

Annual Parks Water Quality Report

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Executive Summary

This annual report, in compliance with the BC Drinking Water Protection Regulation (DWPR), presents an overview of the water quality in three parks within the Township of Langley: Williams Park, Brown Park, and Ponder Park.

Williams and Brown Parks are serviced by their own dedicated wells and distribution systems which are regularly tested to ensure high quality water for staff and parks users. Ponder Park has a private well that supplies the caretaker and the Harry Irvine picnic shelter for sanitation purposes but is not used for public drinking water. The well is tested quarterly for bacteria to ensure clean water for the park caretaker. Each park water system is an isolated system and not connected to the Distribution system.

Weekly sampling for bacteria and physical parameters is performed at Williams and Brown Parks as well as semi-annual sampling for metals. In addition to regular sampling, the treatment systems undergo semi-annual servicing, UV bulb replacement as required, and regular salt addition to the softeners.

In 2023, no samples from the parks tested positive for E. coli, however two samples from Ponder Park initially tested positive for total coliforms. The wellhead at Ponder Park was immediately flushed and chlorinated which successfully returned negative results in later tests.

The parks water quality monitoring program has met regulatory requirements to ensure the safety and health of water users in parks. The proactive maintenance and emergency response plans further prove the reliability and safety of the water quality in these parks.

Introduction

The BC Drinking Water Protection Regulation (DWPR) (Section 11) requires all water suppliers to produce and make public an annual water quality report. This report provides an overview of the water system in the three Township Parks and documents the test results of the well water quality monitoring program.

The Township of Langley has two (2) parks, Williams Park, and Brown Park, that are serviced by their own dedicated groundwater wells and public water distribution system. These wells are tested on a regular basis to ensure that clean and potable water is delivered to park visitors.

Ponder Park has a private well that is tested on a quarterly basis to ensure good water quality for the park caretaker. This well is not utilized as a public drinking source.

System Description

Williams, Brown, and Ponder Parks each function as their own water system with no interconnects to the Township municipal water distribution system.

Williams and Brown Parks are centrally located in the Salmon River Uplands area and Ponder Park is located in the North East area of the Township. Williams Park is 36.5 acres bounded to the east by 238 Street and to the south by 64 Avenue. Brown Park is located off 240 Street, south of 51 Avenue and is 12.9 acres in size. Ponder Park is located at 25199 76 Avenue and is 80 acres in size. Park locations are shown in Figure 1.

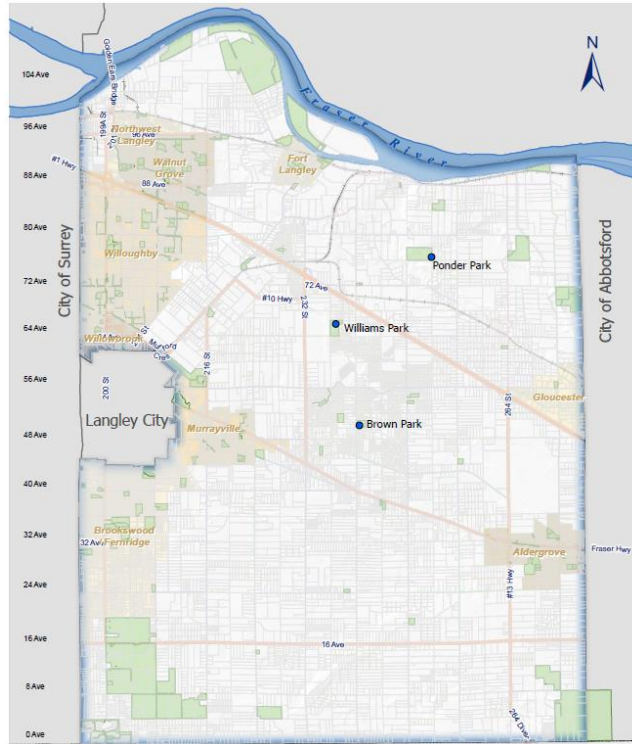


Figure 1: Location of Williams, Brown, and Ponder Parks

Williams Park receives potable water from one well which supplies water to restrooms, drinking fountains, and a caretaker residence within the park. The treatment system for Williams Park includes a chlorination system, greensand filter, a filter to remove arsenic, a five-micron filter, and NSF UV Sterilization.

Brown Park has two wells: a shallow well in the northwest corner of the property (Well 1), and a deeper well in the southwest corner (Well 2). Well 1 is exclusively for irrigation purposes and has no treatment. Well 2 supplies drinking water to the park for restrooms, a concession, drinking fountains, and a caretaker residence. The treatment system for Brown Park (Well 2) includes a water softener, a sediment filter, and NSF UV Sterilization.

The Ponder Park well supplies water to the caretaker and to the Harry Irving Shelter picnic shelter. The picnic shelter has signs posted at the picnic tables informing users that the water is intended for sanitation purposes only. Ponder Park well is not used by the public for potable water is therefore considered a private water system and not treated or filtered.

Table 1: Well Depths and Rated Capacities

Well Name	Well TagNumber	Year Drilled	Capacity (L/s)	Depth (m)
Williams Park Well	41893	1979	0.95	77
Brown Park Well 1	49289	1981	1.58	19
Brown Park Well 2	104834	2007	1.89	68
Ponder Park Well	50754	1982	0.63	67

System Inspection and Maintenance

The Township maintains the Williams and Brown Park water systems by servicing the treatment systems biannually, replacing the UV bulbs and adding salt to the softener as required. Water samples from these parks are collected weekly.

The Ponder Park water system is for sanitation only and is sampled for bacteria on a quarterly basis.

All three water systems are inspected by the Fraser Health Authority on an annual basis.

Emergency Response and Contingency Plan

In the event of a positive test for contaminated water, or in the case of field evidence indicating that water quality may be compromised in a parks water system, the Township will stop usage of water from the contaminated source and open communications with the Fraser Health Authority advising them of the situation. “Non-Potable” signage will be posted on all faucets in the affected park. All necessary steps will be taken by staff to determine the cause and to rectify the problem.

It is the responsibility of the Township to notify the public if an advisory is used and the Fraser Health appointed Medical Health Officer (MHO) will determine when an advisory may be lifted.

Operation Level and Staff Training

The Environmental Operators Certification Program (EOCP) has not yet rated the water systems in Williams and Brown Parks. Ponder Park is not classified as a public water system by the Fraser Health Authority and is also not rated by EOCP.

Water quality sampling in Township parks is undertaken by Utilities Operations staff and the operation and maintenance of the water systems is overseen by a Water Systems Operator IV.

Water Sampling and Testing Program

The Township conducts a regular sampling and testing program to maintain delivery of safe, high quality drinking water to park visitors. Weekly testing is performed at Williams and Brown Parks. The private well at Ponder Park is tested on a quarterly basis. The sampling and well locations are shown in Figure 2, Figure 3, and Figure 4. For a complete list of parameters tested, please see Appendix A – Sampling Results.

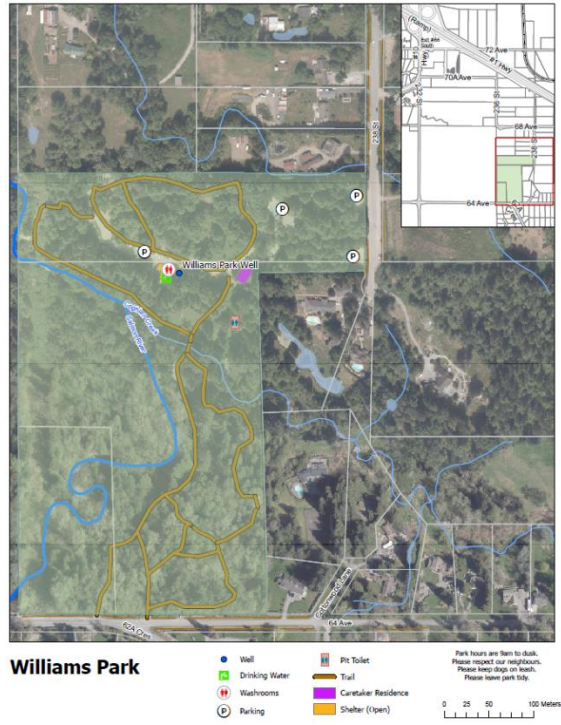


Figure 2: Williams Park Well Location



Figure 3: Brown Park Well Location

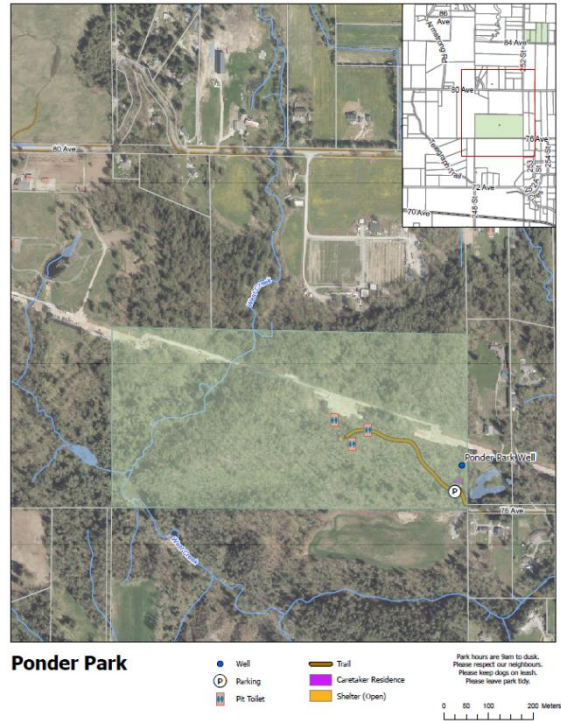


Figure 4: Ponder Park Well Location

Fewer than 5,000 people are served by the water supply in these parks annually. Based on the population served as well as the yearly volume of water consumed, the Township is required to submit no fewer than 4 samples per month. The current sampling program of weekly samples meets regulatory requirements as set by the DWPR in schedule B shown in Table 2.

Table 2: Frequency of Monitoring Samples for Prescribed Water Systems

Schedule B	
Frequency of Monitoring Samples for Prescribed Water Supply Systems	
Population Served by the Prescribed Water Supply System	Number of Samples Per Month
Less than 5,000	4
5,000 to 90,000	1 per 1,000 of population
More than 90,000	90 plus 1 per 10,000 of population in excess of 90,000

The wells in Williams and Brown Parks supply water for a caretaker, drinking fountains in the picnic areas, and for irrigation purposes. Water sampling and testing for E.coli and total coliform bacteria as described in Table 3 meets regulatory requirements as set by the GCDWQ.

Table 3: Water Quality Standards for Potable Water

Schedule A	
Water Quality Standards for Potable Water	
Parameter:	Standard:
Fecal coliform bacteria	No detectable fecal coliform bacteria per 100 ml
Escherichia coli	No detectable Escherichia coli per 100 ml
Total coliform bacteria	
a) 1 sample in a 30 day period	No detectable total coliform bacteria per 100 ml
b) More than 1 sample in a 30 day period	At least 90% of samples have no detectable total coliform bacterial per 100 ml and no sample has more than 10 total coliform bacteria per 100 ml

The well at Ponder Park provides potable water to the park caretaker and supplies water to the Harry Irving Picnic Shelter for sanitation purposes only. Ponder Park is not classified as a public water system by the Fraser Health Authority and is therefore not required to meet the BCDWPR Schedule B.

Microbial Results

The Maximum Allowable Concentration (MAC) for E. coli and Total Coliforms is zero detectable per 100 ml sample taken. In 2023 zero samples were positive for E.coli and two samples from Ponder Park returned positive for total coliforms. The Ponder Park wellhead was flushed and chlorinated and returned negative results. These results can be seen in Figure 5 below.

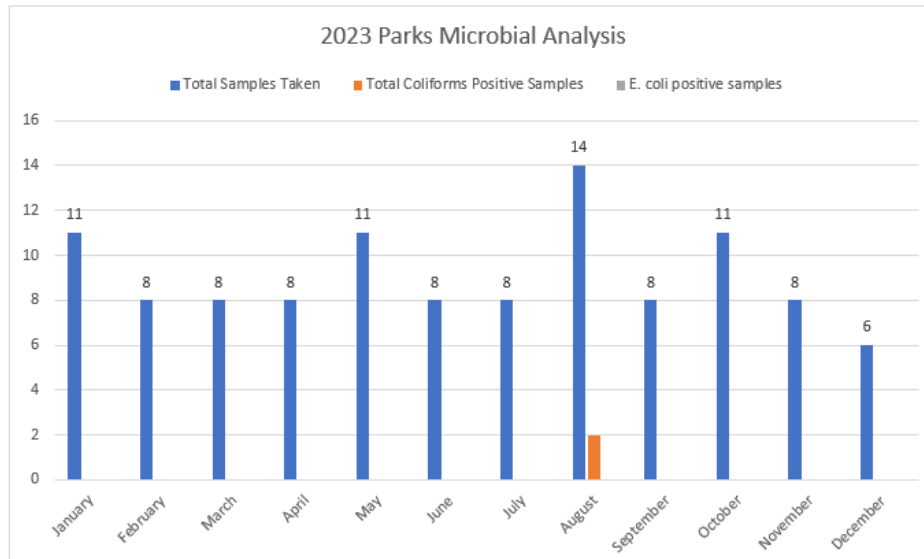


Figure 5: Microbial Analysis of Parks Water

Routine Parameters Results

Appendix A – Sampling Results presents the results for the 2023 analysis of the Parks source water. Brown park had an isolated high colour event in March however subsequent samples showed below the aesthetic objective. During the annual inspection in April 2023 of Ponder Park by Fraser Health a full chemical profile of the water was requested. Full chemical results for all three parks can be viewed in the appendices below.

Conclusion

The Township's water quality monitoring program for Williams Park, Brown Park, and Ponder Park ensures that safe and high quality drinking water is available to park visitors and staff. In 2023 the sampling protocols met the requirements set forth by the BCWQR and the GCDWQ.

Microbial samples did not detect E. coli in any samples. While two samples from Ponder Park tested positive for total coliforms, immediate corrective action was taken resulting in subsequent negative results.

The regular monitoring and prompt action to rectify less than desirable samples demonstrate the Township's commitment to providing safe drinking water to parks users and staff. Annual Fraser Health inspections further endorse the Township's commitment to maintaining high quality water within the parks systems.

Overall, the Township's approach to maintaining water quality in its parks ensures a safe and enjoyable experience for all parks users.

