

Site ID	Date (yyyy-mm-dd)	Time of Collection (24h)	Field Temp. (°C)	Dissolved Oxygen (mg/L)	Field Conductivity (uS/cm <sup>2</sup> )	pH (Field)	ORP (mV)
Q2	4/5/2021	10:15:00	6	12.93	586	DNU	NM
Q2	5/4/2021	09:10:00	10.7	10.15	549	DNU	NM
Q2	6/1/2021	09:33:00	15.8	8.84	533	DNU	NM
Q2	7/5/2021	09:04:00	21.3	7.45	520	8.09	NM
Q2	8/3/2021	10:02:00	18.4	7.86	574	8.07	NM
Q2	9/7/2021	09:14:00	19.2	7.72	529	8.04	NM
Q2	10/4/2021	09:08:00	16	8.8	635	8.21	
Q2	11/1/2021						
Q2	4/11/2022	10:30:00	4.7	12.96	572	8.49	NM
Q2	5/2/2022	11:49:00	10.2	12.02	562	8.42	NM
Q2	6/6/2022	10:35:00	15.5	7.96	540	7.83	NM
Q2	7/4/2022	11:11:00	19.8	8.46	491	7.83	NM
Q2	7/11/2022	10:29:00	20.4	7.44	511	7.84	NM
Q2	8/2/2022	10:49:00	21.7	8.31	491.7	7.94	153.20
Q2	9/6/2022	10:48:00	18.3	8.3	518	7.93	194.00
Q2	10/3/2022	10:43:00	9.4	11.2	550	8.07	85.30
Q2	11/1/2022	10:30:00	9.7	11.22	617	8.09	146.50
Q2	4/3/2023	12:10:00	4.3	12.84	435.2	8.08	174.00
Q2	5/2/2023	10:50:00	7.2	12.17	545	8.09	5.30

DNU = Do not use (issues with sensor)

NM = Not measurement

FNU (Turbidity)	E.Coli (CFU/100mL)	Comments	Alkalinity; total (mg/L CaO3)	Carbon; dissolved inorganic (mg/L)
4.68	20	slightly turbid, good flow		
5.05	68	slightly turbid	240.1	NA
4.66	72	slightly turbid	212.8	53.7
7.56	64	turbid, good flow	179.4	45.6
6.82	128	turbid, good flow	220	56.7
3.56	Gap	slightly turbid, good flow	192	46.7
4.60	161	slightly turbid, good flow	270	69.5
				Construction
9.36	58	fairly turbid	257	60.5
2.49	22	slightly turbid, good flow	254	62
0.96	104	slow stream flow, some algae	223	54.6
2.30	44	slow flow, some algae		
6.00	Gap	cloudy, some algae and aquatic veg.	193	46.5
3.93	140	slow flow, some algae, turbid	191	45.4
3.20	62	slow flow, film	207	50.9
6.51	130	moderate flows	233	56.2
2.25	22	clear, slow flow	288	65.6
51.73	60	turbid, high flows	186.9	46.1
8.24	58	slightly turbid, good flow	231.6	58.4

Carbon; dissolved organic (mg/L)	Chloride (mg/L)	Lab Conductivity (uS/cm)	Nitrate; (mg/L)	Nitrogen; ammonia + ammonium (mg/L)	Nitrogen; nitrate+nitrite (mg/L)	Nitrogen; nitrite (mg/L)
					No sample results	
NA	22.5	559	1.3	0.06	1.3	0.012
3.88	26.3	531	NA	0.04	0.45	0.007
5.29	25.5	513	5.58	0.04	5.63	0.046
4.87	35.8	588	0.95	0.03	0.96	0.007
4.07	37.2	512	0.08	0.06	0.08	0.004
4.71	24.8	638	3.77	<0.02	3.78	0.01
- no access to sample site						
3.12	20.1	560	2.83	0.03	2.85	0.011
3.53	22	567	2.26	0.04	2.27	0.016
4.36	29.3	543	0.36	0.05	0.37	0.009
					No sample results	
4.85	31.1	494	<0.04	0.05	<0.04	0.005
5.66	28.9	492	0.49	0.05	0.5	0.01
5.36	28.6	519	0.16	0.05	0.16	0.003
6.26	20.4	559	3.91	0.02	3.92	0.014
4.57	20.8	622	3.57	<0.02	3.59	0.012
4.99	10.9	434	3.88	0.14	3.92	0.045
4.59	20.1	560	4.22	0.03	4.24	0.021

Nitrogen; total (mg/L)	pH	Phosphorus; phosphate (mg/L)	Phosphorus; total (ug/L) - 3558	Silicon; reactive silicate (mg/L)	Solids; suspended (mg/L)
1.74	8.37	0.0093	27.2	NA	8.46
0.84	8.26	0.0069	18.3	0.253	5.6
6.39	8.23	0.008	26.6	0.599	6.39
1.53	8.38	0.013	19.7	1.16	5.53
0.55	8.11	0.006	30.4	1.17	13.9
4.26	7.87	0.012	19.7	1.69	4.7
3.37	8.09	0.014	21.4	0.93	7.75
2.82	8.15	0.011	17.5	0.19	2.74
0.79	8	0.011	16.8	0.34	2.17
0.6	7.88	0.011	27.7	0.91	10.6
1.23	7.97	0.012	26.7	1.21	7.94
0.63	7.88	0.018	30.6	0.98	6.45
4.78	8.17	0.053	65.4	3.43	10.4
4.31	8.26	0.016	22.2	2.49	2.75
4.28	8.22	0.115	151	2.41	42.5
4.87	8.28	0.01	23.7	0.84	18.1

Site ID	Date (yyyy-mm-dd)	Time of Collection (24h)	Field Temp. (°C)	Dissolved Oxygen (mg/L)	Field Conductivity (uS/cm <sup>2</sup> )	pH (Field)
S4	4/5/2021	10:32:00	6.3	12.29	542	DNU
S4	5/4/2021	09:31:00	10.3	10.94	545	DNU
S4	6/1/2021	09:55:00	13.7	11.09	525	DNU
S4	7/5/2021	09:27:00	19.5	10.06	569	8.28
S4	8/3/2021	10:20:00	17.5	10.65	569	8.61
S4	9/7/2021	09:40:00	15	7.77	537	7.85
S4	10/4/2021	09:29:00	15	9.81	604	8.41
S4	11/1/2021	09:31:00	8.4	11.89	633	8.55
S4	4/11/2022	11:09:00	5.1	13.64	522	8.61
S4	5/2/2022	12:10:00	9.1	11.58	539	8.54
S4	6/6/2022	11:05:00	13.8	10.49	520	8.13
S4	7/4/2022	11:38:00	16.3	12.18	510	8.19
S4	8/2/2022	11:24:00	18.8	12.46	480.9	8.02
S4	9/6/2022	11:23:00	15.5	8.41	519	7.39
S4	10/3/2022	11:09:00	8.7	11.99	587	8.19
S4	11/1/2022	10:53:00	9.8	11.21	590	8.16
S4	4/3/2023	12:50:00	4.1	13.02	422.5	8.17
S4	5/2/2023	11:25:00	7	12.26	529	8.14
S4	6/5/2023	10:41:00	14.4	10.18	506	8.02

DNU = Do not use (issues with sensor)

