



Analytical Results Evaluation

			Client sample ID	RAW WELL #2	TREATED PS#2 400 HESPELER	TREATED PS#3 246 PARK RD. WEST	RAW WELL #4	RAW WELL #5	----	----
Matrix: Water			Sampling date/time	20-Feb-2024 09:03	20-Feb-2024 11:09	20-Feb-2024 08:34	20-Feb-2024 08:23	20-Feb-2024 08:06	----	----
			Sub-Matrix	Water	Water	Water	Water	Water	----	----
Analyte	CAS Number	Method/Lab	Unit	WP2404079-001	WP2404079-002	WP2404079-003	WP2404079-004	WP2404079-005	-----	-----
Physical Tests										
Absorbance, UV (@ 254nm)	----	E404/WP	AU/cm	0.0350	0.0390	0.0320	0.0390	0.0420	----	----
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	E290/WP	mg/L	303	341	331	341	347	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/WP	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	----	----
Colour, true	----	E329/WP	CU	<5.0	<5.0	<5.0	<5.0	<5.0	----	----
Conductivity	----	E100/WP	µS/cm	568	581	564	548	558	----	----
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/WP	mg/L	186	250	235	231	236	----	----
Langelier index (@ 15°C)	----	EC105A/WP	-	0.704	0.449	0.523	0.630	0.707	----	----
Langelier index (@ 20°C)	----	EC105A/WP	-	0.776	0.524	0.596	0.703	0.781	----	----
Langelier index (@ 25°C)	----	EC105A/WP	-	0.848	0.594	0.668	0.774	0.851	----	----
Langelier index (@ 4°C)	----	EC105A/WP	-	0.530	0.275	0.348	0.455	0.533	----	----
Langelier index (@ 60°C)	----	EC105A/WP	-	1.29	1.04	1.11	1.22	1.30	----	----
Langelier index (@ 77°C)	----	EC105A/WP	-	1.49	1.24	1.31	1.42	1.50	----	----
pH	----	E108/WP	pH units	8.22	7.80	7.92	8.02	8.09	----	----
Solids, total dissolved [TDS]	----	E162-L/WP	mg/L	298	314	305	282	307	----	----
Turbidity	----	E121/WP	NTU	8.48	0.35	<0.10	13.2	10.0	----	----
pH, saturation (@ 4°C)	----	EC105A/WP	pH units	7.69	7.52	7.57	7.56	7.56	----	----
Transmittance, UV (@ 254nm)	----	E404/WP	% T/cm	92.2	91.4	92.9	91.4	90.8	----	----
pH, saturation (@ 15°C)	----	EC105A/WP	pH units	7.52	7.35	7.40	7.39	7.38	----	----
pH, saturation (@ 20°C)	----	EC105A/WP	pH units	7.44	7.28	7.32	7.32	7.31	----	----
pH, saturation (@ 25°C)	----	EC105A/WP	pH units	7.37	7.20	7.25	7.24	7.24	----	----
pH, saturation (@ 60°C)	----	EC105A/WP	pH units	6.93	6.76	6.81	6.80	6.79	----	----
pH, saturation (@ 77°C)	----	EC105A/WP	pH units	6.73	6.56	6.61	6.60	6.59	----	----
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WP	mg/L	0.667	<0.0050	<0.0050	0.605	0.741	----	----
Bromide	24959-67-9	E235.Br/WP	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	----	----
Chloride	16887-00-6	E235.Cl/WP	mg/L	35.8	23.2	24.2	15.5	16.2	----	----
Fluoride	16984-48-8	E235.F/WP	mg/L	0.528	0.690	0.679	0.369	0.376	----	----



Analytical Results Evaluation

				Client sample ID	RAW WELL #2	TREATED PS#2 400 HESPELER	TREATED PS#3 246 PARK RD. WEST	RAW WELL #4	RAW WELL #5	----	----
Matrix: Water											
				Sampling date/time	20-Feb-2024 09:03	20-Feb-2024 11:09	20-Feb-2024 08:34	20-Feb-2024 08:23	20-Feb-2024 08:06	----	----
				Sub-Matrix	Water	Water	Water	Water	Water	----	----
Analyte	CAS Number	Method/Lab	Unit	WP2404079-001	WP2404079-002	WP2404079-003	WP2404079-004	WP2404079-005	-----	-----	
Anions and Nutrients											
Nitrate (as N)	14797-55-8	E235.NO3/WP	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	----	----	
Nitrite (as N)	14797-65-0	E235.NO2/WP	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	----	----	
Sulfate (as SO4)	14808-79-8	E235.SO4/WP	mg/L	5.38	1.58	1.40	2.40	1.60	----	----	
Organic / Inorganic Carbon											
Carbon, dissolved organic [DOC]	----	E358-L/WP	mg/L	1.63	2.57	2.45	2.27	2.38	----	----	
Carbon, total organic [TOC]	----	E355-L/WP	mg/L	1.66	2.35	2.27	2.01	2.17	----	----	
Ion Balance											
Anion sum	----	EC101A/WP	meq/L	6.11	6.32	6.18	6.10	6.20	----	----	
Cation sum (total)	----	EC101A/WP	meq/L	6.05	6.48	6.25	6.14	6.29	----	----	
Ion balance (cations/anions)	----	EC101A/WP	%	99.0	102	101	101	101	----	----	
Ion balance (APHA)	----	EC101A/WP	%	-0.493	1.25	0.563	0.327	0.720	----	----	
Total Metals											
Aluminum, total	7429-90-5	E420/WP	mg/L	<0.0030	<0.0030	<0.0030	0.0044	<0.0030	----	----	
Antimony, total	7440-36-0	E420/WP	mg/L	Not Detected	<0.00010	<0.00010	<0.00010	<0.00010	----	----	
Arsenic, total	7440-38-2	E420/WP	mg/L	0.00025	<0.00010	<0.00010	0.00011	0.00015	----	----	
Barium, total	7440-39-3	E420/WP	mg/L	0.274	0.433	0.196	0.236	0.198	----	----	
Beryllium, total	7440-41-7	E420/WP	mg/L	Not Detected	Not Detected	<0.000020	<0.000020	<0.000020	----	----	
Bismuth, total	7440-69-9	E420/WP	mg/L	Not Detected	Not Detected	<0.000050	<0.000050	Not Detected	----	----	
Boron, total	7440-42-8	E420/WP	mg/L	0.230	0.178	0.207	0.185	0.190	----	----	
Cadmium, total	7440-43-9	E420/WP	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	----	----	
Calcium, total	7440-70-2	E420/WP	mg/L	38.9	50.5	46.5	45.3	46.1	----	----	
Cesium, total	7440-46-2	E420/WP	mg/L	0.000023	0.000015	<0.000010	0.000011	<0.000010	----	----	
Chromium, total	7440-47-3	E420/WP	mg/L	Not Detected	<0.00050	<0.00050	Not Detected	<0.00050	----	----	
Cobalt, total	7440-48-4	E420/WP	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	----	----	
Copper, total	7440-50-8	E420/WP	mg/L	0.00067	0.0110	0.00269	0.00259	0.00273	----	----	
Iron, total	7439-89-6	E420/WP	mg/L	0.742	0.136	0.094	1.28	1.19	----	----	
Lead, total	7439-92-1	E420/WP	mg/L	Not Detected	0.000734	<0.000050	<0.000050	Not Detected	----	----	



Analytical Results Evaluation

Matrix: Water				Client sample ID	RAW WELL #2	TREATED PS#2 400 HESPELER	TREATED PS#3 246 PARK RD. WEST	RAW WELL #4	RAW WELL #5	----	----
				Sampling date/time	20-Feb-2024 09:03	20-Feb-2024 11:09	20-Feb-2024 08:34	20-Feb-2024 08:23	20-Feb-2024 08:06	----	----
				Sub-Matrix	Water	Water	Water	Water	Water	----	----
Analyte	CAS Number	Method/Lab	Unit	WP2404079-001	WP2404079-002	WP2404079-003	WP2404079-004	WP2404079-005	-----	-----	
Total Metals											
Lithium, total	7439-93-2	E420/WP	mg/L	0.0262	0.0206	0.0187	0.0176	0.0177	----	----	
Magnesium, total	7439-95-4	E420/WP	mg/L	21.6	30.0	28.9	28.6	29.4	----	----	
Manganese, total	7439-96-5	E420/WP	mg/L	0.00537	0.00117	0.00059	0.00592	0.00621	----	----	
Molybdenum, total	7439-98-7	E420/WP	mg/L	0.00190	0.00121	0.00118	0.00104	0.00116	----	----	
Nickel, total	7440-02-0	E420/WP	mg/L	Not Detected	<0.00050	<0.00050	<0.00050	<0.00050	----	----	
Phosphorus, total	7723-14-0	E420/WP	mg/L	<0.050	0.562	0.390	<0.050	<0.050	----	----	
Potassium, total	7440-09-7	E420/WP	mg/L	5.75	4.98	4.78	4.73	4.82	----	----	
Rubidium, total	7440-17-7	E420/WP	mg/L	0.00394	0.00326	0.00305	0.00306	0.00309	----	----	
Selenium, total	7782-49-2	E420/WP	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	----	----	
Silicon, total	7440-21-3	E420/WP	mg/L	5.54	7.28	6.44	6.36	6.56	----	----	
Silver, total	7440-22-4	E420/WP	mg/L	Not Detected	<0.000010	Not Detected	<0.000010	Not Detected	----	----	
Sodium, total	7440-23-5	E420/WP	mg/L	48.6	31.2	32.8	30.2	31.2	----	----	
Strontium, total	7440-24-6	E420/WP	mg/L	0.302	0.355	0.366	0.341	0.370	----	----	
Sulfur, total	7704-34-9	E420/WP	mg/L	2.36	0.80	0.83	1.17	0.97	----	----	
Tellurium, total	13494-80-9	E420/WP	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	----	----	
Thallium, total	7440-28-0	E420/WP	mg/L	Not Detected	Not Detected	<0.000010	<0.000010	Not Detected	----	----	
Thorium, total	7440-29-1	E420/WP	mg/L	Not Detected	Not Detected	Not Detected	<0.00010	Not Detected	----	----	
Tin, total	7440-31-5	E420/WP	mg/L	<0.00010	0.00015	0.00016	<0.00010	<0.00010	----	----	
Titanium, total	7440-32-6	E420/WP	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	----	----	
Tungsten, total	7440-33-7	E420/WP	mg/L	<0.00010	<0.00010	Not Detected	<0.00010	<0.00010	----	----	
Uranium, total	7440-61-1	E420/WP	mg/L	0.000011	<0.000010	0.000019	0.000014	0.000015	----	----	
Vanadium, total	7440-62-2	E420/WP	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	----	----	
Zinc, total	7440-66-6	E420/WP	mg/L	0.0042	0.0030	<0.0030	0.0057	0.0181	----	----	
Zirconium, total	7440-67-7	E420/WP	mg/L	Not Detected	Not Detected	<0.00020	<0.00020	<0.00020	----	----	
Volatile Organic Compounds											
Trichloroethane, 1,1,1-	71-55-6	E611D/WP	µg/L	<0.50	----	----	<0.50	<0.50	----	----	
Trichloroethane, 1,1,2-	79-00-5	E611D/WP	µg/L	<0.50	----	----	<0.50	<0.50	----	----	



Analytical Results Evaluation

Matrix: Water				Client sample ID	RAW WELL #2	TREATED PS#2 400 HESPELER	TREATED PS#3 246 PARK RD. WEST	RAW WELL #4	RAW WELL #5	----	----
				Sampling date/time	20-Feb-2024 09:03	20-Feb-2024 11:09	20-Feb-2024 08:34	20-Feb-2024 08:23	20-Feb-2024 08:06	----	----
				Sub-Matrix	Water	Water	Water	Water	Water	----	----
Analyte	CAS Number	Method/Lab	Unit	WP2404079-001	WP2404079-002	WP2404079-003	WP2404079-004	WP2404079-005	-----	-----	
Volatile Organic Compounds											
Trichloroethylene	79-01-6	E611D/WP	µg/L	<0.50	----	----	<0.50	<0.50	----	----	
Volatile Organic Compounds Surrogates											
Bromofluorobenzene, 4-	460-00-4	E611D/WP	%	81.0	----	----	78.7	81.2	----	----	
Difluorobenzene, 1,4-	540-36-3	E611D/WP	%	116	----	----	116	114	----	----	

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: