



Analytical Results Evaluation

Matrix: Water

				Client sample ID	Steinbach 1 - Raw pump station #2 Well#2	Steinbach 1 - Raw pump station #3 Well#4	Steinbach 2 - Treated pump station #2	Steinbach 2 - Treated pump station #3	Steinbach 3 - Distribution mid-point @ Lift #3	Steinbach 3 - Distribution mid-point @ Lift#6	----
Client sampling date / time					16-Jul-2025 09:05	16-Jul-2025 08:35	16-Jul-2025 10:55	16-Jul-2025 08:25	16-Jul-2025 11:05	16-Jul-2025 11:20	----
Sub-Matrix					Water	Water	Water	Water	Water	Water	----
Analyte	CAS Number	Method/Lab	Unit		WP2511247-001	WP2511247-002	WP2511247-003	WP2511247-004	WP2511247-005	WP2511247-006	----
					Result	Result	Result	Result	Result	Result	----
Field Tests											
Chlorine, free, field	7782-50-5	EF001/WP	mg/L		----	----	1.02	0.93	----	----	----
Chlorine, total, field	7782-50-5	EF001/WP	mg/L		----	----	1.17	1.36	----	----	----
Sample Preparation											
Dissolved carbon filtration location	----	EP358/WP	-		lab	lab	lab	lab	----	----	----
Physical Tests											
Absorbance, UV (@ 254nm)	----	E404/WP	AU/cm		0.0400	0.0500	0.0480	0.0390	----	----	----
Alkalinity, bicarbonate (as CaCO ₃)	----	E290/WP	mg/L		234	234	284	282	----	----	----
Alkalinity, carbonate (as CaCO₃)	----	E290/WP	mg/L		10.6	<1.0	<1.0	<1.0	----	----	----
Alkalinity, hydroxide (as CaCO ₃)	----	E290/WP	mg/L		<1.0	<1.0	<1.0	<1.0	----	----	----
Alkalinity, total (as CaCO₃)	----	E290/WP	mg/L		244	234	284	282	----	----	----
Colour, true	----	E329/WP	CU		<5.0	<5.0	<5.0	<5.0	----	----	----
Conductivity	----	E100/WP	µS/cm		552	555	555	586	----	----	----
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/WP	mg/L		165	223	236	225	----	----	----
Langelier index (@ 4°C)	----	EC105A/WP	-		0.660	0.378	0.428	0.173	----	----	----
Langelier index (@ 60°C)	----	EC105A/WP	-		1.42	1.14	1.19	0.940	----	----	----
pH	----	E108/WP	pH units		8.37	8.00	7.94	7.72	----	----	----
Solids, total dissolved [TDS]	----	E162-L/WP	mg/L		291	291	293	294	----	----	----
Turbidity	----	E121/WP	NTU		7.62	14.2	<0.10	<0.10	----	----	----
Transmittance, UV (@ 254nm)	----	E404/WP	% T/cm		91.2	89.1	89.5	91.4	----	----	----



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Sub-Matrix				Water	Water	Water	Water	Water	Water	----
Analyte	CAS Number	Method/Lab	Unit	WP2511247-001	WP2511247-002	WP2511247-003	WP2511247-004	WP2511247-005	WP2511247-006	----
				Result	Result	Result	Result	Result	Result	----
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WP	mg/L	0.622	0.641	0.0174	0.0078	----	----	----
Bromide	24959-67-9	E235.Br-L/WP	mg/L	0.061	0.048	0.014	0.018	----	----	----
Chloride	16887-00-6	E235.Cl-L/WP	mg/L	40.2	19.2	28.0	26.7	----	----	----
Fluoride	16984-48-8	E235.F/WP	mg/L	0.585	0.423	0.787	0.768	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/WP	mg/L	<0.0050	<0.0050	0.0119	0.0209	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2-L/WP	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/W P	mg/L	7.34	2.71	2.11	1.96	----	----	----
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/WP	mg/L	1.38	1.89	2.63	2.08	----	----	----
Carbon, total organic [TOC]	----	E355-L/WP	mg/L	2.23	2.19	2.80	2.54	----	----	----
Ion Balance										
Anion sum	----	EC101A/WP	meq/L	6.19	5.30	6.55	6.47	----	----	----
Cation sum (total)	----	EC101A/WP	meq/L	5.60	5.90	6.17	5.90	----	----	----
Ion balance (cations/anions)	----	EC101A/WP	%	90.5	111	94.2	91.2	----	----	----
Ion balance (APHA)	----	EC101A/WP	%	-5.00	5.36	-2.99	-4.61	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/WP	µg/L	0.44	0.83	0.52	0.55	0.34	0.92	----
Antimony, total	7440-36-0	E420/WP	µg/L	0.011	Not Detected	0.018	0.016	0.013	0.016	----
Arsenic, total	7440-38-2	E420/WP	µg/L	0.32	0.17	0.14	0.12	0.12	0.12	----



