date

Approved By: **Minger Construction Companies, Inc.**


 Ryan Blake
 Contractor

 08-14-24

 Date

Approved By: **Joint Powers Water Board**

 Owner Representative

 Date

Approved By: **Joint Powers Water Board**

 Owner Representative

 Date

Minger Construction Companies, Inc.
 620 Corporate Drive
 Jordan, MN 55352



Construction Pay Application

Project: St. Michael - ASR/15th Street Watermain Looping Project Pay Application #: 2 Pay Application Period: 2-Aug Minger Job #: 24-021

LINE ITEM	DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	ORIGINAL CONTRACT QUANTITY	ORIGINAL CONTRACT AMOUNT	QUANTITY THIS ESTIMATE	PREVIOUS QUANTITY	TOTAL QUANTITY TO DATE	TOTAL PERCENT COMPLETED	TOTAL OWED THIS ESTIMATE	TOTAL PREVIOUSLY PAID	TOTAL AMOUNT PAID
1	MOBILIZATION	LS	\$ 40,000.00	1	\$ 40,000.00		1.00	1.00	100%	\$ -	\$ 40,000.00	\$ 40,000.00
2	CLEARING & GRUBBING	ACRE	\$ 42,800.00	0	\$ 8,480.00		0.20	0.20	100%	\$ -	\$ 8,480.00	\$ 8,480.00
3	REMOVE BITUMINOUS PAVEMENT	CY	\$ 35.00	316	\$ 11,060.00	490.00		490.00	155%	\$ 17,150.00	\$ -	\$ 17,150.00
4	AGGREGATE SURFACING CLASS 5 (CV)	SY	\$ 38.00	66	\$ 2,508.00				0%	\$ -	\$ -	\$ -
5	AGGREGATE BASE CLASS 5 (CV)	CY	\$ 38.00	75	\$ 2,850.00	110.00		110.00	147%	\$ 4,180.00	\$ -	\$ 4,180.00
6	TEMPORARY GRAVEL ACCESS ROAD	LS	\$ 1,500.00	1	\$ 1,500.00	1.00		1.00	100%	\$ 1,500.00	\$ -	\$ 1,500.00
7	DRIVEWAY RESTORATION	EACH	\$ 500.00	4	\$ 2,000.00	3.00		3.00	75%	\$ 1,500.00	\$ -	\$ 1,500.00
8	TYPE SP9.5 WEARING COURSE MIXTURE (2.C)	TON	\$ 140.00	40	\$ 5,600.00	73.05		73.05	183%	\$ 10,227.00	\$ -	\$ 10,227.00
9	TYPE SP12.5 NON-WEARING COURSE MIXTURE (2.C)	TON	\$ 140.00	55	\$ 7,700.00	57.00		57.00	104%	\$ 7,980.00	\$ -	\$ 7,980.00
10	CONNECT TO EXIST. WATER MAIN	EACH	\$ 20,000.00	2	\$ 40,000.00	2.00		2.00	100%	\$ 40,000.00	\$ -	\$ 40,000.00
11	12" GATE VALVE AND BOX	EACH	\$ 7,000.00	1	\$ 7,000.00	1.00		1.00	100%	\$ 7,000.00	\$ -	\$ 7,000.00
12	16" BUTTERFLY VALVE AND BOX	EACH	\$ 11,000.00	1	\$ 11,000.00	1.00		1.00	100%	\$ 11,000.00	\$ -	\$ 11,000.00
13	16" ALPHA COUPLING	EACH	\$ 3,600.00	1	\$ 3,600.00	1.00		1.00	100%	\$ 3,600.00	\$ -	\$ 3,600.00
14	18" BUTTERFLY VALVE AND BOX	EACH	\$ 13,700.00	1	\$ 13,700.00	1.00		1.00	100%	\$ 13,700.00	\$ -	\$ 13,700.00
15	20" BUTTERFLY VALVE AND BOX	EACH	\$ 16,500.00	1	\$ 16,500.00	1.00		1.00	100%	\$ 16,500.00	\$ -	\$ 16,500.00
16	FIRE HYDRANT AND GATE VALVE ASSEMBLY	EACH	\$ 11,500.00	2	\$ 23,000.00	2.00		2.00	100%	\$ 23,000.00	\$ -	\$ 23,000.00
17	20" DUCTILE IRON WATERMAIN	LF	\$ 260.00	55	\$ 14,300.00	102.35		102.35	186%	\$ 26,611.00	\$ -	\$ 26,611.00
18	12" PVC WATERMAIN (OPEN CUT)	LF	\$ 165.00	108	\$ 17,820.00	110.00		110.00	102%	\$ 18,150.00	\$ -	\$ 18,150.00
19	12" DUCTILE IRON WATERMAIN (OPEN CUT)	LF	\$ 260.00	10	\$ 2,600.00				0%	\$ -	\$ -	\$ -
20	16" DUCTILE IRON WATERMAIN (OPEN CUT)	LF	\$ 210.00	36	\$ 7,560.00	43.00		43.00	119%	\$ 9,030.00	\$ -	\$ 9,030.00
21	18" PVC WATERMAIN (OPEN CUT)	LF	\$ 265.00	25	\$ 6,625.00	82.00		82.00	328%	\$ 21,730.00	\$ -	\$ 21,730.00
22	TRAFFIC CONTROL	LS	\$ 10,000.00	1	\$ 10,000.00	0.50		0.50	100%	\$ 5,000.00	\$ 5,000.00	\$ 10,000.00
23	PERMANENT PAVEMENT MARKINGS	LS	\$ 100.00	1	\$ 100.00				0%	\$ -	\$ -	\$ -
101	WATERMAIN - DUCTILE IRON FITTINGS	LB	\$ 15.00	6902	\$ 103,530.00	4,119.00		4,119.00	60%	\$ 61,785.00	\$ -	\$ 61,785.00
102	20" BUTTERFLY VALVE AND BOX	EACH	\$ 16,500.00	2	\$ 33,000.00	2.00		2.00	100%	\$ 33,000.00	\$ -	\$ 33,000.00
103	20" HDPE WATERMAIN	LF	\$ 188.00	3472	\$ 652,736.00	(87.00)	3,472.00	3,385.00	97%	\$ (16,356.00)	\$ 652,736.00	\$ 636,380.00
104	TEMPORARY EROSION AND SEDIMENT CONTROL	LS	\$ 7,500.00	1	\$ 7,500.00	0.50		0.50	100%	\$ 3,750.00	\$ -	\$ 3,750.00
105	TURF ESTABLISHMENT (SEED, FERTILIZER, BONDED FIBER MATRIX)	SY	\$ 2.25	3330	\$ 7,492.50				0%	\$ -	\$ -	\$ -
106	TOPSOIL BORROW	CY	\$ 16.00	150	\$ 2,400.00	45.00		45.00	30%	\$ 720.00	\$ -	\$ 720.00
TOTAL			\$ -		\$ 1,062,161.50					\$ 320,757.00	\$ 709,966.00	\$ 1,030,723.00

LINE ITEM	DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	ORIGINAL CONTRACT QUANTITY	ORIGINAL CONTRACT AMOUNT	QUANTITY THIS ESTIMATE	PREVIOUS QUANTITY	TOTAL QUANTITY TO DATE	TOTAL PERCENT COMPLETED	TOTAL OWED THIS ESTIMATE	TOTAL PREVIOUSLY PAID	TOTAL AMOUNT PAID
	CHANGE ORDERS											
			\$ -						0%	\$ -	\$ -	\$ -
			\$ -						0%	\$ -	\$ -	\$ -
			\$ -						0%	\$ -	\$ -	\$ -
	Total Change Orders				\$ -					\$ -	\$ -	\$ -
	Total Earned to Date Including Change Orders									\$ 320,757.00		\$ 1,030,723.00

SUMMARY	
Original Contract Amount	\$ 1,062,161.50
Change Orders to Date	\$ -
Current Contract Amount	\$ 1,062,161.50
Total Amount Previous Applications	\$ (674,467.70)
Total Amount Completed this Pay Period	\$ 320,757.00
Total Amount Completed to Date	\$ 1,030,723.00
Materials on Hand	\$ -
Total Amount Owed this Pay Period	\$ 356,255.30
Retainage Percentage	5.0%
Less Retainage this Period	\$ (16,037.85)
Less Retainage Total Project	\$ (51,536.15)
Net Amount Owed this Pay Period	\$ 304,719.15

Engineer _____ Date _____

Owner _____ Date _____

Contractor _____ Date _____

CERTIFICATE OF SUBSTANTIAL COMPLETION

Owner:	Joint Powers Water Board	Owner's Project No.:	N/A
Engineer:	AE2S	Engineer's Project No.:	P10132-2023-001
Contractor:	Minger Construction	Contractor's Project No.:	24-021
Project:	ASR / 15 th Street Watermain Looping Project		
Contract Name:	N/A		

This Preliminary Final Certificate of Substantial Completion applies to:

All Work The following specified portions of the Work:

Date of Substantial Completion: 08/12/2024

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor, and Engineer, and found to be substantially complete. The Date of Substantial Completion of the Work or portion thereof designated above is hereby established, subject to the provisions of the Contract pertaining to Substantial Completion. The date of Substantial Completion in the final Certificate of Substantial Completion marks the commencement of the contractual correction period and applicable warranties required by the Contract.

A punch list of items to be completed or corrected is attached to this Certificate. This list may not be all-inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

Amendments of contractual responsibilities recorded in this Certificate should be the product of mutual agreement of Owner and Contractor; see Paragraph 15.03.D of the General Conditions.

The responsibilities between Owner and Contractor for security, operation, safety, maintenance, heat, utilities, insurance, and warranties upon Owner's use or occupancy of the Work must be as provided in the Contract, except as amended as follows: N/A

Amendments to Contractor's Responsibilities: None As follows: N/A

The following documents are attached to and made a part of this Certificate:

ASR / 15th Street Watermain Looping Project Working Completion List

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents, nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract Documents.

Engineer

By (signature):



Name (printed):

Ursinio Puga, PE (MN)

Title:

Project Manager

ASR/15th ST Watermain Looping Project Working Completion List

Issue Categories
 WI: Incomplete work item that requires correct/finishing
 RP: Request for information
 CORRECTED: Incomplete work item that has been accepted

Last Update: GP_08/14/24

Issue No	Issue	Author	Discipline	Corrective Action	Date Established	Contractor Comments	Engineer Comments	Status	Responsible Party	Date Work Scheduled	Accepted By	Date Closed	Photo
1	Fill in all potholes done for existing utilities	GP	Site	Backfill all potholes along the length of the site	07/30/24			CORRECTED	Minger		GP	08/09/24	
2	Center Driveway restoration	GP	Site	restore center driveway to solar field to condition prior to construction	08/07/24			CORRECTED	Minger		GP	08/09/24	
3	Culvert repair under center driveway	GP	Site	Replace or repair damaged flared end of culvert that goes under the center driveway mentioned in item No. 2	08/07/24			CORRECTED	Minger		GP	08/14/24	
4	Clean/fix signs for the culvert	GP	Site	Clean up and correct the riprap to the culvert under the center driveway to the condition it was prior to construction	08/07/24			CORRECTED	Minger		GP	08/14/24	
5	Seeding all disturbed areas	GP	Site	Seed and establish all disturbed areas	08/07/24			CORRECTED	Minger		GP	08/09/24	
6	Settle the disturbed corn of the landowner	GP	Site	Notify and settle anything with the landowner over the corn that was disturbed near the hydrant at station 25+50	08/07/24	Ryan (Minger) - They gave the landowner class 5 from the temporary driveway and he was ok with this.		CORRECTED	Minger				
7	Remove all temporary traffic control signs	GP	Site	Remove all signs associated with the traffic control and detour routes	08/07/24			CORRECTED	Minger		GP	08/09/24	
8	Remove all debris and pallet of extra material of ASR lot	JAS	Site	Remove material on the ASR property in the ROW	8/7/2024			IWI	Minger				
9	Remove Broken pipes and metal from west side	JAS	Site	Remove and restore any damage to seeding	8/7/2024			IWI	Minger				
10	Remove Silt fence and logs	JAS	Site	Remove after turf/veg has established.	8/7/2024			IWI	Minger				
11	Fix tracer wire termination box at existing hydrant at Kadler	GP	Site	Tracer wire termination box hit/opened during seeding, clean hydroseeded out and confirm this connection still works	08/09/24	Joe (Minger) - This box was in this condition prior to construction. I requested they clean the hydroseeded out of the box.		IWI	Minger				
12	Install posts for marking of valves and tracer wire termination box	GP	Site	Install metal posts at all mainline valves that are not hydrant isolation valves. Install metal post for tracer wire termination box at ASR/pumphouse.	08/09/24			IWI	Minger				
13	Bring existing curb stop back to grade	GP	Site	Adjust the curb stop back to grade on the east side by the pump house.	08/12/24			IWI	Minger				

GENERAL BUSINESS

Joint Powers Water Board	Tel. : 763-497-3611
11100 50 th St NW	Fax : 763-497-4908
Albertville MN 55301	www.jointpowerswaterboard.org

MEMO

TO :	Joint Powers Water Board
FROM :	John Seifert
DATE :	August 13, 2024
SUBJECT :	2024 Abdo Long Range Planning Update

In 2023 the Joint Powers Water Board approved the first long range planning document for use in financial modeling of operations, capital projects, and minimum reserve balances for Joint Powers finances. With this approval it was intended to serve as an annual updated document to be used by the Board for approval of upcoming capital improvements and setting fees in future years. This update is now available after the inclusion of the audited 2023 financial operations previously approved by the Board. As discussed at the end of the 2023 fiscal year, Staff has provided the addition of a large asset replacement fund (LARF) to this year's update for the Board's consideration. This LARF plan looks to forecast significant expenditures that would otherwise be stabilized during annual budgeting. The eligible items being identified in the LARF would be significant depreciating assets that have an estimated service life. Using the roofing as an example with a 20 year service life. Annually we would program 1/20th of the cost of a new roof making the funds available in the future when the improvement is needed. This process thereby helps streamline budgeting and limits surprises for deferred maintenance and helps the utility have a full picture of budgeting for infrastructure.

This year's update to construction projects has been predominantly one of timing with only the inclusion of the LARF being added to the list. One other item of note would be the inclusion of planning for potential site planning activities in 2025.

Abdo has updated the financial model to represent last year's construction activity, and as mentioned, the inclusion of updated audited business financials from Joint Powers water sales and lease revenue. The enclosed draft update shows a very stable projection that again will be reviewed on an annual basis based on construction activity and actual revenue derived from operations.

Recommended Motion:

- Staff is recommending the Board approve the 2024 update to the long range planning document for use in its fund accounting and business operations for the next year.



Rate Study and Long-term Plan

Joint Powers Water Board of Albertville, Hanover and St. Michael

Albertville, Minnesota



Edina Office

5201 Eden Avenue, Ste 250
Edina, MN 55436
P 952.835.9090

Mankato Office

100 Warren Street, Ste 600
Mankato, MN 56001
P 507.625.2727

Scottsdale Office

14500 N Northsight Blvd, Ste 233
Scottsdale, AZ 85260
P 480.864.5579

Joint Powers Water Board of Albertville, Hanover and St. Michael
Rate Study and Long-term Plan Memo
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DRAFT

INTRODUCTORY SECTION

JOINT POWERS WATER BOARD
ALBERTVILLE, MINNESOTA

DRAFT

NEED DATE

Board of Commissioners
Joint Powers Water Board of Albertville, Hanover and St. Michael

Introduction

We have prepared the attached 2024 - 2029 Utility Rate Study and Long-term Plan for the Joint Powers Water Board (JPWB) that is intended to give a big picture view of the financial status of the Water Enterprise fund as it stands currently and how forecasted assumptions will change things in future years. We have not examined the projection and do not express an opinion or any other form of assurance on the accompanying schedules or assumptions. Furthermore, there will usually be differences between the forecasted and actual results because events and circumstances frequently do not occur as expected and those differences may be material. We have no responsibility to update this report for events and circumstances occurring after the date of this report. The JPWB's assumptions made are as follows:

Assumptions - Forecasting

- The prior three years actual ledger balances were used for projecting 2024 activity and beyond. For cashflow purposes, some modifications were made for debt requirements, capital purchases, grant receipts/capital contributions, depreciation, connection fees, contracted services, and interest earnings reviewed with management. The forecasting is reflective of the JPWB accepted audited financial statements from 2023.
- User base is anticipated to increase at 215 new homes per year through 2026 and 275 thereafter. This number is conservative and based on the prior year's increases and future projections for member cities of Joint Powers. These assumptions assume no commercial growth.
- With the anticipated new home growth noted above, the current model assumes a 10% increase in the connection fee rate for five consecutive years as approved as a gradual step method to adjust as decided upon in the prior rate study. Connection fees are estimated starting with the 2024 rate of \$2,310 per residential connection.
- User revenues were calculated using assumptions of residential customer growth and usage assumptions tied to potential future rate changes. The current model assumes an increase of 1.5% in usage rates and fixed fees for five consecutive years. Users are added using the growth projections noted above at an average customer bill of 6,000-gallon usage at \$19.80. To maintain stable revenues, management is recommending the forecasted increase noted above as 1.5% in both usage and fixed fees.
- Normal operating expenses as well as certain operating revenues will increase by a 3.0 percent inflation rate. The JPWB has no salaries or benefit expenditures in their enterprise fund and contracts with Veolia. The increase for contracted services is forecasted at a rate of 6.0 percent for the life of the plan based on current experience with the vendor and expected rising cost of labor, materials, chemicals and energy but will be reviewed on an annual basis based on market conditions.

Assumptions - Forecasting – Continued

- Capital improvements and other capital maintenance items have been identified in the capital plan in the anticipated year of construction.
 - JPWB does have a large construction project anticipated for 2026 (Water Plant Expansion) that is anticipated to be funded with issuance of debt to pay for the project. Bond proceeds are included in the study to offset capital expenses with future debt service payments added in relation to the new debt issued. Debt service payments are expected to start in 2027. The debt issuances are assumed at 4% interest and to be paid over 20 years.
 - All projects are projected using a 3.0% ENR index inflation rate.
- Interest rates are assumed to be 2.5% conservatively through the life of the plan.
- Other revenue from antenna leases are expected to follow current contracts and no future assumptions for renewals have been considered in future projections.

