Appendix C

Field Forms

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ4	Project Number	106892-01
Date	July 15/22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates	—		
Weather	15°, light Rain		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.6
Temperature (°C)	18.9
DO (mg/L)	8.84
Conductivity (µs/cm)	41.4
pH	6.87
Redox (mV)	151.7
Turbidity (NTU)	1.38
Appearance / Odour	Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1332	(Yes) No	Yes Name: —	See COC

General Notes:

Site Name	WQ 15	Project Number	106892-01
Date	July 15/22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates	—		
Weather	15°, light Rain		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5
Temperature (°C)	20.4
DO (mg/L)	9.02
Conductivity (µs/cm)	35.7
pH	7.58
Redox (mV)	144.7
Turbidity (NTU)	1.21
Appearance / Odour	Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
13:45	(Yes) No	Yes Name: —	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 10	Project Number	106892-01
Date	July 15, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	15° windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	19.4
DO (mg/L)	9.01
Conductivity (µs/cm)	45.0
pH	7.72
Redox (mV)	142.5
Turbidity (NTU)	-0.20
Appearance / Odour	0.055

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1415	(Yes) No	~~Yes~~ Name:	See COC

General Notes:

Site Name	WQ 9	Project Number	106892-01
Date	July 15, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	15° windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	14.8
DO (mg/L)	8.77
Conductivity (µs/cm)	52.0
pH	7.69
Redox (mV)	135.7
Turbidity (NTU)	0.17
Appearance / Odour	0.000

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1428	(Yes) No	~~Yes~~ Name:	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 6	Project Number	106892-01
Date	July 15, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	15° Windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	20.0
DO (mg/L)	9.62
Conductivity (µs/cm)	70.0
pH	8.25
Redox (mV)	125.4
Turbidity (NTU)	-0.03
Appearance / Odour	0.001)

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1450	Yes No	Yes Name:	

General Notes:

Site Name	WQ 7	Project Number	106892-01
Date	July 15, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	15° Windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	17.0
DO (mg/L)	9.56
Conductivity (µs/cm)	63.1
pH	7.80
Redox (mV)	129.9
Turbidity (NTU)	-0.09
Appearance / Odour	0.136

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1510	Yes No	Yes Name:	

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 17	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	1m
Temperature (°C)	15.3
DO (mg/L)	9.61
Conductivity (µs/cm)	260.0
pH	7.56
Redox (mV)	95.5
Turbidity (NTU)	~0.06
Appearance / Odour	~~0.627~~ clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
12:37	(Yes) No	(Yes) Name: DUP1	See COC

General Notes:

Site Name	WQ 20	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	17.3
DO (mg/L)	9.95
Conductivity (µs/cm)	32.3
pH	7.41
Redox (mV)	60.0
Turbidity (NTU)	0
Appearance / Odour	~~0.000~~ clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1300	(Yes) No	Yes Name:	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 16	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	1 m
Temperature (°C)	15.6
DO (mg/L)	9.72
Conductivity (µs/cm)	26.1
pH	7.70
Redox (mV)	49.2
Turbidity (NTU)	0.07
Appearance / Odour	0.426

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1315	Yes No	Yes Name: DUP B	See COC

General Notes:

Site Name		Project Number	106892-01
Date		Client	ValOre
Sampler		Project Name	Angilak
Geographic Coordinates			
Weather			

Field Parameters (note units if different than those stated)	
Water Depth (m)	
Temperature (°C)	
DO (mg/L)	
Conductivity (µs/cm)	
pH	
Redox (mV)	
Turbidity (NTU)	
Appearance / Odour	

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
	Yes No	Yes Name:	

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 14	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	90 cool windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	13.9
DO (mg/L)	9.88
Conductivity (µs/cm)	38.9
pH	7.25
Redox (mV)	59.2
Turbidity (NTU)	-0.01
Appearance / Odour	~~0.01~~ Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0745	(Yes) No	Yes Name:	See COC

General Notes:

Site Name	WQ 24	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	90 cool windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	12.1
DO (mg/L)	10.14
Conductivity (µs/cm)	79.8
pH	7.63
Redox (mV)	77.4
Turbidity (NTU)	1.32
Appearance / Odour	~~0.00~~ clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0900	(Yes) No	~~Yes~~ Name:	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 23	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	12.3
DO (mg/L)	9.79
Conductivity (µs/cm)	69.0
pH	7.73
Redox (mV)	77.3
Turbidity (NTU)	1.00
Appearance / Odour	~~Clear~~ Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0820	(Yes) No	Yes Name:	See COC

General Notes:

Site Name	WQ 19	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	~~16.3~~ 16.3
DO (mg/L)	9.46
Conductivity (µs/cm)	42.2
pH	7.70
Redox (mV)	72.0
Turbidity (NTU)	0.04
Appearance / Odour	~~Clear~~ clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0840	(Yes) No	Yes Name:	0840

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 03	Project Number	106892-01
Date	July 16, 22.	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	16.8
DO (mg/L)	9.26
Conductivity (µs/cm)	44.0
pH	7.72
Redox (mV)	174.7
Turbidity (NTU)	0.51
Appearance / Odour	~~0.415~~ Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0955	(Yes) No	Yes Name: ~~—~~	See coc

General Notes:

Site Name	WQ 02	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	15.5
DO (mg/L)	9.75
Conductivity (µs/cm)	54.4
pH	7.84
Redox (mV)	177.3
Turbidity (NTU)	0.37
Appearance / Odour	Clear ~~0.170~~

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0915	(Yes) No	Yes Name: ~~—~~	See coc

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ1	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	90 cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	14.7
DO (mg/L)	9.86
Conductivity (µs/cm)	50.0
pH	7.97
Redox (mV)	77.7
Turbidity (NTU)	0.76
Appearance / Odour	~~0.000~~ clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0940	(Yes) No	Yes ~~Name:~~	See COC

General Notes:

Site Name	WQ-6	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	90 cool wind		

Field Parameters (note units if different than those stated)		
Water Depth (m)	~~15.8~~	0.5m
Temperature (°C)	~~9.46~~	15.5
DO (mg/L)	~~4.17~~	9.46
Conductivity (µs/cm)	~~7.49~~	48.4
pH	~~79.17~~	7.87
Redox (mV)		80.1
Turbidity (NTU)		-0.05
Appearance / Odour	clear	~~0.084~~

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
10:00	(Yes) No	Yes ~~Name:~~	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ #5	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	1m
Temperature (°C)	16.0
DO (mg/L)	9.44
Conductivity (µs/cm)	65.9
pH	7.92
Redox (mV)	82.3
Turbidity (NTU)	-0.13
Appearance / Odour	~~0.533~~ Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1010	(Yes) No	Yes Name:	See COC

General Notes:

Site Name	WQ 11	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	16.0
DO (mg/L)	9.44
Conductivity (µs/cm)	48.1
pH	6.03
Redox (mV)	79.0
Turbidity (NTU)	1.31
Appearance / Odour	~~0.268~~ Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1025	(Yes) No	Yes Name:	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 21	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	4° cool, wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	14.3
DO (mg/L)	9.93
Conductivity (µs/cm)	57.0
pH	7.83
Redox (mV)	79.1
Turbidity (NTU)	2.87
Appearance / Odour	0.199

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
10:48	(Yes) No	Yes Name:	Clear

General Notes:

Site Name		Project Number	106892-01
Date		Client	ValOre
Sampler		Project Name	Angilak
Geographic Coordinates			
Weather			

Field Parameters (note units if different than those stated)	
Water Depth (m)	
Temperature (°C)	
DO (mg/L)	
Conductivity (µs/cm)	
pH	
Redox (mV)	
Turbidity (NTU)	
Appearance / Odour	

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
	Yes No	Yes Name:	

General Notes:

Appendix D

Raw and Refined Flow Data

	Mean Q:	0.7012		Stage (m):			RPD (%):	136.7			Time:	#NUM!	
Station ID:	W3	Traverse:	1	Date	25/08/2022		Station ID:	W3	Traverse:	2	Date	25/08/2022	
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):			Time:			Staff Gauge @ Start	Height (m):			Time:		
Staff Gauge @ End	Height (m):			Time:			Staff Gauge @ End	Height (m):			Time:	0:00	
Right Bank: (m)		Left Bank: (m)		Total Width: (m)			Right Bank: (m)		Left Bank: (m)		Total Width: (m)		
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
	Right Bank							Right Bank					
	1.00	0.150	0.098	0.01				1.00	0.350	0.549	0.19		
	1.00	0.150	0.090	0.01				1.00	0.250	0.005	0.00		
	1.00	0.100	0.026	0.00				1.00	0.250	2.452	0.61		
	1.00	0.150	0.183	0.03				1.00	0.100	1.389	0.14		
	1.00	0.150	0.213	0.03				1.00	0.150	0.669	0.10		
	1.00	0.150	0.007	0.00				1.00	0.100	0.217	0.02		
	1.00	0.550	0.184	0.10				1.00	0.100	0.184	0.02		
	1.00	0.150	0.011	0.00				1.00	0.100	0.496	0.05		
	1.00	0.270	0.009	0.00				1.00	0.150	0.263	0.04		
	1.00	0.200	0.127	0.03				1.00	0.100	0.056	0.01		
			ΣQ (m^3/s)	0.2219	RPD (%)	see trav #2				ΣQ (m^3/s)	1.1804	RPD (%)	136.70

	Mean Q:	0.6583		Stage (m):		RPD (%):	87.3			Time:	#NUM!
Station ID:	W2	Traverse:	1	Date	25/08/2022	Station ID:	W2	Traverse:	2	Date	25/08/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):			Time:		Staff Gauge @ Start	Height (m):			Time:	
Staff Gauge @ End	Height (m):			Time:		Staff Gauge @ End	Height (m):			Time:	0:00
Right Bank: (m)		Left Bank: (m)		Total Width: (m)		Right Bank: (m)		Left Bank: (m)		Total Width: (m)	

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
	Right Bank						Right Bank				
	3.14	0.350	0.206	0.227			3.143	0.700	0.019	0.042	
	3.14	0.200	0.087	0.055			3.143	0.210	0.044	0.029	
	3.14	0.400	0.014	0.018			3.143	0.300	0.096	0.091	
	3.14	0.300	0.002	0.002			3.143	0.300	0.010	0.009	
	3.14	0.200	0.057	0.036			3.143	0.300	0.042	0.040	
	3.14	0.200	0.022	0.014			3.143	0.200	0.324	0.204	
	3.14	0.500	0.013	0.020			3.143	0.450	0.376	0.532	
			ΣQ (m^3/s)	0.3709	RPD (%) see trav #2				ΣQ (m^3/s)	0.9458	RPD (%) 87.33

	Mean Q:	1.4501		Stage (m):			RPD (%):	57.9		Time:	#NUM!		
Station ID:	W1	Traverse:	1	Date	25/08/2022		Station ID:	W1	Traverse:	2	Date	25/08/2022	
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):			Time:			Staff Gauge @ Start	Height (m):			Time:		
Staff Gauge @ End	Height (m):			Time:			Staff Gauge @ End	Height (m):			Time:	0:00	
Right Bank: (m)		Left Bank: (m)		Total Width: (m)			Right Bank: (m)		Left Bank: (m)		Total Width: (m)		
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
	Right Bank							Right Bank					
	1.00	0.100	0.566	0.057				1.000	0.160	1.655	0.265		
	1.00	0.120	0.700	0.084				1.000	0.600	0.878	0.527		
	1.00	0.150	0.392	0.059				1.000	0.130	1.288	0.167		
	1.00	0.100	0.696	0.070				1.000	0.500	0.674	0.337		
	1.00	0.100	0.028	0.003				1.000	0.150	0.004	0.001		
	1.00	0.000	0.000	0.000				1.000	0.000	0.000	0.000		
	1.00	0.000	0.000	0.000				1.000	0.000	0.000	0.000		
	1.00	0.500	0.936	0.468				1.000	0.100	0.926	0.093		
	1.00	0.150	0.697	0.105				1.000	0.150	0.222	0.033		
	1.00	0.100	0.959	0.096				1.000	0.150	0.716	0.107		
	1.00	0.300	0.300	0.090				1.000	0.500	0.680	0.340		
			ΣQ (m^3/s)	1.0303	RPD (%)	see trav #2				ΣQ (m^3/s)	1.8699	RPD (%)	57.91

	Mean Q:	0.6754		Stage (m):		RPD (%):	41.4			Time:	#NUM!
Station ID:	N2	Traverse:	1	Date	25/08/2022	Station ID:	N2	Traverse:	2	Date	25/08/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):			Time:		Staff Gauge @ Start	Height (m):			Time:	
Staff Gauge @ End	Height (m):			Time:		Staff Gauge @ End	Height (m):			Time:	0:00
Right Bank: (m)		Left Bank: (m)		Total Width: (m)		Right Bank: (m)		Left Bank: (m)		Total Width: (m)	

Distance, x (m)	Width, Δx (m)	Depth, d (m)	$Velocity_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	$Velocity_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
	Let Bank						Right Bank				
	1.083	0.300	0.275	0.089			1.083	0.150	1.860	0.302	
	1.083	0.260	0.612	0.172			1.083	0.150	0.431	0.070	
	1.083	0.250	0.489	0.132			1.083	0.250	0.230	0.062	
	1.083	0.200	0.366	0.079			1.083	0.260	0.379	0.107	
	1.083	0.100	0.248	0.027			1.083	0.200	0.398	0.086	
	1.083	0.500	0.065	0.035			1.083	0.240	0.722	0.188	
			ΣQ (m^3/s)	0.5356	RPD (%) see trav #2				ΣQ (m^3/s)	0.8153	RPD (%) 41.41

	Mean Q:	1.1663		Stage (m):		RPD (%):	117.3			Time:	#NUM!
Station ID:	N1	Traverse:	1	Date	25/08/2022	Station ID:	N1	Traverse:	2	Date	25/08/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):			Time:		Staff Gauge @ Start	Height (m):			Time:	
Staff Gauge @ End	Height (m):			Time:		Staff Gauge @ End	Height (m):			Time:	0:00
Right Bank: (m)		Left Bank: (m)		Total Width: (m)		Right Bank: (m)		Left Bank: (m)		Total Width: (m)	

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
	Right Bank						Right Bank				
	1.440	0.150	0.111	0.024			1.440	0.250	0.159	0.057	
	1.440	0.150	0.692	0.149			1.440	0.200	0.429	0.124	
	1.440	0.250	0.288	0.104			1.440	0.255	0.005	0.002	
	1.440	0.900	0.092	0.119			1.440	0.200	0.244	0.070	
	1.440	0.200	2.093	0.603			1.440	0.250	0.093	0.033	
	1.440	0.150	0.515	0.111			1.440	0.150	0.240	0.052	
	1.440	0.200	1.962	0.565			1.440	0.150	0.207	0.045	
	1.440	0.250	0.379	0.136			1.440	0.150	0.155	0.033	
	1.440	0.350	0.059	0.030			1.440	0.200	0.191	0.055	
	1.440	0.350	0.017	0.009			1.440	0.100	0.077	0.011	
			ΣQ (m^3/s)	1.8502	RPD (%) see trav #2				ΣQ (m^3/s)	0.4825	RPD (%) 117.26

	Mean Q:	0.9510		Stage (m):		RPD (%):	34.8			Time:	#NUM!
Station ID:	C1	Traverse:	1	Date	25/08/2022	Station ID:	C1	Traverse:	2	Date	25/08/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):			Time:		Staff Gauge @ Start	Height (m):			Time:	
Staff Gauge @ End	Height (m):			Time:		Staff Gauge @ End	Height (m):			Time:	0:00
Right Bank: (m)		Left Bank: (m)		Total Width: (m)		Right Bank: (m)		Left Bank: (m)		Total Width: (m)	
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
	Right Bank						Right Bank				
	1.1667	0.3500	0.0310	0.0127			1.1667	0.5000	1.0200	0.5950	
	1.1667	0.5500	1.0030	0.6436			1.1667	0.1700	0.6500	0.1289	
	1.1667	0.1000	1.1090	0.1294			1.1667	0.3000	1.1210	0.3924	
			ΣQ (m^3/s)	0.7856	RPD (%) see trav #2				ΣQ (m^3/s)	1.1163	RPD (%) 34.77

	Mean Q:	0.0884		Stage (m):	0.631		RPD (%):	83.7		Time:	17:21		
Station ID:	C1	Traverse:	1	Date	14/07/2022		Station ID:	C1	Traverse:	2	Date	14/07/2022	
Sampler:	AT/AK	Recorder:	AT/AK	Meter Type & No.	Swoffer 3000		Sampler:	AT/AK	Recorder:	AT/AK	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):	0.631		Time:	17:30		Staff Gauge @ Start	Height (m):	0.631		Time:	17:30	
Staff Gauge @ End	Height (m):	0.631		Time:	17:12		Staff Gauge @ End	Height (m):	0.631		Time:	17:12	
Right Bank: (m)	0.6	Left Bank: (m)	7.4	Total Width: (m)	6.8		Right Bank: (m)	0.6	Left Bank: (m)	7.4	Total Width: (m)	6.8	
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
0.60	Right Bank						0.60	Right Bank					
1.00	0.4	0.59	0.00	8.26E-04			1.10	0.4	0.60	0.00	4.80E-04		
1.30	0.3	0.60	0.00	7.20E-04			1.40	0.3	0.60	0.01	1.08E-03		
1.60	0.3	0.60	0.00	3.60E-04			1.70	0.5	0.54	0.01	1.94E-03		
1.90	0.3	0.60	0.00	3.60E-04			2.30	0.6	0.55	0.01	1.98E-03		
2.20	0.3	0.20	0.004	2.40E-04			2.90	0.5	0.55	0.007	1.73E-03		
2.50	0.3	0.55	0.007	1.16E-03			3.20	0.3	0.45	0.008	1.08E-03		
2.80	0.3	0.48	0.020	2.88E-03			3.50	0.3	0.45	0.010	1.35E-03		
3.10	0.3	0.43	0.004	5.16E-04			3.80	0.3	0.40	0.008	9.60E-04		
3.40	0.3	0.45	0.002	2.70E-04			4.10	0.3	0.35	0.018	1.89E-03		
3.70	0.3	0.40	0.028	3.36E-03			4.40	0.3	0.30	0.015	1.35E-03		
4.00	0.3	0.25	0.014	1.05E-03			4.70	0.3	0.30	0.036	3.24E-03		
4.30	0.3	0.30	0.031	2.79E-03			5.00	0.3	0.25	0.160	1.20E-02		
4.60	0.3	0.30	0.006	5.40E-04			5.30	0.3	0.34	0.087	8.87E-03		
4.90	0.3	0.32	0.012	1.15E-03			5.60	0.3	0.30	0.178	1.60E-02		
5.20	0.3	0.37	0.070	6.48E-03			5.90	0.4	0.30	0.176	1.85E-02		
5.40	0.2	0.37	0.01	7.40E-04			6.30	0.4	0.30	0.14	1.67E-02		
5.60	0.3	0.38	0.06	5.51E-03			6.70	0.6	0.30	0.22	3.63E-02		
5.90	0.3	0.32	0.07	6.91E-03			7.40	3.4			0.00E+00		
6.20	0.8	0.25	0.08	1.56E-02				3.7			0.00E+00		
7.40	3.1			0.00E+00				0.0			0.00E+00		
	3.7			0.00E+00				0.0			0.00E+00		
			ΣQ (m^3/s)	0.0514	RPD (%)	see trav #2				ΣQ (m^3/s)	0.1254	RPD (%)	83.71

	Mean Q:	4.8175		Stage (m):	0.550		RPD (%):	7.2			Time:	12:07	
Station ID:	N1	Traverse:	1	Date	14/07/2022		Station ID:	N1	Traverse:	2	Date	14/07/2022	
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):	0.55		Time:	11:30		Staff Gauge @ Start	Height (m):	0.55		Time:	11:30	
Staff Gauge @ End	Height (m):	0.55		Time:	12:45		Staff Gauge @ End	Height (m):	0.55		Time:	12:45	
Right Bank: (m)	0.5	Left Bank: (m)	15	Total Width: (m)	14.5		Right Bank: (m)	0.5	Left Bank: (m)	15	Total Width: (m)	14.5	
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
0.50	Right Bank						0.50	Right Bank					
1.10	0.7	0.52	0.46	1.54E-01			1.70	1.0	0.25	0.66	1.56E-01		
1.80	0.7	0.35	0.29	7.13E-02			2.40	0.8	0.40	0.14	4.23E-02		
2.50	0.7	0.36	0.08	1.94E-02			3.20	0.8	0.45	0.09	2.90E-02		
3.20	0.7	0.45	0.22	6.35E-02			3.90	0.7	0.50	0.16	5.71E-02		
3.80	0.7	0.36	0.265	6.20E-02			4.60	0.7	0.50	0.389	1.26E-01		
4.50	0.7	0.47	0.190	6.25E-02			5.20	0.7	0.55	0.307	1.10E-01		
5.20	0.7	0.70	0.354	1.73E-01			5.90	0.7	0.40	0.672	1.88E-01		
5.90	0.7	0.70	0.354	1.73E-01			6.60	0.7	0.50	0.668	2.34E-01		
6.60	0.7	0.60	0.713	2.99E-01			7.30	0.7	0.70	0.790	3.59E-01		
7.30	0.7	0.70	0.701	3.43E-01			7.90	0.7	0.75	0.698	3.40E-01		
8.00	0.8	0.75	0.682	3.84E-01			8.60	0.7	0.55	0.444	1.71E-01		
8.80	0.8	0.75	0.302	1.70E-01			9.30	0.7	0.25	0.135	2.36E-02		
9.50	0.7	0.75	0.072	3.78E-02			10.00	0.7	0.50	0.456	1.60E-01		
10.20	0.7	0.35	0.152	3.72E-02			10.70	0.8	0.36	0.129	3.48E-02		
10.90	0.7	0.60	0.326	1.37E-01			11.50	0.8	0.65	0.337	1.64E-01		
11.60	0.7	0.70	0.35	1.69E-01			12.20	0.7	0.60	0.87	3.67E-01		
12.30	0.7	0.60	0.91	3.83E-01			12.90	0.7	0.70	0.98	4.81E-01		
13.00	0.7	0.80	0.99	5.55E-01			13.60	1.1	0.85	1.79	1.60E+00		
13.70	0.8	0.95	1.48	1.05E+00			15.00	6.8			0.00E+00		
14.50	0.7	0.90	1.10	6.44E-01				7.5			0.00E+00		
15.00	7.3			0.00E+00				0.0			0.00E+00		
			ΣQ (m^3/s)	4.9914	RPD (%)	see trav #2				ΣQ (m^3/s)	4.6437	RPD (%)	7.22

	Mean Q:	2.8686		Stage (m):	0.250		RPD (%):	12.2			Time:	16:15	
Station ID:	W1	Traverse:	1	Date	14/07/2022		Station ID:	W1	Traverse:	2	Date	14/07/2022	
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):	0.25		Time:	16:00		Staff Gauge @ Start	Height (m):	0.25		Time:	16:00	
Staff Gauge @ End	Height (m):	0.25		Time:	16:30		Staff Gauge @ End	Height (m):	0.25		Time:	16:30	
Right Bank: (m)	0.4	Left Bank: (m)	9.1	Total Width: (m)	8.7		Right Bank: (m)	0.4	Left Bank: (m)	9.1	Total Width: (m)	8.7	
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
0.40	Right Bank						0.40	Right Bank					
1.20	0.6	0.25	1.50	2.25E-01			0.60	0.3	0.20	1.34	8.01E-02		
1.60	0.4	0.18	2.50	1.80E-01			1.00	0.4	0.25	1.75	1.75E-01		
2.00	0.4	0.35	1.95	2.73E-01			1.40	0.4	0.15	1.39	8.32E-02		
2.40	0.4	0.35	0.91	1.27E-01			1.80	0.4	0.30	1.11	1.33E-01		
2.80	0.4	0.25	0.986	9.86E-02			2.20	0.4	0.35	0.700	9.80E-02		
3.20	0.4	0.25	1.518	1.52E-01			2.60	0.4	0.30	1.607	1.93E-01		
3.60	0.4	0.20	0.619	4.95E-02			3.00	0.4	0.35	1.662	2.33E-01		
4.00	0.4	0.15	0.711	4.27E-02			3.40	0.4	0.25	1.025	1.03E-01		
4.40	0.4	0.30	1.170	1.40E-01			3.80	0.4	0.25	0.770	7.70E-02		
4.80	0.4	0.25	0.397	3.97E-02			4.20	0.4	0.25	1.542	1.54E-01		
5.20	0.4	0.20	2.012	1.61E-01			4.60	0.4	0.30	0.612	7.34E-02		
5.60	0.4	0.20	1.186	9.49E-02			5.00	0.4	0.30	0.586	7.03E-02		
6.00	0.4	0.25	1.965	1.97E-01			5.40	0.4	0.25	2.344	2.34E-01		
6.40	0.4	0.25	2.059	2.06E-01			5.80	0.4	0.25	0.694	6.94E-02		
6.80	0.4	0.30	2.411	2.89E-01			6.20	0.4	0.30	0.416	4.99E-02		
7.20	0.4	0.35	2.50	3.50E-01			6.60	0.4	0.35	1.30	1.82E-01		
7.60	0.4	0.20	0.99	7.89E-02			7.00	0.4	0.30	2.74	3.28E-01		
8.00	0.4	0.30	1.91	2.30E-01			7.40	0.4	0.30	1.62	1.94E-01		
8.40	0.4	0.30	0.83	9.97E-02			7.80	0.4	0.25	1.05	1.05E-01		
8.80	0.4	0.28	0.10	9.80E-03			8.20	0.7	0.30	0.30	5.85E-02		
9.10	4.4			0.00E+00			9.10	4.1			0.00E+00		
			ΣQ (m^3/s)	3.0432	RPD (%)	see trav #2				ΣQ (m^3/s)	2.6940	RPD (%)	12.17

	Mean Q:	0.7518		Stage (m):	0.682		RPD (%):	25.6		Time:	11:29	
Station ID:	W3	Traverse:	1	Date	15/07/2022		Station ID:	W3	Traverse:	2	Date	15/07/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.682		Time:	11:10		Staff Gauge @ Start	Height (m):	0.682		Time:	11:10
Staff Gauge @ End	Height (m):	0.682		Time:	11:48		Staff Gauge @ End	Height (m):	0.682		Time:	11:48
Right Bank: (m)	0.8	Left Bank: (m)	8	Total Width: (m)	7.2		Right Bank: (m)	0.8	Left Bank: (m)	8	Total Width: (m)	7.2
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.80	Right Bank						0.80	Right Bank				
1.70	0.6	0.16	0.23	2.24E-02			1.80	0.7	0.20	0.12	1.59E-02	
2.00	0.3	0.16	0.22	1.04E-02			2.10	0.3	0.15	0.49	2.21E-02	
2.30	0.3	0.24	0.77	5.52E-02			2.40	0.3	0.22	0.70	4.63E-02	
2.60	0.3	0.32	0.78	7.48E-02			2.70	0.3	0.30	1.03	9.26E-02	
2.90	0.3	0.15	1.618	7.28E-02			3.00	0.3	0.15	0.400	1.80E-02	
3.20	0.3	0.25	0.319	2.39E-02			3.30	0.3	0.50	1.887	2.83E-01	
3.50	0.3	0.20	1.743	1.05E-01			3.60	0.3	0.25	1.163	8.72E-02	
3.80	0.3	0.25	1.266	9.50E-02			3.90	0.3	0.22	0.640	4.22E-02	
4.10	0.3	0.20	0.624	3.74E-02			4.20	0.3	0.22	0.443	2.92E-02	
4.40	0.3	0.25	0.223	1.67E-02			4.50	0.3	0.15	0.289	1.30E-02	
4.70	0.3	0.13	0.068	2.65E-03			4.80	0.3	0.10	0.634	1.90E-02	
5.00	0.3	0.10	0.574	1.72E-02			5.10	0.3	0.12	0.034	1.22E-03	
5.30	0.4	0.13	0.008	4.16E-04			5.40	0.3	0.08	0.267	5.34E-03	
5.80	0.4	0.13	0.549	2.50E-02			5.60	0.3	0.10	0.697	1.74E-02	
6.00	0.3	0.15	0.222	8.33E-03			5.90	0.3	0.10	0.665	2.00E-02	
6.30	0.3	0.15	0.01	2.25E-04			6.20	0.6	0.10	0.17	9.35E-03	
6.60	0.3	0.10	0.11	3.21E-03			7.00	0.6	0.10	1.19	6.55E-02	
6.90	0.3	0.15	0.15	6.71E-03			7.30	0.3	0.12	0.20	7.02E-03	
7.20	0.4	0.15	0.46	2.42E-02			7.60	0.3	0.10	1.13	3.40E-02	
7.60	0.4	0.15	0.91	5.45E-02			7.90	0.2	0.10	0.98	1.95E-02	
8.00	3.8			0.00E+00			8.00	4.0			0.00E+00	
			ΣQ (m^3/s)	0.6556	RPD (%)	see trav #2				ΣQ (m^3/s)	0.8479	RPD (%) 25.57

	Mean Q:	0.2014		Stage (m):	0.660	RPD (%):	11.1			Time:	10:25
Station ID:	W4	Traverse:	1	Date	15/07/2022	Station ID:	W4	Traverse:	2	Date	15/07/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.66		Time:	10:05	Staff Gauge @ Start	Height (m):	0.66		Time:	10:05
Staff Gauge @ End	Height (m):	0.66		Time:	10:45	Staff Gauge @ End	Height (m):	0.66		Time:	10:45
Right Bank: (m)	0.9	Left Bank: (m)	7.3	Total Width: (m)	6.4	Right Bank: (m)	0.9	Left Bank: (m)	7.3	Total Width: (m)	6.4

Distance, x (m)	Width, Δx (m)	Depth, d (m)	$Velocity_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	$Velocity_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.90	Right Bank					0.90	Right Bank				
1.60	0.5	0.17	0.24	2.07E-02		1.00	0.2	0.15	0.18	5.28E-03	
1.90	0.3	0.37	0.15	1.67E-02		1.30	0.3	0.10	0.42	1.26E-02	
2.20	0.3	0.33	0.15	1.47E-02		1.60	0.3	0.10	0.22	6.66E-03	
2.50	0.3	0.28	0.18	1.53E-02		1.90	0.3	0.15	0.24	1.09E-02	
2.80	0.3	0.25	0.013	9.75E-04		2.20	0.3	0.32	0.032	3.07E-03	
3.10	0.3	0.17	0.096	4.90E-03		2.50	0.3	0.10	0.185	5.55E-03	
3.40	0.3	0.28	0.038	3.19E-03		2.80	0.3	0.15	0.180	8.10E-03	
3.70	0.3	0.20	0.107	6.42E-03		3.10	0.3	0.10	0.127	3.81E-03	
4.00	0.3	0.10	0.066	1.98E-03		3.40	0.3	0.13	0.078	3.04E-03	
4.30	0.3	0.30	0.002	1.80E-04		3.70	0.3	0.10	0.134	4.02E-03	
4.60	0.3	0.22	0.348	2.30E-02		4.00	0.3	0.10	0.098	2.94E-03	
4.90	0.3	0.10	0.174	5.22E-03		4.30	0.3	0.30	0.610	5.49E-02	
5.20	0.6	0.18	0.206	2.04E-02		4.60	0.3	0.22	0.304	2.01E-02	
6.00	0.6	0.26	0.114	1.63E-02		4.90	0.3	0.15	0.183	8.24E-03	
6.30	0.3	0.16	0.468	2.25E-02		5.20	0.7	0.45	0.021	6.14E-03	
6.60	0.5	0.33	0.11	1.80E-02		6.20	1.1	0.25	0.22	5.72E-02	
7.30	3.3			0.00E+00		7.30	3.1			0.00E+00	
	3.7			0.00E+00			3.7			0.00E+00	
	0.0			0.00E+00			0.0			0.00E+00	
	0.0			0.00E+00			0.0			0.00E+00	
	0.0			0.00E+00			0.0			0.00E+00	
			ΣQ (m^3/s)	0.1902	RPD (%) see trav #2				ΣQ (m^3/s)	0.2125	RPD (%) 11.08

	Mean Q:	2.5525		Stage (m):	0.600		RPD (%):	11.7			Time:	12:45	
Station ID:	W2	Traverse:	1	Date	15/07/2022		Station ID:	W2	Traverse:	2	Date	15/07/2022	
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):	0.6		Time:	12:30		Staff Gauge @ Start	Height (m):	0.6		Time:	12:30	
Staff Gauge @ End	Height (m):	0.6		Time:	13:00		Staff Gauge @ End	Height (m):	0.6		Time:	13:00	
Right Bank: (m)	3.3	Left Bank: (m)	12.9	Total Width: (m)	9.6		Right Bank: (m)	3.3	Left Bank: (m)	12.9	Total Width: (m)	9.6	
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
3.30	Right Bank						3.30	Right Bank					
3.70	0.5	0.15	0.20	1.36E-02			3.50	0.4	0.15	0.21	1.11E-02		
4.20	0.5	0.15	0.42	3.12E-02			4.00	0.5	0.15	0.36	2.73E-02		
4.70	0.5	0.25	0.92	1.15E-01			4.50	0.5	0.20	0.46	4.63E-02		
5.20	0.5	0.25	0.47	5.86E-02			5.00	0.5	0.20	0.75	7.48E-02		
5.70	0.5	0.35	1.214	2.12E-01			5.50	0.5	0.35	1.019	1.78E-01		
6.20	0.5	0.40	1.093	2.19E-01			6.00	0.5	0.35	1.029	1.80E-01		
6.70	0.5	0.40	1.529	3.06E-01			6.50	0.5	0.35	1.069	1.87E-01		
7.20	0.5	0.45	1.195	2.69E-01			7.00	0.5	0.40	1.013	2.03E-01		
7.70	0.5	0.45	1.001	2.25E-01			7.50	0.5	0.46	1.313	3.02E-01		
8.20	0.5	0.50	1.347	3.37E-01			8.00	0.5	0.47	1.035	2.43E-01		
8.70	0.5	0.50	0.784	1.96E-01			8.50	0.5	0.45	1.171	2.63E-01		
9.20	0.5	0.40	1.132	2.26E-01			9.00	0.5	0.50	0.764	1.91E-01		
9.70	0.5	0.45	0.844	1.90E-01			9.50	0.5	0.40	1.096	2.19E-01		
10.20	0.5	0.40	0.580	1.16E-01			10.00	0.5	0.32	0.811	1.30E-01		
10.70	0.5	0.34	0.650	1.11E-01			10.50	0.5	0.30	0.169	2.54E-02		
11.20	0.5	0.30	0.46	6.96E-02			11.00	1.2	0.30	0.34	1.21E-01		
11.70	0.9	0.30	0.03	7.40E-03			12.90	5.5			0.00E+00		
12.90	5.9			0.00E+00				6.5			0.00E+00		
	6.5			0.00E+00				0.0			0.00E+00		
	0.0			0.00E+00				0.0			0.00E+00		
	0.0			0.00E+00				0.0			0.00E+00		
			ΣQ (m^3/s)	2.7021	RPD (%)	see trav #2				ΣQ (m^3/s)	2.4029	RPD (%)	11.72

	Mean Q:	2.2061		Stage (m):	0.472	RPD (%):	5.0		Time:	16:21
Station ID:	N2	Traverse:	1	Date	15/07/2022	Station ID:	N2	Traverse:	2	Date	15/07/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.472		Time:	16:07	Staff Gauge @ Start	Height (m):	0.472		Time:	16:07
Staff Gauge @ End	Height (m):	0.472		Time:	16:35	Staff Gauge @ End	Height (m):	0.472		Time:	16:35
Right Bank: (m)	0	Left Bank: (m)	9	Total Width: (m)	9	Right Bank: (m)	0	Left Bank: (m)	9	Total Width: (m)	9

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.00	Right Bank					0.00	Right Bank				
0.80	0.7	0.30	0.37	7.23E-02		1.00	0.8	0.20	1.53	2.30E-01	
1.30	0.5	0.20	1.18	1.18E-01		1.50	0.5	0.15	2.82	2.12E-01	
1.80	0.5	0.20	2.26	2.26E-01		2.00	0.5	0.15	2.05	1.54E-01	
2.30	0.5	0.25	0.79	9.81E-02		2.50	0.5	0.30	1.10	1.66E-01	
2.80	0.5	0.20	1.998	2.00E-01		3.00	0.5	0.27	0.456	6.16E-02	
3.30	0.5	0.28	1.203	1.68E-01		3.50	0.5	0.25	0.236	2.95E-02	
3.80	0.5	0.25	0.427	5.34E-02		4.00	0.5	0.30	0.204	3.06E-02	
4.30	0.5	0.25	0.801	1.00E-01		4.50	0.5	0.20	1.091	1.09E-01	
4.80	0.5	0.20	0.958	9.58E-02		5.00	0.5	0.20	0.639	6.39E-02	
5.30	0.5	0.16	0.799	6.39E-02		5.50	0.5	0.25	0.604	7.55E-02	
5.80	0.5	0.15	1.003	7.52E-02		6.00	0.5	0.28	1.599	2.24E-01	
6.30	0.5	0.26	0.632	8.22E-02		6.50	0.5	0.15	0.890	6.68E-02	
6.80	0.5	0.26	0.946	1.23E-01		7.00	0.5	0.27	0.994	1.34E-01	
7.30	0.5	0.25	1.282	1.60E-01		7.50	0.5	0.26	0.908	1.18E-01	
7.80	0.5	0.10	2.178	1.09E-01		8.00	0.5	0.25	0.785	9.81E-02	
8.30	0.5	0.37	2.40	4.45E-01		8.50	0.5	0.36	2.11	3.79E-01	
8.80	0.4	0.37	0.55	7.17E-02		9.00	4.3			0.00E+00	
9.00	4.4			0.00E+00			4.5			0.00E+00	
	4.5			0.00E+00			0.0			0.00E+00	
	0.0			0.00E+00			0.0			0.00E+00	
	0.0			0.00E+00			0.0			0.00E+00	
			ΣQ (m^3/s)	2.2611	RPD (%) see trav #2				ΣQ (m^3/s)	2.1510	RPD (%) 4.99

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N1	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.472		Time:	9:30
Staff Gauge @ End	Height (m):	0.472		Time:	10:25
Right Bank: (m)	0.4	Left Bank: (m)	15.8	Total Width: (m)	15.4

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.40	Right Bank				
0.77	0.7	0.36	0.754	2.00E-01	
1.87	0.8	0.37	0.541	1.52E-01	
2.29	0.8	0.29	0.589	1.28E-01	
3.37	1.0	0.22	0.565	1.23E-01	
4.27	0.9	0.25	0.357	7.59E-02	
5.07	0.8	0.27	0.673	1.45E-01	
5.87	0.8	0.27	0.137	2.96E-02	
6.67	0.8	0.31	0.540	1.34E-01	
7.47	0.8	0.34	0.721	1.96E-01	
8.27	0.8	0.31	0.836	2.07E-01	
9.07	0.8	0.34	0.560	1.52E-01	
9.87	0.8	0.39	0.608	1.90E-01	
10.67	0.8	0.37	0.861	2.55E-01	
11.47	0.8	0.04	0.623	1.99E-02	
12.27	0.8	0.37	0.568	1.68E-01	
13.07	0.8	0.41	0.398	1.31E-01	
13.87	1.4	0.37	0.157	7.93E-02	
15.80	6.9			0.00E+00	
	7.9			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
			ΣQ (m^3/s)	2.3858	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N2	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.4		Time:	18:54
Staff Gauge @ End	Height (m):	0.4		Time:	19:24
Right Bank: (m)	0.6	Left Bank: (m)	10.4	Total Width: (m)	9.8

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.60	Right Bank				
1.10	0.5	0.21	0.57	6.03E-02	
1.60	0.5	0.45	0.50	1.13E-01	
2.10	0.5	0.44	0.77	1.69E-01	
2.60	0.5	0.36	0.00	0.00E+00	
3.10	0.5	0.36	0.000	0.00E+00	
3.60	0.5	0.31	0.583	9.04E-02	
4.10	0.5	0.31	0.762	1.18E-01	
4.60	0.5	0.20	0.187	1.87E-02	
5.10	0.5	0.22	0.417	4.59E-02	
5.60	0.5	0.24	0.615	7.38E-02	
6.10	0.5	0.27	0.198	2.67E-02	
6.60	0.5	0.24	0.439	5.27E-02	
7.10	0.5	0.30	0.817	1.23E-01	
7.60	0.5	0.35	0.032	5.60E-03	
8.10	0.5	0.37	0.025	4.63E-03	
8.60	0.5	0.30	0.389	5.84E-02	
9.10	0.5	0.31	0.554	8.59E-02	
9.60	0.5	0.29	0.767	1.11E-01	
10.10	0.4	0.33	0.250	3.30E-02	
10.40	5.1			0.00E+00	
	5.2			0.00E+00	
			ΣQ (m^3/s)	1.1901	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W1	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.178		Time:	11:35
Staff Gauge @ End	Height (m):	0.178		Time:	12:27
Right Bank: (m)	0.3	Left Bank: (m)	16.6	Total Width: (m)	16.3

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.30	Right Bank				
1.10	0.8	0.13	0.44	4.53E-02	
1.90	0.8	0.30	0.68	1.62E-01	
2.70	0.8	0.28	0.29	6.47E-02	
3.50	0.8	0.19	0.51	7.72E-02	
4.30	0.8	0.15	0.746	8.95E-02	
5.10	0.8	0.15	0.333	4.00E-02	
5.90	0.8	0.02	0.686	1.10E-02	
6.70	0.8	0.25	0.590	1.18E-01	
7.50	1.2	0.15	0.237	4.27E-02	
9.10	1.2	0.11	0.679	8.96E-02	
9.90	0.8	0.10	0.457	3.66E-02	
10.70	0.8	0.15	0.243	2.92E-02	
11.50	0.8	0.15	0.938	1.13E-01	
12.30	0.8	0.02	0.171	2.74E-03	
13.10	0.8	0.25	0.623	1.25E-01	
13.90	0.8	0.31	0.617	1.53E-01	
14.70	0.8	0.25	0.641	1.28E-01	
15.50	0.8	0.22	0.215	3.78E-02	
16.30	0.6	0.80	0.382	1.68E-01	
16.60	8.2			0.00E+00	
	8.3			0.00E+00	
			ΣQ (m^3/s)	1.5333	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W2	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	~.480		Time:	14:01
Staff Gauge @ End	Height (m):	~.480		Time:	14:50
Right Bank: (m)	0.2	Left Bank: (m)	15	Total Width: (m)	14.8

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.20	Right Bank				
0.95	0.8	0.15	0.063	7.09E-03	
1.70	0.8	0.23	0.267	4.61E-02	
2.45	0.8	0.20	0.088	1.32E-02	
3.20	0.8	0.22	0.190	3.14E-02	
3.95	0.8	0.32	0.180	4.32E-02	
4.70	0.8	0.20	0.181	2.72E-02	
5.45	0.8	0.22	0.103	1.70E-02	
6.20	0.8	0.20	0.306	4.59E-02	
6.95	0.8	0.28	0.173	3.63E-02	
7.70	0.8	0.26	0.319	6.22E-02	
8.45	0.8	0.33	0.254	6.29E-02	
9.20	0.8	0.35	0.284	7.46E-02	
9.95	0.8	0.25	0.149	2.79E-02	
10.70	0.8	0.31	0.082	1.91E-02	
11.45	0.8	0.34	0.121	3.09E-02	
12.20	0.8	0.35	0.009	2.36E-03	
12.95	0.8	0.28	0.019	3.99E-03	
13.70	0.8	0.12	0.061	5.49E-03	
14.45	0.7	0.40	0.012	3.12E-03	
15.00	7.2			0.00E+00	
	7.5			0.00E+00	
			ΣQ (m^3/s)	0.5597	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W3	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.622		Time:	15:19
Staff Gauge @ End	Height (m):	0.622		Time:	
Right Bank: (m)	1.1	Left Bank: (m)	12.8	Total Width: (m)	11.7

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
1.10	Right Bank				
1.07	0.6	0.20	0.063	7.56E-03	
2.30	0.9	0.16	0.267	3.91E-02	
2.90	0.6	0.18	0.088	9.50E-03	
3.50	0.6	0.17	0.190	1.94E-02	
4.10	0.6	0.17	0.180	1.84E-02	
4.70	0.6	0.19	0.181	2.06E-02	
5.30	0.6	0.18	0.103	1.11E-02	
5.90	0.6	0.15	0.306	2.75E-02	
6.50	0.6	0.20	0.173	2.08E-02	
7.10	0.6	0.18	0.319	3.45E-02	
7.70	0.6	0.21	0.254	3.20E-02	
8.30	0.6	0.20	0.284	3.41E-02	
8.90	0.6	0.19	0.149	1.70E-02	
9.50	0.6	0.31	0.082	1.53E-02	
10.10	0.6	0.25	0.121	1.82E-02	
10.70	0.6	0.36	0.009	1.94E-03	
11.30	0.6	0.31	0.019	3.53E-03	
11.90	0.8	0.30	0.061	1.37E-02	
12.80	6.0		0.012	0.00E+00	
	6.4			0.00E+00	
	0.0			0.00E+00	
			ΣQ (m^3/s)	0.3441	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W4	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.602		Time:	17:15
Staff Gauge @ End	Height (m):	0.602		Time:	17:50
Right Bank: (m)	0.6	Left Bank: (m)	8.3	Total Width: (m)	7.7

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.60	Right Bank				
1.00	0.4	1.50	0.000	0.00E+00	
1.40	0.4	0.36	0.000	0.00E+00	
1.80	0.4	0.66	0.004	1.06E-03	
2.20	0.4	0.19	0.238	1.81E-02	
2.60	0.4	0.45	0.006	1.08E-03	
3.00	0.4	0.46	0.000	0.00E+00	
3.40	0.4	0.40	0.000	0.00E+00	
3.80	0.4	0.36	0.000	0.00E+00	
4.20	0.4	0.32	0.151	1.93E-02	
4.60	0.4	0.20	0.237	1.90E-02	
5.00	0.4	0.18	0.035	2.52E-03	
5.40	0.4	0.24	0.000	0.00E+00	
5.80	0.4	0.25	0.000	0.00E+00	
6.20	0.4	0.28	0.000	0.00E+00	
6.60	0.4	0.26	0.000	0.00E+00	
7.00	0.4	0.31	0.000	0.00E+00	
7.40	0.4	0.46	0.000	0.00E+00	
7.80	0.4	0.33	0.000	0.00E+00	
8.20	0.3	0.50	0.000	0.00E+00	
8.30	4.1			0.00E+00	
	4.2			0.00E+00	
			ΣQ (m^3/s)	0.0610	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	C1	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.481		Time:	10:42
Staff Gauge @ End	Height (m):	0.481		Time:	11:09
Right Bank: (m)	0.7	Left Bank: (m)	4.85	Total Width: (m)	4.15

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.70	Right Bank				
1.05	0.4	0.10	0.115	4.03E-03	
1.40	0.4	0.15	0.103	5.41E-03	
1.75	0.4	0.20	0.138	9.66E-03	
2.10	0.4	0.15	0.212	1.11E-02	
2.45	0.4	0.30	0.100	1.05E-02	
2.80	0.4	0.25	0.155	1.36E-02	
3.15	0.4	0.25	0.140	1.23E-02	
3.50	0.4	0.30	0.091	9.56E-03	
3.85	0.4	0.35	0.000	0.00E+00	
4.20	0.4	0.15	0.076	3.99E-03	
4.55	0.3	0.40	0.000	0.00E+00	
4.85	2.3			0.00E+00	
	2.4			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
			ΣQ (m^3/s)	0.0801	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N1	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.374		Time:	16:01
Staff Gauge @ End	Height (m):	0.374		Time:	16:35
Right Bank: (m)	0.9	Left Bank: (m)	9.2	Total Width: (m)	8.3

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.90	Right Bank				
1.35	0.5	0.25	1.638	1.84E-01	
1.80	0.5	0.25	2.443	2.75E-01	
2.25	0.5	0.25	1.319	1.48E-01	
2.70	0.5	0.25	2.168	2.44E-01	
3.15	0.5	0.45	0.467	9.46E-02	
3.60	0.5	0.40	0.151	2.72E-02	
4.05	0.5	0.25	0.150	1.69E-02	
4.50	0.5	0.20	2.605	2.61E-01	
5.05	0.5	0.35	1.138	1.99E-01	
5.50	0.5	0.30	1.407	1.90E-01	
5.95	0.5	0.10	1.165	5.24E-02	
6.40	0.5	0.15	1.211	8.17E-02	
6.85	0.5	0.20	2.042	1.84E-01	
7.30	0.5	0.25	2.442	2.81E-01	
7.77	0.5	0.30	1.094	1.48E-01	
8.20	0.5	0.30	0.842	1.24E-01	
8.75	0.5	0.20	0.111	1.11E-02	
9.20	4.4			0.00E+00	
	4.6			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
			ΣQ (m^3/s)	2.5210	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N2	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.358		Time:	16:01
Staff Gauge @ End	Height (m):	0.358		Time:	16:35
Right Bank: (m)	0.2	Left Bank: (m)	9.05	Total Width: (m)	8.85

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.20	Right Bank				
0.55	0.3	0.25	1.767	1.44E-01	
0.85	0.3	0.25	0.926	7.52E-02	
1.20	0.4	0.25	0.424	3.71E-02	
1.55	0.4	0.20	0.350	2.45E-02	
1.90	0.4	0.15	1.007	5.29E-02	
2.25	0.4	0.15	0.824	4.33E-02	
2.60	0.3	0.15	0.124	5.58E-03	
2.85	0.4	0.30	0.002	2.10E-04	
3.30	0.4	0.15	0.565	3.18E-02	
3.60	0.4	0.15	0.213	1.12E-02	
4.00	0.4	0.10	0.373	1.40E-02	
4.35	0.4	0.10	0.073	2.66E-03	
4.73	0.4	0.10	0.360	1.26E-02	
5.05	0.3	0.20	0.470	3.15E-02	
5.40	0.4	0.20	0.642	4.49E-02	
5.75	0.4	0.20	0.730	5.11E-02	
6.10	0.4	0.20	1.537	1.08E-01	
6.45	0.4	0.15	0.68	3.56E-02	
6.80	0.4	0.20	0.67	4.66E-02	
7.15	0.4	0.20	0.74	5.20E-02	
7.50	0.4	0.15	0.05	2.73E-03	
7.85	0.8	0.20	0.22	3.33E-02	
9.05	3.9				
			ΣQ (m^3/s)	0.8599	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W1	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.144		Time:	8:56
Staff Gauge @ End	Height (m):	0.144		Time:	10:10
Right Bank: (m)	0.9	Left Bank: (m)	10.5	Total Width: (m)	9.6

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.90	Right Bank				
1.35	0.5	0.20	0.042	3.78E-03	
1.80	0.5	0.15	0.381	2.57E-02	
2.25	0.5	0.10	0.703	3.16E-02	
2.70	0.5	0.15	0.108	7.29E-03	
3.15	0.5	0.50	0.968	2.18E-01	
3.60	0.4	0.10	1.462	6.21E-02	
4.00	0.4	0.15	1.153	7.35E-02	
4.45	0.4	0.15	0.338	2.15E-02	
4.85	0.4	0.15	0.308	1.96E-02	
5.30	0.5	0.20	0.211	2.00E-02	
5.80	0.5	0.20	0.552	5.24E-02	
6.25	0.5	0.40	0.707	1.27E-01	
6.70	0.5	0.20	0.835	7.52E-02	
7.15	0.5	0.10	0.408	1.84E-02	
7.60	0.5	0.10	0.254	1.14E-02	
8.05	0.5	0.25	0.456	5.13E-02	
8.50	0.4	0.25	0.051	5.74E-03	
8.95	0.4	0.25	0.30	3.15E-02	
9.35	0.4	0.10	0.76	3.23E-02	
9.80	0.6	0.10	1.09	6.26E-02	
10.50	4.9			0.00E+00	
	5.3			0.00E+00	
	0.0				
			ΣQ (m^3/s)	0.9511	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W2	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.464		Time:	11:30
Staff Gauge @ End	Height (m):	0.464		Time:	12:13
Right Bank: (m)	0.6	Left Bank: (m)	10	Total Width: (m)	9.4

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.60	Right Bank				
1.05	0.5	0.50	0.042	9.45E-03	
1.50	0.5	0.10	0.020	9.00E-04	
1.95	0.5	0.15	0.074	5.00E-03	
2.40	0.5	0.15	0.145	9.79E-03	
2.85	0.5	0.25	0.132	1.49E-02	
3.30	0.5	0.25	0.255	2.87E-02	
3.75	0.5	0.30	0.205	2.77E-02	
4.20	0.5	0.30	0.288	3.89E-02	
4.65	0.5	0.35	0.496	7.81E-02	
5.10	0.5	0.30	0.312	4.21E-02	
5.55	0.5	0.30	0.400	5.40E-02	
6.00	0.5	0.30	0.108	1.46E-02	
6.45	0.5	0.35	0.222	3.50E-02	
6.90	0.5	0.30	0.201	2.71E-02	
7.35	0.5	0.25	0.005	5.63E-04	
7.80	0.5	0.25	0.007	7.88E-04	
8.25	0.5	0.25	0.000	0.00E+00	
8.70	0.5	0.20	0.00	0.00E+00	
9.15	0.5	0.10	0.00	0.00E+00	
9.60	0.4	0.10	0.00	0.00E+00	
10.00	4.8			0.00E+00	
	5.0			0.00E+00	
	0.0				
			ΣQ (m^3/s)	0.3875	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W3	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.595		Time:	12:52
Staff Gauge @ End	Height (m):	0.595		Time:	14:00
Right Bank: (m)	0.7	Left Bank: (m)	12.6	Total Width: (m)	11.9

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.70	Right Bank				
1.05	0.4	0.20	0.000	0.00E+00	
1.40	0.4	0.30	0.000	0.00E+00	
1.75	0.4	0.35	0.000	0.00E+00	
2.10	0.4	0.20	0.133	9.31E-03	
2.45	0.4	0.20	0.019	1.33E-03	
2.80	0.4	0.15	0.000	0.00E+00	
3.15	0.4	0.20	0.000	0.00E+00	
3.50	0.4	0.20	0.046	3.22E-03	
3.85	0.4	0.20	0.355	2.49E-02	
4.20	0.4	0.20	0.000	0.00E+00	
4.55	0.4	0.20	0.000	0.00E+00	
4.90	0.4	0.15	0.172	9.03E-03	
5.25	0.4	0.15	0.164	8.61E-03	
5.60	0.4	0.15	0.000	0.00E+00	
5.95	0.4	0.15	0.000	0.00E+00	
6.30	0.4	0.15	0.122	6.41E-03	
6.65	0.4	0.15	0.060	3.15E-03	
7.00	0.4	0.15	0.01	3.15E-04	
7.35	2.8	0.15	0.00	0.00E+00	
12.60	3.7			0.00E+00	
	6.3			0.00E+00	
	0.0			0.00E+00	
	0.0				
			ΣQ (m^3/s)	0.0662	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W4	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.56		Time:	14:10
Staff Gauge @ End	Height (m):	0.56		Time:	14:46
Right Bank: (m)	0.5	Left Bank: (m)	5.65	Total Width: (m)	5.15

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.50	Right Bank				
0.75	0.2	0.25	0.000	0.00E+00	
0.95	0.2	0.45	0.000	0.00E+00	
1.20	0.3	0.30	1.305	9.79E-02	
1.45	0.3	0.15	0.000	0.00E+00	
1.70	0.3	0.25	0.000	0.00E+00	
1.95	0.3	0.15	0.720	2.70E-02	
2.20	0.3	0.10	0.248	6.20E-03	
2.45	0.3	0.35	0.000	0.00E+00	
2.70	0.3	0.20	0.000	0.00E+00	
2.95	0.3	0.30	1.374	1.03E-01	
3.20	0.3	0.60	0.000	0.00E+00	
3.45	0.3	0.45	0.000	0.00E+00	
3.70	0.3	0.35	1.517	1.33E-01	
3.95	0.3	0.10	0.393	9.83E-03	
4.20	0.3	0.15	0.000	0.00E+00	
4.45	0.3	0.20	0.000	0.00E+00	
4.70	0.3	0.10	0.094	2.35E-03	
4.95	0.3	0.20	0.210	1.05E-02	
5.20	0.3	0.20	0.113	5.65E-03	
5.45	0.2	0.15	0.296	9.99E-03	
5.65	2.7			0.00E+00	
	2.8			0.00E+00	
	0.0				
			ΣQ (m^3/s)	0.4052	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N1	Traverse:	1	Date	11/08/2022
Sampler:	CN,RA	Recorder:	CN,RA	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.306		Time:	16:01
Staff Gauge @ End	Height (m):	0.306		Time:	16:35
Right Bank: (m)	1	Left Bank: (m)	16.1	Total Width: (m)	15.1

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
1.00	Right Bank				
1.75	0.8	0.18	0.000	0.00E+00	
2.50	0.8	0.21	0.000	0.00E+00	
3.25	0.8	0.22	0.111	1.83E-02	
4.00	0.8	0.24	0.127	2.29E-02	
4.75	0.8	0.27	0.190	3.85E-02	
5.50	0.8	0.25	0.138	2.59E-02	
6.25	0.8	0.21	0.233	3.67E-02	
7.00	0.8	0.28	0.186	3.91E-02	
7.75	0.8	0.20	0.229	3.44E-02	
8.50	0.8	0.20	0.329	4.94E-02	
9.25	0.8	0.25	0.000	0.00E+00	
10.00	0.8	0.14	0.455	4.78E-02	
10.75	0.8	0.20	0.055	8.25E-03	
11.50	0.6	0.18	0.339	3.81E-02	
12.00	0.6	0.20	0.000	0.00E+00	
12.75	0.3	0.18	0.166	7.47E-03	
12.50	0.8	0.20	0.000	0.00E+00	
14.25	1.3	0.18	0.18	4.03E-02	
15.00	0.8	0.21	0.36	5.67E-02	
15.75	0.6	0.21	0.38	4.39E-02	
16.10	7.9			0.00E+00	
			ΣQ (m^3/s)	0.5075	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N2	Traverse:	1	Date	11/08/2022
Sampler:	RA/CN	Recorder:	RA/CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.352		Time:	16:01
Staff Gauge @ End	Height (m):	0.352		Time:	16:35
Right Bank: (m)	0.5	Left Bank: (m)	10	Total Width: (m)	9.5

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.50	Right Bank				
1.00	0.5	0.04	3.200	6.40E-02	
1.50	0.5	0.31	5.490	8.51E-01	
2.00	0.5	0.30	0.115	1.73E-02	
2.50	0.5	0.31	0.255	3.95E-02	
3.00	0.5	0.20	0.000	0.00E+00	
3.50	0.5	0.17	0.000	0.00E+00	
4.00	0.5	0.17	0.000	0.00E+00	
4.50	0.5	0.24	0.000	0.00E+00	
5.00	0.5	0.31	0.002	3.10E-04	
5.50	0.5	0.35	0.731	1.28E-01	
6.00	0.5	0.31	0.169	2.62E-02	
6.50	0.5	0.00	0.000	0.00E+00	
7.00	0.5	0.28	0.000	0.00E+00	
7.50	0.5	0.28	0.089	1.25E-02	
8.00	0.5	0.28	0.362	5.07E-02	
8.50	0.5	0.30	0.317	4.76E-02	
9.00	0.5	0.26	0.249	3.19E-02	
9.50	0.5	0.00	0.00	0.00E+00	
10.00	4.8			0.00E+00	
	5.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0				
			ΣQ (m^3/s)	1.2687	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W3	Traverse:	1	Date	11/08/2022
Sampler:	RA/CN	Recorder:	RA/CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.612		Time:	12:52
Staff Gauge @ End	Height (m):	0.612		Time:	14:00
Right Bank: (m)	1	Left Bank: (m)	12	Total Width: (m)	11

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
1.00	Right Bank				
1.50	0.5	0.25	0.000	0.00E+00	
2.00	0.8	0.30	0.000	0.00E+00	
3.00	0.8	0.18	0.116	1.57E-02	
3.50	0.5	0.22	0.104	1.14E-02	
4.00	0.5	0.15	0.393	2.95E-02	
4.50	0.5	0.20	0.000	0.00E+00	
5.00	0.5	0.20	0.047	4.70E-03	
5.50	0.5	0.18	0.177	1.59E-02	
6.00	0.5	0.21	0.000	0.00E+00	
6.50	0.5	0.00	0.000	0.00E+00	
7.00	0.5	0.14	0.000	0.00E+00	
7.50	0.5	0.12	0.000	0.00E+00	
8.00	0.5	0.14	0.000	0.00E+00	
8.50	0.5	0.19	0.000	0.00E+00	
9.00	0.5	0.31	0.000	0.00E+00	
9.50	0.5	0.50	0.123	3.08E-02	
10.00	0.5	0.57	0.015	4.28E-03	
10.50	0.5	0.46	0.199	4.58E-02	
11.00	0.5	0.40	0.000	0.00E+00	
11.50	0.5	0.36	0.000	0.00E+00	
12.00	0.3	0.10	0.000	0.00E+00	
12.00	6.0			0.00E+00	
	6.0				
			ΣQ (m^3/s)	0.1580	RPD (%) see trav #2

Appendix E

Surface Water Quality Results

Appendix E Surface Water Quality Results

				Location	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7	WQ8	WQ9	WQ10	WQ11	WQ14	WQ15
				Sample ID	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7	WQ8	WQ9	WQ10	WQ11	WQ14	WQ15
				Sample Date	16/07/2022	16/07/2022	16/07/2022	15/07/2022	16/07/2022	16/07/2022	15/07/2022	15/07/2022	15/07/2022	15/07/2022	16/07/2022	16/07/2022	15/07/2022
Parameter		**Units**	**LDL**	CCME Protection of Aquatic Life (FAL, long term)													
Inorganics	Alkalinity (total) as CaCO3	mg/L	1		27.5	29.9	23.9	21.6	36.4	27.1	35.5	37.3	27.9	24.1	26.2	20.6	16.3
	Ammonia (as N)	mg/L	0	0.02|0.03|0.04|0.05|0.06|0.08|0.1|0.11|0.15|0.2|0.21|0.22|0.29|0.3|0.42|0.59|0.62|0.64|0.86|0.89|1.27|1.83|1.92|1.97|2.69|2.78|3.97|3.99|5.75|6.02|6.17|8.48|8.72|12.51|12.59|18.1|19|19.5|26.65|27.56|39.48|39.73|57.33|60.04|83.89|125.83|189.98	<0.01	<0.01	<0.01	0.011	0.011	<0.01	0.013	<0.01	0.012	0.014	0.01	0.027	<0.01
	Bicarbonate	mg/L	1		33.6	36.5	29.2	26.4	44.4	33.1	43.3	45.5	34	29.4	32	25.1	19.9
	Carbonate	mg/L	1		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
	Hardness as CaCO3	mg/L	0		27.6	29.6	23.7	21.2	35.2	26.6	35.7	38.5	27.8	24.1	25.4	20.6	17.9
	Hydroxide	mg/L	0		<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
	Nitrate (as N)	mg/L	0		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	Nitrate and nitrite (as N)	mg/L	0		<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
	Nitrite (as N)	mg/L	0	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	pH (Lab)	pH Units	0		7.54	7.6	7.47	7.41	7.69	7.53	7.64	7.67	7.5	7.46	7.54	7.41	7.29
	Phosphorus	µg/L	3	Note	<30 - 9.8	<30 - 9.1	<30 - 9.8	<30 - 15	<30 - 7.6	<30 - 7.9	<30 - 9.1	<30 - 8	<30 - 12.8	<30 - 9.2	<30 - 10	<30 - 6.7	<30 - 28
	Phosphorus (Filtered)	µg/L	30	Note	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
	Total Dissolved Solids (Filtered)	mg/L	4		42.1	43.1	34.6	34.9	50	37.9	56	52	40.5	37.7	38.7	33.1	32.5
	Total Suspended Solids	mg/l	3	25	<3	<3	<3	4.5	<3	<3	<3	<3	<3	<3	<3	<3	13.9
	Acidity (as CaCO3)	µg/L	2,000		<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000
Metals	Aluminium	µg/L	3	5|100	15.6	8.8	19.6	53.3	6.2	8.1	17.6	10.3	45.3	10	7.6	14.4	83.7
	Aluminium (Filtered)	µg/L	1		7.9	3.4	11.5	6.6	3.6	4.4	8.5	6.5	9.2	7.5	4.3	9.4	6
	Antimony	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Antimony (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Arsenic	µg/L	0	5	0.14	0.1	0.14	0.14	<0.1	<0.1	0.16	0.15	0.13	0.13	<0.1	0.12	0.18
	Arsenic (Filtered)	µg/L	0		0.12	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	0.12	<0.1	<0.1	<0.1	<0.1	0.14
	Barium	µg/L	0		85.2	86.7	73.5	65.5	133	108	98.4	119	85.1	70.5	84.5	53.4	55
	Barium (Filtered)	µg/L	0		75.4	77.8	65.7	58	124	93.8	88.8	109	81.3	65.2	79.9	50.2	43
	Beryllium	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Beryllium (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Bismuth	µg/L	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Bismuth (Filtered)	µg/L	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Boron	µg/L	10	1500	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Boron (Filtered)	µg/L	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Cadmium	µg/L	0	Eqn|0.04|0.37	<0.005	0.0059	<0.005	0.0096	0.0105	<0.005	0.013	0.0063	0.0084	<0.005	<0.005	<0.005	0.0054
	Cadmium (Filtered)	µg/L	0		<0.005	0.0059	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Calcium	mg/L	0		6.1	6.65	5.23	4.79	7.71	5.61	9.26	9.36	6.4	5.41	6.37	4.55	4.12
	Calcium (Filtered)	mg/L	0		6.15	6.74	5.37	4.89	7.56	5.71	8.8	9.05	6.48	5.54	6.27	4.6	4.16
	Cesium	µg/L	0		<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.024
	Cesium (Filtered)	µg/L	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Chromium	µg/L	0	1	0.2	0.15	0.17	0.25	0.15	0.17	0.19	0.18	0.24	0.13	0.2	0.17	0.43
	Chromium (Filtered)	µg/L	0		0.18	0.1	0.13	<0.1	<0.1	0.12	0.14	0.1	<0.1	<0.1	<0.1	<0.1	0.15
	Cobalt	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.24
	Cobalt (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Copper	µg/L	1	Eqn|2|4	0.64	0.59	0.72	0.57	0.83	<0.5	0.77	0.78	0.69	0.51	0.76	0.68	0.72
	Copper (Filtered)	µg/L	0		0.56	0.49	0.55	0.45	0.66	0.41	0.67	0.62	0.55	0.43	0.61	0.47	0.52
	Cyanide	µg/L	1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Iron	mg/L	0	0.3	0.192	0.064	0.106	0.153	0.029	0.069	0.116	0.093	0.103	0.051	0.116	0.033	0.638
	Iron (Filtered)	mg/L	0		0.112	0.032	0.047	0.036	0.013	0.035	0.041	0.037	0.026	0.025	0.068	0.015	0.059
	Lead	µg/L	0	Eqn|1|7	<0.05	<0.05	<0.05	0.054	<0.05	<0.05	<0.05	<0.05	0.055	<0.05	<0.05	<0.05	0.111
	Lead (Filtered)	µg/L	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Lithium	µg/L	1		<1	<1	<1	<1	<1	<1	1.3	1.2	1.1	<1	<1	<1	1.2
	Lithium (Filtered)	µg/L	1		<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	1.1

Appendix E Surface Water Quality Results

				Location	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7	WQ8	WQ9	WQ10	WQ11	WQ14	WQ15
				Sample ID	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7	WQ8	WQ9	WQ10	WQ11	WQ14	WQ15
				Sample Date	16/07/2022	16/07/2022	16/07/2022	15/07/2022	16/07/2022	16/07/2022	15/07/2022	15/07/2022	15/07/2022	15/07/2022	16/07/2022	16/07/2022	15/07/2022
Parameter		**Units**	**LDL**	CCME Protection of Aquatic Life (FAL, long term)													
	Magnesium	mg/L	0		2.98	3.08	2.46	2.44	4.09	2.94	3.65	4.17	3.17	2.75	2.4	2.39	1.92
	Magnesium (Filtered)	mg/L	0		2.96	3.1	2.5	2.19	3.96	3	3.33	3.87	2.82	2.48	2.37	2.2	1.83
	Manganese	µg/L	0	200|220|240|250|260|270|290|300|310|320|330|350|370|380|390|400|420|430|440|460|470|480|490|500|520|530|540|550|560|570|590|600|610|620|640|650|660|670|690|700|710|720|730|740|750|760|770|790|830|840|860|880|890|930|940|1000|1100|1200|1300|1400|1500	5.47	9.06	11.7	9.12	5.85	4.16	10.3	6.94	8.26	4.21	2.67	2.9	89.5
	Manganese (Filtered)	µg/L	0	200|220|240|250|260|270|290|300|310|320|330|350|370|380|390|400|420|430|440|460|470|480|490|500|520|530|540|550|560|570|590|600|610|620|640|650|660|670|690|700|710|720|730|740|750|760|770|790|830|840|860|880|890|930|940|1000|1100|1200|1300|1400|1500	0.4	0.43	0.23	0.2	0.21	0.15	0.24	0.13	0.18	0.17	0.21	0.16	0.55
	Mercury	µg/L	0	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Mercury (Filtered)	µg/L	0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Molybdenum	µg/L	0	73	0.161	0.152	0.202	0.128	0.217	0.205	0.137	0.151	0.118	0.095	0.198	0.078	0.108
	Molybdenum (Filtered)	µg/L	0		0.145	0.14	0.184	0.153	0.21	0.202	0.151	0.142	0.135	0.116	0.182	0.083	0.113
	Nickel	µg/L	1	Eqn|25|150	0.81	0.72	0.59	0.59	0.61	0.61	0.76	0.66	0.67	<0.5	<0.5	0.53	0.83
	Nickel (Filtered)	µg/L	1		0.75	0.68	0.6	<0.5	0.52	0.57	0.69	0.63	0.52	<0.5	<0.5	0.53	0.56
	Potassium	mg/L	0		0.427	0.452	0.468	0.405	0.373	0.372	0.332	0.367	0.379	0.361	0.305	0.447	0.492
	Potassium (Filtered)	mg/L	0		0.406	0.426	0.448	0.385	0.35	0.334	0.317	0.358	0.361	0.35	0.287	0.442	0.454
	Rubidium	µg/L	0		1.22	0.94	1.12	1.02	0.9	0.96	0.97	0.96	1.04	0.98	0.87	0.96	2.1
	Rubidium (Filtered)	µg/L	0		1.03	0.94	1.02	0.89	0.73	0.77	0.84	0.91	0.92	0.87	0.79	0.89	1.75
	Selenium	µg/L	0	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Selenium (Filtered)	µg/L	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Silicon	µg/L	100		560	560	380	440	610	490	800	800	520	330	540	290	400
	Silicon (Filtered)	µg/L	50		480	517	346	341	587	510	737	791	427	326	465	240	206
	Silver	µg/L	0	0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Silver (Filtered)	µg/L	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sodium	mg/L	0		0.774	0.795	0.706	0.635	0.658	0.647	1.07	0.952	0.689	0.623	0.487	0.699	0.725
	Sodium (Filtered)	mg/L	0		0.751	0.772	0.692	0.618	0.627	0.633	0.973	0.909	0.661	0.592	0.475	0.661	0.681
	Strontium	µg/L	0		88.3	79.9	66.1	59.7	127	100	85	104	74.7	64	73.7	73.3	54.6
	Strontium (Filtered)	µg/L	0		83.1	77.7	63.3	57.3	116	96.4	80.3	105	76.5	64.1	68.1	73.1	52.8
	Sulfur, elemental	µg/L	500		<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
	Sulfur, elemental (Filtered)	µg/L	500		<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
	Tellurium	µg/L	0		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Tellurium (Filtered)	µg/L	0		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Thallium	µg/L	0	0.8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Thallium (Filtered)	µg/L	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Thorium	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Thorium (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tin	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tin (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Titanium	µg/L	0		0.33	<0.3	<0.3	1.95	<0.3	<0.3	0.44	<0.3	2.24	<0.3	<0.3	<0.3	2.82
	Titanium (Filtered)	µg/L	0		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.32	<0.3
	Tungsten	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tungsten (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Uranium	µg/L	0	15	0.173	0.188	0.153	0.113	0.436	0.338	0.156	0.162	0.153	0.114	0.177	0.07	0.097
	Uranium (Filtered)	µg/L	0		0.172	0.191	0.14	0.083	0.422	0.319	0.144	0.167	0.143	0.113	0.169	0.063	0.063
	Vanadium	µg/L	1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Vanadium (Filtered)	µg/L	1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Zinc	µg/L	3	7	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
	Zinc (Filtered)	µg/L	1	7	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1
	Zirconium	µg/L	0		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.25
	Zirconium (Filtered)	µg/L	0		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Appendix E Surface Water Quality Results

				Location	WQ16			WQ17			WQ19	WQ20	WQ21	WQ23	WQ24
				Sample ID	WQ16	DUP B	RPD %	WQ17	DUP A	RPD %	WQ19	WQ20	WQ21	WQ23	WQ24
				Sample Date	16/07/2022	16/07/2022		16/07/2022	16/07/2022		16/07/2022	16/07/2022	16/07/2022	16/07/2022	16/07/2022
Parameter		**Units**	**LDL**	CCME Protection of Aquatic Life (FAL, long term)											
Inorganics	Alkalinity (total) as CaCO3	mg/L	1		10.9	10.5	4%	10.7	11	3%	21.8	15	30.6	36.2	38.6
	Ammonia (as N)	mg/L	0	0.02|0.03|0.04|0.05|0.06|0.08|0.1|0.11|0.15|0.2|0.21|0.22|0.29|0.3|0.42|0.59|0.62|0.64|0.86|0.89|1.27|1.83|1.92|1.97|2.69|2.78|3.97|3.99|5.75|6.02|6.17|8.48|8.72|12.51|12.59|18.1|19|19.5|26.65|27.56|39.48|39.73|57.33|60.04|83.89|125.83|189.98	0.014	<0.01	nc	0.014	<0.01	nc	<0.01	0.018	0.013	0.02	0.023
	Bicarbonate	mg/L	1		13.3	12.8	4%	13.1	13.4	2%	26.6	18.3	37.3	44.2	47.1
	Carbonate	mg/L	1		<0.6	<0.6	nc	<0.6	<0.6	nc	<0.6	<0.6	<0.6	<0.6	<0.6
	Hardness as CaCO3	mg/L	0		12.7	12.2	4%	12.9	12.2	6%	22.1	16.8	30.6	33.1	46.9
	Hydroxide	mg/L	0		<0.34	<0.34	nc	<0.34	<0.34	nc	<0.34	<0.34	<0.34	<0.34	<0.34
	Nitrate (as N)	mg/L	0		<0.02	<0.02	nc	<0.02	<0.02	nc	<0.02	<0.02	<0.02	<0.02	<0.02
	Nitrate and nitrite (as N)	mg/L	0		<0.07	<0.07	nc	<0.07	<0.07	nc	<0.07	<0.07	<0.07	<0.07	<0.07
	Nitrite (as N)	mg/L	0	0.06	<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01
	pH (Lab)	pH Units	0		7.18	7.17	0%	7.16	7.21	1%	7.44	7.33	7.59	7.63	7.64
	Phosphorus	µg/L	3	Note	<30 - 8.4	<30 - 7.5	nc	<30 - 8.6	<30 - 7.9	nc	<30 - 6.4	<30 - 18.6	<30 - 12.3	<30 - 16.4	<30 - 12.3
	Phosphorus (Filtered)	µg/L	30	Note	<30	<30	nc	<30	<30	nc	<30	<30	<30	<30	<30
	Total Dissolved Solids (Filtered)	mg/L	4		25.1	23	9%	14.1	21.7	42%	42	29.2	40.4	81	90
	Total Suspended Solids	mg/l	3	25	<3	<3	nc	<3	<3	nc	<3	<3	<3	<3	<3
	Acidity (as CaCO3)	µg/L	2,000		<2000	<2000	nc	<2000	<2000	nc	<2000	<2000	<2000	<2000	<2000
Metals	Aluminium	µg/L	3	5|100	16.2	24.2	40%	20.9	15.6	29%	20.1	72.6	19.9	107	75
	Aluminium (Filtered)	µg/L	1		6.5	7.3	12%	7.6	6.1	22%	15	7.4	10.4	80	52.7
	Antimony	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Antimony (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Arsenic	µg/L	0	5	0.13	0.11	17%	0.15	0.12	22%	0.13	0.15	0.15	0.31	0.29
	Arsenic (Filtered)	µg/L	0		0.11	0.11	0%	0.11	<0.1	nc	0.11	0.11	0.14	0.25	0.26
	Barium	µg/L	0		12	13.1	9%	12.1	12	1%	50.4	36.3	132	129	74.6
	Barium (Filtered)	µg/L	0		11.3	11.7	3%	11.1	11.1	0%	45.3	33.2	126	114	71.4
	Beryllium	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Beryllium (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Bismuth	µg/L	0		<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05
	Bismuth (Filtered)	µg/L	0		<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05
	Boron	µg/L	10	1500	<10	<10	nc	<10	<10	nc	<10	<10	<10	<10	<10
	Boron (Filtered)	µg/L	10		<10	<10	nc	<10	<10	nc	<10	<10	<10	<10	<10
	Cadmium	µg/L	0	Eqn|0.04|0.37	<0.005	<0.005	nc	0.0332	<0.005	nc	<0.005	0.0103	0.0065	0.0158	0.0082
	Cadmium (Filtered)	µg/L	0		0.0054	<0.005	nc	0.0103	<0.005	nc	<0.005	<0.005	<0.005	0.0091	<0.005
	Calcium	mg/L	0		3.24	3.25	0%	3.23	3.23	0%	5.06	3.89	7.16	10	13.9
	Calcium (Filtered)	mg/L	0		3.29	3.1	6%	3.36	3.17	6%	4.94	3.96	7.33	6.89	14.3
	Cesium	µg/L	0		<0.01	0.012	nc	<0.01	<0.01	nc	<0.01	0.016	<0.01	<0.01	0.011
	Cesium (Filtered)	µg/L	0		<0.01	0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01
	Chromium	µg/L	0	1	0.14	0.25	56%	0.15	<0.1	nc	0.22	0.36	0.18	0.62	0.5
	Chromium (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	0.14	<0.1	0.11	0.49	0.35
	Cobalt	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	0.12	<0.1
	Cobalt (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Copper	µg/L	1	Eqn|2|4	<0.5	<0.5	nc	0.59	<0.5	nc	1.05	0.56	0.77	1.88	5.12
	Copper (Filtered)	µg/L	0		0.32	0.3	6%	0.39	0.32	20%	0.95	0.45	0.63	1.58	4.44
	Cyanide	µg/L	1		<1	<1	nc	<1	<1	nc	<1	<1	<1	1	<1
	Iron	mg/L	0	0.3	0.071	0.079	11%	0.065	0.056	15%	0.056	0.2	0.311	0.614	0.683
	Iron (Filtered)	mg/L	0		0.018	0.016	12%	0.015	0.014	7%	0.028	0.033	0.166	0.357	0.438
	Lead	µg/L	0	Eqn|1|7	<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	0.055	0.174
	Lead (Filtered)	µg/L	0		<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	0.103
	Lithium	µg/L	1		<1	<1	nc	<1	<1	nc	<1	<1	1.1	1.6	1.2
	Lithium (Filtered)	µg/L	1		<1	<1	nc	<1	<1	nc	<1	<1	1.2	1.2	1.3

Appendix E Surface Water Quality Results

				Location	WQ16			WQ17			WQ19	WQ20	WQ21	WQ23	WQ24
				Sample ID	WQ16	DUP B	RPD %	WQ17	DUP A	RPD %	WQ19	WQ20	WQ21	WQ23	WQ24
				Sample Date	16/07/2022	16/07/2022		16/07/2022	16/07/2022		16/07/2022	16/07/2022	16/07/2022	16/07/2022	16/07/2022
Parameter		Units	LDL	CCME Protection of Aquatic Life (FAL, long term)											
	Magnesium	mg/L	0		1.12	1.07	5%	1.11	1.07	4%	2.36	1.76	2.86	4.27	2.97
	Magnesium (Filtered)	mg/L	0		1.09	1.07	2%	1.09	1.04	5%	2.36	1.68	2.98	3.86	2.75
	Manganese	µg/L	0	200|220|240|250|260|270|290|300|310|320|330|350|370|380|390|400|420|430|440|460|470|480|490|500|520|530|540|550|560|570|590|600|610|620|640|650|660|670|690|700|710|720|730|740|750|760|770|790|830|840|860|880|890|930|940|1000|1100|1200|1300|1400|1500	12.2	13.2	8%	14.3	12.1	17%	4.7	15.1	11.5	8.05	13.8
	Manganese (Filtered)	µg/L	0	200|220|240|250|260|270|290|300|310|320|330|350|370|380|390|400|420|430|440|460|470|480|490|500|520|530|540|550|560|570|590|600|610|620|640|650|660|670|690|700|710|720|730|740|750|760|770|790|830|840|860|880|890|930|940|1000|1100|1200|1300|1400|1500	0.44	0.26	51%	0.48	0.48	0%	0.31	0.29	0.69	2.15	3.07
	Mercury	µg/L	0	0.026	<0.005	<0.005	nc	<0.005	<0.005	nc	<0.005	<0.005	<0.005	<0.005	<0.005
	Mercury (Filtered)	µg/L	0		<0.005	<0.005	nc	<0.005	<0.005	nc	<0.005	<0.005	<0.005	<0.005	<0.005
	Molybdenum	µg/L	0	73	0.082	0.107	26%	0.087	0.089	2%	0.091	0.1	0.112	0.114	0.214
	Molybdenum (Filtered)	µg/L	0		0.096	0.086	11%	0.089	0.088	1%	0.087	0.098	0.099	0.085	0.229
	Nickel	µg/L	1	Eqn|25|150	<0.5	<0.5	nc	<0.5	<0.5	nc	1.01	0.57	0.68	2.21	2.14
	Nickel (Filtered)	µg/L	1		<0.5	<0.5	nc	<0.5	<0.5	nc	0.95	<0.5	0.6	1.97	1.89
	Potassium	mg/L	0		0.493	0.493	0%	0.537	0.507	6%	0.394	0.489	0.533	0.322	0.676
	Potassium (Filtered)	mg/L	0		0.479	0.481	0%	0.514	0.481	7%	0.379	0.448	0.553	0.303	0.67
	Rubidium	µg/L	0		1.3	1.42	9%	1.38	1.28	8%	0.81	1.4	1.41	0.77	1.53
	Rubidium (Filtered)	µg/L	0		1.27	1.44	13%	1.35	1.34	1%	0.83	1.12	1.38	0.69	1.38
	Selenium	µg/L	0	1	<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	0.06	0.1
	Selenium (Filtered)	µg/L	0		<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	0.071	0.11
	Silicon	µg/L	100		220	210	5%	240	240	0%	1170	360	280	1070	710
	Silicon (Filtered)	µg/L	50		182	167	9%	181	189	4%	1090	220	219	1050	719
	Silver	µg/L	0	0.25	<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	0.011
	Silver (Filtered)	µg/L	0		<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01
	Sodium	mg/L	0		0.595	0.566	5%	0.741	0.566	27%	1.01	0.681	0.82	1.7	0.858
	Sodium (Filtered)	mg/L	0		0.615	0.536	14%	0.636	0.531	18%	0.983	0.629	0.834	1.49	0.784
	Strontium	µg/L	0		16.5	17.5	6%	15.9	16.4	3%	55.3	48.8	148	101	65.4
	Strontium (Filtered)	µg/L	0		15.5	15.2	2%	16.2	15.3	6%	51.9	48.1	138	71.3	68.1
	Sulfur, elemental	µg/L	500		<500	<500	nc	<500	<500	nc	<500	<500	<500	<500	960
	Sulfur, elemental (Filtered)	µg/L	500		<500	<500	nc	<500	<500	nc	<500	<500	<500	<500	1290
	Tellurium	µg/L	0		<0.2	<0.2	nc	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<0.2
	Tellurium (Filtered)	µg/L	0		<0.2	<0.2	nc	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<0.2
	Thallium	µg/L	0	0.8	<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01
	Thallium (Filtered)	µg/L	0		<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01
	Thorium	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Thorium (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Tin	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Tin (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Titanium	µg/L	0		0.32	0.44	32%	0.59	<0.3	nc	<0.3	2.74	<0.3	0.82	0.9
	Titanium (Filtered)	µg/L	0		<0.3	<0.3	nc	<0.3	<0.3	nc	<0.3	<0.3	<0.3	0.37	0.49
	Tungsten	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Tungsten (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Uranium	µg/L	0	15	0.056	0.062	10%	0.056	0.055	2%	0.071	0.075	0.102	0.115	0.312
	Uranium (Filtered)	µg/L	0		0.049	0.051	4%	0.051	0.049	4%	0.07	0.055	0.098	0.08	0.31
	Vanadium	µg/L	1		<0.5	<0.5	nc	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5
	Vanadium (Filtered)	µg/L	1		<0.5	<0.5	nc	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5
	Zinc	µg/L	3	7	<3	<3	nc	<3	<3	nc	<3	<3	<3	3	<3
	Zinc (Filtered)	µg/L	1	7	<1	<1	nc	<1	<1	nc	<1	<1	<1	1.4	<1
	Zirconium	µg/L	0		<0.2	<0.2	nc	<0.2	<0.2	nc	0.3	<0.2	<0.2	0.66	0.45
	Zirconium (Filtered)	µg/L	0		<0.2	<0.2	nc	<0.2	<0.2	nc	0.3	<0.2	<0.2	0.53	0.46