Laboratory Report — Caro Analytical Services

Report For:	City of Prince George
Received:	03/09/2021 12:24
Report ID:	20J2054
Report Name:	20J2054_FINAL_WaterTrax_05_Mar_21_1414.txt

Sample ID:	**20J2054-01**
Water System:	Core Water System
Source:	PW 605 Well
Facility:	PW 605 Well Pumphouse
Sampling Pt:	PW 605 Pumphouse treated water (PW605-2-EP, DBC0)
Comment:	Generated by File Transfer
Sampled:	10/20/2020 13:50

INORGANIC			Criteria & Type		Status
Aluminum (dissolved)	< 0.0050	mg/L			Final
Aluminum (total)	< 0.0050	mg/L	<=0.1	Operational - Conventional	Final
Ammonia (total, as N)	< 0.050	mg/L			Final
Antimony (dissolved)	< 0.00020	mg/L			Final
Antimony (total)	< 0.00020	mg/L	<=0.006	MAC	Final
Arsenic (dissolved)	< 0.00050	mg/L			Final
Arsenic (total)	< 0.00050	mg/L		Current Level	Final
Barium (dissolved)	0.0231	mg/L			Final
Barium (total)	0.0249	mg/L	<=2	MAC	Final
Beryllium (dissolved)	< 0.00010	mg/L			Final
Beryllium (total)	< 0.00010	mg/L			Final
Bismuth (dissolved)	< 0.00010	mg/L			Final
Bismuth (total)	< 0.00010	mg/L			Final
Boron (dissolved)	< 0.0500	mg/L			Final
Boron (total)	< 0.0500	mg/L	<=5	MAC	Final
Bromide	< 0.10	mg/L			Final
Cadmium (dissolved)	0.000028	mg/L			Final
Cadmium (total)	0.000031	mg/L	<=0.005	MAC	Final
Calcium (dissolved)	28.3	mg/L			Final
Calcium (total)	30.8	mg/L			Final
Chloride	6.68	mg/L	<=250	AO	Final
Chromium (extractable)	< 0.00050	mg/L			Final
Chromium (total)	< 0.00050	mg/L	<=0.05	MAC	Final
Cobalt (dissolved)	< 0.00010	mg/L			Final
Cobalt (total)	< 0.00010	mg/L			Final
Copper (extractable)	0.00847	mg/L			Final
Copper (total)	0.00968	mg/L	<=1	AO	Final
Fluoride	< 0.10	mg/L	<=1.5	MAC	Final
Iron (dissolved)	0.014	mg/L			Final
Iron (total)	0.021	mg/L	<=0.3	AO	Final
Lead (dissolved)	0.00024	mg/L			Final

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INORGANIC			Criteria & Type		Status
Lead (total)	0.00034	mg/L	<=0.005	MAC	Final
Lithium (dissolved)	0.00094	mg/L			Final
Lithium (total)	0.00078	mg/L			Final
Magnesium (dissolved)	8.92	mg/L			Final
Magnesium (total)	9.76	mg/L			Final
Manganese (dissolved)	0.0148	mg/L			Final
Manganese (total)	0.0195	mg/L	<=0.02	AO	Final
Mercury (dissolved)	< 0.000010	mg/L			Final
Mercury (total)	< 0.000010	mg/L	<=0.001	MAC	Final
Molybdenum (dissolved)	0.00164	mg/L			Final
Molybdenum (total)	0.00171	mg/L			Final
Nickel (dissolved)	0.00241	mg/L			Final
Nickel (total)	0.00263	mg/L			Final
Nitrate (as N)	0.105	mg/L			Final
Nitrate + Nitrite (as N)	0.105	mg/L			Final
Nitrite (as N)	< 0.010	mg/L			Final
o-Phosphate (as P)	< 0.0050	mg/L			Final
Phosphorus (total dissolved)	< 0.050	mg/L			Final
Phosphorus (total)	< 0.050	mg/L			Final
Potassium (dissolved)	1.45	mg/L			Final
Potassium (total)	1.32	mg/L			Final
Selenium (dissolved)	0.00122	mg/L			Final
Selenium (total)	< 0.00050	mg/L	<=0.05	MAC	Final
Silicon (dissolved, as Si)	6.3	mg/L			Final
Silver (dissolved)	< 0.000050	mg/L			Final
Silver (total)	< 0.000050	mg/L			Final
Sodium (dissolved)	5.89	mg/L			Final
Sodium (total)	6.42	mg/L	<=200	AO	Final
Strontium (dissolved)	0.132	mg/L			Final
Strontium (total)	0.146	mg/L			Final
Sulfur (dissolved)	3.4	mg/L			Final
Sulfur (total)	3.7	mg/L			Final
Sulphate	8.5	mg/L	<=500	AO	Final
Tellurium (dissolved)	< 0.00050	mg/L			Final
Tellurium (total)	< 0.00050	mg/L			Final
Thallium (dissolved)	< 0.000020	mg/L			Final

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INORGANIC			Criteria & Type		Status
Thallium (total)	< 0.000020	mg/L			Final
Thorium (dissolved)	< 0.00010	mg/L			Final
Thorium (total)	< 0.00010	mg/L			Final
Tin (dissolved)	0.00023	mg/L			Final
Tin (total)	< 0.00020	mg/L			Final
Titanium (dissolved)	< 0.0050	mg/L			Final
Titanium (total)	< 0.0050	mg/L			Final
Tungsten (dissolved)	< 0.0010	mg/L			Final
Tungsten (total)	< 0.0010	mg/L			Final
Uranium (dissolved)	0.000306	mg/L			Final
Vanadium (dissolved)	< 0.0010	mg/L			Final
Vanadium (total)	0.0020	mg/L			Final
Zinc (dissolved)	0.0119	mg/L			Final
Zinc (total)	0.0125	mg/L	<=5	AO	Final
Zirconium (dissolved)	< 0.00010	mg/L			Final
Zirconium (total)	< 0.00010	mg/L			Final

MICROORGANISMS			Criteria & Type		Status
Escherichia coli / E. coli (counts)	< 1	CFU/100ml	<=0,OG	Microbiological standard	Final
Fecal (thermal tolerant) Coliforms (counts)	< 1	CFU/100ml	<=0	Microbiological Standard	Final
Total Coliforms (counts)	< 1	CFU/100ml	<=0,OG	User-Defined	Final

ORGANIC			Criteria & Type		Status
Acenaphthene	< 0.050	ug/L			Final
Acenaphthylene	< 0.200	ug/L			Final
Acridine	< 0.050	ug/L			Final
Adsorbable Organic Halides / AOX	193	ug/L			Final
Anthracene	< 0.010	ug/L			Final
Benzo(a)anthracene	< 0.010	ug/L			Final
Benzo(b)fluoranthene	< 0.010	ug/L			Final
Benzo(b,j)fluoranthene	< 0.050	ug/L			Final
Benzo(g,h,i)perylene	< 0.050	ug/L			Final
Benzo(k)fluoranthene	< 0.050	ug/L			Final
Bromodichloromethane (dichlorobromomethane)	1.7	ug/L	<=100	IMAC for TTHM expressed as a running annual average	Final

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ORGANIC			Criteria & Type		Status
Bromoform	< 1.0	ug/L	<=100	IMAC for TTHM expressed as a running annual average	Final
Chloroethane	< 2.0	ug/L			Final
Chloroform	0.0096	mg/L	<=0.1	Standard for TTHM expressed as a running annual average	Final
2-Chloronaphthalene	< 0.100	ug/L			Final
Chrysene	< 0.050	ug/L			Final
Dibenzo(a,h)anthracene	< 0.010	ug/L			Final
Dibromochloromethane (Chlorodibromomethane)	< 0.0010	mg/L	<=0.1	IMAC for TTHM expressed as a running annual average	Final
Dibromomethane	< 1.0	ug/L			Final
1,3-Dichlorobenzene	< 1.0	ug/L			Final
1,2-Dichloroethene	< 1.0	ug/L			Final
F1 (CCME): (C6-C10)	< 0.104	mg/L			Final
F1 (CCME): (C6-C10)	< 0.10	mg/L			Final
F2 (CCME): (C10-C16)	< 0.40	mg/L			Final
F3 (CCME): (C16-C34)	< 0.40	mg/L			Final
F4 (CCME): (C34-C50)	< 0.40	mg/L			Final
Fluoranthene	< 0.030	ug/L			Final
Fluorene	< 0.050	ug/L			Final
Volatile Petroleum Hydrocarbons C06-C10 (less BTEX)	< 100	ug/L			Final
Volatile Petroleum Hydrocarbons C06-C10	< 100	ug/L			Final
Extractable Petroleum Hydrocarbons C10-C19	< 250	ug/L			Final
Extractable Petroleum Hydrocarbons C19-C32	< 250	ug/L			Final
Indeno(1,2,3-c,d)pyrene	< 0.050	ug/L			Final
Methyl tert-butyl ether / MTBE	< 1.0	ug/L			Final
1-Methylnaphthalene	< 0.100	ug/L			Final
2-Methylnaphthalene	< 0.100	ug/L			Final
Naphthalene	< 0.200	ug/L			Final
Nitrogen (total)	0.190	mg/L			Final
Total PAH	< 0.000200	mg/L			Final
Phenanthrene	< 0.100	ug/L			Final
Pyrene	< 0.020	ug/L			Final
Quinoline	< 0.050	ug/L			Final

Total Kjeldahl Nitrogen / TKN	0.085	mg/L	Final
Total Organic Carbon / TOC	2.85	mg/L	Final

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ORGANIC			Criteria & Type		Status
Trichlorofluoromethane	< 1.0	ug/L			Final
Total Trihalomethanes / TTHM	0.0113	mg/L	<=0.1	IMAC based on running annual average	Final

PHYSICAL			Criteria & Type		Status
Alkalinity (bicarbonate, as CaCO3)	98.8	mg/L			Final
Alkalinity (carbonate, as CaCO3)	< 1.0	mg/L			Final
Alkalinity (hydroxide, as CaCO3)	< 1.0	mg/L			Final
Alkalinity (phenolphthalein, as CaCO3)	< 1.0	mg/L			Final
Alkalinity (total, as CaCO3)	98.8	mg/L			Final
Hardness (total, as CaCO3)	107	mg/L			Final
Hardness (total, as CaCO3)	117	mg/L			Final
Total Suspended Solids / TSS	< 2.0	mg/L			Final

RADIONUCLIDES			Criteria & Type		Status
Uranium (total)	0.000301	mg/L	<=0.02	MAC	Final

SOCS			Criteria & Type		Status
Ethylene dibromide / EDB	< 0.3	ug/L			Final

VOCS			Criteria & Type		Status
Benzene	< 0.5	ug/L	<=5	MAC	Final
Carbon tetrachloride	< 0.5	ug/L	<=2	MAC	Final
Chlorobenzene	< 1.0	ug/L	<=80	MAC	Final
1,2-Dichlorobenzene	< 0.5	ug/L	<=200	MAC	Final
1,4-Dichlorobenzene	< 1.0	ug/L	<=5	MAC	Final
1,1-Dichloroethane	< 1.0	ug/L			Final
1,1-Dichloroethylene	< 1.0	ug/L	<=14	MAC	Final
cis-1,2-Dichloroethylene	< 1.0	ug/L			Final
trans-1,2-Dichloroethylene	< 1.0	ug/L			Final
Dichloromethane	< 3.0	ug/L	<=50	MAC	Final
1,2-Dichloropropane	< 1.0	ug/L			Final
1,3-Dichloropropene	< 1.0	ug/L			Final
Ethylbenzene	< 1.0	ug/L	<=1.6	AO	Final
Styrene	< 1.0	ug/L			Final
1,1,2,2-Tetrachloroethane	< 0.5	ug/L			Final
Tetrachloroethylene / PCE	< 1.0	ug/L	<=10	MAC	Final
Toluene	< 1.0	ug/L	<=24	AO	Final
1,1,1-Trichloroethane	< 1.0	ug/L			Final
1,1,2-Trichloroethane	< 1.0	ug/L			Final

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VOCS			**Criteria & Type**		**Status**
Trichloroethylene / TCE	< 1.0	ug/L	<=5	MAC	Final
Vinyl chloride	< 1.0	ug/L	<=2	MAC	Final
Xylenes (total)	< 2.0	ug/L	<=20	AO	Final

Result Legend

P=present, A=absent, PR=presumptive, ND=non-detect, OR=over-range, OG=overgrown, Y=yes, N=no,

TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

< means less than lower detection limit shown

> means greater than upper detection limit shown

« means detected & less than number shown

» means detected & greater than number shown

**** Indicates Criteria is exceeded***