



Analytical Results Evaluation

Matrix: Water				Client sample ID	STEINBACH 1 - RAW PUMP STATION #2 WELL #3	STEINBACH 1 - RAW PUMP STATION #3 WELL #5	STEINBACH 2 - TREATED PUMP STATION #2	STEINBACH 2 - TREATED PUMP STATION #3	STEINBACH 3 - DISTRIBUTION MID-POINT @ CITY HALL	STEINBACH 3 - DISTRIBUTION MID-POINT @ LIFT #2	----
				Sampling date/time	13-Aug-2024 09:35	13-Aug-2024 08:40	13-Aug-2024 10:45	13-Aug-2024 08:50	13-Aug-2024 11:06	13-Aug-2024 11:15	----
				Sub-Matrix	Water	Water	Water	Water	Water	Water	----
Analyte	CAS Number	Method/Lab	Unit	WP2420026-001	WP2420026-002	WP2420026-003	WP2420026-004	WP2420026-005	WP2420026-006	-----	
Physical Tests											
Absorbance, UV (@ 254nm)	----	E404/WP	AU/cm	0.0770	0.0620	0.0540	0.0470	----	----	----	
Alkalinity, bicarbonate (as CaCO3)	----	E290/WP	mg/L	340	290	286	279	----	----	----	
Alkalinity, carbonate (as CaCO3)	----	E290/WP	mg/L	<1.0	<1.0	<1.0	<1.0	----	----	----	
Alkalinity, hydroxide (as CaCO3)	----	E290/WP	mg/L	<1.0	<1.0	<1.0	<1.0	----	----	----	
Alkalinity, total (as CaCO3)	----	E290/WP	mg/L	340	290	286	279	----	----	----	
Colour, true	----	E329/WP	CU	<5.0	<5.0	<5.0	<5.0	----	----	----	
Conductivity	----	E100/WP	µS/cm	583	559	584	562	----	----	----	
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/WP	mg/L	277	228	243	230	----	----	----	
Langelier index (@ 4°C)	----	EC105A/WP	-	0.762	0.651	0.639	0.611	----	----	----	
Langelier index (@ 60°C)	----	EC105A/WP	-	1.52	1.41	1.40	1.37	----	----	----	
pH	----	E108/WP	pH units	8.15	8.19	8.15	8.16	----	----	----	
Solids, total dissolved [TDS]	----	E162-L/WP	mg/L	309	304	322	300	----	----	----	
Turbidity	----	E121/WP	NTU	15.4	11.7	<0.10	<0.10	----	----	----	
Transmittance, UV (@ 254nm)	----	E404/WP	% T/cm	83.8	86.7	88.3	89.7	----	----	----	
Anions and Nutrients											
Ammonia, total (as N)	7664-41-7	E298/WP	mg/L	0.957	0.789	0.0347	0.0189	----	----	----	
Bromide	24959-67-9	E235.Br-L/WP	mg/L	<0.050	<0.050	Not Detected	Not Detected	----	----	----	
Chloride	16887-00-6	E235.Cl-L/WP	mg/L	3.83	16.3	27.0	25.6	----	----	----	
Fluoride	16984-48-8	E235.F/WP	mg/L	0.293	0.383	0.673	0.650	----	----	----	
Nitrate (as N)	14797-55-8	E235.NO3-L/WP	mg/L	<0.0050	<0.0050	0.0103	0.0201	----	----	----	
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/WP	mg/L	<0.30	1.37	1.60	1.40	----	----	----	
Organic / Inorganic Carbon											
Carbon, dissolved organic [DOC]	----	E358-L/WP	mg/L	3.90	2.73	2.95	2.57	----	----	----	
Carbon, total organic [TOC]	----	E355-L/WP	mg/L	3.40	2.38	2.62	2.25	----	----	----	
Ion Balance											



