

1 NEWTON LANDFILL SAMPLING INFORMATION

In accordance with the Newton Landfill Certificate of Approval (6802-7HUNBQ), leachate is collected and discharged to the City of Cambridge Wastewater Collection System and transported for treatment at the Region of Waterloo Galt Wastewater Treatment Plant.

Sampling takes place in Manhole SM20467 prior to discharge to the sanitary sewer to determine and document the chemical characterization of the leachate generated and is performed quarterly as per the City's Operation & Maintenance Plan for the site. Samples are collected and analyzed by the Region of Waterloo Environmental Enforcement and Laboratory Services (EELS) staff under the Old Galt Landfill Sampling Agreement. Reports are shared with the City of Cambridge by EELS and cover a full range of organics and inorganics. Results are then compared with the Region of Waterloo Sewer By-Law Maximum Available Concentrations (MAC's) and aim to be below the listed MAC's.

2 NEWTON LANDFILL SAMPLING LOCATION



CITY OF CAMBRIDGE – WASTEWATER COLLECTION

2024 NEWTON LANDFILL SAMPLING REPORT

Approved by: Director of Environmental Services

3 QUARTERLY SAMPLING RESULTS & YEARLY AVERAGES

Timeframe	Alkalinity as CaCO ₃ (mg/l) MAC (---)	Arsenic (mg/l) MAC (1.00)	Barium (mg/l) MAC (---)	Boron (mg/l) MAC (---)	Calcium (mg/l) MAC (---)	Cadmium (mg/l) MAC (0.50)
2019 Q1	472	<0.0100	0.343	0.136	191	<0.0100
2019 Q2	622	0.2560	4.780	0.165	264	<0.0100
2019 Q3	627	0.3140	14.900	0.183	376	<0.0100
2019 Q4	414	<0.0100	0.310	0.353	184	<0.0100
2019	534	<0.1480	5.083	0.209	254	<0.0100
2020 Q1	446	<0.0100	0.310	0.129	186	<0.0100
2020 Q2	493	<0.0100	0.311	0.150	186	<0.0100
2020 Q3	422	<0.0100	0.305	0.135	183	<0.0100
2020 Q4	452	0.0135	0.415	0.136	193	<0.0100
2020	453	<0.0109	0.335	0.138	187	<0.0100
2021 Q1	523	0.0589	1.140	0.146	196	<0.0100
2021 Q2	465	<0.0100	0.375	0.143	173	<0.0100
2021 Q3	356	<0.0100	0.339	0.120	175	<0.0100
2021 Q4	441	<0.0100	0.342	0.108	172	<0.0100
2021	446	<0.0222	0.549	0.129	179	<0.0100
2022 Q1	464	<0.0100	0.325	0.168	176	<0.0100
2022 Q2	446	<0.0100	0.339	0.159	180	<0.0100
2022 Q3	439	<0.0100	0.317	0.150	169	<0.0100
2022 Q4	399	<0.0100	0.383	0.221	170	<0.0100
2022	437	<0.0100	0.341	0.175	174	<0.0100
2023 Q1	467	0.0205	0.498	0.147	180	<0.0100
2023 Q2	465	<0.0100	0.321	0.166	173	<0.0100
2023 Q3	464	<0.0100	0.349	0.182	180	<0.0100
2023 Q4	486	<0.0100	0.318	0.156	176	<0.0100
2023	471	<0.0126	0.372	0.163	177	<0.0100
2024 Q1	473	<0.0100	0.309	0.167	183	<0.0100
2024 Q2	503	<0.0100	0.334	0.174	182	<0.0100
2024 Q3	468	<0.0100	0.318	0.170	182	<0.0100
2024 Q4	478	<0.0100	0.317	0.176	182	<0.0100
2024	481	<0.0100	0.320	0.172	182	<0.0100