NM = Not measurement

ORP (mV)	FNU (Turbidity)	Comments	E. coli (CFU/100mL)	Total Suspended Solids (mg/L)	Lab pH
NM	3.48	clear, good flow	26	3	8.43
NM	1.27	Trout, clear, good flow	48	<2	8.47
NM	0.11	Trout, clear, good flow	400	<2	8.28
NM	0.45	clear, good flow	41	<2	8.41
NM	0.30	clear, good flow, brook trout	48	2	8.47
NM	0.38	clear, low flow			
NM	0.85	clear, good flow	50	5	8.38
NM	1.56	clear good flow	24	3	8.42
NM	3.15	clear good/steady flow	6	4	8.39
NM	2.08	clear, steady flow	116	2	8.43
NM	0.37	slow flow, some algae and aquatic veg. slow flow, some algae and aquatic	760	3	8.4
NM	0.10	veg., small fish	72	3	8.55
144.00	0.32	slow flows, clear, low water levels	50	<2	8.4
213.00	0.00	low flow, stagnet	30	5	8.14
112.00	5.62	low flow, algae, fish	108	2	8.48
164.70	0.44	Clear, good flow	16	3	8.42
172.30	20.70	High flow, turbid	12	11	8.32
-3.20	2.51	clear, good flow	44	5	8
-30.60	-0.04	slightly turbid, low flow	90	2	8.33

Alkalinity, Total (mg/L)	Conductivity (uS/cm)	Nitrogen-Kjeldahl (N) (mg/L)	Chloride (mg/L)	Sulphate (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Nitrogen, Nitrate-Nitrite (mg/L)
252	543	<0.5	16	12	<0.03	3.28	3.28
253	507	0.9	20	11	<0.03	1.49	1.49
237	514	<0.5	19	16	<0.03	0.4	0.4
244	570	<0.5	25	24	<0.03	3.57	3.57
265	566	<0.5	27	16	<0.03	0.27	0.27
279	578	<0.5	27	19	<0.03	2.28	2.28
306	619	<0.5	21	13	<0.03	2.58	2.58
245	493	<0.5	20	17	<0.03	1.54	1.54
252	506	<0.5	20	13	<0.03	1.47	1.47
272	515	<0.5	17	13	<0.03	0.43	0.43
243	496	<0.5	17	15	<0.03	<0.06	<0.06
240	486	<0.5	13	13	<0.03	0.08	0.08
253	536	<0.5	14	11	<0.03	0.39	0.39
254	568	0.6	33	30	<0.03	3.61	3.61
268	618	<0.5	26	22	<0.03	3.08	3.08
188	417	<0.5	20	11	<0.03	3.17	3.17
237	541	<0.5	23	15.00	<0.03	3.47	3.47
244	504	<0.5	17	16	<0.03	0.69	0.69

**Phosphorus  
(mg/L)**

0.016

<0.003

0.008

0.011

0.064

0.018

0.028

0.004

0.003

0.032

0.019

0.028

0.027

0.097

0.009

0.09

0.02

0.011



Site ID	Date (yyyy-mm-dd)	Time of Collection (24h)	Field Temp. (°C)	Dissolved Oxygen (mg/L)	Field Conductivity (uS/cm <sup>2</sup> )	pH (Field)
S5	4/5/2021	10:47:00	6.3	12.25	498	DNU
S5	5/4/2021	09:46:00	10.6	11.16	583	DNU
S5	6/1/2021	10:08:00	13.8	10.27	563	DNU
S5	7/5/2021	09:41:00	19.8	10.84	610	8.18
S5	8/3/2021	10:35:00	17.3	10.24	639	8.23
S5	9/7/2021	09:55:00	16.3	9.66	548	8.27
S5	10/4/2021	09:45:00	15.6	9.83	630	8.36
S5	11/1/2021	09:44:00	8.4	12.65	658	8.54
S5	4/11/2022	11:24:00	5.5	14.31	548	8.64
S5	5/2/2022	12:33:00	9.2	12.31	563	8.52
S5	6/6/2022	11:28:00	14	9.75	569	8.04
S5	7/4/2022	11:59:00	16.5	10.26	532	8.06
S5	8/2/2022	11:45:00	19.1	9.6	523	7.99
S5	9/6/2022	11:45:00	16.6	9.67	530	8.07
S5	10/3/2022	11:25:00	8.5	12.06	555	8.15
S5	11/1/2022	11:09:00	9.6	11.75	593	8.15
S5	4/3/2023	13:15:00	4.4	13	355.5	8.00
S5	5/2/2023	11:41:00	7	12.23	527	8.07
S5	6/5/2023	10:57:00	14.5	9.66	540	7.93

DNU = Do not use (issues with sensor)

NM = Not measurement

ORP (mV)	FNU (Turbidity)	Comments	E. coli (CFU/100mL)	Total Suspended Solids (mg/L)	Lab pH
NM	2.62	clear, good flow	2	7	8.35
NM	1.70	clear, good flow	8	4	8.45
NM	0.35	clear, good flow	6	3	8.27
NM	3.20	clear, good flow	47	2	8.38
NM	1.20	clear, good flow	64	4	8.45
NM	2.22	clear, low flow			
NM	1.91	clear, good flow	52	3	8.39
NM	1.64	clear good flow	44	<2	8.46
NM	2.58	clear good flow	26	9	8.38
NM	1.64	clear, steady flow	16	3	8.42
		slow flow, some algae and aquatic veg,			
NM	1.80	clear	138	4	8.3
NM	1.34	mod. flow, some aquatic veg.	58	3	8.43
156.00	1.32	slow flows, clear, floating algae	90	4	8.4
208.70	1.25	slow flow, some algae	86	<2	8.26
132.50	2.14	slow flows, some aquatic veg	30	2	8.34
162.80	0.56	good flow, some aquatic veg.	16	<2	8.37
168.30	38.70	high flow, turbid	38	18	8.24
-3.00	2.98	clear, good flow	84	4	8.37
-33.18	0.38	light algae, low flow	98	2	8.31

Alkalinity, Total (mg/L)	Conductivity (uS/cm)	Nitrogen- Kjeldahl (N) (mg/L)	Chloride (mg/L)	Sulphate (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Nitrogen, Nitrate- Nitrite (mg/L)
264	565	<0.5	20	15	<0.03	2.3	2.3
270	536	0.8	23	14	<0.03	1.08	1.08
248	549	<0.5	22	26	<0.03	0.85	0.85
261	615	0.6	29	32	<0.03	2.23	2.23
284	635	<0.5	34	19	<0.03	0.89	0.89
297	616	<0.5	29	24	<0.03	1.29	1.29
320	650	<0.5	24	18	<0.03	1.73	1.73
249	523	<0.5	27	16	<0.03	1.32	1.32
271	527	<0.5	24	16	<0.03	1.1	1.1
261	542	<0.5	21	18	<0.03	0.84	0.84
247	515	<0.5	19	17	<0.03	0.3	0.3
253	530	<0.5	18	16	<0.03	0.19	0.19
255	552	<0.5	16	20	<0.03	0.17	0.17
253	551	0.8	24	37	<0.03	2.48	2.48
273	584	<0.5	27	30	<0.03	1.82	1.82
175	384	<0.5	19	11	<0.03	2.1	2.1
240	535	<0.5	25	17	<0.03	2.97	2.97
261	542	<0.5	19	17	<0.03	0.74	0.74

**Phosphorus  
(mg/L)**

0.014  
0.004  
0.011  
0.013  
0.058

0.034  
0.023  
0.004  
0.004

0.024  
0.027  
0.028  
0.015  
0.1  
0.013  
0.156  
0.019  
0.007

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S6	4/5/2021	11:00:00	6.2	12.8	582	DNU
S6	5/4/2021	09:57:00	10.9	11.08	597	DNU
S6	6/1/2021	10:21:00	16	9.84	530	DNU
S6	7/5/2021	10:01:00	22	12.02	593	8.35
S6	8/3/2021	10:46:00	19.2	11.7	622	8.29
S6	9/7/2021	10:07:00	16.4	6.55	562	7.88
S6	10/4/2021	09:57:00	16.4	9.88	640	8.30
S6	11/1/2021	09:56:00	8.4	11.91	677	8.38
S6	4/11/2022	11:40:00	5.8	14.35	568	8.60
S6	5/3/2022	12:54:00	9.7	12.18	573	8.50
S6	6/6/2022	11:47:00	15.5	10.21	572	8.01
S6	7/4/2022	12:20:00	17.9	11.72	503	7.98
S6	8/2/2022	12:07:00	19	7.57	479.7	7.72
S6	9/6/2022	12:08:00	15.4	2.4	558	7.45
S6	10/3/2022	11:53:00	9.9	11.79	604	8.09
S6	11/1/2022	11:30:00	9.6	11.78	611	8.07
S6	4/3/2023	13:40:00	5.1	13.18	453.6	8.11
S6	5/2/2023	12:02:00	7.2	12.32	534	8.10
S6	6/5/2023	11:12:00	15.1	11.2	506	7.84

DNU = Do not use (issues with sensor)

NM = Not measurement

ORP (mV)	FNU (Turbidity)	Comments	E. coli (CFU/100mL)	Total Suspended Solids (mg/L)	Lab pH
NM	2.48	clear, good flow	6	3	8.36
NM	1.96	clear, good flow	24	7	8.38
NM	1.79	clear, good flow, algae, frogs	<2	<2	8.22
NM	2.25	clear, good flow	45	3	8.4
NM	2.34	clear, good flow	164	4	8.48
NM	3.42	low flow, algae growth			
NM	3.80	clear, good flow, minnows	85	4	8.32
NM	8.34	slightly turbid, good flow	112	6	8.39
NM	4.09	clear, good flow	6	3	8.38
NM	2.74	clear, good flow	26	3	8.38
NM	3.22	slow flow, some algae and aquatic veg.	660	6	8.37
NM	2.37	slow flow, some algae, small fish and frogs	28	4	8.33
164.50	3.25	No flow, low water level, LOTS of frogs & attached algae	60	7	8.09
208.50	6.60	low flow, stagnet, flucuating FNU	580	42	8.1
135.00	7.52	slow flow, some algae & aquatic veg	460	3	8.3
168.30	4.10	slow flow, some algae, clear	46	3	8.44
165.10	16.54	High flow, turbid	16	10	8.31
-1.50	4.69	cloudy, good flow	34	5	8.34
-36.40	0.68	low flow, slightly turbid	66	2	8.27

Alkalinity, Total (mg/L)	Conductivity (uS/cm)	Nitrogen-Kjeldahl (N) (mg/L)	Chloride (mg/L)	Sulphate (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Nitrogen, Nitrate-Nitrite (mg/L)
273	579	<0.5	23	11	<0.03	1.54	1.54
272	596	0.5	27	11	<0.03	0.74	0.74
240	546	<0.5	33	10	<0.03	<0.06	<0.06
245	593	0.7	37	18	<0.03	1.29	1.29
286	624	<0.5	35	13	<0.03	0.59	0.59
295	611	<0.5	32	14	<0.03	0.75	0.75
332	667	<0.5	26	10	<0.03	1.61	1.61
258	542	<0.5	30	16	<0.03	1.17	1.17
276	539	<0.5	28	12	<0.03	0.78	0.78
311	567	0.7	28	8	<0.03	0.07	0.07
211	488	<0.5	35	10	<0.03	0.09	0.09
196	492	0.6	39	6	<0.03	<0.06	<0.06
228	582	0.9	42	6	<0.03	<0.06	<0.06
258	559	<0.5	40	31	<0.03	1.34	1.34
278	638	<0.5	31	20	<0.03	1.91	1.91
204	453	<0.5	25	10	<0.03	2.29	2.29
254	541	<0.5	24	12	<0.03	2.56	2.56
232	507	<0.5	27	9	<0.03	<0.06	<0.06

**Phosphorus  
(mg/L)**

0.02  
<0.003  
0.014  
0.015  
0.07  
  
0.024  
0.037  
0.007  
<0.03  
  
0.035  
  
0.035  
  
0.119  
0.171  
0.113  
0.016  
0.1  
0.019  
0.01