

# Municipal Facility - Colder Climate

Prepared: April 03, 2026

## qPCR results summary

Date sampled	Total bacteria (copies/ng)	Archaea (%)	Bacteria (%)
2025-06-17	376008	0.6	99.4
2024-01-18	307699	1.6	98.4

## Functional traits by genus (standard WW)

Date sampled	AOO	NOB	ANMX	Denite	SOB	SRB	PAO	GAO	NF Bulking	FOA	FIL	C1s
2026-03-19	0.0%	3.5%	0.0%	10.3%	3.8%	0.0%	9.5%	5.5%	0.0%	6.1%	11.0%	1.5%
2026-02-19	1.7%	3.8%	0.0%	8.0%	2.2%	0.0%	12.4%	2.0%	0.1%	2.4%	7.5%	1.3%
2026-01-15	0.5%	2.0%	0.0%	11.4%	3.8%	0.0%	8.4%	8.5%	0.0%	2.7%	9.7%	1.4%
2025-12-18	1.2%	3.7%	0.0%	9.2%	3.0%	0.0%	11.8%	12.1%	0.1%	2.0%	9.4%	0.9%
2025-11-20	1.3%	13.6%	0.0%	8.4%	3.0%	0.0%	9.9%	6.0%	0.0%	0.8%	4.9%	1.5%
2025-10-16	1.0%	3.3%	0.0%	11.7%	1.4%	0.0%	15.2%	8.2%	0.2%	1.0%	3.7%	0.8%
2025-09-25	0.7%	2.4%	0.0%	10.8%	2.6%	0.0%	12.8%	6.0%	0.2%	1.2%	2.3%	0.3%
2025-08-28	1.1%	5.0%	0.0%	7.3%	2.1%	0.0%	8.0%	10.2%	0.0%	0.7%	3.2%	0.6%
2025-07-29	3.1%	6.0%	0.0%	12.4%	4.9%	0.0%	8.6%	3.3%	0.5%	2.8%	8.4%	1.0%
2025-06-17	1.5%	1.8%	0.0%	12.0%	2.8%	0.0%	6.6%	0.9%	0.4%	2.4%	9.4%	0.7%
2025-05-22	0.4%	1.6%	0.0%	10.0%	2.8%	0.0%	5.9%	3.6%	0.0%	11.1%	15.8%	0.9%
2025-04-17	0.6%	3.3%	0.0%	13.8%	4.9%	0.0%	11.4%	2.5%	1.7%	11.4%	20.8%	1.1%
2025-03-27	0.7%	3.8%	0.0%	12.3%	5.8%	0.0%	6.7%	2.5%	0.7%	5.1%	14.6%	1.4%
2025-02-20	1.3%	2.5%	0.0%	11.9%	5.5%	0.0%	13.5%	2.9%	0.7%	2.9%	22.7%	1.4%
2025-01-16	0.6%	3.7%	0.0%	18.1%	5.8%	0.0%	11.0%	4.7%	0.1%	0.8%	14.4%	2.1%
2024-12-19	0.8%	5.9%	0.0%	19.1%	6.6%	0.0%	11.6%	7.0%	0.0%	0.6%	7.2%	2.1%
2024-11-21	2.2%	8.6%	0.0%	11.6%	4.3%	0.0%	13.8%	9.1%	0.1%	0.8%	7.5%	1.3%
2024-10-17	2.6%	8.8%	0.0%	10.9%	4.5%	0.0%	13.1%	6.3%	0.5%	1.8%	5.5%	1.3%
2024-09-19	2.7%	9.0%	0.0%	11.0%	3.7%	0.0%	14.3%	6.9%	0.4%	2.2%	7.9%	1.3%
2024-08-22	2.4%	14.6%	0.0%	10.8%	4.3%	0.0%	13.7%	13.2%	0.1%	1.8%	5.5%	1.5%
2024-07-25	1.8%	10.5%	0.0%	11.8%	4.3%	0.0%	11.3%	8.8%	0.0%	3.4%	7.7%	1.6%
2024-06-20	1.7%	10.1%	0.0%	12.2%	3.1%	0.0%	8.3%	17.8%	0.0%	1.4%	6.5%	1.8%
2024-05-16	1.4%	4.6%	0.0%	16.1%	5.2%	0.0%	11.2%	8.7%	0.0%	2.5%	13.1%	1.8%
2024-04-18	1.3%	5.2%	0.0%	14.8%	5.7%	0.0%	11.0%	3.6%	0.3%	5.2%	18.4%	1.6%
2024-03-14	0.6%	4.3%	0.0%	16.7%	7.1%	0.0%	9.6%	4.0%	0.7%	5.4%	16.1%	1.4%