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Timeframe	Chloride (mg/l) MAC (1500)	Conductivity (µmhos/cm) MAC (---)	Cobalt (mg/l) MAC (5.00)	Chromium (mg/l) MAC (2.80)	Copper (mg/l) MAC (2.00)	Iron (mg/l) MAC (50.0)
2019 Q1	258	1680	<0.0100	<0.0100	<0.0100	17.2
2019 Q2	269	1690	0.0169	<0.0100	<0.0100	1170.0
2019 Q3	246	1660	0.0466	0.0221	0.0270	2980.0
2019 Q4	267	1700	<0.0100	<0.0100	<0.0100	10.1
2019	260	1683	<0.0209	<0.0130	<0.0143	1044.3
2020 Q1	237	1660	<0.0100	<0.0100	<0.0100	12.4
2020 Q2	253	1640	<0.0100	<0.0100	<0.0100	12.2
2020 Q3	276	1660	<0.0100	<0.0100	<0.0100	11.6
2020 Q4	240	1670	<0.0100	<0.0100	<0.0100	47.8
2020	252	1658	<0.0100	<0.0100	<0.0100	21.0
2021 Q1	272	1730	<0.0100	<0.0100	<0.0100	252.0
2021 Q2	318	1880	<0.0100	<0.0100	<0.0100	29.9
2021 Q3	324	1900	<0.0100	<0.0100	<0.0100	8.6
2021 Q4	303	1720	<0.0100	<0.0100	<0.0100	19.3
2021	304	1808	<0.0100	<0.0100	<0.0100	77.5
2022 Q1	291	1760	<0.0100	<0.0100	<0.0100	12.5
2022 Q2	292	1720	<0.0100	<0.0100	<0.0100	18.2
2022 Q3	305	1840	<0.0100	<0.0100	<0.0100	10.0
2022 Q4	339	1800	<0.0100	<0.0100	<0.0100	35.6
2022	307	1780	<0.0100	<0.0100	<0.0100	19.1
2023 Q1	324	1840	<0.0100	<0.0100	<0.0100	85.5
2023 Q2	292	1840	<0.0100	<0.0100	<0.0100	13.4
2023 Q3	317	1820	<0.0100	<0.0100	<0.0100	16.6
2023 Q4	319	1870	<0.0100	<0.0100	<0.0100	12.2
2023	313	1843	<0.0100	<0.0100	<0.0100	31.9
2024 Q1	308	1790	<0.0100	<0.0100	<0.0100	10.6
2024 Q2	292	1810	<0.0100	<0.0100	<0.0100	13.9
2024 Q3	311	1820	<0.0100	<0.0100	<0.0100	11.6
2024 Q4	317	1790	<0.0100	<0.0100	<0.0100	10.6
2024	307	1803	<0.0100	<0.0100	<0.0100	11.7

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Timeframe	Magnesium (mg/l) MAC (---)	Hardness as CaCO ₃ (mg/l) MAC (---)	Potassium (mg/l) MAC (---)	Manganese (mg/l) MAC (5.00)	Molybdenum (mg/l) MAC (5.00)	Sodium (mg/l) MAC (---)
2019 Q1	47.6	673	5.97	0.625	<0.0100	83.3
2019 Q2	50.4	867	8.18	1.040	<0.0100	85.8
2019 Q3	45.2	1120	5.74	1.890	<0.0100	70.1
2019 Q4	47.5	655	5.79	0.671	<0.0100	87.7
2019	47.7	829	6.42	1.057	<0.0100	81.7
2020 Q1	47.0	-	6.11	0.588	<0.0100	83.9
2020 Q2	47.6	659	7.09	0.593	<0.0100	88.1
2020 Q3	48.4	657	5.67	0.581	<0.0100	94.7
2020 Q4	49.4	686	8.10	0.625	<0.0100	101.0
2020	48.1	667*	6.74	0.597	<0.0100	91.9
2021 Q1	45.5	676	5.81	0.668	<0.0100	96.3
2021 Q2	44.0	614	5.36	0.562	<0.0100	98.9
2021 Q3	49.3	639	5.68	0.621	<0.0100	121.0
2021 Q4	43.1	608	5.14	0.523	<0.0100	103.0
2021	45.5	634	5.50	0.594	<0.0100	104.8
2022 Q1	45.2	626	5.89	0.587	<0.0100	109.0
2022 Q2	45.1	636	6.09	0.590	<0.0100	108.0
2022 Q3	43.8	603	5.27	0.551	<0.0100	112.0
2022 Q4	44.6	609	5.40	0.556	<0.0100	120.0
2022	44.7	619	5.66	0.571	<0.0100	112.3
2023 Q1	45.3	637	6.03	0.615	<0.0100	119.0
2023 Q2	42.3	605	6.25	0.615	<0.0100	110.0
2023 Q3	46.2	641	6.95	0.581	<0.0100	124.0
2023 Q4	46.1	629	6.50	0.584	<0.0100	124.0
2023	45.0	628	6.43	0.599	<0.0100	119.3
2024 Q1	45.4	644	8.91	0.576	<0.0100	122.0
2024 Q2	45.6	643	8.71	0.606	<0.0100	117.0
2024 Q3	46.5	645	5.81	0.551	<0.0100	116.0
2024 Q4	47.2	648	9.26	0.638	<0.0100	124.0
2024	46.2	645	8.17	0.593	<0.0100	120.0