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Sub-Matrix				Water	Water	Water	Water	Water	Water	----
Analyte	CAS Number	Method/Lab	Unit	WP2511247-001	WP2511247-002	WP2511247-003	WP2511247-004	WP2511247-005	WP2511247-006	----
				Result	Result	Result	Result	Result	Result	----
Total Metals										
Barium, total	7440-39-3	E420/WP	µg/L	243	221	401	185	408	394	----
Beryllium, total	7440-41-7	E420/WP	µg/L	0.0065	0.0016	0.00032	0.0016	0.00033	0.0028	----
Bismuth, total	7440-69-9	E420/WP	µg/L	0.0022	Not Detected	0.0056	0.0025	0.00086	0.087	----
Boron, total	7440-42-8	E420/WP	µg/L	212	161	154	165	155	156	----
Cadmium, total	7440-43-9	E420/WP	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	----
Calcium, total	7440-70-2	E420/WP	µg/L	37700	47800	50700	47100	50000	49700	----
Cesium, total	7440-46-2	E420/WP	µg/L	0.021	0.0098	0.015	0.0079	0.014	0.013	----
Chromium, total	7440-47-3	E420/WP	µg/L	Not Detected	Not Detected	0.081	0.15	0.078	0.063	----
Cobalt, total	7440-48-4	E420/WP	µg/L	0.015	0.021	0.030	0.034	0.029	0.023	----
Copper, total	7440-50-8	E420/WP	µg/L	2.85	3.54	111	2.05	19.4	52.9	----
Iron, total	7439-89-6	E420/WP	µg/L	705	1010	25	38	25	44	----
Lead, total	7439-92-1	E420/WP	µg/L	0.0100	Not Detected	0.565	0.012	0.562	0.108	----
Lithium, total	7439-93-2	E420/WP	µg/L	22.7	16.2	17.6	17.0	18.0	18.0	----
Magnesium, total	7439-95-4	E420/WP	µg/L	17200	25100	26600	26100	26300	26200	----
Manganese, total	7439-96-5	E420/WP	µg/L	4.79	5.55	0.30	0.29	0.27	0.44	----
Molybdenum, total	7439-98-7	E420/WP	µg/L	1.97	1.07	1.12	1.08	1.02	1.05	----
Nickel, total	7440-02-0	E420/WP	µg/L	Not Detected	Not Detected	0.22	0.50	0.15	0.96	----
Phosphorus, total	7723-14-0	E420/WP	µg/L	36	23	443	378	427	438	----
Potassium, total	7440-09-7	E420/WP	µg/L	5130	4460	4510	4630	4440	4520	----



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				Result	Result	Result	Result	Result	Result	----
Total Metals										
Rubidium, total	7440-17-7	E420/WP	µg/L	3.98	3.19	3.25	3.28	3.02	3.20	----
Selenium, total	7782-49-2	E420/WP	µg/L	Not Detected	Not Detected	Not Detected	0.0098	0.0058	0.011	----
Silicon, total	7440-21-3	E420/WP	µg/L	4750	5720	6550	5830	6510	6540	----
Silver, total	7440-22-4	E420/WP	µg/L	0.0053	0.0042	0.0078	0.0029	0.0055	0.0034	----
Sodium, total	7440-23-5	E420/WP	µg/L	48300	28800	30700	29600	30500	30800	----
Strontium, total	7440-24-6	E420/WP	µg/L	273	332	328	333	324	327	----
Sulfur, total	7704-34-9	E420/WP	µg/L	2350	910	730	740	700	740	----
Tellurium, total	13494-80-9	E420/WP	µg/L	0.049	0.042	0.058	0.023	0.022	0.051	----
Thallium, total	7440-28-0	E420/WP	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	----
Thorium, total	7440-29-1	E420/WP	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	----
Tin, total	7440-31-5	E420/WP	µg/L	Not Detected	Not Detected	0.031	Not Detected	0.028	0.22	----
Titanium, total	7440-32-6	E420/WP	µg/L	0.032	0.045	0.048	0.049	0.054	0.066	----
Tungsten, total	7440-33-7	E420/WP	µg/L	0.011	Not Detected	Not Detected	Not Detected	0.011	Not Detected	----
Uranium, total	7440-61-1	E420/WP	µg/L	0.014	0.016	0.0094	0.017	0.0069	0.0091	----
Vanadium, total	7440-62-2	E420/WP	µg/L	0.094	0.12	0.11	0.11	0.10	0.12	----
Zinc, total	7440-66-6	E420/WP	µg/L	8.9	8.6	28.6	10.8	9.5	10.5	----
Zirconium, total	7440-67-7	E420/WP	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	----



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				Result	Result	Result	Result	Result	Result	----
Volatile Organic Compounds										
Benzene	71-43-2	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Bromodichloromethane	75-27-4	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Bromoform	75-25-2	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Chloroform	67-66-3	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Dibromochloromethane	124-48-1	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Dichloromethane	75-09-2	E611D/WP	mg/L	<0.0010	<0.0010	----	----	----	----	----
Ethylbenzene	100-41-4	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Tetrachloroethylene	127-18-4	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Toluene	108-88-3	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Trichloroethylene	79-01-6	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
Xylene, m+p-	179601-23-1	E611D/WP	mg/L	<0.00040	<0.00040	----	----	----	----	----
Xylene, o-	95-47-6	E611D/WP	mg/L	<0.00030	<0.00030	----	----	----	----	----
Xylenes, total	1330-20-7	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----
BTEX, total	----	E611D/WP	mg/L	<0.0010	<0.0010	----	----	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611D/WP	%	97.9	96.2	----	----	----	----	----



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				Result	Result	Result	Result	Result	Result	----
Volatile Organic Compounds Surrogates										
Difluorobenzene, 1,4-	540-36-3	E611D/WP	%	99.8	100	----	----	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.