

Appendix 8-3

Field Data & Laboratory Results

Site	Sample Localt	Sample Date	°C	DO%	DO mg/l	EC (µs/cm)	TDS (ppm)	pH	ORP (mV)	Turbidity NTU	Staff Gauge	Streamflow (L/s)	Notes	Culvert pipe diameters (mm)		Pipe type
														pipe 1	pipe 2	
Carrowmagown WF	1	SW1	30/08/2018	12.8	94	9.97	99	84	7.6			~100				
Carrowmagown WF	1	SW1	24/09/2018													
Carrowmagown WF	1	SW1	19/10/2018											600	600	
Carrowmagown WF	1	SW1	26/11/2018													
Carrowmagown WF	2	SW2	30/08/2018 17:50	13.5	89.3	9.31	103.3	86	7.9			3.98				
Carrowmagown WF	2	SW2	24/09/2018													
Carrowmagown WF	2	SW2	19/10/2018											900		
Carrowmagown WF	2	SW2	26/11/2018													
Carrowmagown WF	3	SW3	30/08/2018	11.7	93.8	10.19	94.4	82	7.9			3.13				
Carrowmagown WF	3	SW3	24/09/2018	9.7	96	10.92	85.6	79	8.1	280.1						
Carrowmagown WF	3	SW3	19/10/2018	9	95.3	11.02	131.4	85	8	320.7		3.51				
Carrowmagown WF	3	SW3	26/11/2018	7.3	93.4	11.25	137.9	90	8.1	271.3		0.43				
Carrowmagown WF	4	SW4	30/08/2018	11.6	95	10.33	95	83.1	7.8			1.33		1000		
Carrowmagown WF	4	SW4	24/09/2018	9.1	96.3	11.1	85	79	8	271						
Carrowmagown WF	4	SW4	19/10/2018	8.6	95.5	11.17	143.3	93	8	305.4		1.25				
Carrowmagown WF	4	SW4	26/11/2018	6.4	94.7	11.67	130.8	85	8	310.2		1.07				
Carrowmagown WF	4	SW4	30/01/2019	4	95.6	12.52	89.4	58	7.2	216.3		800				
Carrowmagown WF	5	SW5	30/08/2018 14:45	11.7	55.1	5.96	113	99	5.4			1.32				
Carrowmagown WF	5	SW5	24/09/2018													
Carrowmagown WF	5	SW5	19/10/2018	8.8	58.5	6.78	85.9	56	6	363.8		0.72				
Carrowmagown WF	5	SW5	26/11/2018													
Carrowmagown WF	6	SW6	30/08/2018 15:10	12.2	90.6	9.73	73	61	7.2			1.9				
Carrowmagown WF	6	SW6	24/09/2018	8.8	92.9	10.78	61.7	58	8	229.2		1.87				
Carrowmagown WF	6	SW6	19/10/2018	8.7	91.1	10.62	102.8	67	7	349.3		1.34				
Carrowmagown WF	6	SW6	26/11/2018	6.3	92	11.37	95.7	62	7.7	322		1.86				
Carrowmagown WF	6	SW6	30/01/2019	3.4	91.5	12.18	74.1	48	6.8	245.8						
Carrowmagown WF	7	SW7	30/08/2018	10.9	93.7	10.34	91.5	81	7.8			1.09				
Carrowmagown WF	7	SW7	24/09/2018	9.2	95.4	10.97	87	81	8	233.9		4.41				
Carrowmagown WF	7	SW7	19/10/2018	8.5	94.2	11.01	141.8	92	8	253.6		0.47	1.23			
Carrowmagown WF	7	SW7	26/11/2018	6.8	93.4	11.38	135.9	88	8	279.3		0.51				
Carrowmagown WF	7	SW7	30/01/2019	4.4	93.9	12.16	103.7	67	7.5	237.6			1.3			
Carrowmagown WF	8	SW8	30/08/2018	12.2	93	9.97	101	87	7.7			1.26				
Carrowmagown WF	8	SW8	24/09/2018													
Carrowmagown WF	8	SW8	19/10/2018	8.2	94.1	11.09	146.8	95	8	266.8		0.95				
Carrowmagown WF	8	SW8	26/11/2018	6.5	93.3	11.46	134.5	87	8	298.1		1.05				
Carrowmagown WF	9	SW9	30/08/2018	12.4	88.3	9.43	174	149	7.7			0.97				
Carrowmagown WF	9	SW9	24/09/2018													
Carrowmagown WF	9	SW9	19/10/2018													
Carrowmagown WF	9	SW9	26/11/2018													
Carrowmagown WF	10	SW10	30/08/2018	12.2	91.5	9.81	57.5	49	6.2			3				
Carrowmagown WF	10	SW10	24/09/2018													
Carrowmagown WF	10	SW10	19/10/2018	8.9	92.9		77.2	50	7.4	313.9		4.54				
Carrowmagown WF	10	SW10	26/11/2018	6	92.3	11.48	69.7	45	6.2	341.8		3.74				
Carrowmagown WF	10	SW10	30/01/2019	3.2	93.8	12.59	72.4	47	4.7	326.9						
Carrowmagown WF	11	SW11	30/08/2018 15:45	11.3	90.9	9.94	74.7	66	7.6			0.42				
Carrowmagown WF	11	SW11	24/09/2018													
Carrowmagown WF	11	SW11	19/10/2018													
Carrowmagown WF	11	SW11	26/11/2018													
Carrowmagown WF	12	SW12	30/08/2018	11	93.9	10.34	94.5	84	7.9			0.27				
Carrowmagown WF	12	SW12	24/09/2018													
Carrowmagown WF	12	SW12	19/10/2018	8.7	95	11.06	140	91	8.1	333.1		0.27				
Carrowmagown WF	12	SW12	26/11/2018													
Carrowmagown Grid	15	SW15	30/01/2019	4.9	97	12.43	91.4	59	7.5	212.4		7.43				
Carrowmagown Grid	15	SW15	14/02/2019	9.2	101	11.64	131.7	86	7.8	225.6		2.48				
Carrowmagown Grid	16	SW16	30/01/2019	5.3	96.9	12.18	102.5	67	7.2	217		8.41				
Carrowmagown Grid	16	SW16	14/02/2019	9.5	101	11.51	142.9	93	7.6	200.2		2.06				
Carrowmagown Grid	17	SW17	30/01/2019	5.5	96.2	12.12	107.2	70	7	228		9.35				
Carrowmagown Grid	17	SW17	14/02/2019	9.6	99.2	11.31	130.6	85	7.5	215		5.03				
Carrowmagown Grid	18	SW18	30/01/2019	6	96.1	11.94	119.8	78	6.7	277.4		8.12				
Carrowmagown Grid	18	SW18	14/02/2019	9.4	98.2	11.23	132.4	86	7.6	219.5		0.98				
Carrowmagown Grid	19	SW19	30/01/2019	6.7	95.6	11.68	130.2	85	7.3	222.7		11.23				
Carrowmagown Grid	19	SW19	14/02/2019	9.2	98.9	11.38	130.3	85	7.6	250.1		2.87				
Carrowmagown Grid	20	SW20	30/01/2019	6.3	96.1	11.89	124.9	81	7.5	216.4		10.65				
Carrowmagown Grid	20	SW20	14/02/2019	9.8	88.8	10.06	169.2	110	7.2	232.8		2.59				
Carrowmagown Grid	21	SW21	30/01/2019	6.2	96.5	11.94	183.5	119	7.7	229.3		6.83				
Carrowmagown Grid	21	SW21	14/02/2019	9.2	101	11.54	170.1	111	7.8	220.3		2.16				
Carrowmagown Grid	22	SW22	30/01/2019	5	93	11.87	135.8	88	7.4	238.2		9.3				
Carrowmagown Grid	22	SW22	14/02/2019	9.1	98.7	11.39	186.9	118	7.7	244.1		4.22				
Carrowmagown Grid	23	SW23	30/01/2019	5.1	95.3	12.15	99.2	64	7.4	221.8		9.1				
Carrowmagown Grid	23	SW23	14/02/2019	9	97.6	11.29	133.1	87	7.5	256.6		2.19				
Carrowmagown Grid	24	SW24	30/01/2019	5.3	91.8	11.63	139.6	91	7.3	255.7		8.23				
Carrowmagown Grid	24	SW24	14/02/2019	9.2	96	11.03	219.3	143	7.5	257.2		2.67				

Site	Units		Date Tested	mg / l	mg/l P	mg/l O2	mg/l P	mg/l CL	mg/l NO3	mg/l NO2	mg/l NH3-N	mg/l N
	Sample Location	Sample Date		Suspended Solids	Phosphorus	BOD 5 day Total	Orthophosphate	Chloride	Nitrate	Nitrite	Ammonia	Nitrogen Total
Carrownagown WF	SW3	30/08/2018	01/09/2018	<5	0.1	3	0.02	10.7	<5.0		0.02	
Carrownagown WF	SW4	30/08/2018	01/09/2018	<5	<0.10	<5	<0.02	11.7	<5.0		0.02	
Carrownagown WF	SW5	30/08/2018	01/09/2018	<5	<0.10	<5	<0.02	18.4	<5.0		0.04	
Carrownagown WF	SW6	30/08/2018	01/09/2018	<5	0.15	3	0.09	12.1	<5.0		0.02	
Carrownagown WF	SW7	30/08/2018	01/09/2018	<5	<0.10	<5	<0.02	10.6	<5.0		<0.02	
Carrownagown WF	SW8	30/08/2018	01/09/2018	<5	<0.10	<5	<0.02	11.4	<5.0		<0.02	
Carrownagown WF	SW10	30/08/2018	01/09/2018	<18	<0.10	<5	<0.02	13.6	<5.0		0.03	
Carrownagown WF	SW12	30/08/2018	01/09/2018	<5	<0.10	<2	<0.02	8.6	<5.0		0.02	
Carrownagown WF	SW3	24/09/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carrownagown WF	SW4	24/09/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carrownagown WF	SW5	24/09/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carrownagown WF	SW6	24/09/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carrownagown WF	SW7	24/09/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carrownagown WF	SW8	24/09/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carrownagown WF	SW10	24/09/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carrownagown WF	SW12	24/09/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carrownagown WF	SW3	19/10/2018	19/10/2018	<5	<0.10	3	<0.02	11.8	<5.0	<0.05	0.02	<1.0
Carrownagown WF	SW4	19/10/2018	19/10/2018	<5	<0.10	<2	<0.02	11.4	<5.0	<0.05	<0.02	<1.0
Carrownagown WF	SW5	19/10/2018	19/10/2018	<5	<0.10	2	<0.02	17.1	<5.0	<0.05	0.03	<1.0
Carrownagown WF	SW6	19/10/2018	19/10/2018	<5	<0.10	2	0.05	11.9	<5.0	<0.05	0.02	<1.0
Carrownagown WF	SW7	19/10/2018	19/10/2018	<5	<0.10	1	<0.02	10.4	<5.0	<0.05	<0.02	<1.0
Carrownagown WF	SW8	19/10/2018	19/10/2018	<5	<0.10	<2	<0.02	10.9	<5.0	<0.05	<0.02	<1.0
Carrownagown WF	SW10	19/10/2018	19/10/2018	<5	<0.10	1	<0.02	15.4	<5.0	<0.05	0.02	<1.0
Carrownagown WF	SW12	19/10/2018	19/10/2018	<5	<0.10	<2	<0.02	8.6	<5.0	<0.05	<0.02	<1.0
Carrownagown Grid	SW15	31/01/2019	01/02/2019	88	0.25	10	<0.02	12.6	8.3	<0.05	0.06	6.8
Carrownagown Grid	SW18	31/01/2019	01/02/2019	16	<0.10	<2	<0.02	12	6.2	<0.05	0.08	1.5
Carrownagown Grid	SW22	31/01/2019	01/02/2019	46	0.14	3	<0.02	17.3	<5.0	<0.05	0.13	2
Carrownagown Grid	SW23	31/01/2019	01/02/2019	36	0.18	3	0.04	11.3	<5.0	<0.05	0.14	2.9
Carrownagown Grid	SW15	14/02/2019	15/02/2019	<5	<0.10	<5	<0.02	14.7	20.2	<0.05	0.02	4.8
Carrownagown Grid	SW18	14/02/2019	15/02/2019	<5	<0.10	<5	<0.02	12	7.4	<0.05	<0.02	1.8
Carrownagown Grid	SW22	14/02/2019	15/02/2019	<5	<0.10	<5	<0.02	17	12.1	<0.05	0.02	2.8
Carrownagown Grid	SW23	14/02/2019	15/02/2019	6	<0.10	<5	<0.02	16	6.7	<0.05	0.02	1.6