* No Hardness (as CaCO₃) sample recorded for 2020 Q1, average based off of Q2-Q4

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Timeframe	Nickel (mg/l) MAC (2.00)	Nitrate-N (mg/l) MAC (---)	Nitrite-N (mg/l) MAC (---)	Lead (mg/l) MAC (1.00)	Selenium (mg/l) MAC (1.00)	Sulphate (mg/l) MAC (1500)
2019 Q1	<0.0100	1.050	<0.010	<0.0100	<0.0100	38.9
2019 Q2	<0.0100	0.605	0.023	<0.0100	<0.0100	37.0
2019 Q3	0.0119	0.317	0.054	<0.0100	<0.0100	38.5
2019 Q4	<0.0100	0.144	0.010	<0.0100	<0.0100	40.0
2019	<0.0105	0.529	<0.024	<0.0100	<0.0100	38.6
2020 Q1	<0.0100	0.938	0.010	<0.0100	<0.0100	37.5
2020 Q2	<0.0100	0.820	<0.010	<0.0100	<0.0100	32.3
2020 Q3	<0.0100	0.840	0.011	<0.0100	<0.0100	35.1
2020 Q4	<0.0100	0.767	<0.010	<0.0100	<0.0100	35.8
2020	<0.0100	0.841	<0.010	<0.0100	<0.0100	35.2
2021 Q1	<0.0100	0.977	0.024	<0.0100	<0.0100	39.2
2021 Q2	<0.0100	0.994	0.010	<0.0100	<0.0100	37.7
2021 Q3	<0.0100	0.987	<0.010	<0.0100	<0.0100	40.4
2021 Q4	<0.0100	0.811	<0.010	<0.0100	<0.0100	37.7
2021	<0.0100	0.942	<0.014	<0.0100	<0.0100	38.8
2022 Q1	<0.0100	0.676	0.012	<0.0100	<0.0100	34.8
2022 Q2	<0.0100	0.662	<0.010	<0.0100	<0.0100	32.0
2022 Q3	<0.0100	0.503	<0.010	<0.0100	<0.0100	36.1
2022 Q4	<0.0100	0.615	<0.010	<0.0100	<0.0100	37.5
2022	<0.0100	0.614	<0.010	<0.0100	<0.0100	35.1
2023 Q1	<0.0100	0.493	<0.100	<0.0100	<0.0100	37.4
2023 Q2	<0.0100	0.100	<0.0100	<0.0100	<0.0100	36.2
2023 Q3	<0.0100	0.267	0.012	<0.0100	<0.0100	35.8
2023 Q4	<0.0100	0.593	0.011	<0.0100	<0.0100	35.3
2023	<0.0100	0.363	<0.033	<0.0100	<0.0100	36.2
2024 Q1	<0.0100	0.654	0.018	<0.0100	<0.0100	36.9
2024 Q2	<0.0100	0.587	<0.010	<0.0100	<0.0100	33.9
2024 Q3	<0.0100	0.624	0.012	<0.0100	<0.0100	34.1
2024 Q4	<0.0100	0.563	<0.010	<0.0100	<0.0100	34.5
2024	<0.0100	0.607	<0.013	<0.0100	<0.0100	34.9

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Timeframe	(meta+para) -Xylene (µg/l) MAC (---)	1,1,1,2- Tetrachloroethane (µg/l) MAC (---)	1,1,2,2- Tetrachloroethane (µg/l) MAC (1400)	1,1,1- Trichloroethane (µg/l) MAC (---)	1,1,2- Trichloroethane (µg/l) MAC (---)
2019 Q1	<2.10	<1.05	<1.05	<1.05	<1.05
2019 Q2	<2.10	<1.05	<1.05	<1.05	<1.05
2019 Q3	<2.10	<1.05	<1.05	<1.05	<1.05
2019 Q4	<2.10	<1.05	<1.05	<1.05	<1.05
2019	<2.10	<1.05	<1.05	<1.05	<1.05
2020 Q1	<2.10	<1.05	<1.05	<1.05	<1.05
2020 Q2	3.15	<1.05	<1.05	<1.05	<1.05
2020 Q3	1.78	<0.50	<0.50	<0.50	<0.50
2020 Q4	<2.10	<1.05	<1.05	<1.05	<1.05
2020	<2.28	<0.91	<0.91	<0.91	<0.91
2021 Q1	<4.20	<2.10	<2.10	<2.10	<2.10
2021 Q2	<2.10	<1.05	<1.05	<1.05	<1.05
2021 Q3	<2.10	<1.05	<1.05	<1.05	<1.05
2021 Q4	<2.10	<1.05	<1.05	<1.05	<1.05
2021	<2.63	<1.31	<1.31	<1.31	<1.31
2022 Q1	<2.10	<1.05	<1.05	<1.05	<1.05
2022 Q2	<2.10	<1.05	<1.05	<1.05	<1.05
2022 Q3	<2.10	<1.05	<1.05	<1.05	<1.05
2022 Q4	<2.10	<1.05	<1.05	<1.05	<1.05
2022	<2.10	<1.05	<1.05	<1.05	<1.05
2023 Q1	<2.10	<1.05	<1.05	<1.05	<1.05
2023 Q2	<2.10	<1.05	<1.05	<1.05	<1.05
2023 Q3	2.16	<1.05	<1.05	<1.05	<1.05
2023 Q4	<1.00	<0.50	<0.50	<0.50	<0.50
2023	<1.84	<0.91	<0.91	<0.91	<0.91
2024 Q1	<2.10	<1.05	<1.05	<1.05	<1.05
2024 Q2	<1.00	<0.50	<0.50	<0.50	<0.50
2024 Q3	<1.00	<0.50	<0.50	<0.50	<0.50
2024 Q4	<1.00	<0.50	<0.50	<0.50	<0.50
2024	<1.28	<0.64	<0.64	<0.64	<0.64