Date sampled	AOO	NOB	ANMX	Denite	SOB	SRB	PAO	GAO	NF Bulking	FOA	FIL	C1s
2024-02-15	0.3%	1.7%	0.0%	14.3%	4.8%	0.0%	7.3%	3.3%	0.3%	12.6%	26.1%	1.3%
2024-01-18	0.2%	3.7%	0.0%	13.2%	5.4%	0.0%	7.0%	6.7%	0.1%	9.4%	21.3%	1.1%
2023-12-21	0.3%	3.2%	0.0%	14.0%	6.4%	0.0%	4.9%	9.1%	0.1%	2.1%	13.8%	1.2%
2023-11-16	0.5%	3.4%	0.0%	12.8%	7.5%	0.0%	6.0%	11.8%	0.1%	0.5%	8.8%	1.4%
2023-10-26	0.5%	11.4%	0.0%	10.1%	5.5%	0.0%	4.3%	5.3%	0.2%	0.0%	4.2%	1.3%
2023-09-21	0.7%	11.8%	0.0%	14.4%	6.5%	0.0%	5.7%	8.8%	0.4%	0.0%	4.4%	1.5%
2023-08-24	2.1%	7.5%	0.0%	12.7%	4.8%	0.0%	9.1%	4.2%	0.7%	0.0%	5.0%	1.1%
2023-07-20	1.0%	3.8%	0.0%	16.8%	7.1%	0.0%	10.4%	6.4%	0.3%	2.1%	7.8%	1.2%
2023-06-22	0.2%	1.3%	0.0%	14.9%	7.7%	0.0%	8.0%	2.2%	0.4%	3.1%	9.6%	1.8%
2023-05-25	0.3%	2.1%	0.0%	18.3%	6.4%	0.0%	8.5%	1.4%	1.1%	2.7%	12.2%	1.2%
2023-04-20	0.0%	0.3%	0.0%	17.6%	4.8%	0.0%	9.7%	0.9%	1.7%	5.5%	21.3%	1.5%
2023-03-23	0.0%	0.0%	0.0%	15.4%	5.0%	0.0%	10.3%	1.4%	0.0%	5.3%	22.8%	2.8%
2023-02-23	0.1%	0.2%	0.0%	15.5%	5.8%	0.0%	14.1%	1.1%	0.2%	4.6%	24.4%	1.4%
2023-01-26	0.9%	4.7%	0.0%	21.9%	5.6%	0.0%	10.3%	1.2%	1.4%	2.8%	13.6%	1.4%
2022-12-15	1.2%	8.3%	0.0%	16.3%	6.6%	0.0%	6.0%	2.8%	0.5%	3.0%	11.5%	1.2%
2022-11-17	1.3%	6.7%	0.0%	14.3%	7.0%	0.0%	7.7%	0.9%	0.4%	2.1%	9.5%	1.3%
2022-10-20	2.0%	5.7%	0.0%	15.1%	7.8%	0.0%	8.8%	0.6%	1.0%	1.3%	6.8%	1.2%
2022-09-15	1.6%	6.9%	0.0%	14.3%	5.6%	0.0%	15.5%	0.5%	0.9%	1.2%	6.5%	0.9%
2022-09-01	1.0%	5.8%	0.0%	13.3%	6.2%	0.0%	11.9%	1.0%	0.5%	1.2%	8.1%	1.3%
2022-07-14	1.2%	3.1%	0.0%	16.1%	8.8%	0.0%	6.7%	0.7%	0.4%	2.9%	9.1%	1.3%
2022-06-16	0.9%	4.8%	0.0%	16.1%	7.1%	0.0%	9.7%	0.8%	1.0%	4.7%	12.5%	1.6%
2022-06-09	0.5%	3.1%	0.0%	14.9%	6.8%	0.0%	10.3%	1.8%	0.6%	4.2%	14.3%	1.2%
2022-06-02	0.9%	3.7%	0.0%	14.9%	5.9%	0.0%	10.8%	0.7%	0.8%	4.0%	13.1%	1.3%
2022-05-26	0.3%	2.6%	0.0%	17.2%	7.3%	0.0%	8.3%	1.0%	0.9%	1.6%	11.8%	2.0%
2022-05-19	0.2%	3.4%	0.0%	17.3%	7.3%	0.0%	8.5%	1.4%	0.7%	1.4%	12.1%	2.1%
2022-04-21	0.7%	1.6%	0.0%	13.7%	3.6%	0.0%	16.6%	0.8%	1.2%	2.2%	12.5%	1.0%
2022-04-09	1.0%	1.9%	0.0%	16.1%	3.6%	0.0%	10.9%	0.3%	0.9%	2.0%	8.8%	1.2%
2022-03-17	1.4%	4.2%	0.0%	13.2%	3.6%	0.0%	13.6%	0.6%	0.4%	3.8%	12.1%	0.8%
2022-02-17	2.6%	5.7%	0.0%	14.0%	4.1%	0.0%	15.3%	0.5%	0.5%	1.6%	11.4%	1.6%
2022-01-20	2.3%	6.3%	0.0%	10.7%	3.8%	0.0%	16.9%	0.8%	0.3%	2.1%	8.9%	1.2%
2021-12-16	3.0%	8.8%	0.0%	11.3%	4.1%	0.0%	17.8%	1.4%	0.3%	1.2%	6.0%	1.8%
2021-11-24	2.0%	5.6%	0.0%	11.5%	4.2%	0.0%	18.9%	0.6%	0.5%	0.6%	7.3%	1.1%
2021-09-16	3.1%	5.1%	0.0%	15.6%	5.0%	0.0%	20.5%	0.7%	0.9%	0.4%	4.3%	1.1%
2021-06-17	1.9%	4.7%	0.0%	13.3%	4.6%	0.0%	17.3%	0.6%	1.1%	0.4%	5.6%	1.2%
2021-05-13	2.0%	4.9%	0.0%	10.8%	3.2%	0.0%	19.5%	0.5%	0.9%	0.3%	4.4%	0.8%
2021-04-15	1.4%	3.4%	0.0%	10.1%	3.2%	0.0%	14.4%	0.2%	0.7%	0.7%	5.6%	0.7%