Appendix

Table A-1 Weekly Source Testing Results

Table A-2 Semi-annual Source Sample Result

Drinking Water System Annual Report

Emergency Response and Contingency Plan Contact Sheets

Sampling Point	Collection Date	Arsenic (mg/L)	Chlorine (mg/L)	Colour (TCU)	Conductivity (µS/cm)	E. coli (CFU/100ml)	HPC (CFU/ml)	Nitrate (mg/L)	pH	Temperature (°C)	Total Coliforms (CFU/100ml)	Turbidity (NTU)
Brown Park	2023-01-03			< 5.0	159	0	< 1.0		7.99**	13.5	0	0.26
Brown Park	2023-01-10			< 5.0	166	0	< 1.0		7.99**	13	0	0.16
Brown Park	2023-01-11	< 0.00010		< 5.0				< 0.020	6.36			< 0.10
Brown Park	2023-01-17			5.7	167	0	1.0		7.02**	13	0	0.48
Brown Park	2023-01-24			< 5.0	140	0	< 1.0		8.33**	13.2	0	0.38
Brown Park	2023-01-31			< 5.0	154.2	0	< 1.0		7.15**	10.8	0	0.12
Brown Park	2023-02-07			< 5.0	180	0	< 1.0		8.06**	12.0	0	0.64
Brown Park	2023-02-14			< 5.0	161				7.98**	11.0		0.17
Brown Park	2023-02-15				172	0	< 1.0		8.6	10.0	0	
Brown Park	2023-02-21			< 5.0	260	0	1.0		7.18**	12.0	0	0.34
Brown Park	2023-02-28			< 5.0		0	< 1.0		8.01		0	0.29
Brown Park	2023-03-07			16.4	265	0	< 1.0		7.32**	13.4	0	0.24
Brown Park	2023-03-14			< 5.0	264	0	1.0		7.52**	13.0	0	0.62
Brown Park	2023-03-21			< 5.0	151.8	0	1.0		8.16**	12.8	0	0.49
Brown Park	2023-03-28			< 5.0	190	0	< 1.0		7.96**	13.5	0	0.30
Brown Park	2023-04-04			< 5.0	265	0	< 1.0		7.61**	13.4	0	0.24
Brown Park	2023-04-11			< 5.0	168	0	1.0		8.13**	13.5	0	0.53
Brown Park	2023-04-18			< 5.0	243	0	< 1.0		7.46**	14.7	0	0.20
Brown Park	2023-04-25			< 5.0	161.2	0	< 1.0		8.08**	15.0	0	0.23
Brown Park	2023-05-02			< 5.0	165.1	0	< 1.0		7.35**	14.0	0	0.46
Brown Park	2023-05-09			8.6	255	0	< 1.0		7.10**	14.5	0	0.58
Brown Park	2023-05-16			< 5.0	166.3	0	2.0		8.10**	18.0	0	0.36
Brown Park	2023-05-23			< 5.0	166.0	0	< 1.0		8.08**	15.0	0	0.40
Brown Park	2023-05-30			< 5.0	135.9	0	< 1.0		7.72**	17.3	0	0.32
Brown Park	2023-06-06			< 5.0	276	0	< 1.0		6.76**	15.2	0	< 0.10
Brown Park	2023-06-13			< 5.0	162.5	0	1.0		8.09	16.5	0	0.39
Brown Park	2023-06-20			< 5.0	167.8	0	< 1.0		8.10	15.0	0	0.41
Brown Park	2023-06-27			< 5.0	260	0	1.0		6.29	15.5	0	0.57
Brown Park	2023-07-04			< 5.0	170	0	< 1.0		8.00**	17.6	0	0.51
Brown Park	2023-07-11			< 5.0	166.3	0	< 1.0		8.05	15.8	0	0.32
Brown Park	2023-07-18			< 5.0	165.0	0	1.0		7.90	18.0	0	0.39
Brown Park	2023-07-25			< 5.0	110.4	0	< 1.0		6.23	13.0	0	0.28
Brown Park	2023-08-01			< 5.0	168.6	0	< 1.0		8.09	15.4	0	0.41
Brown Park	2023-08-02	0.00171		< 5.0				< 0.020	7.97			0.35
Brown Park	2023-08-08			< 5.0	252.0	0	< 1.0		6.75	15.0	0	0.63
Brown Park	2023-08-15			< 5.0	181.3	0	< 1.0		7.54	17.4	0	0.32
Brown Park	2023-08-22			< 5.0	178.6	0	< 1.0		7.83	17.1	0	0.37

Sampling Point	Collection Date	Arsenic (mg/L)	Chlorine (mg/L)	Colour (TCU)	Conductivity (µS/cm)	E. coli (CFU/100ml)	HPC (CFU/ml)	Nitrate (mg/L)	pH	Temperature (°C)	Total Coliforms (CFU/100ml)	Turbidity (NTU)
Brown Park	2023-08-29			< 5.0	149	0	< 1.0		8.03	17.9	0	0.33
Brown Park	2023-09-05			< 5.0	171.5	0	< 1.0		8.15	17.0	0	0.32
Brown Park	2023-09-12			2.1	169.7	0	< 1.0		8.08	16.3	0	0.20
Brown Park	2023-09-19			< 2.0	165.5	0	< 1.0		7.86	10.8	0	0.24
Brown Park	2023-09-26			6.3	169.3	0	< 1.0		8.01	14.2	0	0.19
Brown Park	2023-10-03		0.05	2.1	172	0	< 1.0		7.60	13.8	0	0.68
Brown Park	2023-10-10			< 2.0	266.0	0	1.0		6.22	11.0	0	0.30
Brown Park	2023-10-17			2.1	260	0	< 1.0		7.24	10.4	0	0.25
Brown Park	2023-10-24			3.0	151.1	0	1.0		8.17	11.1	0	0.28
Brown Park	2023-10-31			< 2.0	170.6	0	< 1.0		6.18	10.0	0	0.23
Brown Park	2023-11-07			< 2.0	171.0	0	< 1.0		8.04	14.0	0	0.22
Brown Park	2023-11-14			2.3					NR			< 0.10
Brown Park	2023-11-16			2.9	174.0	0	< 1.0		8.12	10.5	0	< 0.10
Brown Park	2023-11-21			2.8	167.7	0	< 1.0		8.03	12.0	0	0.27
Brown Park	2023-11-28			< 2.0	167.0	0	< 1.0		8.07	14.0	0	0.40
Brown Park	2023-12-05			2.6	172.9	0	< 1.0		7.89	11.5	0	0.23
Brown Park	2023-12-12			2.1	259	0	< 1.0		7.06	9.9	0	0.26
Brown Park	2023-12-19			2.7	90.5	0	1.0		7.94**	11.4	0	0.33
Brown Park	2024-01-02			< 2.0	256	0	< 1.0		7.33**	14.0	0	0.24
Ponder Park	2023-01-11					0					0	
Ponder Park	2023-05-31					0		0.390	8.00		0	0.27
Ponder Park	2023-08-02					0		0.392	7.82		3.0	0.25
Ponder Park	2023-08-04					0					0	
Ponder Park	2023-08-05					0					1.0	
Ponder Park	2023-08-08					0					0	
Ponder Park	2023-10-24					0					0	
Williams Park	2023-01-03			< 5.0	285	0	< 1.0		6.68**	13.5	0	< 0.10
Williams Park	2023-01-10			< 5.0	267	0	< 1.0		6.67**	15	0	< 0.10
Williams Park	2023-01-11	0.00179		< 5.0				< 0.020	7.95			0.26
Williams Park	2023-01-17			6.9	255	0	< 1.0		6.73**	10	0	0.15
Williams Park	2023-01-24			< 5.0	287	0	< 1.0		7.34**	16.3	0	< 0.10
Williams Park	2023-01-31			< 5.0	262	0	2.0		7.58**	10.3	0	0.50
Williams Park	2023-02-07			< 5.0	260	0	< 1.0		6.78**	13.0	0	< 0.10
Williams Park	2023-02-14			< 5.0	219				6.70**	12.0		< 0.10
Williams Park	2023-02-15				272	0	< 1.0		7.17	13.0	0	
Williams Park	2023-02-21			< 5.0	163	0	< 1.0		7.48**	12.5	0	< 0.10
Williams Park	2023-02-28			< 5.0		0	< 1.0		6.78		0	< 0.10

Sampling Point	Collection Date	Arsenic (mg/L)	Chlorine (mg/L)	Colour (TCU)	Conductivity (µS/cm)	E. coli (CFU/100ml)	HPC (CFU/ml)	Nitrate (mg/L)	pH	Temperature (°C)	Total Coliforms (CFU/100ml)	Turbidity (NTU)
Williams Park	2023-03-07			14.6	167.6	0	< 1.0		7.51**	11.9	0	< 0.10
Williams Park	2023-03-14			< 5.0	168.8	0	< 1.0		7.41**	11.2	0	< 0.10
Williams Park	2023-03-21			< 5.0	254	0	< 1.0		6.68**	13.4	0	0.30
Williams Park	2023-03-28			< 5.0	255	0	< 1.0		6.88**	13.5	0	0.12
Williams Park	2023-04-04			< 5.0	170	0	< 1.0		7.48**	13.1	0	0.11
Williams Park	2023-04-11			5.1	258	0	< 1.0		6.67**	13.0	0	0.11
Williams Park	2023-04-18			< 5.0	163.7	0	< 1.0		7.41**	12.2	0	< 0.10
Williams Park	2023-04-25			< 5.0	255	0	< 1.0		6.55**	14.0	0	0.11
Williams Park	2023-05-02			< 5.0	254	0	< 1.0		6.64**	14.0	0	< 0.10
Williams Park	2023-05-09			< 5.0	167.5	0	< 1.0		7.34**	14.5	0	0.16
Williams Park	2023-05-16			< 5.0	254	0	1.0		6.44**	16.0	0	< 0.10
Williams Park	2023-05-23			< 5.0	260	0	< 1.0		6.67**	13.0	0	< 0.10
Williams Park	2023-05-30			< 5.0	136.7	0	< 1.0		6.98**	17.4	0	< 0.10
Williams Park	2023-06-06			< 5.0	453	0	< 1.0		8.10**	14.7	0	0.37
Williams Park	2023-06-13			< 5.0	254	0	< 1.0		6.27	14.5	0	0.10
Williams Park	2023-06-20			< 5.0	260	0	< 1.0		6.25	13.0	0	< 0.10
Williams Park	2023-06-27			< 5.0	168.7	0	< 1.0		7.76	18.0	0	0.10
Williams Park	2023-07-04			< 5.0	270	0	< 1.0		7.16**	14.1	0	< 0.10
Williams Park	2023-07-11			< 5.0	258	0	< 1.0		6.40	13.9	0	< 0.10
Williams Park	2023-07-18			< 5.0	259.0	0	1.0		6.37	14.0	0	0.11
Williams Park	2023-07-25			< 5.0	254	0	< 1.0		6.60	13.0	0	0.12
Williams Park	2023-08-01			< 5.0	338	0	< 1.0		6.79	14.0	0	0.21
Williams Park	2023-08-02	0.00013		< 5.0				< 0.020	6.34			0.11
Williams Park	2023-08-08			< 5.0	177.8	0	< 1.0		8.08	17.5	0	0.12
Williams Park	2023-08-15			< 5.0	271	0	< 1.0		8.30	14.6	0	0.18
Williams Park	2023-08-22			< 5.0	281	0	< 1.0		7.43	13.3	0	0.16
Williams Park	2023-08-29			< 5.0	228	0	< 1.0		6.86	13.3	0	0.15
Williams Park	2023-09-05			< 5.0	255.0	0	< 1.0		6.20	15.8	0	0.12
Williams Park	2023-09-12			< 2.0	289	0	< 1.0		7.11	12.6	0	< 0.10
Williams Park	2023-09-19			< 2.0	261	0	< 1.0		6.72	15.4	0	0.11
Williams Park	2023-09-26			< 2.0	261	0	< 1.0		6.81	11.6	0	< 0.10
Williams Park	2023-10-03		0.25	< 2.0	263	0	< 1.0		7.04	13.3	0	0.10
Williams Park	2023-10-10			< 2.0	170.6	0	< 1.0		8.10	13.5	0	< 0.10
Williams Park	2023-10-17			< 2.0	168.5	0	< 1.0		7.50	13.9	0	< 0.10
Williams Park	2023-10-24			2.5	236	0	8.0		6.73	11.4	0	< 0.10
Williams Park	2023-10-31			< 2.0	392	0	< 1.0		6.98	9.8	0	< 0.10
Williams Park	2023-11-07			2.8	249	0	1.0		7.11	11.7	0	< 0.10

Sampling Point	Collection Date	Arsenic (mg/L)	Chlorine (mg/L)	Colour (TCU)	Conductivity (µS/cm)	E. coli (CFU/100ml)	HPC (CFU/ml)	Nitrate (mg/L)	pH	Temperature (°C)	Total Coliforms (CFU/100ml)	Turbidity (NTU)
Williams Park	2023-11-16			< 2.0	255.0	0	< 1.0		6.50	10.0	0	0.24
Williams Park	2023-11-21			< 2.0	261	0	< 1.0		7.58	9.9	0	< 0.10
Williams Park	2023-11-28			< 2.0	258.0	0	< 1.0		7.60	9.5	0	< 0.10
Williams Park	2023-12-05			< 2.0	262	0	< 1.0		7.15	13.9	0	< 0.10
Williams Park	2023-12-12			4.0	168.7	0	< 1.0		7.51	10.3	0	< 0.10
Williams Park	2023-12-19			< 2.0	245	0	< 1.0		6.69**	9.6	0	< 0.10

	Sampling Point	Brown Park Summer	Brown Park Winter	Ponder Park Summer	Ponder Park Winter	Williams Park Summer	Williams Park Winter
Parameter	Collection Date	2023-08-02	2024-01-24	2023-08-02	2024-01-24	2023-08-02	2024-01-24
1,1,1 -Trichloroethane	mg/L					< 0.00050	< 0.00050
1,1,1,2-Tetrachloroethane	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	mg/L	< 0.00050	< 0.00050				
1,1,2 -Trichloroethane	mg/L					< 0.00050	< 0.00050
1,1,2,2-Tetrachloroethane	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,2-Trichloroethane	mg/L	< 0.00050	< 0.00050				
1,1-Dichloroethane	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
1,1-Dichloroethylene	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
1,2,3-Trichlorobenzene	ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2,4-Trichlorobenzene	ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichlorobenzene	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
1,2-Dichloroethane	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
1,2-Dichloropropane	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
1,3,5-Trimethylbenzene	ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Butadiene	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
1,3-Dichloropropane	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
1-Methylnaphthalene	mg/L	< 0.000050	< 0.000050			< 0.000050	< 0.000050
2,3,4,5-Tetrachlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,3,4,6-Tetrachlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,3,4-Trichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,3,5,6-Tetrachlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,3,5-Trichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,3,6-Trichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,3-Dichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4 + 2,5-Dichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4'-DDD (o,p-DDD)	ug/L			< 0.010		< 0.010	
2,4'-DDE (o,p-DDE)	ug/L			< 0.010		< 0.010	
2,4,5-Trichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4,6-Trichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dimethylphenol	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrophenol	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,6-Dimethylphenol	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	ug/L	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080
2-hydroxyphenol (Catechol)	ug/L	< 10	< 10	< 10	< 10	< 10	< 10
2-methyl-4-chlorophenoxyacetic acid / MCPA	ug/L	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
2-Methylnaphthalene	mg/L	< 0.00010	< 0.00010			< 0.00010	< 0.00010
2-Methylphenol	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3 and 4-Chlorophenol	ug/L	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080
3,4,5-Trichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

	Sampling Point	Brown Park Summer	Brown Park Winter	Ponder Park Summer	Ponder Park Winter	Williams Park Summer	Williams Park Winter
Parameter	Collection Date	2023-08-02	2024-01-24	2023-08-02	2024-01-24	2023-08-02	2024-01-24
3,4-Dichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
3,4-Dimethylphenol	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3,4-Methylphenol	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3,5-Dichlorophenol	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
4,4'-DDE (pp-DDE)	ug/L	< 0.010		< 0.010		< 0.010	
4,4'-DDT (pp-DDT)	ug/L	< 0.010		< 0.010		< 0.010	
4,6-Dinitro-o-cresol	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-methylphenol (Parachlorometa cresol)	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Nitrophenol	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
a-Chlordane	ug/L	< 0.050				< 0.050	
Acenaphthene	mg/L	< 0.000050	< 0.000050			< 0.000050	< 0.000050
Acenaphthylene	mg/L	< 0.000050	< 0.000050			< 0.000050	< 0.000050
Acridine	mg/L	< 0.000050	< 0.000050			< 0.000050	< 0.000050
Alachlor	ug/L	< 0.050		< 0.050		< 0.050	
Aldrin	ug/L	< 0.020		< 0.020		< 0.020	
Alkalinity (phenolphthalein, as CaCO3)	mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Alkalinity (total, as CaCO3)	mg/L	81	80	61	60	6.0	80
alpha-BHC	ug/L	< 0.050		< 0.050		< 0.050	
Aluminum (dissolved)	mg/L	< 0.0030	< 0.0030			< 0.0030	< 0.0030
Aluminum (total)	mg/L	< 0.0030	0.0034			0.0045	< 0.0030
Ammonia (total, as N)	mg/L	< 0.015	0.22	< 0.015	< 0.015	< 0.015	< 0.015
Anthracene	mg/L	< 0.000010	< 0.000010			< 0.000010	< 0.000010
Antimony (dissolved)	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
Antimony (total)	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
Aspon	ug/L	< 0.050		< 0.050		< 0.050	
Atrazine	ug/L	< 0.050		< 0.050		< 0.050	
Azinphos-ethyl	ug/L	< 0.20		< 0.20		< 0.20	
Barium (dissolved)	mg/L	< 0.0010	0.0034			< 0.0010	< 0.0010
Barium (total)	mg/L	< 0.0010	0.0033			< 0.0010	< 0.0010
Benfluralin	ug/L	< 0.050		< 0.050		< 0.050	
Benzene	mg/L	< 0.00040	< 0.00040			< 0.00040	< 0.00040
Benzo(a)anthracene	mg/L	< 0.000010	< 0.000010			< 0.000010	< 0.000010
Benzo(a)pyrene	mg/L	< 0.0000050	< 0.0000050			< 0.0000050	< 0.0000050
Benzo(b,j)fluoranthene	mg/L	< 0.000030	< 0.000030			< 0.000030	< 0.000030
Benzo(g,h,i)perylene	mg/L	< 0.000050	< 0.000050			< 0.000050	< 0.000050
Benzo(k)fluoranthene	mg/L	< 0.000050	< 0.000050			< 0.000050	< 0.000050
Beryllium (dissolved)	mg/L	< 0.00010	< 0.00010			< 0.00010	< 0.00010
Beryllium (total)	mg/L	< 0.00010	< 0.00010			< 0.00010	< 0.00010
beta-BHC	ug/L	< 0.050		< 0.050		< 0.050	
Bicarbonate (as HCO3)	mg/L	98	98	75	73	7.3	97
Bismuth (dissolved)	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
Bismuth (total)	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
Boron (dissolved)	mg/L	< 0.05	0.088			0.091	< 0.05
Boron (total)	mg/L	< 0.05	0.077			0.078	< 0.05
Bromacil	ug/L	< 0.050		< 0.050		< 0.050	
Bromobenzene	ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromodichloromethane	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010

	Sampling Point	Brown Park Summer	Brown Park Winter	Ponder Park Summer	Ponder Park Winter	Williams Park Summer	Williams Park Winter
Parameter	Collection Date	2023-08-02	2024-01-24	2023-08-02	2024-01-24	2023-08-02	2024-01-24
Bromoform	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
Bromophos	ug/L	< 0.050		< 0.050		< 0.050	
Bromophos-ethyl	ug/L	< 0.050		< 0.050		< 0.050	
Butylate	ug/L	< 0.050		< 0.050		< 0.050	
Cadmium (dissolved)	mg/L	< 0.000010	< 0.000010			< 0.000010	< 0.000010
Cadmium (total)	mg/L	< 0.000010	< 0.000010			< 0.000010	< 0.000010
Calcium (dissolved)	mg/L	< 0.050	4.11	19.3	18.0	< 0.050	< 0.050
Calcium (total)	mg/L	< 0.050	3.83	16.1	16.7	< 0.050	< 0.050
Captan	ug/L	< 0.10		< 0.10		< 0.10	
Carbon tetrachloride	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
Carbonate (as CO3)	mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbophenothion - solids (dry weight)	ug/L	< 0.30		< 0.30		< 0.30	
Chlorate	mg/L	< 1.0	< 0.10	< 1.0	< 0.10	< 1.0	< 0.10
Chlorbenside	ug/L	< 0.050		< 0.050		< 0.050	
Chlorfenson	ug/L	< 0.050		< 0.050		< 0.050	
Chlorfenvinphos	ug/L	< 0.050		< 0.050		< 0.050	
Chloride	mg/L	2.7	< 1.0	2.0	2.2	67	2.9
Chlorite	mg/L	< 1.0	< 0.10	< 1.0	< 0.10	< 1.0	< 0.10
Chlormephos	ug/L	< 0.050		< 0.050		< 0.050	
Chlorobenzene	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
Chloroethane	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
Chloroform	mg/L	< 0.0010	< 0.0010			0.0017	< 0.0010
Chloromethane	mg/L					< 0.0010	< 0.0010
Chlorophenols (total)	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chloropropham	ug/L	< 0.050		< 0.050		< 0.050	
Chlorothalonil	ug/L	< 0.050		< 0.050		< 0.050	
Chlorpyrifos	ug/L	< 0.010		< 0.010		< 0.010	
Chlorthiophos	ug/L	< 0.050		< 0.050		< 0.050	
Chromium (dissolved)	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
Chromium (total)	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
Chrysene	mg/L	< 0.000020	< 0.000020			< 0.000020	< 0.000020
cis-1,2-Dichloroethylene	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
cis-1,3-Dichloropropene	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
Cobalt (dissolved)	mg/L	< 0.00020	< 0.00020			< 0.00020	< 0.00020
Cobalt (total)	mg/L	< 0.00020	< 0.00020			< 0.00020	< 0.00020
Copper (dissolved)	mg/L	0.00038	0.00069			0.00246	< 0.00020
Copper (total)	mg/L	< 0.00050	< 0.00050			0.00197	0.00060
Cyanazine	ug/L	< 0.050		< 0.050		< 0.050	
Cyanide (total)	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Cyanophos	ug/L	< 0.050		< 0.050		< 0.050	
DCPA	ug/L	< 0.050		< 0.050		< 0.050	
delta-BHC	ug/L	< 0.050		< 0.050		< 0.050	
Dibenz(a,h)anthracene	mg/L	< 0.0000030	< 0.0000030				
Dibenzo(a,h)anthracene	mg/L					< 0.0000030	< 0.0000030
Dibromochloromethane	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
Dichlorodifluoromethane / Freon 12	ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichloromethane	mg/L	< 0.0020	< 0.0020			< 0.0020	< 0.0020
Dichlorophenols (total)	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

	Sampling Point	Brown Park Summer	Brown Park Winter	Ponder Park Summer	Ponder Park Winter	Williams Park Summer	Williams Park Winter
Parameter	Collection Date	2023-08-02	2024-01-24	2023-08-02	2024-01-24	2023-08-02	2024-01-24
Dissolved Organic Carbon	mg/L	< 0.50	3.7	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	mg/L	< 0.00040	< 0.00040			< 0.00040	< 0.00040
Ethylene dibromide / EDB	ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Fluoranthene	mg/L	< 0.000020	< 0.000020			< 0.000020	< 0.000020
Fluorene	mg/L	< 0.000050	< 0.000050			< 0.000050	< 0.000050
Fluoride	mg/L	0.10	0.13	< 0.050	< 0.050	< 0.050	0.11
g-Chlordane	ug/L	< 0.050				< 0.050	
Hardness (dissolved, as CaCO3)	mg/L	< 0.50	18.1	76.9	71.3	< 0.50	< 0.50
Hardness (total, as CaCO3)	mg/L	< 0.50	16.3	65.0	65.1	< 0.50	< 0.50
Hexachlorobutadiene	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hydroquinone	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hydroxide (as OH)	mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Indeno(1,2,3-c,d)pyrene	mg/L	< 0.000050	< 0.000050			< 0.000050	< 0.000050
Iron (dissolved)	mg/L	0.0121	0.0234			< 0.0050	0.0079
Iron (total)	mg/L	0.025	0.082			< 0.01	0.047
Isopropylbenzene	ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Lead (dissolved)	mg/L	< 0.00020	< 0.00020			0.00224	< 0.00020
Lead (total)	mg/L	< 0.00020	0.00020			0.00214	< 0.00020
Lithium (dissolved)	mg/L	< 0.0020	< 0.0020			< 0.0020	< 0.0020
Lithium (total)	mg/L	< 0.0020	< 0.0020			< 0.0020	< 0.0020
m- + p- Xylene	mg/L	< 0.00040	< 0.00040			< 0.00040	< 0.00040
Magnesium (dissolved)	mg/L	< 0.050	1.89	6.94	6.43	< 0.050	< 0.050
Magnesium (total)	mg/L	< 0.050	1.64	5.98	5.67	< 0.050	< 0.050
Manganese (dissolved)	mg/L	< 0.0010	0.0135			< 0.0010	< 0.0010
Manganese (total)	mg/L	< 0.0010	0.0128			0.0011	< 0.0010
Mercury (dissolved)	mg/L	< 0.0000019	< 0.000030			< 0.0000019	< 0.000030
Mercury (total)	mg/L	< 0.0000019	< 0.000030			< 0.0000019	< 0.000030
Methyl bromide (Bromomethane)	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl chloride	mg/L	< 0.0010	< 0.0010				
Methyl tert-butyl ether / MTBE	mg/L	< 0.0040	< 0.0040			< 0.0040	< 0.0040
Molybdenum (dissolved)	mg/L	0.0020	0.0028			< 0.0010	0.0018
Molybdenum (total)	mg/L	0.0016	0.0025			< 0.0010	0.0016
Monochlorophenols (total)	ug/L	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080
Naphthalene	mg/L	< 0.00010	< 0.00010			< 0.00010	< 0.00010
Nickel (dissolved)	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
Nickel (total)	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
Nitrate + Nitrite (as N)	mg/L	< 0.020	< 0.020	0.451	0.506	< 0.020	< 0.020
Nitrioltriacetic acid / NTA	mg/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Nitrite (as N)	mg/L	< 0.0050	< 0.0050	0.0593	0.0531	< 0.0050	< 0.0050
Non-chlorinated Phenols	ug/L	< 10	< 10	< 10	< 10	< 10	< 10
o-Xylene	mg/L	< 0.00040	< 0.00040			< 0.00040	< 0.00040
Pentachlorophenol / PCP	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/L	< 0.000050	< 0.000050			< 0.000050	< 0.000050

	Sampling Point	Brown Park Summer	Brown Park Winter	Ponder Park Summer	Ponder Park Winter	Williams Park Summer	Williams Park Winter
Parameter	Collection Date	2023-08-02	2024-01-24	2023-08-02	2024-01-24	2023-08-02	2024-01-24
Phenol	ug/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phosphorus (total)	mg/L	0.14	0.22	0.027	0.026	< 0.0030	0.14
Potassium (dissolved)	mg/L	0.200	7.24	1.90	1.75	1.47	0.134
Potassium (total)	mg/L	0.162	6.57	1.56	1.60	1.14	0.119
Pyrene	mg/L	< 0.000020	< 0.000020			< 0.000020	< 0.000020
Quinoline	mg/L	< 0.000020	< 0.000020			< 0.000020	< 0.000020
Resorcinol	ug/L	< 10	< 10	< 10	< 10	< 10	< 10
Selenium (dissolved)	mg/L	< 0.00010	< 0.00010			< 0.00010	< 0.00010
Selenium (total)	mg/L	< 0.00010	< 0.00010			< 0.00010	< 0.00010
Silicon (dissolved, as Si)	mg/L	14.9	6.76			6.86	14.8
Silicon (total, as Si)	mg/L	13	6.32			5.77	13
Silver (dissolved)	mg/L	< 0.000020	< 0.000020			< 0.000020	< 0.000020
Silver (total)	mg/L	< 0.000020	< 0.000020			< 0.000020	< 0.000020
Sodium (dissolved)	mg/L	43.5	30.8	4.09	3.66	46.8	38.7
Sodium (total)	mg/L	35.3	27.7	3.34	3.32	37.7	32.1
Strontium (dissolved)	mg/L	< 0.0010	0.0281			< 0.0010	< 0.0010
Strontium (total)	mg/L	< 0.0010	0.0257			< 0.0010	< 0.0010
Styrene	mg/L	< 0.00050	< 0.00050			0.00090	< 0.00050
Sulfur (dissolved)	mg/L	< 3.0	4.5	6.4	5.6	< 3.0	< 3.0
Sulfur (total)	mg/L	< 3.0	3.7	4.5	4.7	< 3.0	< 3.0
Sulphate	mg/L	2.8	14	17	18	< 1.0	2.9
Sulphide (total, as H2S)	mg/L	0.0048	0.018	< 0.0020	< 0.0020	< 0.0020	0.0042
Sulphide (total, as S)	mg/L	0.0045	0.017	< 0.0018	< 0.0018	< 0.0018	0.0040
Tetrachloroethylene / PCE	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
Thallium (dissolved)	mg/L	< 0.000010	< 0.000010			< 0.000010	< 0.000010
Thallium (total)	mg/L	< 0.000010	< 0.000010			< 0.000010	< 0.000010
Tin (dissolved)	mg/L	< 0.0050	< 0.0050			< 0.0050	< 0.0050
Tin (total)	mg/L	< 0.0050	< 0.0050			< 0.0050	< 0.0050
Titanium (dissolved)	mg/L	< 0.0050	< 0.0050			< 0.0050	< 0.0050
Titanium (total)	mg/L	< 0.0050	< 0.0050			< 0.0050	< 0.0050
Toluene	mg/L	< 0.00040	< 0.00040			< 0.00040	< 0.00040
Total Dissolved Solids / TDS	mg/L	120	120	110	110	140	130
Total HMW PAH	ug/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Total LMW PAH	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Organic Carbon / TOC	mg/L	0.54	0.56	< 0.50	< 0.50	< 0.50	< 0.50
Total PAH	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Tetrachlorophenols	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Trichlorophenols	ug/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
trans-1,2-Dichloroethylene	mg/L	< 0.0010	< 0.0010			< 0.0010	< 0.0010
trans-1,3-Dichloropropene	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene / TCE	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
Trichlorofluoromethane	mg/L	< 0.0040	< 0.0040			< 0.0040	< 0.0040
Uranium (dissolved)	mg/L	< 0.00010	< 0.00010			< 0.00010	< 0.00010
Uranium (total)	mg/L	< 0.00010	< 0.00010			< 0.00010	< 0.00010
Vanadium (dissolved)	mg/L	< 0.0050	< 0.0050			< 0.0050	< 0.0050
Vanadium (total)	mg/L	< 0.0050	< 0.0050			< 0.0050	< 0.0050

	Sampling Point	Brown Park Summer	Brown Park Winter	Ponder Park Summer	Ponder Park Winter	Williams Park Summer	Williams Park Winter
Parameter	Collection Date	2023-08-02	2024-01-24	2023-08-02	2024-01-24	2023-08-02	2024-01-24
Vinyl chloride	mg/L	< 0.00050	< 0.00050			< 0.00050	< 0.00050
Volatile Hydrocarbons water C6-C10 (VHw)	ug/L	< 300	< 300	< 300	< 300	< 300	< 300
Volatile Petroleum Hydrocarbons C06-C10 (less BTEX)	ug/L	< 300	< 300	< 300	< 300	< 300	< 300
Xylenes (total)	mg/L	< 0.00040	< 0.00040			< 0.00040	< 0.00040
Zinc (dissolved)	mg/L	< 0.0050	< 0.0050			0.0088	< 0.0050
Zinc (total)	mg/L	< 0.0050	< 0.0050			0.0075	< 0.0050
Zirconium (dissolved)	mg/L	< 0.00010	< 0.00010			< 0.00010	< 0.00010
Zirconium (total)	mg/L	< 0.00010	< 0.00010			< 0.00010	< 0.00010

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, (year)

Water System

Water System Owner

Primary Contact Name (Operator or Manager)

Phone Number (Operator or Manager)

E-mail (Operator or Manager)

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

Deep Well Shallow Well Surface Water Other

If other, specify details:

Does the Drinking Water System have Primary Disinfection?

Yes No

Chlorination Ultraviolet Light Ozone Other

If other, specify details:

Does the Drinking Water System have Secondary Disinfection?

Yes No

Chlorination Other

If other, specify details:

Does the Drinking Water System have Filtration?

Yes No

Check all boxes that apply

Cartridge Filter(s) Carbon Filter Sand Filtration Reverse Osmosis Other

If other, specify details:

PUBLIC REPORTING

Emergency Response & Contingency Plan (ERCP)

Is your ERCP up to Date? Yes No

How do you Inform the System Users of the ERCP?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details)

Drinking Water System Annual Report

How do you Inform the System Users of the Annual Report?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details)

COMPLIANCE WITH OPERATING PERMIT

List the conditions that have been placed on your Operating Permit (if you have conditions, these will be stated on your permit):

Are you in compliance with the conditions listed on your Operating Permit? Yes No N/A

BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS

How many bacteriological samples were collected during this reporting period? _____

What is the minimum required sampling frequency for this system? (#samples/month) _____

Additional sampling details:

Was the minimum required sampling frequency achieved? Yes No

Comments:

Bacteriological summary attached to this report? Yes No

If no, how do the users of the system view the results?

WATER QUALITY STANDARDS FOR POTABLE WATER

Parameter:	Standard:	Did this system meet standard?	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No

If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in the table below; attach additional sheets if necessary.

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action

CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD

Was any chemical sampling conducted during reporting period? Yes No

If no, when were the last chemical samples conducted for this system?

(date) Don't Know Never

If yes, did all water samples meet the Guidelines for Canadian Drinking Water Quality?

Yes No

If any water samples did not meet the Guidelines for Canadian Drinking Water Quality, record the results in the table below; attach additional sheets if necessary.

Parameter	Result	Corrective Action / Treatment / Comments

ADDITIONAL TESTING

Does the system have analyzers for continuous monitoring? Yes No

If yes, check all boxes that apply:

Chlorine Turbidity Other (details)

Are the results available on request?

If any additional testing or sampling was conducted, record results in the table below; attach additional sheets if necessary.

Additional Testing & Reason for Sampling	Corrective Action Taken

WATER QUALITY COMPLAINTS

Were there any water quality complaints in this reporting period? (e.g. taste, odour, colour etc.) Yes No

If yes, complete the table below; attach additional sheets if necessary.

Date	Water Quality Complaint	Corrective Action / Treatment

OPERATIONAL PROBLEMS

Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity etc.). Yes No

If yes, complete the table below; attach additional sheets if necessary.

Incident Date	Type of Operational Problem	Corrective Action Taken

MAJOR UPGRADES/REPAIRS & EXPENSES

Were there any major upgrades/repairs or any major costs incurred during this reporting period? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Major Upgrades/Expenses	Details
Improvements required by DWO	
Additions/changes to system	
Purchase or install new equipment	
Equipment repair or replacement	
Annual maintenance of system	
Specialist report	
Other	

FUTURE IMPROVEMENTS

Are there any plans for future improvements? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Future Upgrades or Improvements	Estimated Date of Completion

DATE COMPLETED:	COMPLETED BY:
------------------------	----------------------

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, (year)

Water System

Water System Owner

Primary Contact Name (Operator or Manager)

Phone Number (Operator or Manager)

E-mail (Operator or Manager)

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

Deep Well Shallow Well Surface Water Other

If other, specify details:

Does the Drinking Water System have Primary Disinfection?

Yes No

Chlorination Ultraviolet Light Ozone Other

If other, specify details:

Does the Drinking Water System have Secondary Disinfection?

Yes No

Chlorination Other

If other, specify details:

Does the Drinking Water System have Filtration?

Yes No

Check all boxes that apply

Cartridge Filter(s) Carbon Filter Sand Filtration Reverse Osmosis Other

If other, specify details:

PUBLIC REPORTING

Emergency Response & Contingency Plan (ERCP)

Is your ERCP up to Date? Yes No

How do you Inform the System Users of the ERCP?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details)

Drinking Water System Annual Report

How do you Inform the System Users of the Annual Report?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details)

COMPLIANCE WITH OPERATING PERMIT

List the conditions that have been placed on your Operating Permit (if you have conditions, these will be stated on your permit):

Are you in compliance with the conditions listed on your Operating Permit? Yes No N/A

BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS

How many bacteriological samples were collected during this reporting period? _____

What is the minimum required sampling frequency for this system? (#samples/month) _____

Additional sampling details:

Was the minimum required sampling frequency achieved? Yes No

Comments:

Bacteriological summary attached to this report? Yes No

If no, how do the users of the system view the results?

WATER QUALITY STANDARDS FOR POTABLE WATER

Parameter:	Standard:	Did this system meet standard?	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No

If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in the table below; attach additional sheets if necessary.

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action

CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD

Was any chemical sampling conducted during reporting period? Yes No

If no, when were the last chemical samples conducted for this system?

(date) Don't Know Never

If yes, did all water samples meet the Guidelines for Canadian Drinking Water Quality?

Yes No

If any water samples did not meet the Guidelines for Canadian Drinking Water Quality, record the results in the table below; attach additional sheets if necessary.

Parameter	Result	Corrective Action / Treatment / Comments

ADDITIONAL TESTING

Does the system have analyzers for continuous monitoring? Yes No

If yes, check all boxes that apply:

Chlorine Turbidity Other (details)

Are the results available on request?

If any additional testing or sampling was conducted, record results in the table below; attach additional sheets if necessary.

Additional Testing & Reason for Sampling	Corrective Action Taken

WATER QUALITY COMPLAINTS

Were there any water quality complaints in this reporting period? (e.g. taste, odour, colour etc.) Yes No

If yes, complete the table below; attach additional sheets if necessary.

Date	Water Quality Complaint	Corrective Action / Treatment

OPERATIONAL PROBLEMS

Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity etc.). Yes No

If yes, complete the table below; attach additional sheets if necessary.

Incident Date	Type of Operational Problem	Corrective Action Taken

MAJOR UPGRADES/REPAIRS & EXPENSES

Were there any major upgrades/repairs or any major costs incurred during this reporting period? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Major Upgrades/Expenses	Details
Improvements required by DWO	
Additions/changes to system	
Purchase or install new equipment	
Equipment repair or replacement	
Annual maintenance of system	
Specialist report	
Other	

FUTURE IMPROVEMENTS

Are there any plans for future improvements? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Future Upgrades or Improvements	Estimated Date of Completion

DATE COMPLETED:	COMPLETED BY:
------------------------	----------------------

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, (year)

Water System

Water System Owner

Primary Contact Name (Operator or Manager)

Phone Number (Operator or Manager)

E-mail (Operator or Manager)

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

Deep Well Shallow Well Surface Water Other

If other, specify details:

Does the Drinking Water System have Primary Disinfection?

Yes No

Chlorination Ultraviolet Light Ozone Other

If other, specify details:

Does the Drinking Water System have Secondary Disinfection?

Yes No

Chlorination Other

If other, specify details:

Does the Drinking Water System have Filtration?

Yes No

Check all boxes that apply

Cartridge Filter(s) Carbon Filter Sand Filtration Reverse Osmosis Other

If other, specify details:

PUBLIC REPORTING

Emergency Response & Contingency Plan (ERCP)

Is your ERCP up to Date? Yes No

How do you Inform the System Users of the ERCP?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details)

Drinking Water System Annual Report

How do you Inform the System Users of the Annual Report?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details)

COMPLIANCE WITH OPERATING PERMIT

List the conditions that have been placed on your Operating Permit (if you have conditions, these will be stated on your permit):

Are you in compliance with the conditions listed on your Operating Permit? Yes No N/A

BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS

How many bacteriological samples were collected during this reporting period? _____

What is the minimum required sampling frequency for this system? (#samples/month) _____

Additional sampling details: _____

Was the minimum required sampling frequency achieved? Yes No

Comments: _____

Bacteriological summary attached to this report? Yes No

If no, how do the users of the system view the results?

WATER QUALITY STANDARDS FOR POTABLE WATER

Parameter:	Standard:	Did this system meet standard?	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No

If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in the table below; attach additional sheets if necessary.

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action

CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD

Was any chemical sampling conducted during reporting period? Yes No

If no, when were the last chemical samples conducted for this system?

(date) Don't Know Never

If yes, did all water samples meet the Guidelines for Canadian Drinking Water Quality?

Yes No

If any water samples did not meet the Guidelines for Canadian Drinking Water Quality, record the results in the table below; attach additional sheets if necessary.

Parameter	Result	Corrective Action / Treatment / Comments

ADDITIONAL TESTING

Does the system have analyzers for continuous monitoring? Yes No

If yes, check all boxes that apply:

Chlorine Turbidity Other (details)

Are the results available on request?

If any additional testing or sampling was conducted, record results in the table below; attach additional sheets if necessary.

Additional Testing & Reason for Sampling	Corrective Action Taken

WATER QUALITY COMPLAINTS

Were there any water quality complaints in this reporting period? (e.g. taste, odour, colour etc.) Yes No

If yes, complete the table below; attach additional sheets if necessary.

Date	Water Quality Complaint	Corrective Action / Treatment

OPERATIONAL PROBLEMS

Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity etc.). Yes No

If yes, complete the table below; attach additional sheets if necessary.

Incident Date	Type of Operational Problem	Corrective Action Taken

MAJOR UPGRADES/REPAIRS & EXPENSES

Were there any major upgrades/repairs or any major costs incurred during this reporting period? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Major Upgrades/Expenses	Details
Improvements required by DWO	
Additions/changes to system	
Purchase or install new equipment	
Equipment repair or replacement	
Annual maintenance of system	
Specialist report	
Other	

FUTURE IMPROVEMENTS

Are there any plans for future improvements? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Future Upgrades or Improvements	Estimated Date of Completion

DATE COMPLETED:	COMPLETED BY:
------------------------	----------------------

EMERGENCY RESPONSE & CONTINGENCY PLAN - CONTACT SHEET

Water System Name: Brown Park

Date Prepared: June 28, 2024

Emergency Contacts	Name	Phone	E-mail
Primary Contact (Operator/Person in Charge)	Rick Campagna	604-340-5088	rcampagna@tol.ca
Secondary Contact (Back-up operator)	Brian Jones	604-340-5335	bjones@tol.ca
Water System Owner	Township of Langley	604-532-7300	
Fraser Health Contacts			
Environmental Health Officer	EHO: Barbara Haworth	604-870-7920	barb.haworth@fraserhealth.ca
	Admin. Support	604-870-7903	Hpland@fraserhealth.ca
Medical Health Officer	MHO line	604-587-3828 or 1-877-342-6647	
Fraser Health After Hours Contact (>4:30 pm & weekends)	Fraser Health On-Call Staff	604-527-4806	
Emergency Contacts			
Alternative Water Supply i.e. bottled water or bulk water hauler	Bottled water for caretaker		
Plumber	Township of Langley Facilities	604-532-7300	
Excavator	Township of Langley Construction/Utilities	604-532-7300	
Electrician	Township of Langley Facilities	604-532-7300	
Well Driller/ Pump Installer	Precision service and pumps	604-850-7010	
Utilities i.e. B.C. Hydro	BC Hydro	1-800-224-9376	

EMERGENCY RESPONSE & CONTINGENCY PLAN - CONTACT SHEET

Water System Name: Ponder Park

Date Prepared: June 28, 2024

Emergency Contacts	Name	Phone	E-mail
Primary Contact (Operator/Person in Charge)	Rick Campagna	604-340-5088	rcampagna@tol.ca
Secondary Contact (Back-up operator)	Brian Jones	604-340-5335	bjones@tol.ca
Water System Owner	Township of Langley	604-532-7300	
Fraser Health Contacts			
Environmental Health Officer	EHO: Barbara Haworth	604-870-7920	barb.haworth@fraserhealth.ca
	Admin. Support	604-870-7903	Hpland@fraserhealth.ca
Medical Health Officer	MHO line	604-587-3828 or 1-877-342-6647	
Fraser Health After Hours Contact (>4:30 pm & weekends)	Fraser Health On-Call Staff	604-527-4806	
Emergency Contacts			
Alternative Water Supply i.e. bottled water or bulk water hauler	Bottled water for caretaker		
Plumber	Township of Langley Facilities	604-532-7300	
Excavator	Township of Langley Construction/Utilities	604-532-7300	
Electrician	Township of Langley Facilities	604-532-7300	
Well Driller/ Pump Installer	Precision service and pumps	604-850-7010	
Utilities i.e. B.C. Hydro	BC Hydro	1-800-224-9376	

EMERGENCY RESPONSE & CONTINGENCY PLAN - CONTACT SHEET

Water System Name: Williams Park

Date Prepared: June 28, 2024

Emergency Contacts	Name	Phone	E-mail
Primary Contact (Operator/Person in Charge)	Rick Campagna	604-340-5088	rcampagna@tol.ca
Secondary Contact (Back-up operator)	Brian Jones	604-340-5335	bjones@tol.ca
Water System Owner	Township of Langley	604-532-7300	
Fraser Health Contacts			
Environmental Health Officer	EHO: Barbara Haworth	604-870-7920	barb.haworth@fraserhealth.ca
	Admin. Support	604-870-7903	Hpland@fraserhealth.ca
Medical Health Officer	MHO line	604-587-3828 or 1-877-342-6647	
Fraser Health After Hours Contact (>4:30 pm & weekends)	Fraser Health On-Call Staff	604-527-4806	
Emergency Contacts			
Alternative Water Supply i.e. bottled water or bulk water hauler	Bottled water for caretaker		
Plumber	Township of Langley Facilities	604-532-7300	
Excavator	Township of Langley Construction/Utilities	604-532-7300	
Electrician	Township of Langley Facilities	604-532-7300	
Well Driller/ Pump Installer	Precision service and pumps	604-850-7010	
Utilities i.e. B.C. Hydro	BC Hydro	1-800-224-9376	