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Timeframe	1,1-Dichloroethane (µg/l) MAC (---)	1,1-Dichloroethylene (µg/l) MAC (---)	1,2-Dibromoethane (µg/l) MAC (---)	1,2-Dichlorobenzene (µg/l) MAC (50.00)	1,2-Dichloroethane (µg/l) MAC (---)
2019 Q1	1.30	<1.05	<1.05	<1.05	<1.05
2019 Q2	1.07	<1.05	<1.05	<1.05	<1.05
2019 Q3	1.64	<1.05	<1.05	<1.05	<1.05
2019 Q4	<1.05	<1.05	<1.05	<1.05	<1.05
2019	<1.27	<1.05	<1.05	<1.05	<1.05
2020 Q1	1.07	<1.05	<1.05	<1.05	<1.05
2020 Q2	<1.05	<1.05	<1.05	<1.05	<1.05
2020 Q3	1.15	<0.50	<0.50	<0.50	<0.50
2020 Q4	1.05	<1.05	<1.05	<1.05	<1.05
2020	<1.08	<0.91	<0.91	<0.91	<0.91
2021 Q1	<2.10	<2.10	<2.10	<2.10	<2.10
2021 Q2	<1.05	<1.05	<1.05	<1.05	<1.05
2021 Q3	<1.05	<1.05	<1.05	<1.05	<1.05
2021 Q4	<1.05	<1.05	<1.05	<1.05	<1.05
2021	<1.31	<1.31	<1.31	<1.31	<1.31
2022 Q1	<1.05	<1.05	<1.05	<1.05	<1.05
2022 Q2	<1.05	<1.05	<1.05	<1.05	<1.05
2022 Q3	<1.05	<1.05	<1.05	<1.05	<1.05
2022 Q4	1.31	<1.05	<1.05	<1.05	<1.05
2022	<1.115	<1.05	<1.05	<1.05	<1.05
2023 Q1	<1.05	<1.05	<1.05	<1.05	<1.05
2023 Q2	<1.05	<1.05	<1.05	<1.05	<1.05
2023 Q3	<1.05	<1.05	<1.05	<1.05	<1.05
2023 Q4	<0.50	<0.50	<0.50	<0.50	<0.50
2023	<0.91	<0.91	<0.91	<0.91	<0.91
2024 Q1	<1.05	<1.05	<1.05	<1.05	<1.05
2024 Q2	0.55	<0.50	<0.50	0.56	<0.50
2024 Q3	<0.50	<0.50	<0.50	<0.50	<0.50
2024 Q4	0.59	<0.50	<0.50	<0.50	<0.50
2024	<0.68	<0.64	<0.64	<0.65	<0.64

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Timeframe	1,2-Dichloropropane (µg/l) MAC (---)	1,3-Dichlorobenzene (µg/l) MAC (---)	1,4-Dichlorobenzene (µg/l) MAC (80.00)	2-Chloroethylvinyl ether (µg/l) MAC (---)	2-Hexanone (µg/l) MAC (---)
2019 Q1	<1.05	<1.05	1.22	<10.5	<10.5
2019 Q2	<1.05	<1.05	1.32	<10.5	<10.5
2019 Q3	<1.05	<1.05	<1.05	<10.5	<10.5
2019 Q4	<1.05	<1.05	1.24	<10.5	<10.5
2019	<1.05	<1.05	<1.21	<10.5	<10.5
2020 Q1	<1.05	<1.05	1.32	<10.5	<10.5
2020 Q2	<1.05	<1.05	1.53	<10.5	<10.5
2020 Q3	<0.50	<0.50	1.41	<5.0	<5.0
2020 Q4	<1.05	<1.05	1.28	<10.5	<10.5
2020	<0.91	<0.91	1.39	<9.1	<9.1
2021 Q1	<2.10	<2.10	<2.10	<21.0	<21.0
2021 Q2	<1.05	<1.05	1.25	<10.5	<10.5
2021 Q3	<1.05	<1.05	<1.05	<10.5	<10.5
2021 Q4	<1.05	<1.05	<1.05	<10.5	<10.5
2021	<1.31	<1.31	<1.36	<13.1	<13.1
2022 Q1	<1.05	<1.05	1.31	<10.5	<10.5
2022 Q2	<1.05	<1.05	1.39	<10.5	<10.5
2022 Q3	<1.05	<1.05	1.08	<10.5	<10.5
2022 Q4	<1.05	<1.05	<1.05	<10.5	<10.5
2022	<1.05	<1.05	<1.21	<10.5	<10.5
2023 Q1	<1.05	<1.05	1.32	<10.5	<10.5
2023 Q2	<1.05	1.44	1.42	<10.5	<10.5
2023 Q3	<1.05	<1.05	1.52	<10.5	<10.5
2023 Q4	<0.50	<0.50	1.36	<5.0	<5.0
2023	<0.91	<1.01	1.41	<9.1	<9.1
2024 Q1	<1.05	<1.05	1.62	<10.5	<10.5
2024 Q2	<0.50	<0.50	1.60	<5.0	<5.0
2024 Q3	<0.50	<0.50	1.29	<5.0	<5.0
2024 Q4	<0.50	<0.50	1.41	<5.0	<5.0
2024	<0.64	<0.64	1.48	<6.4	<6.4

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Timeframe	Acetone (µg/l) MAC (---)	Acrolein (µg/l) MAC (---)	Acrylonitrile (µg/l) MAC (---)	Benzene (µg/l) MAC (10.00)	Bromodichloromethane (µg/l) MAC (---)	Bromoform (µg/l) MAC (---)
2019 Q1	<10.5	<10.5	<10.5	1.79	<1.05	<1.05
2019 Q2	<10.5	<10.5	<10.5	1.55	<1.05	<1.05
2019 Q3	<10.5	<10.5	<10.5	1.64	<1.05	<1.05
2019 Q4	<10.5	<10.5	<10.5	1.20	<1.05	<1.05
2019	<10.5	<10.5	<10.5	1.55	<1.05	<1.05
2020 Q1	<10.5	<10.5	<10.5	1.74	<1.05	<1.05
2020 Q2	<10.5	<10.5	<10.5	2.02	<1.05	<1.05
2020 Q3	<5.0	<5.0	<5.0	1.90	<0.50	<0.50
2020 Q4	<10.5	<10.5	<10.5	0.97	<1.05	<1.05
2020	<9.1	<9.1	<9.1	1.66	<0.91	<0.91
2021 Q1	<21.0	<21.0	<21.0	<0.42	<2.10	<2.10
2021 Q2	<10.5	<10.5	<10.5	1.35	<1.05	<1.05
2021 Q3	<10.5	<10.5	<10.5	0.56	<1.05	<1.05
2021 Q4	<10.5	<10.5	<10.5	0.90	<1.05	<1.05
2021	<13.1	<13.1	<13.1	<0.81	<1.31	<1.31
2022 Q1	<10.5	<10.5	<10.5	1.28	<1.05	<1.05
2022 Q2	<10.5	<10.5	<10.5	1.49	<1.05	<1.05
2022 Q3	<10.5	<10.5	<10.5	1.01	<1.05	<1.05
2022 Q4	<10.5	<10.5	<10.5	0.71	<1.05	<1.05
2022	<10.5	<10.5	<10.5	1.12	<1.05	<1.05
2023 Q1	<10.5	<10.5	<10.5	0.89	<1.05	<1.05
2023 Q2	<10.5	<10.5	<10.5	1.21	<1.05	<1.05
2023 Q3	<10.5	<10.5	<10.5	1.06	<1.05	<1.05
2023 Q4	<5.0	<5.0	<5.0	0.80	<0.50	<0.50
2023	<9.1	<9.1	<9.1	0.99	<0.91	<0.91
2024 Q1	<10.5	<10.5	<10.5	0.75	<1.05	<1.05
2024 Q2	<5.0	<5.0	<5.0	1.40	<0.50	<0.50
2024 Q3	<5.0	<5.0	<5.0	0.89	<0.50	<0.50
2024 Q4	<5.0	<5.0	<5.0	0.94	<0.50	<0.50
2024	<6.4	<6.4	<6.4	1.00	<0.64	<0.64

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Timeframe	Bromomethane (µg/l) MAC (---)	Carbon Disulphide (µg/l) MAC (---)	Carbon Tetrachloride (µg/l) MAC (---)	Chlorobenzene (µg/l) MAC (---)	Chloroethane (µg/l) MAC (---)
2019 Q1	<1.05	<10.5	<0.21	2.88	4.52
2019 Q2	<1.05	<10.5	<0.21	2.69	4.62
2019 Q3	<1.05	<10.5	<0.21	3.86	6.53
2019 Q4	<1.05	<10.5	<0.21	3.28	3.05
2019	<1.05	<10.5	<0.21	3.18	4.68
2020 Q1	<1.05	<10.5	<0.21	2.37	4.98
2020 Q2	<1.05	<10.5	<0.21	3.05	3.76
2020 Q3	<0.50	<5.0	<0.10	2.29	5.50
2020 Q4	<1.05	<10.5	<0.21	2.02	4.53
2020	<0.91	<9.1	<0.18	2.43	4.69
2021 Q1	<2.10	<21.0	<0.42	<2.10	<2.10
2021 Q2	<1.05	<10.5	<0.21	2.36	3.45
2021 Q3	<1.05	<10.5	<0.21	2.25	4.68
2021 Q4	<1.05	<10.5	<0.21	1.53	3.65
2021	<1.31	<13.1	<0.26	<2.06	<3.47
2022 Q1	<1.05	<10.5	<0.21	2.23	4.65
2022 Q2	<1.05	<10.5	<0.21	2.57	4.99
2022 Q3	<1.05	<10.5	<0.21	1.97	3.78
2022 Q4	<1.05	<10.5	<0.21	1.18	2.73
2022	<1.05	<10.5	<0.21	1.99	4.04
2023 Q1	<1.05	<10.5	<0.21	1.76	2.55
2023 Q2	<1.05	<10.5	<0.21	1.53	2.80
2023 Q3	<1.05	<10.5	<0.21	2.93	2.26
2023 Q4	<0.50	<5.0	<0.10	1.76	2.79
2023	<0.91	<9.1	<0.18	1.99	2.60
2024 Q1	<1.05	<10.5	<0.21	1.83	1.81
2024 Q2	<0.50	<5.0	<0.10	2.30	4.78
2024 Q3	<0.50	<5.0	<0.10	2.01	2.70
2024 Q4	<0.50	<5.0	<0.10	2.15	3.37
2024	<0.64	<6.4	<0.13	2.07	3.17

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Timeframe	Chloroform (µg/l) MAC (40.00)	Chloromethane (µg/l) MAC (---)	Cis-1,2- dichloroethylene (µg/l) MAC (4000)	Cis-1,3- dichloropropylene (µg/l) MAC (---)	Dibromochloromethane (µg/l) MAC (---)
2019 Q1	<1.05	<1.05	<1.05	<1.05	<1.05
2019 Q2	<1.05	<1.05	<1.05	<1.05	<1.05
2019 Q3	<1.05	<1.05	<1.05	<1.05	<1.05
2019 Q4	<1.05	<1.05	<1.05	<1.05	<1.05
2019	<1.05	<1.05	<1.05	<1.05	<1.05
2020 Q1	<1.05	<1.05	<1.05	<1.05	<1.05
2020 Q2	<1.05	<1.05	<1.05	<1.05	<1.05
2020 Q3	<0.50	<0.50	<0.50	<0.50	<0.50
2020 Q4	<1.05	<1.05	<1.05	<1.05	<1.05
2020	<0.91	<0.91	<0.91	<0.91	<0.91
2021 Q1	<2.10	<2.10	<2.10	<2.10	<2.10
2021 Q2	<1.05	<1.05	<1.05	<1.05	<1.05
2021 Q3	<1.05	<1.05	<1.05	<1.05	<1.05
2021 Q4	<1.05	<1.05	<1.05	<1.05	<1.05
2021	<1.31	<1.31	<1.31	<1.31	<1.31
2022 Q1	<1.05	<1.05	<1.05	<1.05	<1.05
2022 Q2	<1.05	<1.05	<1.05	<1.05	<1.05
2022 Q3	<1.05	<1.05	<1.05	<1.05	<1.05
2022 Q4	<1.05	<1.05	<1.05	<1.05	<1.05
2022	<1.05	<1.05	<1.05	<1.05	<1.05
2023 Q1	<1.05	<1.05	<1.05	<1.05	<1.05
2023 Q2	<1.05	<1.05	<1.05	<1.05	<1.05
2023 Q3	<1.05	<1.05	<1.05	<1.05	<1.05
2023 Q4	<0.50	<0.50	<0.50	<0.50	<0.50
2023	<0.91	<0.91	<0.91	<0.91	<0.91
2024 Q1	<1.05	<1.05	<1.05	<1.05	<1.05
2024 Q2	<0.50	<0.50	<0.50	<0.50	<0.50
2024 Q3	<0.50	<0.50	<0.50	<0.50	<0.50
2024 Q4	<0.50	<0.50	<0.50	<0.50	<0.50
2024	<0.64	<0.64	<0.64	<0.64	<0.64

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Timeframe	Dichlorodifluoromethane (µg/l) MAC (---)	Dichloromethane (µg/l) MAC (2000)	Ethyl Benzene (µg/l) MAC (160)	Methyl Ethyl Ketone (µg/l) MAC (---)	Methyl Isobutyl Ketone (µg/l) MAC (---)
2019 Q1	<1.05	<2.10	<1.05	<10.5	<10.5
2019 Q2	<1.05	<2.10	<1.05	<10.5	<10.5
2019 Q3	<1.05	<2.10	<1.05	<10.5	<10.5
2019 Q4	<1.05	<2.10	<1.05	<10.5	<10.5
2019	<1.05	<2.10	<1.05	<10.5	<10.5
2020 Q1	<1.05	<2.10	<1.05	<10.5	<10.5
2020 Q2	<1.05	<2.10	<1.05	<10.5	<10.5
2020 Q3	<0.50	<1.00	<0.50	<5.0	<5.0
2020 Q4	<1.05	<2.10	<1.05	<10.5	<10.5
2020	<0.91	<1.83	<0.91	<9.1	<9.1
2021 Q1	<2.10	<4.20	<2.10	<21.0	<21.0
2021 Q2	<1.05	<2.10	<1.05	<10.5	<10.5
2021 Q3	<1.05	<2.10	<1.05	<10.5	<10.5
2021 Q4	<1.05	<2.10	<1.05	<10.5	<10.5
2021	<1.31	<2.63	<1.31	<13.1	<13.1
2022 Q1	<1.05	<2.10	<1.05	<10.5	<10.5
2022 Q2	<1.05	<2.10	<1.05	<10.5	<10.5
2022 Q3	<1.05	<2.10	<1.05	<10.5	<10.5
2022 Q4	<1.05	<2.10	<1.05	<10.5	<10.5
2022	<1.05	<2.10	<1.05	<10.5	<10.5
2023 Q1	<1.05	<2.10	<1.05	<10.5	<10.5
2023 Q2	<1.05	<2.10	<1.05	<10.5	<10.5
2023 Q3	<1.05	<2.10	<1.05	<10.5	<10.5
2023 Q4	<0.50	<1.00	<0.50	<5.0	<5.0
2023	<0.91	<1.83	<0.91	<9.1	<9.1
2024 Q1	<1.05	<2.10	<1.05	<10.5	<10.5
2024 Q2	<0.50	<1.00	<0.50	<5.0	<5.0
2024 Q3	<0.50	<1.00	<0.50	<5.0	<5.0
2024 Q4	<0.50	<1.00	<0.50	<5.0	<5.0
2024	<0.64	<1.30	<0.64	<6.4	<6.4

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Timeframe	Methyl tert-Butyl Ether (µg/l) MAC (---)	ortho-Xylene (µg/l) MAC (---)	Styrene (µg/l) MAC (---)	Tetrachloroethylene (µg/l) MAC (1000)	Toluene (µg/l) MAC (270)
2019 Q1	<2.10	<1.05	<0.21	<1.05	<1.05
2019 Q2	<2.10	<1.05	<0.21	<1.05	<1.05
2019 Q3	<2.10	<1.05	<0.21	<1.05	<1.05
2019 Q4	<2.10	<1.05	<0.21	<1.05	<1.05
2019	<2.10	<1.05	<0.21	<1.05	<1.05
2020 Q1	<2.10	<1.05	<0.21	<1.05	<1.05
2020 Q2	<2.10	<1.05	<0.21	<1.05	<1.05
2020 Q3	<1.00	<0.50	<0.10	<0.50	<0.50
2020 Q4	<2.10	<1.05	<0.21	<1.05	<1.05
2020	<1.83	<0.91	<0.18	<0.91	<0.91
2021 Q1	<4.20	<2.10	<0.42	<2.10	<2.10
2021 Q2	<2.10	<1.05	<0.21	<1.05	<1.05
2021 Q3	<2.10	<1.05	<0.21	<1.05	<1.05
2021 Q4	<2.10	<1.05	<0.21	<1.05	<1.05
2021	<2.63	<1.31	<0.26	<1.31	<1.31
2022 Q1	<2.10	<1.05	<0.21	<1.05	<1.05
2022 Q2	<2.10	<1.05	<0.21	<1.05	<1.05
2022 Q3	<2.10	<1.05	<0.21	<1.05	<1.05
2022 Q4	<2.10	<1.05	<0.21	<1.05	<1.05
2022	<2.10	<1.05	<0.21	<1.05	<1.05
2023 Q1	<2.10	<1.05	<0.21	<1.05	<1.05
2023 Q2	<2.10	<1.05	<0.21	<1.05	<1.05
2023 Q3	<2.10	<1.05	<0.21	<1.05	<1.05
2023 Q4	<1.00	<0.50	<0.10	<0.50	<0.50
2023	<1.83	<0.91	<0.18	<0.91	<0.91
2024 Q1	<2.10	<1.05	<0.21	<1.05	<1.05
2024 Q2	<1.00	<0.50	<0.10	<0.50	<0.50
2024 Q3	<1.00	<0.50	<0.10	<0.50	<0.50
2024 Q4	<1.00	<0.50	<0.10	<0.50	<0.50
2024	<1.30	<0.64	<0.13	<0.64	<0.64

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Timeframe	Trans-1,2- dichloroethylene (µg/l) MAC (---)	Trans-1,3- dichloropropylene (µg/l) MAC (---)	Trichloroethylene (µg/l) MAC (400)	Trichlorofluoromethane (µg/l) MAC (---)
2019 Q1	<1.05	<1.05	<1.05	<1.05
2019 Q2	<1.05	<1.05	<1.05	<1.05
2019 Q3	<1.05	<1.05	<1.05	<1.05
2019 Q4	<1.05	<1.05	<1.05	<1.05
2019	<1.05	<1.05	<1.05	<1.05
2020 Q1	<1.05	<1.05	<1.05	<1.05
2020 Q2	<1.05	<1.05	<1.05	<1.05
2020 Q3	<0.50	<0.50	<0.50	<0.50
2020 Q4	<1.05	<1.05	<1.05	<1.05
2020	<0.91	<0.91	<0.91	<0.91
2021 Q1	<2.10	<2.10	<2.10	<2.10
2021 Q2	<1.05	<1.05	<1.05	<1.05
2021 Q3	<1.05	<1.05	<1.05	<1.05
2021 Q4	<1.05	<1.05	<1.05	<1.05
2021	<1.31	<1.31	<1.31	<1.31
2022 Q1	<1.05	<1.05	<1.05	<1.05
2022 Q2	<1.05	<1.05	<1.05	<1.05
2022 Q3	<1.05	<1.05	<1.05	<1.05
2022 Q4	<1.05	<1.05	<1.05	<1.05
2022	<1.05	<1.05	<1.05	<1.05
2023 Q1	<1.05	<1.05	<1.05	<1.05
2023 Q2	<1.05	<1.05	<1.05	<1.05
2023 Q3	<1.05	<1.05	<1.05	<1.05
2023 Q4	<0.50	<0.50	<0.50	<0.50
2023	<0.91	<0.91	<0.91	<0.91
2024 Q1	<1.05	<1.05	<1.05	<1.05
2024 Q2	<0.50	<0.50	<0.50	<0.50
2024 Q3	<0.50	<0.50	<0.50	<0.50
2024 Q4	<0.50	<0.50	<0.50	<0.50
2024	<0.64	<0.64	<0.64	<0.64

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Timeframe	Vinyl Chloride (µg/l) MAC (---)	Xylenes, Total (µg/l) MAC (1400)	Zinc (µg/l) MAC (3000)
2019 Q1	<0.21	<3.15	0.0434
2019 Q2	<0.21	<3.15	0.1480
2019 Q3	<0.21	<3.15	0.3100
2019 Q4	<0.21	<3.15	<0.0100
2019	<0.21	<3.15	<0.1279
2020 Q1	<0.21	-	<0.0100
2020 Q2	<0.21	3.15	<0.0100
2020 Q3	<0.10	1.78	<0.0100
2020 Q4	<0.21	<3.15	0.0128
2020	<0.18	2.69*	<0.0107
2021 Q1	<0.42	<6.30	0.0237
2021 Q2	<0.21	<3.15	<0.0100
2021 Q3	<0.21	<3.15	0.0260
2021 Q4	<0.21	<3.15	<0.0100
2021	<0.26	3.94	<0.0174
2022 Q1	<0.21	<3.15	<0.0100
2022 Q2	<0.21	<3.15	0.0124
2022 Q3	<0.21	<3.15	<0.0100
2022 Q4	<0.21	<3.15	<0.0100
2022	<0.21	<3.15	<0.0106
2023 Q1	<0.21	<3.15	0.0141
2023 Q2	<0.21	<3.15	<0.0100
2023 Q3	<0.21	<3.15	<0.0100
2023 Q4	<0.10	<1.50	<0.0100
2023	<0.18	<2.74	<0.0110
2024 Q1	<0.21	<3.15	0.0135
2024 Q2	<0.10	<1.50	0.0125
2024 Q3	<0.10	<1.50	<0.0100
2024 Q4	<0.10	<1.50	<0.0100
2024	<0.13	<1.91	<0.0115

* No Xylenes, Total sample recorded for 2020 Q1, average based off of Q2-Q4