Date sampled	AOO	NOB	ANMX	Denite	SOB	SRB	PAO	GAO	NF Bulking	FOA	FIL	C1s
2021-03-18	1.6%	3.2%	0.0%	12.2%	3.4%	0.0%	15.4%	0.3%	0.9%	1.1%	7.1%	0.7%
2021-02-18	1.9%	4.4%	0.0%	14.1%	5.6%	0.1%	19.2%	0.2%	0.7%	2.1%	9.5%	1.0%
2021-01-14	2.2%	3.1%	0.0%	14.4%	5.0%	0.0%	17.9%	0.1%	0.8%	1.3%	7.4%	0.7%
2020-10-26	1.5%	4.4%	0.0%	12.2%	5.2%	0.0%	18.0%	0.1%	1.0%	1.9%	8.1%	0.8%

## Samples

Date sampled	Report
2026-03-19	Standard WW
2026-02-19	Standard WW
2026-01-15	Standard WW
2025-12-18	Standard WW
2025-11-20	Standard WW
2025-10-16	Standard WW
2025-09-25	Standard WW
2025-08-28	Standard WW
2025-07-29	Standard WW
2025-06-17	Standard WW
2025-05-22	Standard WW
2025-04-17	Standard WW
2025-03-27	Standard WW
2025-02-20	Standard WW
2025-01-16	Standard WW
2024-12-19	Standard WW
2024-11-21	Standard WW
2024-10-17	Standard WW
2024-09-19	Standard WW
2024-08-22	Standard WW
2024-07-25	Standard WW
2024-06-20	Standard WW
2024-05-16	Standard WW
2024-04-18	Standard WW
2024-03-14	Standard WW
2024-02-15	Standard WW
2024-01-18	Standard WW
2023-12-21	Standard WW

<b>Date sampled</b>	<b>Report</b>
2023-11-16	Standard WW
2023-10-26	Standard WW
2023-09-21	Standard WW
2023-08-24	Standard WW
2023-07-20	Standard WW
2023-06-22	Standard WW
2023-05-25	Standard WW
2023-04-20	Standard WW
2023-03-23	Standard WW
2023-02-23	Standard WW
2023-01-26	Standard WW
2022-12-15	Standard WW
2022-11-17	Standard WW
2022-10-20	Standard WW
2022-09-15	Standard WW
2022-09-01	Standard WW
2022-07-14	Standard WW
2022-06-16	Standard WW
2022-06-09	Standard WW
2022-06-02	Standard WW
2022-05-26	Standard WW
2022-05-19	Standard WW
2022-04-21	Standard WW
2022-04-09	Standard WW
2022-03-17	Standard WW
2022-02-17	Standard WW
2022-01-20	Standard WW
2021-12-16	Standard WW
2021-11-24	Standard WW
2021-10-14	Standard WW
2021-09-16	Standard WW
2021-08-19	Standard WW
2021-07-08	Standard WW
2021-06-17	Standard WW
2021-05-13	Standard WW
2021-04-15	Standard WW

<b>Date sampled</b>	<b>Report</b>
2021-03-18	Standard WW
2021-02-18	Standard WW
2021-01-14	Standard WW
2020-10-26	Standard WW