Assumptions – Other

- One of the main goals of management is to determine and split the existing cash balance into three categories: operating, capital, and large asset replacement. There are charts outlining those amounts on future pages.
 - Operational cash includes outflows for payments to suppliers and vendors, as well as the monthly/yearly payment to Veolia. Operational inflows include receipts from customers and other revenues including interest and antenna rent.
 - Capital cash includes inflows and outflows for debt payments and issuance, capital payments, connection fees. Capital cash also includes yearly increase in line with yearly depreciation of current and future capital assets.
 - Large asset replacement cash includes payments for yearly asset replacement and assumption of yearly funding assumed by management to be \$435,637.
 - Depreciation and large asset replacement amounts are included in the calculation as a decrease in operational cash.

Final Analysis and Future Action

- The JPWB should consider all assumptions for growth, connections, capital financing, and usage projections to ensure alignment with management.
- Actual project costs should be reviewed and monitored for any changes in costs for future years. Any significant change in project scope or material cost could have an impact on the assumptions.
- Actual debt service obligation should be reviewed and monitored for any changes once the debt is issued. Interest rate and overall term could have a significant impact on the yearly outflow and cash needed to make the payments in future years.

Sincerely,

Abdo Financial Solutions
NEED DATE

FINANCIAL SECTION

JOINT POWERS WATER BOARD
ALBERTVILLE, MINNESOTA

DRAFT

Joint Powers Water Board
Water Fund
Cash Flow Projections - Detailed
For the Years Ending December 31, 2023 Through 2029

	Actual results			Study Projections					
	2021	2022	2023	Estimated 2024	Estimated 2025	Estimated 2026	Estimated 2027	Estimated 2028	Estimated 2029
Projected Rate Increase									
Usage rates					1.5%	1.5%	1.5%	1.5%	1.5%
Fixed					1.5%	1.5%	1.5%	1.5%	1.5%
Cash Flows From Operating Activities									
Receipts from customers and users	\$ 3,181,364	\$ 2,913,604	\$ 3,399,211	\$ 3,231,711	\$ 3,618,344	\$ 3,856,085	\$ 4,165,967	\$ 4,549,615	\$ 5,008,689
Other revenues	163,930	149,595	154,969	215,914	228,675	234,250	242,280	250,651	261,933
Depreciation**	-	-	(805,407)	(829,569)	(854,456)	(880,090)	(906,493)	(933,688)	(961,699)
Large Asset Management Assumption**	-	-	-	(435,637)	(435,637)	(435,637)	(435,637)	(435,637)	(435,637)
Payments to suppliers/service providers	(284,067)	(253,986)	(508,990)	(378,064)	(389,406)	(401,088)	(413,123)	(425,518)	(438,282)
Payments to contracted/Veolia*	(1,160,148)	(1,138,355)	(1,599,327)	(1,895,287)	(2,009,004)	(2,129,544)	(2,257,317)	(2,392,756)	(2,536,321)
Net cash from operating activities	1,901,079	1,670,858	640,456	(90,933)	158,516	243,976	395,677	612,667	898,683
Cash Flows From Capital and Related Financing Activities									
Acquisition of Capital Assets	(299,673)	(2,465,871)	(826,147)	(2,574,800)	(9,527,500)	(21,589,315)	(1,639,091)	-	-
Acquisition of O&M and Large Asset Replacement	-	-	-	(189,804)	(195,498)	(201,363)	(207,404)	(213,625)	(220,034)
Connection Fees Received	1,121,575	1,557,682	746,759	496,650	546,315	600,925	845,625	930,325	1,023,275
Capital Contributions	20,000	257,305	628,303	-	-	-	-	-	-
Proceeds of Long-term Debt, Net of Issuance Costs	-	-	-	-	-	21,218,000	-	-	-
Depreciation**	-	-	805,407	829,569	854,456	880,090	906,493	933,688	961,699
Large Asset Management Assumption**	-	-	-	435,637	435,637	435,637	435,637	435,637	435,637
Interest Paid on Long-term Debt	-	-	-	-	-	-	(806,284)	(763,848)	(721,412)
Principal Paid on Long-term Debt	-	-	-	-	-	-	(1,060,900)	(1,060,900)	(1,060,900)
Net cash from capital and related financing activities	841,902	(650,884)	1,354,322	(1,002,748)	(7,886,590)	1,343,974	(1,525,924)	261,277	418,265
Cash Flows From Investing Activities									
Investment earnings and other activity	(235,096)	(1,322,034)	726,066	481,974	466,682	285,147	331,974	312,017	341,666
Net Increase (Decrease)	2,507,885	(302,060)	2,720,844	(611,707)	(7,261,392)	1,873,097	(798,273)	1,185,961	1,658,614
In Cash and Cash Equivalents	14,352,300	16,860,185	16,558,125	19,278,969	18,667,262	11,405,871	13,278,967	12,480,694	13,666,656
Total Cash and Cash Equivalents, Ending	\$ 16,860,185	\$ 16,558,125	\$ 19,278,969	\$ 18,667,262	\$ 11,405,871	\$ 13,278,967	\$ 12,480,694	\$ 13,666,656	\$ 15,325,270
Capital Cash	\$ 9,980,784	\$ 10,706,803	\$ 9,458,222	\$ 1,331,493	\$ 2,441,193	\$ 2,441,193	\$ 687,036	\$ 726,301	\$ 928,963
Large Asset Replacement Cash	-	\$ 435,637	\$ 681,470	\$ 921,609	\$ 1,155,883	\$ 1,384,116	\$ 1,606,128	\$ 1,821,731	\$ 2,046,868
Operational Cash	\$ 6,577,341	\$ 8,136,529	\$ 8,527,570	\$ 9,152,769	\$ 9,681,891	\$ 10,409,542	\$ 11,334,227	\$ 12,574,576	\$ 13,350,441
Minimum Target Operating Reserve			\$ 1,199,205	\$ 1,265,316	\$ 1,335,220	\$ 1,409,137	\$ 1,487,302	\$ 1,569,966	\$ 1,658,614
Cash in Excess of Reserve			\$ 7,328,365	\$ 7,887,453	\$ 8,346,671	\$ 9,000,405	\$ 9,846,925	\$ 11,004,610	\$ 12,266,656

* Amount includes chemical, utilities, and repair and maintenance reconcilable limit budget.
** Amounts shown as reductions to operating cash as future capital and large asset replacements

Joint Powers Water Board
Water Fund

Cash Flow Projections - Summary
For the Years Ending December 31, 2024 Through 2029

	Beginning	Estimated 2024	Estimated 2025	Estimated 2026	Estimated 2027	Estimated 2028	Estimated 2029
Operating Activity							
Receipts From Customers		\$ 3,231,711	\$ 3,618,344	\$ 3,856,085	\$ 4,165,967	\$ 4,549,615	\$ 5,008,689
Other Revenues		697,888	695,357	519,397	574,254	562,668	603,599
Depreciation		(829,569)	(854,456)	(880,090)	(906,493)	(933,688)	(961,699)
Large Asset Management Assumption		(435,637)	(435,637)	(435,637)	(435,637)	(435,637)	(435,637)
Payments to Suppliers		(378,064)	(389,406)	(401,088)	(413,123)	(425,518)	(438,282)
Payments to Contracted/Veolia*		(1,895,287)	(2,009,004)	(2,129,544)	(2,257,317)	(2,392,756)	(2,536,321)
Total Operating Activity		391,041	625,198	529,123	727,651	924,684	1,240,349
Total Operating	\$ 8,136,529	\$ 8,527,570	\$ 9,152,769	\$ 9,681,891	\$ 10,409,542	\$ 11,334,227	\$ 12,574,576
Capital Activity							
Connection Fees		496,650	546,315	600,925	845,625	930,325	1,023,275
Bond Proceeds		-	-	21,218,000	-	-	-
Depreciation		829,569	854,456	880,090	906,493	933,688	961,699
Debt Service Payments		-	-	-	(1,867,184)	(1,824,748)	(1,782,312)
Acquisition of Capital Assets		(2,574,800)	(9,527,500)	(21,589,315)	(1,639,091)	-	-
Total Capital Activity		(1,248,581)	(8,126,729)	1,109,700	(1,754,157)	39,265	202,662
Total Capital	\$ 10,706,803	\$ 9,458,222	\$ 1,331,493	\$ 2,441,193	\$ 687,036	\$ 726,301	\$ 928,963
Large Asset Replacement Activity							
Large Asset Management Assumption		435,637	435,637	435,637	435,637	435,637	435,637
Acquisition of Large Assets/Yearly Estimate		(189,804)	(195,498)	(201,363)	(207,404)	(213,625)	(220,034)
Total Large Asset Replacement Activity		245,833	240,139	234,274	228,233	222,012	215,603
Total Large Asset Replacement	\$ 435,637	\$ 681,470	\$ 921,609	\$ 1,155,883	\$ 1,384,116	\$ 1,606,128	\$ 1,821,731

* Amount includes chemical, utilities, and repair and maintenance reconcilable limit budget.

Joint Powers Water Board
Water Fund
Long Term Capital Improvement Plan
For the Years Ending December 31, 2024 Through 2040

Year	Capital Plan Type	Amount*	2024	2025	2026	2027	2028	2029	2030	2031
2023-2024	Water Plant Rehabilitation	\$	\$ 2,064,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2025	Filter Rehab	Capital	300,000	309,000	-	-	-	-	-	-
2025	Valve Actuator Replacement	Capital	500,000	515,000	-	-	-	-	-	-
2025-2026	SCADA Rehab	Capital	650,000	257,500	371,315	-	-	-	-	-
2024	Other Miscellaneous Improvements	Capital	1,130,000	-	-	-	-	-	-	-
2025	Extend Watermain to Kadler	Capital	7,700,000	7,931,000	-	-	-	-	-	-
2025	3 MG Ground Storage at ASR Site	Capital	7,700,000	-	-	-	-	-	-	-
2025	3 MG Ground Storage at Treatment Plant	Capital	7,700,000	-	-	-	-	-	-	-
2026	Water Treatment Plant Expansion	Capital	20,000,000	515,000	21,218,000	-	-	-	-	-
2032	I-94 Transmission Main Crossing	Capital	1,000,000	-	-	-	-	-	-	-
2030	East Water Tower Re-Paint	Capital	2,000,000	-	-	-	-	-	2,388,105	-
2036	West Water Tower Re-Paint	Capital	1,500,000	-	-	-	-	-	-	-
2027	Construct Well 8	Capital	1,500,000	-	-	1,639,091	-	-	-	-
2031	Construct Well 10	Capital	2,500,000	-	-	-	-	-	-	-
2035	Construct Well 11	Capital	2,500,000	-	-	-	-	-	-	-
2037	Construct Well 12	Capital	2,500,000	-	-	-	-	-	-	-
2040	Construct Well 13	Capital	2,500,000	-	-	-	-	-	-	3,074,685
Ongoing	Generators	Capital	40,000	41,200	42,436	43,709	45,020	46,371	47,762	49,195
Ongoing	Facility Roof Replacement	Lage Asset Replacement	30,000	30,900	31,827	32,782	33,765	34,778	35,821	36,896
Ongoing	Actuators	Lage Asset Replacement	32,500	33,475	34,479	35,513	36,578	37,675	38,805	39,969
Ongoing	SCADA Instrumentation	Lage Asset Replacement	33,333	34,333	35,363	36,424	37,517	38,643	39,802	40,996
Ongoing	HVAC	Lage Asset Replacement	26,471	27,265	28,083	28,925	29,793	30,687	31,608	32,556
Ongoing	Parking Lots	Lage Asset Replacement	5,715	5,886	6,063	6,245	6,432	6,625	6,824	7,029
Ongoing	Chemical Feed Pumps	Lage Asset Replacement	14,285	14,285	15,155	15,610	16,078	16,560	17,057	17,569
Ongoing	Flooring and Furnishing	Lage Asset Replacement	7,500	7,725	7,957	8,196	8,442	8,695	8,956	9,225
2024	Rehabilitation Well 7	Maintenance	100,000	-	-	-	-	-	-	-
2025	Rehabilitation Well 5	Maintenance	100,000	103,000	-	-	-	-	-	-
2026	Rehabilitation Well 6	Maintenance	75,000	79,568	-	-	-	-	-	-
2027	Rehabilitation Well 4	Maintenance	75,000	-	81,955	-	-	-	-	-
2028	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	84,413	-	-	-
2029	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	86,946	-	-
2030	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	89,554	-
2031	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	-	92,241
2032	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	-	-
2033	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	-	-
2034	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	-	-
2035	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	-	-
2036	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	-	-
2037	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	-	-
2038	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	-	-
2039	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	-	-
2040	Rehabilitation Well TBD	Maintenance	75,000	-	-	-	-	-	-	-
Totals			\$ 2,864,604	\$ 9,825,998	\$ 21,870,246	\$ 1,928,450	\$ 298,038	\$ 306,980	\$ 2,704,294	\$ 3,400,361

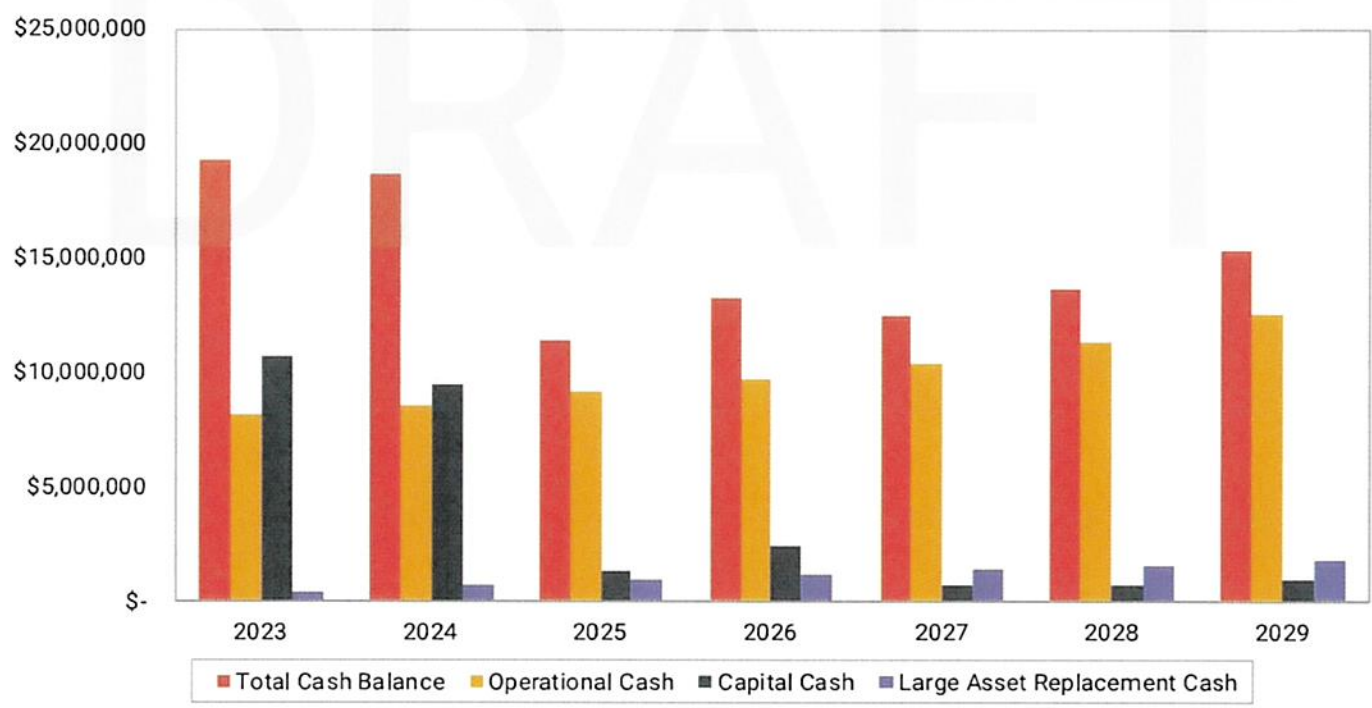
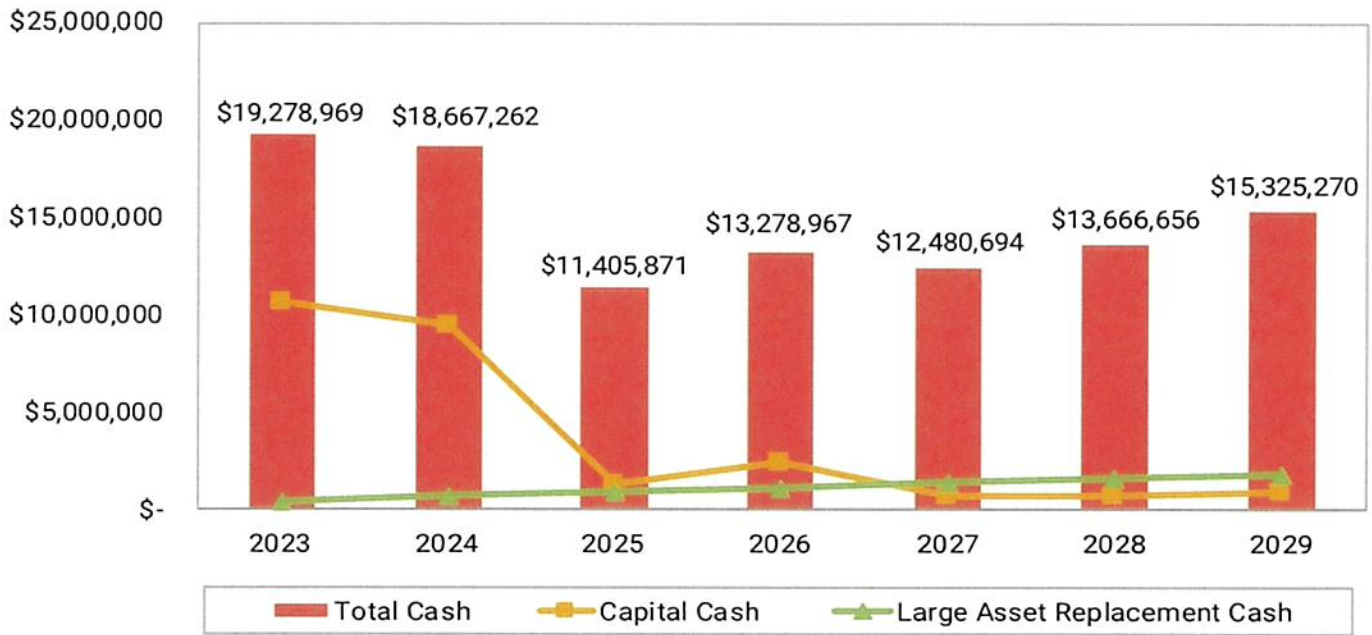
* Amount is listed at current 2024 pricing and projected dollar estimate of the project.
Future proposed expenses included in the plan are shown in specific years
adjusted to show compounding ENR index inflation rate 3.0% per year.

Joint Powers Water Board
Water Fund
Long Term Capital Improvement Plan (Continued)
For the Years Ending December 31, 2024 Through 2040

Year	Capital Plan Type	Amount*	2032	2033	2034	2035	2036	2037	2038	2039	2040
2023-2024	Water Plant Rehabilitation	\$									
2025	Filter Rehab	2,064,000									
2025	Valve Actuator Replacement	300,000									
2025	SCADA Rehab	500,000									
2025-2026	Other Miscellaneous Improvements	650,000									
2024	Extend Watermain to Kadler	1,130,000									
2025	3 MG Ground Storage at ASR Site	7,700,000									
2035	3 MG Ground Storage at Treatment Plant	7,700,000				10,658,601					
2026	Water Treatment Plant Expansion	20,000,000									
2032	I-94 Transmission Main Crossing	1,000,000	1,266,770								
2030	East Water Tower Re-Paint	2,000,000									
2036	West Water Tower Re-Paint	1,500,000				2,138,641					
2027	Construct Well 8	1,500,000									
2031	Construct Well 10	2,500,000									
2035	Construct Well 11	2,500,000									
2037	Construct Well 12	2,500,000				3,460,585					
2040	Construct Well 13	2,500,000						3,671,334			
Ongoing	Generators	40,000	50,671	52,191	53,757	55,370	57,031	58,742	60,504	62,319	64,189
Ongoing	Facility Roof Replacement	30,000	38,003	39,143	40,317	41,527	42,773	44,056	45,378	46,739	48,141
Ongoing	Actuators	32,500	41,168	42,403	43,675	44,985	46,335	47,725	49,157	50,632	52,151
Ongoing	SCADA Instrumentation	33,333	42,226	43,493	44,798	46,142	47,526	48,952	50,421	51,934	53,492
Ongoing	HVAC	26,471	33,533	34,539	35,575	36,642	37,741	38,873	40,039	41,240	42,477
Ongoing	Parking Lots	5,715	7,240	7,457	7,681	7,911	8,148	8,392	8,644	8,903	9,170
Ongoing	Chemical Feed Pumps	14,285	18,096	18,639	19,198	19,774	20,367	20,978	21,607	22,255	22,923
Ongoing	Flooring and Furnishing	7,500	9,502	9,787	10,081	10,383	10,694	11,015	11,345	11,685	12,036
2024	Rehabilitation Well 7	100,000									
2025	Rehabilitation Well 5	100,000									
2026	Rehabilitation Well 6	75,000									
2027	Rehabilitation Well 4	75,000									
2028	Rehabilitation Well TBD	75,000									
2029	Rehabilitation Well TBD	75,000									
2030	Rehabilitation Well TBD	75,000									
2031	Rehabilitation Well TBD	75,000									
2032	Rehabilitation Well TBD	75,000	95,008								
2033	Rehabilitation Well TBD	75,000		97,858							
2034	Rehabilitation Well TBD	75,000			100,794						
2035	Rehabilitation Well TBD	75,000				103,818					
2036	Rehabilitation Well TBD	75,000					106,932				
2037	Rehabilitation Well TBD	75,000						110,140			
2038	Rehabilitation Well TBD	75,000							113,444		
2039	Rehabilitation Well TBD	75,000								116,848	
2040	Rehabilitation Well TBD	75,000									120,353
Totals		\$	1,602,217	345,510	355,876	14,485,738	2,516,188	4,060,207	400,539	412,555	4,436,698

* Amount is listed at ()
Future propose
adjusted to shc

Joint Powers Water Board of Albertville, Hanover and St. Michael
 2024 – 2029 Utility Rate Study
 Financial Section



Joint Powers Water Board of Albertville, Hanover and St. Michael
2024 – 2029 Utility Rate Study
Financial Section

5- Year Capital Activity

Project	Capital Type	2024	2025	2026	2027	2028	2029
Water Plant Rehabilitation							
Filter Rehab	Operation and Maintenance	\$ 1,444,800	\$ -	\$ -	\$ -	\$ -	\$ -
Valve Actuator Replacement	Operation and Maintenance	-	309,000	-	-	-	-
SCADA Rehab	Operation and Maintenance	-	515,000	-	-	-	-
Other Miscellaneous Improvements	Operation and Maintenance	-	257,500	371,315	-	-	-
Extend Watermain to Kadler	Capital	1,130,000	-	-	-	-	-
3 MG Ground Storage at ASR Site	Capital	-	7,931,000	-	-	-	-
Water Treatment Plant Expansion	Capital	-	515,000	21,218,000	-	-	-
Construct Well 8	Capital	-	-	-	1,639,091	-	-
Rehabilitation Well 7	Operation and Maintenance	100,000	-	-	-	-	-
Rehabilitation Well 5	Operation and Maintenance	-	103,000	-	-	-	-
Rehabilitation Well 6	Operation and Maintenance	-	-	79,568	-	-	-
Rehabilitation Well 4	Operation and Maintenance	-	-	-	81,955	-	-
Rehabilitation Well TBD	Operation and Maintenance	-	-	-	-	84,413	-
Rehabilitation Well TBD	Operation and Maintenance	-	-	-	-	-	86,946
Large Asset Replacement Projects	Large Asset Replacement	189,804	195,498	201,363	207,404	213,625	220,034
Total		\$ 37,094,316	\$ 2,864,604	\$ 9,825,998	\$ 21,870,246	\$ 1,928,450	\$ 298,038
Operation and Maintenance		\$ 3,433,497	\$ 1,544,800	\$ 1,184,500	\$ 450,883	\$ 81,955	\$ 84,413
Capital		\$ 32,433,091	\$ 1,130,000	\$ 8,446,000	\$ 21,218,000	\$ 1,639,091	\$ -
Large Asset Replacement		\$ 1,227,728	\$ 189,804	\$ 201,363	\$ 207,404	\$ 213,625	\$ 220,034

Joint Powers Water Board	Tel. : 763-497-3611
11100 50 th St NW	Fax : 763-497-4908
Albertville MN 55301	www.jointpowerswaterboard.org

MEMO

TO :	Joint Powers Water Board
FROM :	John Seifert
DATE :	August 13, 2024
SUBJECT :	Potential Water Treatment Plant Land Acquisition

As part of the future proposed treatment plant expansion on-site at 11100 50th St. NE, previous site plans have been developed with a concept of expansion of the building to the East of the existing building. To this end, the Board has previously acquired additional property for the planned future expansion. As part of the circulation to support the future expansion, a circulation road has been discussed as potentially necessary to accommodate delivery and water sales customers on the site. Staff has made initial contact with the neighboring property to the West for a potential acquisition that would help control both the circulation and proximity of adjacent uses to Joint Powers Water Board's existing assets.

The attached drawing represents a potential concept that would afford Joint Powers an opportunity on a willing seller/willing buyer potential property acquisition. This concept would provide an additional minimum of 20 feet the length of the residential lot to the West. This acquisition, along with the existing narrow real estate between the ground storage reservoirs, would allow for a circulation road back to 50th St. NE.

In addition to a potential offer for land acquisition, Staff is recommending the offer to the property owner of a right of first refusal option.

If the Board finds favor with the offer, Staff would recommend approval for the Joint Powers Water Board's attorney to draft an offer letter and potential option agreement for future Board review and approval.

Recommended Motion: None.

Proposed Property Purchase

Joint Powers Water Board

Figure 1

8/5/2024



Joint Powers Water Board	Tel. : 763-497-3611
11100 50 th St NW	Fax : 763-497-4908
Albertville MN 55301	www.jointpowerswaterboard.org

MEMO

TO :	Joint Powers Water Board
FROM :	John Seifert
DATE :	August 13, 2024
SUBJECT :	Joint Powers Water Board Draft 2025 Budget Discussion

Attached for discussion are the 2025 potential budget items for the Board's review. The construction activity identified in the 2025 CIP looks at delivery of some significant projects and the development of concepts for treatment plant expansion. Along with the capital projects, Staff would like to discuss any potential service level improvements or additions for 2025. This will be an initial discussion with the intent to gather research in between this and the next TAC meeting.

Recommended Motion: None.

Joint Powers Water Board of Albertville, Hanover and St. Michael
2024 – 2029 Utility Rate Study
Financial Section

5- Year Capital Activity

Project	Capital Type	2024	2025	2026	2027	2028	2029
Water Plant Rehabilitation							
Filter Rehab	Operation and Maintenance	\$ 1,444,800	\$ -	\$ -	\$ -	\$ -	\$ -
Valve Actuator Replacement	Operation and Maintenance	-	309,000	-	-	-	-
SCADA Rehab	Operation and Maintenance	-	515,000	-	-	-	-
Other Miscellaneous Improvements	Operation and Maintenance	-	257,500	371,315	-	-	-
Extend Watermain to Kadler	Capital	1,130,000	-	-	-	-	-
3 MG Ground Storage at ASR Site	Capital	-	7,931,000	-	-	-	-
Water Treatment Plant Expansion	Capital	-	515,000	21,218,000	-	-	-
Construct Well 8	Capital	-	-	-	1,639,091	-	-
Rehabilitation Well 7	Operation and Maintenance	100,000	-	-	-	-	-
Rehabilitation Well 5	Operation and Maintenance	-	103,000	-	-	-	-
Rehabilitation Well 6	Operation and Maintenance	-	-	79,568	-	-	-
Rehabilitation Well 4	Operation and Maintenance	-	-	-	81,955	-	-
Rehabilitation Well TBD	Operation and Maintenance	-	-	-	-	84,413	-
Rehabilitation Well TBD	Operation and Maintenance	-	-	-	-	-	86,946
Large Asset Replacement Projects	Large Asset Replacement	189,804	195,498	201,363	207,404	213,625	220,034
Total		\$ 37,094,316	\$ 9,825,998	\$ 21,870,246	\$ 1,928,450	\$ 298,038	\$ 306,980
Operation and Maintenance		\$ 3,433,497	\$ 1,184,500	\$ 450,883	\$ 81,955	\$ 84,413	\$ 86,946
Capital		\$ 32,433,091	\$ 8,446,000	\$ 21,218,000	\$ 1,639,091	\$ -	\$ -
Large Asset Replacement		\$ 1,227,728	\$ 195,498	\$ 201,363	\$ 207,404	\$ 213,625	\$ 220,034

ENGINEER

Engineering Report

SCADA System Evaluation (DRAFT)

Joint Powers Water Board

JPAHS 179883 | August 16, 2024



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August 16, 2024

RE: SCADA System Evaluation
Engineering Report
Joint Powers Water Board
SEH No. JPAHS 179883 4.00

Mr. John Seifert
Mr. Dustin Carlson
11100 50th Street NE
Albertville, MN 55301

Dear Mr. Seifert and Mr. Carlson:

Attached is the revised draft SCADA System evaluation for you and your staff to review ahead of our meeting on August 21st. Please review and let me know if you have any questions prior to our meeting.

Sincerely,

A handwritten signature in black ink that reads "John P. Carlson".

John Carlson, PE
Senior Professional Engineer
(Lic. CO, IA, IL, IN, MI, MN, MO, NE, WI, WY)

dmk

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Engineering Report

SCADA System Evaluation (DRAFT)

Prepared for Joint Powers Water Board

1 Introduction

1.1 Background

The water system SCADA (Supervisory Control and Data Acquisition) was mainly installed in 1999 with the central control center located at the water plant. The water plant communicates to the remote towers and wells over radio. The water plant uses Wonderware Intouch software to provide operator interface to the control system and data is stored using a Hach Wims database. 3rd party software is used for remote connection to the SCADA computer.

1.2 Project Goals

This project will describe the existing SCADA system major components and provide recommendations for modernization.

2 SCADA Inventory

2.1 Water System SCADA

2.1.1 Existing System Description

The Joint Powers Water Board SCADA System provides monitoring and control for the water system and consists of the following sites:

1. Water Treatment Plant
 - a. New Filter plant (LCP-A)
 - b. Old Filter Plant (LCP-1)
 - i. Booster Pump #1
 - ii. Booster Pump #2
 - iii. Well #1
 - iv. Well #2
 - v. Well #3
 - vi. Well #4
2. 1.5MG East Water Tower

3. 0.75MG West Water Tower
 - a. Well #5
 - b. Altitude Valve
4. Well #6 and Well #7
5. Well #8 (Future)
6. Well #9 (ASR Aquifer Storage & Recovery)

All radios are MDS 9810. The repeater appears to be located on the West Tower. All PLCs are Allen-Bradley:

1. Water Treatment Plant LCP-1 (Old Filter Plant): SLC 5/05
2. Water Treatment Plant LCP-A (New Filter Plant): SLC 5/05
3. East Tower: MicroLogix 1000
4. West Tower & Well #5: MicroLogix 1500
5. Wells 6 & 7: MicroLogix 1500
6. Well #9: SLC 5/05

SCADA system software is Wonderware and runs on two computers. The old system runs on a Windows XP based system. The new system is Windows 7 based but is typically not used as the interface does not display correctly. Both operating systems are obsolete.

In addition, the Wonderware SCADA software has become prohibitively expensive and is not scalable between devices.

2.1.2 Equipment Summary

Table 1 – RTU Assessment Table

System	Panel	Description	PLC	LifeCycle	Recommendation
WTP	LCP-1	Original Filter Control Panel	SLC 5/05	Discontinued	Replace
WTP	LCP-A	New Filter Control Panel	SLC 5/05	Discontinued	Replace
East Tower		East Tower Control Panel	Micrologix 1000	Discontinued	Replace
West Tower & Well 5		West Tower Control Panel	Micrologix 1500	Discontinued	Replace
Wells 6 & 7		Wells 6 & 7 Control Panel	Micrologix 1500	Discontinued	Replace
Well 9		Well 8 Control Panel	SLC 5/05	Discontinued	Replace

Table 2 – Radio Assessment Table

System	Panel	Description	Radio	LifeCycle	Recommendation
WTP	LCP-1	Original Filter Control Panel	MDS 9810	Discontinued	Replace
WTP	LCP-A	New Filter Control Panel	MDS 9810	Discontinued	Replace
East Tower		East Tower Control Panel	MDS 9810	Discontinued	Replace
West Tower & Well 5		West Tower Control Panel	MDS 9810	Discontinued	Replace
Wells 6 & 7		Wells 6 & 7 Control Panel	MDS 9810	Discontinued	Replace
Well 9		Well 8 Control Panel	MDS 9810	Discontinued	Replace

Table 3 – SCADA Assessment Table

System	Panel	Description	Software	LifeCycle	Recommendation
WTP	LCP-1	Original Filter Control Panel	Aveva Wonderware	Software and OS Out of date	Replace or upgrade
WTP	LCP-A	New Filter Control Panel	Aveva Wonderware	Software and OS Out of date	Replace or upgrade

3 Recommendations

3.1 Original Filter System Control Panel PLC (LCP-1)

- Control Panel along with Back panel to remain. Back panel needs minor modifications.
- Replace SLC PLC and Remote Rack with 1769-L37ERM Controller. The L37ERM will support up to 30 IO modules with dual power supplies. This eliminates the need for two separate IO Racks.
- Replace Control Panel Light and Switch with LED roof mounted light and door switch. Remove existing light.
- Replace Control Panel 24 vdc power supplies and replace with Din-Rail mount fully enclosed power supplies.
- Replace Ethernet switch with Automation Direct 8 port unmanaged switch
- Replace Control Panel UPS
- Replace or Remove OIT. Allen Bradley Panelviews are obsolete.
- Replace Radio.
- Generate New Control Panel Drawings utilizing Autocad

- Program the new PLC, master PLC and SCADA.
- Retain existing functional descriptions.

3.2 New Filter System Control Panel PLC (LCP-A)

- Control Panel along with Back panel to remain. Back panel needs minor modifications.
- Replace SLC PLC and Remote Rack with 1769-L37ERM Controller. The L37ERM will support up to 30 IO modules with dual power supplies. This eliminates the need for two separate IO Racks.
- Replace Control Panel Light and Switch with LED roof mounted light and door switch, Remove existing light.
- Replace Control Panel 24 vdc power supplies and replace with Din-Rail mount fully enclosed power supplies.
- Replace Ethernet switch with Automation Direct 8 port unmanaged switch
- Replace Control Panel UPS
- Replace or Remove OIT. Allen Bradley Panelviews are obsolete.
- Generate New Control Panel Drawings utilizing Autocad
- Program the new PLC, master PLC and SCADA.
- Retain existing functional descriptions.

3.3 Well 9 (ASR Aquifer Storage & Recovery)

- Control Panel along with Back panel to remain. Back panel needs minor modifications.
- Replace SLC PLC and Remote Rack with 1769-L33ER Controller. The L33ER will support up to 16 IO modules with 1 power supply. This eliminates the need for two separate IO Racks.
- Replace Control Panel Light and Switch with LED roof mounted light and door switch, Remove existing light.
- Replace Control Panel 24 vdc power supplies and replace with Din-Rail mount fully enclosed power supplies.
- Replace Ethernet switch with Automation Direct 8 port unmanaged switch
- Replace Control Panel UPS
- Replace or Remove OIT. Allen Bradley Panelviews are obsolete.
- Replace Radio
- Program the new PLC, master PLC and SCADA.
- Retain existing functional descriptions.
- Generate New Control Panel Drawings utilizing Autocad

3.4 Well 6 & 7

- Recommend replacing the entire control panel.
- Replace MicroLogix PLC with 1769-L33ER Controller. The L33ER will support up to 16 IO modules with 1 power supply.
- New Control Panel Light and Switch with LED roof mounted light and door switch.
- New Control Panel 24 vdc power supplies and replace with Din-Rail mount fully enclosed power supplies.
- New Ethernet switch with Automation Direct 8 port unmanaged switch
- New Control Panel UPS
- New OIT. Allen Bradley PanelView plus 7.
- New Radio
- New Control Panel Drawings utilizing AutoCAD
- Program the new PLC, master PLC and SCADA.
- Retain existing functional descriptions.

3.5 West Tower & Well #5

- Recommend replacing the entire control panel.
- Replace MicroLogix PLC with 1769-L33ER Controller. The L33ER will support up to 16 IO modules with 1 power supply.
- New Control Panel Light and Switch with LED roof mounted light and door switch.
- New Control Panel 24 vdc power supplies and replace with Din-Rail mount fully enclosed power supplies.
- New Ethernet switch with Automation Direct 8 port unmanaged switch
- New Control Panel UPS
- New OIT. Allen Bradley PanelView plus 7.
- New Radio
- New Control Panel Drawings utilizing AutoCAD
- Program the new PLC, master PLC and SCADA.
- Retain existing functional descriptions.

3.6 East Tower

- Recommend replacing the entire control panel.
- Replace MicroLogix PLC with MicroLogix 1400 Controller.
- New Control Panel Light and Switch with LED roof mounted light and door switch.
- New Control Panel 24 vdc power supplies and replace with Din-Rail mount fully enclosed power supplies.
- New Ethernet switch with Automation Direct 8 port unmanaged switch
- New Control Panel UPS
- New OIT. Allen Bradley PanelView plus 7.
- New Radio
- New Control Panel Drawings utilizing AutoCAD

- Program the new PLC, master PLC and SCADA.
- Retain existing functional descriptions.

3.7 SCADA Software

- Replace two obsolete Personal Computers (PC's).
 - Configure the SCADA Software with redundancy capable of running entire system independently, or set the two computers up as hot standby.
 - Provide enhanced computers, or rack mounted SCADA servers if virtualization is desired.
- Provide capability of remote access for operations and technical support
 - Install VNC server on each SCADA server for remote control.
 - Install technology for secure remote access to the control network. Recommend using an eWon secure industrial router, or other technology such as a Fortinet router.
- Add large wall-mounted screen for system overview.
- Replace or upgrade existing Wonderware SCADA software.
 - Option to upgrade Wonderware: Upgrades can be expensive. The yearly maintenance fee for Wonderware may be relatively high. Wonderware graphics do not rescale cleanly to new screen sizes, so some redevelopment is necessary.
 - Option to install new SCADA software: Inductive Automation's Ignition SCADA Software (recommended). The initial cost is roughly equal to or less than the Wonderware upgrade. Yearly support/maintenance fees likely are lower than Wonderware. Package is well integrated with historical and reporting tools, and has an option for mobile-friendly screen development.

3.8 Telemetry

- Existing radios are obsolete unlicensed MDS 9810 900MHz spread spectrum radios.
- Replace with a new telemetry system
 - Option to stay with radios: Recommend 900 MHz unlicensed ethernet 4RF Aprisa SRi smart radios or MDS Orbiz. No monthly service fee. Recommend including an evaluation of the existing antenna and cable to identify reusable components.
 - Option to use cell technology such as CradlePoint cell modems. Advantage is simpler antenna solutions and remote support of sites. Disadvantage is cell coverage and monthly service fee per site.
 - Option to use cell-based WAN technology such as CradlePoint 5G or LET wireless WAN. Advantage is simpler antenna solutions and remote support of sites. Disadvantage is higher initial cost, requirement for cell coverage and monthly service fee per site.

4 Summary

4.1 Water System SCADA

Recommendation is to upgrade SCADA to the latest version of Wonderware or to replace it with Ignition. Replace the radios in the telemetry system with new radios or with cellular, upgrade all PLC's, and improve remote access for the operators.

The following Table summarizes the recommendations:

Table 4 – Summary

System	Panel	Description	Recommendation	Opinion of Costs
WTP	LCP-1	Original Filter Control Panel	Replace PLC, OI, Update components	\$90,000
WTP	LCP-A	New Filter Control Panel	Replace PLC, OI, Update components	\$72,000
Well 9		Well 9 Control Panel	Replace PLC, OI, Update components	\$42,000
Wells 6 & 7		Wells 6 & 7 Control Panel	Replace panel	\$48,000
West Tower & Well 5		Well 5 Control Panel	Replace panel	\$48,000
East Tower		East Tower Control Panel	Replace panel	\$48,000
SCADA Software		WTP SCADA software	Replace with SCADA Software and PCs	\$132,000
Telemetry		SCADA monitoring of remote sites	Replace radios or migrate to cell technology.	Included in control panel upgrade
Total				\$480,000

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Appendix A

Photos

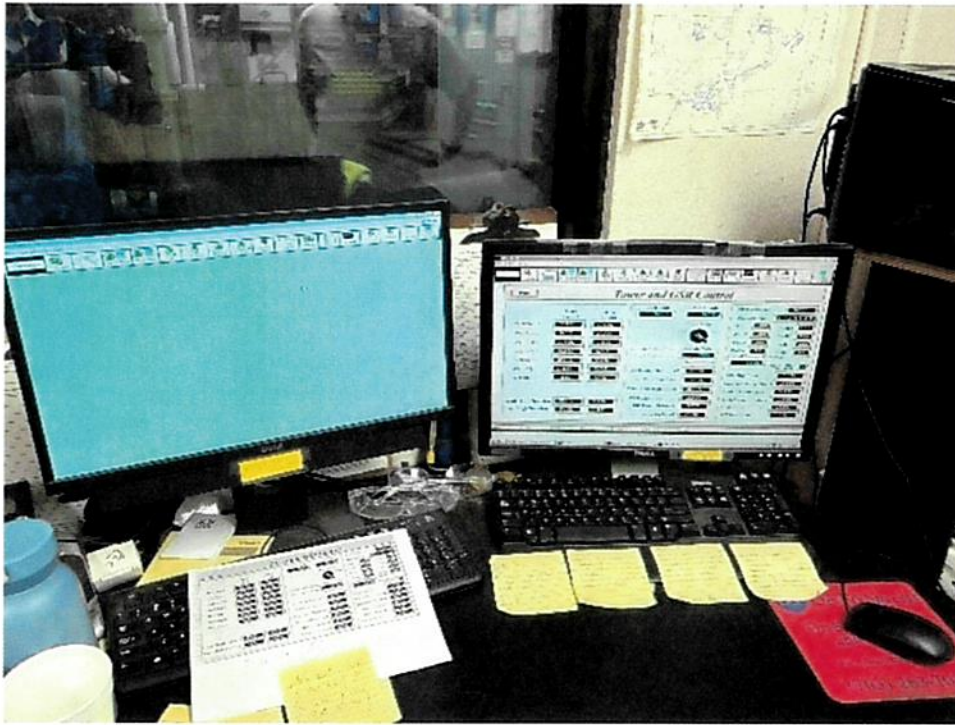


Photo 1 Water Plant SCADA and Computers
Computers and operating systems are obsolete. Terminal running new filter software not displaying correctly.

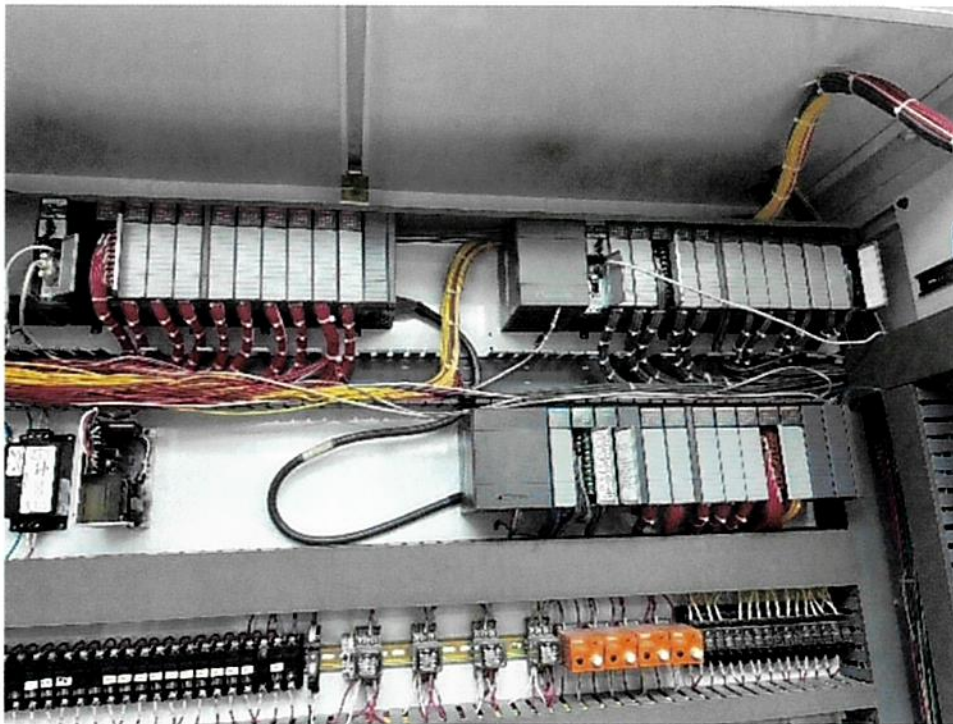


Photo 2 Water Plant LCP-1 Original Filter System
SLC 5/05 PLC is discontinued

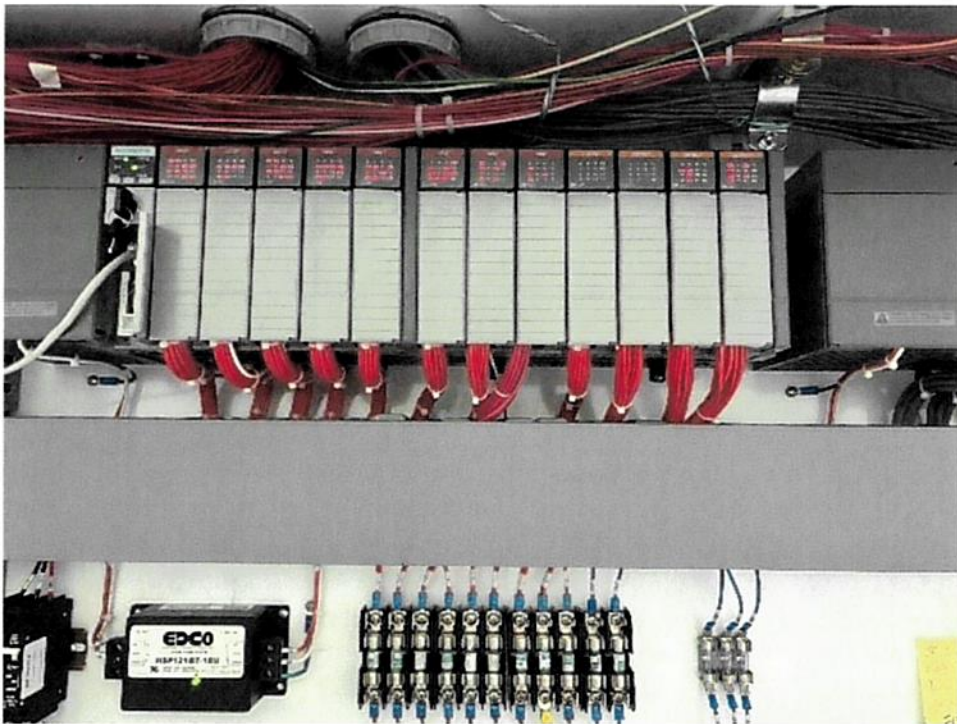


Photo 3 Water Plant LCP-A New Filter
SLC 5/05 PLC is discontinued



Photo 4 East Water Tower
PLC is Discontinued



Photo 5 West Water Tower & Well 5
PLC is Discontinued

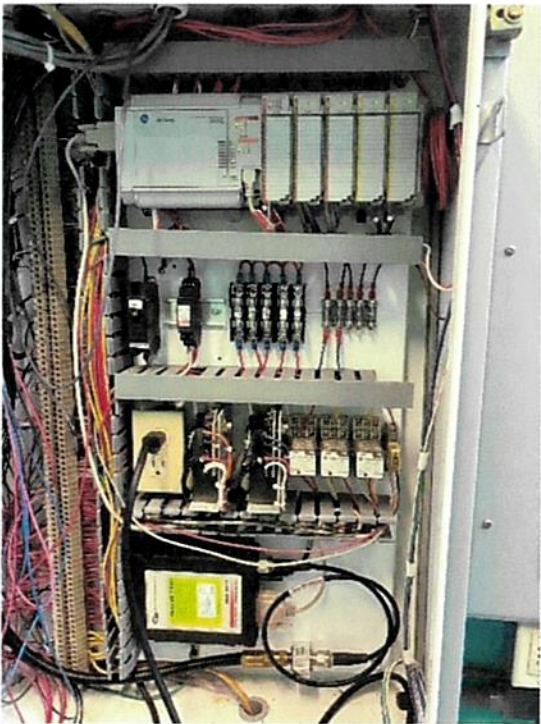


Photo 6 Wells 6 & 7
PLC is Discontinued

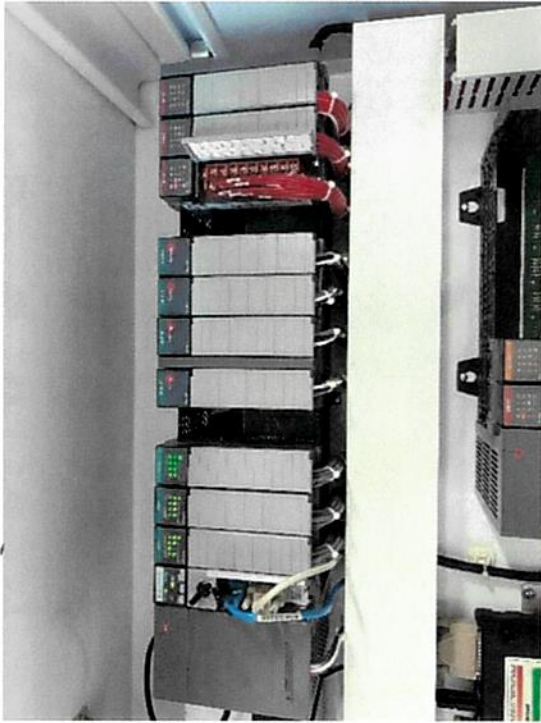


Photo 7 Well 9
PLC is Discontinued

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We're confident in our ability to balance these requirements.

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OTHER BUSINESS / CORRESPONDENCE

July 30, 2024

You are receiving this message because Minnesota's new Cybersecurity Incident Reporting law affects your organization.

Hello everyone,

As cyber-criminals continue to attack the public sector across the U.S., we are seeing a significant increase in the frequency and severity of incidents. This has raised serious concerns about protecting Minnesota government data, systems, and networks.

In response, the State of Minnesota is strengthening its cyber-resiliency with your help. In May 2024, Governor Tim Walz signed the Cybersecurity Incident Reporting into law. **This law requires Minnesota's public agencies (defined below) to report cybersecurity incidents to the state beginning Dec. 1, 2024.**

When cybersecurity incidents in Minnesota are reported to one source in a timely and consistent manner, it helps to elevate Minnesota's cybersecurity defenses.

Minnesota IT Services (MNIT) and the Bureau of Criminal Apprehension (BCA) will use the reported information to mitigate risk, watch for trends or commonalities, be better prepared to respond to emergencies, and improve the ability to share security information and communication.

Who the law impacts

Under the new law, those who are required to report cybersecurity incidents include:

- Public agencies of the state.
- Government contractor or vendor that provides goods or services to a public agency.
- Political subdivisions such as counties, cities, and townships.
- School districts, charter schools, intermediate districts, cooperative units, and public post-secondary education institutions.

What to expect

Our timeframe for action is short, and MNIT and the BCA are actively developing:

- A website with a secure, online reporting system.
 - We will seek feedback from entities as we develop the reporting process.
- Instructions for what and how to report incidents.
- A process for promptly sharing security information with appropriate entities.
- Additional communications with updates.

Timeline for rollout

The Cybersecurity Incident Reporting law, included in Laws of Minnesota 2023 Chapter 123, Article 17, Section 24 [16E.36], outlines key dates for action:

- **By Sept. 30, 2024:** MNIT and the BCA must establish a cyber incident reporting system that can accept timely, secure, and confidential cybersecurity incident notifications, as well as post instructions for submitting cybersecurity incident reports.
- **Beginning Dec. 1, 2024:** A public agency, or a government contractor or vendor that provides goods or services to a public agency, **must report** a cybersecurity incident that impacts the public agency within 72 hours of when they believe a cybersecurity incident has occurred. A private entity – individual, corporation, company, or association – can, but is not required to, submit a report of a cybersecurity incident that impacts a public agency.

After the website is established, we will share a link to the reporting system and instructions.

Next steps

Take time to understand what the new law means for your organization and for safeguarding Minnesota from cyber-threats.

Please watch for additional communications to come from MNIT. We will provide updates throughout the implementation timeline.

Your participation will strengthen the State of Minnesota's defenses and enhance our ability to prevent cyber incidents. Thank you for your cooperation.

Sincerely,

John Israel

Chief Information Security Officer

Minnesota IT Services | Partners in Performance

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