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				Sampling date/time						
				Sub-Matrix						
Analyte	CAS Number	Method/Lab	Unit	WP2420026-001	WP2420026-002	WP2420026-003	WP2420026-004	WP2420026-005	WP2420026-006	-----
Ion Balance										
Anion sum	----	EC101A/WP	meq/L	6.92	6.30	6.55	6.36	----	----	----
Cation sum (total)	----	EC101A/WP	meq/L	6.53	6.02	6.27	5.97	----	----	----
Ion balance (cations/anions)	----	EC101A/WP	%	94.4	95.6	95.7	93.9	----	----	----
Ion balance (APHA)	----	EC101A/WP	%	-2.90	-2.27	-2.18	-3.16	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/WP	µg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	----
Antimony, total	7440-36-0	E420/WP	µg/L	<0.10	Not Detected	<0.10	<0.10	Not Detected	<0.10	----
Arsenic, total	7440-38-2	E420/WP	µg/L	0.10	0.18	0.12	0.13	0.12	0.11	----
Barium, total	7440-39-3	E420/WP	µg/L	592	193	413	203	420	416	----
Beryllium, total	7440-41-7	E420/WP	µg/L	<0.020	<0.020	<0.020	<0.020	Not Detected	<0.020	----
Bismuth, total	7440-69-9	E420/WP	µg/L	<0.050	Not Detected	<0.050	<0.050	Not Detected	<0.050	----
Boron, total	7440-42-8	E420/WP	µg/L	130	196	170	195	173	175	----
Cadmium, total	7440-43-9	E420/WP	µg/L	Not Detected	Not Detected	Not Detected	<0.0050	Not Detected	Not Detected	----
Calcium, total	7440-70-2	E420/WP	µg/L	57100	47300	51600	47800	50200	50000	----
Cesium, total	7440-46-2	E420/WP	µg/L	<0.010	<0.010	0.012	<0.010	0.014	0.015	----
Chromium, total	7440-47-3	E420/WP	µg/L	Not Detected	Not Detected	<0.50	<0.50	Not Detected	<0.50	----
Cobalt, total	7440-48-4	E420/WP	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	----
Copper, total	7440-50-8	E420/WP	µg/L	1.22	3.28	8.98	5.78	169	41.1	----
Iron, total	7439-89-6	E420/WP	µg/L	1140	1150	26	103	70	48	----
Lead, total	7439-92-1	E420/WP	µg/L	<0.050	<0.050	0.268	0.060	0.100	0.638	----
Lithium, total	7439-93-2	E420/WP	µg/L	15.4	17.9	18.0	17.7	19.8	18.5	----
Magnesium, total	7439-95-4	E420/WP	µg/L	32700	26600	27800	26900	27400	26800	----
Manganese, total	7439-96-5	E420/WP	µg/L	7.75	5.73	0.26	0.64	0.46	0.38	----
Molybdenum, total	7439-98-7	E420/WP	µg/L	0.776	1.13	1.05	1.10	1.10	1.04	----
Nickel, total	7440-02-0	E420/WP	µg/L	<0.50	<0.50	<0.50	0.55	<0.50	<0.50	----
Phosphorus, total	7723-14-0	E420/WP	µg/L	<50	<50	421	384	385	390	----
Potassium, total	7440-09-7	E420/WP	µg/L	4060	4790	4590	4560	4630	4400	----



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Sub-Matrix				Water	Water	Water	Water	Water	Water	----
Analyte	CAS Number	Method/Lab	Unit	WP2420026-001	WP2420026-002	WP2420026-003	WP2420026-004	WP2420026-005	WP2420026-006	-----
Total Metals										
Rubidium, total	7440-17-7	E420/WP	µg/L	2.69	2.89	3.14	3.11	3.00	3.09	----
Selenium, total	7782-49-2	E420/WP	µg/L	<0.050	Not Detected	<0.050	<0.050	<0.050	<0.050	----
Silicon, total	7440-21-3	E420/WP	µg/L	7560	6180	6840	6180	6830	6720	----
Silver, total	7440-22-4	E420/WP	µg/L	<0.010	<0.010	<0.010	0.132	<0.010	0.030	----
Sodium, total	7440-23-5	E420/WP	µg/L	17800	28700	29700	28800	28800	28500	----
Strontium, total	7440-24-6	E420/WP	µg/L	352	340	310	333	330	322	----
Sulfur, total	7704-34-9	E420/WP	µg/L	Not Detected	700	840	830	770	780	----
Tellurium, total	13494-80-9	E420/WP	µg/L	<0.20	<0.20	<0.20	Not Detected	<0.20	<0.20	----
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	<0.10	<0.10	0.28	0.46	0.24	0.14	----
Titanium, total	7440-32-6	E420/WP	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	----
Tungsten, total	7440-33-7	E420/WP	µg/L	<0.10	Not Detected	<0.10	Not Detected	<0.10	Not Detected	----
Uranium, total	7440-61-1	E420/WP	µg/L	<0.010	0.018	<0.010	0.018	<0.010	<0.010	----
Vanadium, total	7440-62-2	E420/WP	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----
Zinc, total	7440-66-6	E420/WP	µg/L	<3.0	12.5	<3.0	7.1	<3.0	6.1	----
Zirconium, total	7440-67-7	E420/WP	µg/L	<0.20	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	----
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	----	----	----	----	----



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				Sub-Matrix	Water	Water	Water	Water	Water	Water	----
Analyte	CAS Number	Method/Lab	Unit	WP2420026-001	WP2420026-002	WP2420026-003	WP2420026-004	WP2420026-005	WP2420026-006	-----	
Volatile Organic Compounds											
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	%	88.8	88.4	----	----	----	----	----	
Difluorobenzene, 1,4-	540-36-3	E611D/WP	%	101	102	----	----	----	----	----	

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

Please refer to the Accreditation section for an explanation of analyte accreditations.

Key: