



Analytical Results Evaluation

				Client sample ID	Raw Well #1	TREATED PS#2 400 Hespeler	TREATED PS #3 246 Park Rd. West	RAW Well #5	----	----	----
Matrix: Water				Sampling date/time	04-Mar-2025 10:10	04-Mar-2025 11:10	04-Mar-2025 08:35	04-Mar-2025 08:45	----	----	----
				Sub-Matrix	Water	Water	Water	Water	----	----	----
Analyte	CAS Number	Method/Lab	Unit		WP2502853-001	WP2502853-002	WP2502853-003	WP2502853-004	-----	-----	-----
Physical Tests											
Absorbance, UV (@ 254nm)	----	E404/WP	AU/cm		0.0610	0.0380	0.0300	0.0440	----	----	----
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	E290/WP	mg/L		401	345	334	359	----	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/WP	mg/L		<0.3	<0.3	<0.3	<0.3	----	----	----
Colour, true	----	E329/WP	CU		27.6	<5.0	<5.0	14.2	----	----	----
Conductivity	----	E100/WP	µS/cm		578	577	561	566	----	----	----
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/WP	mg/L		276	240	231	243	----	----	----
Langelier index (@ 15°C)	----	EC105A/WP	-		0.384	0.189	0.307	0.432	----	----	----
Langelier index (@ 20°C)	----	EC105A/WP	-		0.458	0.262	0.380	0.507	----	----	----
Langelier index (@ 25°C)	----	EC105A/WP	-		0.529	0.334	0.452	0.577	----	----	----
Langelier index (@ 4°C)	----	EC105A/WP	-		0.210	0.013	0.132	0.258	----	----	----
Langelier index (@ 60°C)	----	EC105A/WP	-		0.973	0.781	0.899	1.02	----	----	----
Langelier index (@ 77°C)	----	EC105A/WP	-		1.17	0.981	1.10	1.22	----	----	----
pH	----	E108/WP	pH units		7.66	7.55	7.70	7.77	----	----	----
Solids, total dissolved [TDS]	----	E162-L/WP	mg/L		459	317	290	303	----	----	----
Turbidity	----	E121/WP	NTU		3.59	0.23	0.21	14.7	----	----	----
pH, saturation (@ 4°C)	----	EC105A/WP	pH units		7.45	7.54	7.57	7.51	----	----	----
Transmittance, UV (@ 254nm)	----	E404/WP	% T/cm		86.9	91.6	93.3	90.4	----	----	----
pH, saturation (@ 15°C)	----	EC105A/WP	pH units		7.28	7.36	7.39	7.34	----	----	----
pH, saturation (@ 20°C)	----	EC105A/WP	pH units		7.20	7.29	7.32	7.26	----	----	----
pH, saturation (@ 25°C)	----	EC105A/WP	pH units		7.13	7.22	7.25	7.19	----	----	----
pH, saturation (@ 60°C)	----	EC105A/WP	pH units		6.69	6.77	6.80	6.75	----	----	----
pH, saturation (@ 77°C)	----	EC105A/WP	pH units		6.49	6.57	6.60	6.54	----	----	----
Anions and Nutrients											
Ammonia, total (as N)	7664-41-7	E298/WP	mg/L		0.878	<0.0050	<0.0050	0.207	----	----	----
Bromide	24959-67-9	E235.Br/WP	mg/L		<0.10	<0.10	<0.10	<0.10	----	----	----
Chloride	16887-00-6	E235.Cl/WP	mg/L		6.15	26.0	24.6	15.3	----	----	----
Fluoride	16984-48-8	E235.F/WP	mg/L		0.300	0.691	0.671	0.382	----	----	----



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				Sub-Matrix	Water	Water	Water	Water	----	----	----
Analyte	CAS Number	Method/Lab	Unit		WP2502853-001	WP2502853-002	WP2502853-003	WP2502853-004	-----	-----	-----
Anions and Nutrients											
Nitrate (as N)	14797-55-8	E235.NO3/WP	mg/L		<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	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WP	mg/L		<0.30	1.76	1.66	1.09	----	----	----
Organic / Inorganic Carbon											
Carbon, dissolved organic [DOC]	----	E358-L/WP	mg/L		3.70	2.66	2.67	2.76	----	----	----
Carbon, total organic [TOC]	----	E355-L/WP	mg/L		3.52	2.85	2.48	2.77	----	----	----
Ion Balance											
Anion sum	----	EC101A/WP	meq/L		6.76	6.46	6.24	6.35	----	----	----
Cation sum (total)	----	EC101A/WP	meq/L		6.61	6.32	6.12	6.34	----	----	----
Ion balance (cations/anions)	----	EC101A/WP	%		97.8	97.8	98.1	99.8	----	----	----
Ion balance (APHA)	----	EC101A/WP	%		-1.12	-1.10	-0.971	-0.079	----	----	----
Total Metals											
Aluminum, total	7429-90-5	E420/WP	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	----	----	----
Antimony, total	7440-36-0	E420/WP	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	----	----	----
Arsenic, total	7440-38-2	E420/WP	mg/L		0.00012	<0.00010	0.00010	0.00012	----	----	----
Barium, total	7440-39-3	E420/WP	mg/L		0.456	0.393	0.192	0.199	----	----	----
Beryllium, total	7440-41-7	E420/WP	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	----	----	----
Bismuth, total	7440-69-9	E420/WP	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	----	----	----
Boron, total	7440-42-8	E420/WP	mg/L		0.132	0.185	0.205	0.198	----	----	----
Cadmium, total	7440-43-9	E420/WP	mg/L		Not Detected	Not Detected	Not Detected	Not Detected	----	----	----
Calcium, total	7440-70-2	E420/WP	mg/L		55.4	48.7	46.0	49.2	----	----	----
Cesium, total	7440-46-2	E420/WP	mg/L		<0.000010	0.000015	0.000011	<0.000010	----	----	----
Chromium, total	7440-47-3	E420/WP	mg/L		Not Detected	<0.00050	<0.00050	Not Detected	----	----	----
Cobalt, total	7440-48-4	E420/WP	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	----	----	----
Copper, total	7440-50-8	E420/WP	mg/L		0.0194	0.0140	0.00128	0.00234	----	----	----
Iron, total	7439-89-6	E420/WP	mg/L		1.06	0.040	0.060	1.42	----	----	----
Lead, total	7439-92-1	E420/WP	mg/L		0.000177	0.000206	<0.000050	<0.000050	----	----	----



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				Sub-Matrix	Water	Water	Water	Water	----	----	----
Analyte	CAS Number	Method/Lab	Unit		WP2502853-001	WP2502853-002	WP2502853-003	WP2502853-004	-----	-----	-----
Total Metals											
Lithium, total	7439-93-2	E420/WP	mg/L		0.0165	0.0211	0.0206	0.0216	----	----	----
Magnesium, total	7439-95-4	E420/WP	mg/L		33.4	28.8	28.3	29.2	----	----	----
Manganese, total	7439-96-5	E420/WP	mg/L		0.00867	0.00040	0.00036	0.00734	----	----	----
Molybdenum, total	7439-98-7	E420/WP	mg/L		0.000697	0.00114	0.00112	0.00104	----	----	----
Nickel, total	7440-02-0	E420/WP	mg/L		<0.00050	<0.00050	<0.00050	Not Detected	----	----	----
Phosphorus, total	7723-14-0	E420/WP	mg/L		0.058	0.480	0.436	<0.050	----	----	----
Potassium, total	7440-09-7	E420/WP	mg/L		4.31	4.69	5.07	4.93	----	----	----
Rubidium, total	7440-17-7	E420/WP	mg/L		0.00270	0.00302	0.00303	0.00283	----	----	----
Selenium, total	7782-49-2	E420/WP	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	----	----	----
Silicon, total	7440-21-3	E420/WP	mg/L		7.90	7.00	6.46	6.71	----	----	----
Silver, total	7440-22-4	E420/WP	mg/L		Not Detected	<0.000010	Not Detected	Not Detected	----	----	----
Sodium, total	7440-23-5	E420/WP	mg/L		20.4	32.1	31.3	29.8	----	----	----
Strontium, total	7440-24-6	E420/WP	mg/L		0.343	0.324	0.351	0.361	----	----	----
Sulfur, total	7704-34-9	E420/WP	mg/L		Not Detected	0.93	0.87	<0.50	----	----	----
Tellurium, total	13494-80-9	E420/WP	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	----	----	----
Thallium, total	7440-28-0	E420/WP	mg/L		Not Detected	Not Detected	Not Detected	Not Detected	----	----	----
Thorium, total	7440-29-1	E420/WP	mg/L		Not Detected	Not Detected	Not Detected	Not Detected	----	----	----
Tin, total	7440-31-5	E420/WP	mg/L		0.00041	<0.00010	<0.00010	<0.00010	----	----	----
Titanium, total	7440-32-6	E420/WP	mg/L		<0.00030	<0.00030	<0.00030	Not Detected	----	----	----
Tungsten, total	7440-33-7	E420/WP	mg/L		<0.00010	<0.00010	Not Detected	Not Detected	----	----	----
Uranium, total	7440-61-1	E420/WP	mg/L		<0.000010	<0.000010	0.000018	<0.000010	----	----	----
Vanadium, total	7440-62-2	E420/WP	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	----	----	----
Zinc, total	7440-66-6	E420/WP	mg/L		<0.0030	0.0042	0.0099	0.0102	----	----	----
Zirconium, total	7440-67-7	E420/WP	mg/L		<0.00020	<0.00020	Not Detected	<0.00020	----	----	----
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	----	----	----



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				Sub-Matrix	Water	Water	Water	Water	----	----	----
Analyte	CAS Number	Method/Lab	Unit		WP2502853-001	WP2502853-002	WP2502853-003	WP2502853-004	-----	-----	-----
Volatile Organic Compounds											
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	%		83.5	----	----	83.6	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WP	%		96.7	----	----	95.8	----	----	----

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: