

Ku-ring-gai Stream Health Monitoring: Water Quality Data 1998 - present

Reference Monitoring Site A - Deep Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (28/4/98)	151	1.80	78.33	5.3						5.59
Spring 1998 (27/10/98)	171	6.20	80.74	6.0						5.42
Autumn 1999 (25/3/99)	189	2.49	89.91	5.2						5.78
Spring 1999 (15/10/99)	192	1.18	91.27	5.1						5.83
Autumn 2000 (28/3/00)	156	1.14	91.17	5.2						5.47
Spring 2007 (15/10/07)				5.5			0.05	0.19		
Spring 2007 (22/10/07)				5.6			0.10	0.09		
Spring 2007 (29/10/07)				6.4			0.40	0.08		
Spring 2007 (5/11/07)							0.05	0.06		

Reference Monitoring Site B - Keirans Creek / Cowan Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (30/4/98)	168	2.39	74.50	6.1						5.50
Spring 1998 (28/10/98)	182	3.50	85.01	5.9						5.22
Autumn 1999 (26/3/99)	170	2.50	83.18	6.5						5.78
Spring 1999 (15/10/99)	261	1.48	79.73	6.1						5.84
Autumn 2000 (30/3/00)	148	2.16	85.89	5.8						6.01
Autumn 2003 (2/4/03)	210	2.00	80.00	6.3						4.33
Summer 2006-2007 (7/1/07)										3.80
Summer 2006-2007 (8/1/07)										4.75
Summer 2006-2007 (9/1/07)										4.47
Summer 2006-2007 (10/1/07)	222	9.80	49.55	6.7						
Summer 2006-2007 (12/1/07)	222	11.00	58.65	6.8						
Summer 2006-2007 (15/1/07)	215	11.13	52.19	6.9						

Reference Monitoring Site B - Keirans Creek / Cowan Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2007 (15/10/07)				6.0			0.20	0.08		
Spring 2007 (22/10/07)				5.9			0.20	0.02		
Spring 2007 (29/10/07)				6.2			0.40	0.06		
Spring 2007 (5/11/07)							0.20	0.15		
Spring 2007 (10/11/07)										4.44
Spring 2007 (11/11/07)										4.40
Spring 2010 (21/12/10)	189	2.50	77.80	6.5	0.02	0.09	0.05	0.21	130	5.02
Autumn 2011 (11/5/11)	202	0.30	77.00	7.6	0.03	0.02	0.03	0.005	16	5.31
Spring 2012 (19/12/12)	230	3.10		6.8	0.04	0.005	0.30	0.01	100	4.39
Autumn 2013 (18/6/13)	178	1.90	120.50	6.7	0.005	0.005	0.05	0.005	5	4.83
Spring 2015 (9/12/15)	177	2.7	78.85	6.68	0.02	0.005	0.05	0.005	4	5.21
Autumn 2016 (17/6/16)	188.5	1.4	85.90	7.08	0.06	0.040	0.10	0.005	24	5.04
Autumn 2020 (4/5/2020)	181	0.9	94.5	6.56	0.005	0.01	0.05	0.005	5	4.45
Spring 2021 (3/12/2021)	169	3.47	8.43	6.94	0.02	0.005	0.2	0.005	47	4.46
Autumn 2022 (16/06/2022)	149	5.8	123.4	5.93	0.005	0.03	0.1	0.005	5	5.80
Spring 2024 (24/09/2024)	148.3	5.26	83.8	7.28	0.005	0.005	0.1	0.005	16	4.93

Reference Monitoring Site C - McCarrs Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (11/5/98)	166	2.39	84.43	6.7						5.57
Spring 1998 (27/10/98)	180	3.50	76.16	6.4						6.01
Autumn 1999 (26/3/99)	195	2.50	94.41							5.75
Spring 1999 (28/10/99)	147	1.48	89.22	5.7						6.18
Autumn 2000 (28/3/00)	144	2.16	90.20	5.7						5.88
Summer 2006-2007 (7/1/07)										4.73
Summer 2006-2007 (8/1/07)										3.91
Summer 2006-2007 (9/1/07)										4.90

Reference Monitoring Site C - McCarrs Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Summer 2006-2007 (10/1/07)	193	9.50	72.86	5.5						
Summer 2006-2007 (12/1/07)	192	9.80	81.84	5.7						
Summer 2006-2007 (15/1/07)	199	12.95	74.33	5.6						
Spring 2007 (15/10/07)				6.7			0.30	0.11		
Spring 2007 (22/10/07)				5.7			0.10	0.06		
Spring 2007 (29/10/07)				6.3			0.40	0.07		
Spring 2007 (5/11/07)							0.20	0.05		
Spring 2010 (21/12/10)	193	1.00	84.40	5.6	0.01	0.11	0.10	0.03	16	4.79
Autumn 2011 (11/5/11)	209	0.50	80.60	8.0	0.02	0.04	0.20	0.06	4	5.71
Spring 2018 (6/11/2018)	232			6.51	0.02	0.03	0.05	0.01	53	4.88
Autumn 2019 (23/04/19)	121	1.2	94.4	6.61	0.03	0.005	0.1	0.01	18	5.25
Spring 2020 (17/11/2020)	154	0.1	65.1	7.01	0.005	0.005	0.2	0.005	34	4.6
Spring 2023 (10/10/2023)	157	10.77	103.17	5.85	0.005	0.005	0.1	0.005	0.5	5.33
Autumn 2024 (1/03/2024)	144	5.9	85.87	5.72	0.02	0.1	0.3	0.005	24	5.16

Reference Monitoring Site D – Little Cattai Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (13/5/98)	315	1.66	79.78	5.7						5.39
Spring 1998 (29/10/98)	245	4.60	78.07	6.5						5.46
Autumn 1999 (25/3/99)	230	4.84	80.60	5.6						5.92
Spring 1999 (28/10/99)	156	8.85	81.32	5.7						5.61
Autumn 2000 (29/3/00)	172	3.62	67.03	5.7						5.89
Autumn 2003 (2/4/03)	250	10.00	86.00	5.8						3.89

Reference Monitoring Site E – Salvation Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2007 (15/10/07)				4.6			0.05	0.04		
Spring 2007 (22/10/07)				4.0			0.20	0.01		
Spring 2007 (29/10/07)				5.2			0.30	0.10		
Spring 2007 (5/11/07)							0.05	0.11		

Reference Monitoring Site F – Tree Fern Gully Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (28/4/98)	680	3.80	87.56	6.0						5.77
Spring 1998 (27/10/98)	144	3.50	91.96	5.9						
Autumn 1999 (25/3/99)	136	2.70	93.31	6.2						
Spring 2008 (15/10/08)										
Autumn 2012 (13/4/12)	151	2.30			0.005	0.06	0.30	0.005	6	4.30
Autumn 2014 (19/5/14)	312	1.00	83.50	7.4	0.02	0.11	0.30	0.04	8	3.71
Spring 2014 (20/11/14)	207	1.10	102.50	7.1	0.02	0.02	0.20	0.005	44	5.43
Autumn 2015 (29/6/15)	172	1.80	7.60	6.7	0.005	0.12	0.10	0.005	2	4.61
Spring 2016 (30/11/16)	209.5	4.3	6.55	7	0.05	0.06	0.05	0.005	2	5
Autumn 2017 (26/07/17)	6.83	0.1	10.31	6.83	0.02	0.03	0.1	0.005	12	4.85

Autumn 2018 (24/04/18)	249.3	1.63	92.3	7.55	0.005	0.005	0.05	0.005	2	4.8
Spring 2019 (21/10/19)	420	0.6	91.7	7.48	0.09	0.02	0.3	0.05	1	5.04
Summer 2020* (29/01/20)					0.005		0.05	0.005	42	
Autumn 2021 (18/05/2021)	132.7	3.03	111.67	7.52						5.41
Spring 2022 (21/11/2022)	146	3.4		6.66	0.01	0.05	0.2	0.005	10	4.64
Autumn 2023 (7/06/2023)	160	2.7		6.27	0.005	0.14	0.2	0.02	1	5.22

* This sampling event was to follow up on elevated levels of ammonia, nitrogen and phosphorous recorded in Spring 2019. These levels have now returned to within guideline values.

Urban Monitoring Site 1 – Gordon Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (8/05/98)	133	5.63	70.68	7.3						4.13
Spring 1998 (14/10/98)	427	1.31	66.82	5.7						
Spring 1999 (1/10/99)										3.33
Autumn 2000 (20/3/00)	443	2.45	65.26	6.7						4.08
Spring 2004 (17/11/04)	314	1.00	86.67	7.5						
Autumn 2005 (11/4/05)	264	1.40	128.00	7.9						2.85
Spring 2005 (1/10/05)	150	2.70	53.50	8.7						
Spring 2005 (2/10/05)	314	1.00	8.70	7.5						
Summer 2006-2007 (9/1/07)	289	3.31	41.13	6.7						
Summer 2006-2007 (12/1/07)	271	10.00	51.34	7.1						
Summer 2006-2007 (15/1/07)	288	13.18	14.57	6.9						
Autumn 2008 (1/5/08)										2.8
Spring 2010 (14/12/10)	512	1.90	55.80	7.3			0.40	0.06		3.84
Autumn 2011 (20/5/11)	358	11.50	73.75	7.4	0.06	0.52	0.90	0.02	800	4.23
Spring 2012 (18/12/12)	367	4.30	4.50	6.9	0.02	0.04	0.80	0.10	47	2.58
Autumn 2013 (20/6/13)	345	4.60	135.40	7.6	0.02	0.35	0.80	0.04	530	4.04
Spring 2014 (17/11/14)	358	2.70	50.90	7.0	0.005	1.97	2.90	0.54	4000	2.96
Spring 2015 (14/12/15)	270	1.3	92.37	7.66	0.13	0.410	0.60	0.04	1600	3.77
Autumn 2016 (17/6/16)	453	1.5	88.33	7.72	0.08	0.650	1.20	0.005	1200	5.00
Spring 2018 (29/10/18)	287.5	0.8	9.675	7.34	0.02	0.03	0.05	0.01	310	4.33
Autumn 2019	502	0.5	80.6	7.79	0.005	0.45	0.8	0.02	31	4.29

Urban Monitoring Site 1 – Gordon Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
(24/04/19)										
Autumn 2020 (27/04/2020)	265	0.1	9.71	8.44	0.02	0.46	0.7	0.03	33	3.61
Autumn 2021 (27/04/2020)	249	0.93	120.37	7.22	0.005	0.29	0.6	0.03	72	3.65
Spring 2023 (27/04/2020)	279	10.83	102.53	7.33	0.01	0.27	0.6	0.06	54	3.79
Autumn 2024 (4/03/2024)	288.67	10.73	80.40	7.71	0.005	0.44	0.7	0.04	630	4.03
Urban Monitoring Site 2 – Rocky Creek (Upper)										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 1999 (1/10/99)	432	1.82	79.51	6.2						
Autumn 2000 (1/5/00)	332	2.66	80.43	7.0						
Autumn 2012 (23/3/12)	317	5.00			0.20	0.34	0.70	0.03	3700	4.18
Winter 2015 (2/7/15)	508	2.60	6.80	7.3	0.01	0.34	0.50	0.005	96	4.20
Spring 2019 (11/11/19)	367.5	3.6	73.2	7.19	0.05	0.04	0.4	0.04	48	3.23
Spring 2021 (7/12/2021)	467	0.1	9.55	8.38	0.005	0.28	0.5	0.02	56	4.03
Autumn 2022 (30/05/2022)	382	3.5	121.3	7.05	0.01	0.32	0.5	0.02	110	4.13
Spring 2024 (9/10/2024)	391.67	4.33	81.13	7.40	0.005	0.12	0.3	0.01	50	4.35

Urban Monitoring Site 3 – Rocky Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)										3.87
Autumn 1998 (2/5/98)	374	5.68	72.38	7.4						3.67
Spring 1999 (29/10/99)										3.57
Autumn 2000 (17/3/00)										3.88
Spring 2004 (17/11/04)	476	0.00	77.00	7.2						
Autumn 2005 (11/4/05)	496	1.50	96.00	7.1						5.00
Spring 2005 (1/10/05)	109	4.00	81.30	7.0						3.06
Spring 2005 (2/10/05)	476	0.00	7.70	7.2						
Summer 2006-2007 (12/1/07)	337	8.60	43.07	6.8						

Urban Monitoring Site 3 – Rocky Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Summer 2006-2007 (15/1/07)	368	11.75	18.62	7.0						
Spring 2010 (14/12/10)	547	1.30	71.00	7.1			1.00	0.10		3.61
Autumn 2011 (20/5/11)	502	4.50	71.95	7.3	0.06	0.70	1.40	0.005	1400	3.97
Spring 2013 (3/12/13)	413	1.50	96.53	7.4	0.02	0.15	0.60	0.05	180	4.03
Autumn 2014 (14/5/14)	413	1.50	96.53	7.5	0.02	0.15	0.60	0.05	180	3.94
Spring 2016 (07/12/16)	360.5	10.05	5.4	8.2	0.04	0.28	1.1	0.13	5500	
Autumn 2017 (02/08/17)	282	16	7.82	7.25	0.38	0.54	1	0.07	13000	3.43
Spring 2018 (29/10/18)	291	4.2	7.46	7.12	0.06	0.34	0.7	0.03	260	3.93
Autumn 2019 (24/04/19)	384	3.5	87.4	7.78	0.01	0.24	0.4	0.03	16	3.84
Autumn 2020 (27/04/20)	403	0.6	88.6	8.33	0.005	0.19	0.3	0.005	130	3.66
Spring 2020 (11/11/2021)	425	0.95	59	7.3	0.005	0.34	0.5	0.005	71	3.98
Spring 2022 (31/10/2022)	451	3.4		7.67	0.005	0.23	0.4	0.03	100	4.40
Autumn 2023 (22/05/2023)	398	4.0		7.03	0.01	0.24	0.4	0.05	140	3.94

Urban Monitoring Site 4 – Moores Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (8/05/98)	36	4.77	73.41	7.3						3.82
Spring 1999 (14/10/99)	29	2.43	73.25	5.4						3.69
Spring 1999 (15/10/99)										4.24
Autumn 2000 (29/3/00)	39	2.77	68.19	7.1						3.89
Spring 2004 (17/11/04)	141	12.10	61.40	6.8						
Autumn 2005 (11/4/05)	110	2.90	91.10	7.1						3.04
Spring 2005 (1/10/05)	103	2.60	91.10	7.1						2.63
Spring 2005 (2/10/05)	141	12.10	6.10	6.8						
Summer 2006-2007 (12/1/07)	706	14.00	19.41	7.2						
Summer 2006-2007 (15/1/07)	774	25.12	10.41	7.3						
Spring 2010 (14/12/10)	386	2.70	67.50	7.0			0.20	0.04		3.76
Autumn 2011	216	22.40	68.73	7.3	0.23	0.17	0.50	0.005	2300	3.64

Urban Monitoring Site 4 – Moores Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
(20/5/11)										
Spring 2012 (19/12/12)	382	2.80	78.07	7.3	0.04	0.46	1.20	0.11	80	3.57
Autumn 2013 (20/6/13)	355	9.00	122.30	7.6	0.07	0.50	1.00	0.03	140	3.70
Spring 2015 (14/12/16)	520	1.8	23.37	6.68	0.13	0.150	0.60	0.04	88	2.71
Autumn 2016 (17/6/16)	545	3.8	72.47	7.42	0.08	0.320	0.60	0.005	130	3.55
Spring 2017 (28/11/17)	6.87	1.46	1.1	6.87	0.22	0.005	0.5	0.23	180	3.375
Autumn 2018 (16/04/18)	263	70.66	58.1	7.43	0.19	0.38	0.7	0.03	2700	3.4
Autumn 2020 (27/04/2020)	442	5.9	54.2	6.47	0.07	0.03	0.1	0.03	20	2.97
Autumn 2021 (28/11/17)	154	11.33	89.10	7.54	0.005	0.2	0.5	0.04	660	3.89
Spring 2022 (9/11/2022)	252	749		7.42	0.38	0.62	2.3	0.59	2000	4.24
Autumn 2023 (22/05/2023)	476	10		6.84	0.07	0.27	0.6	0.03	450	3.31
Spring 2024 (9/10/2024)	430	5.80	56.70	7.13	0.07	0.08	0.4	0.04	110	3.36

Urban Monitoring Site 5 – High Ridge Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 1999 (29/10/99)	384	1.84	92.39	7.0						3.68
Autumn 2000 (17/3/00)	368	1.69	87.43	7.1						4.52
Autumn 2012 (23/3/12)	391	2.80			0.02	0.26	0.70	0.005		3.74
Spring 2014 (17/11/14)	472	2.20	38.00	7.2	1.81	0.72	3.00	0.15	2800	3.25
Spring 2016 (7/12/16)	402	6.65	57.15	8.25	0.18	0.32	1.1	0.14	26000	3.6
Autumn 2017 (02/08/17)	313.5	0.1	57.85	7.08	0.38	0.93	1.7	0.15	640	2.95
Spring 2019 (11/11/19)	402	6.1	47.25	8.29	0.005	0.04	0.2	0.04	34	3.95
Spring 2020 (11/11/2020)	467	3.6	64.9	7.13	0.005	0.14	0.3	0.005	71	3.67
Spring 2021 (7/12/2021)	533	1.3	8.37	7.78	0.08	0.05	0.4	0.04	62	4.33
Autumn 2022 (15/06/2022)	429	4.7	133.3	7.55	0.01	0.45	0.6	0.005	590	4.20
Spring 2023 (6/10/2023)	194	8.73	86	6.99	0.02	0.005	0.2	0.05	360	4.00
Autumn 2024 (14/03/2024)	578.33	7.73	66	7.23	0.17	0.28	0.6	0.03	110	3.78

Urban Monitoring Site 6 – Coups Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)	613	2.09	75.40	7.1						4.32
Autumn 2002 (22/5/02)	530	2.00	99.00	7.8						
Spring 2002 (30/9/02)	360	3.00	95.00	7.9						
Autumn 2003 (9/4/03)	400	35.00	90.00	7.7						4.17
Spring 2003 (30/10/03)	510	1.00	97.00	7.8						
Autumn 2004 (30/4/04)	471	55.00	88.00	7.2						3.38
Spring 2004 (17/11/04)	509	0.70	90.22	7.82						
April 2005 (11/4/05)	107	1.80	11.10	7.6						2.79
Spring 2005 (1/10/05)	204	3.70	128.00	7.6						3.65
Spring 2005 (2/10/05)	509	0.70	8.90	7.8						
Summer 2006-2007 (9/1/07)	252	6.15	46.26	6.5						
Summer 2006-2007 (12/1/07)	272	8.60	24.84	6.8						
Summer 2006-2007 (15/1/07)	268	9.95	63.68	7.2						
Spring 2010 (23/12/10)	371	1.40	67.50	7.3	0.04	0.04	0.20	0.08	1300	3.90
Autumn 2011 (18/5/11)	633	2.10	76.90	7.4	0.05	0.24	0.40	0.005	58	4.18
Spring 2013 (2/12/13)	574	1.40	95.00	7.4	0.05	0.09	0.20	0.005	110	4.23
Autumn 2014 (14/5/14)	529	1.90	73.30	7.6	0.005	0.18	0.40	0.005	490	3.91
Spring 2016 (6/12/16)	534	22	3.65	7.67	0.005	0.08	2.4	0.34	480	
Autumn 2017 (03/08/17)	381.5	0.15	75.3	7.48	0.02	0.18	0.4	0.04	90	3.75
Spring 2019 (28/10/19)	730	1.8	77.76	7.87	0.02	0.1	0.3	0.03	1	4.23
Spring 2020 (17/11/2020)	503	1.5	5.82	7.14	0.005	0.01	0.3	0.01	200	3.53
Spring 2021 (6/12/2021)	654	1.7	10.47	8.19	0.005	0.07	0.3	0.02	84	4.54
Autumn 2022 (17/06/2022)	613	4.7	122.8	6.68	0.02	0.57	0.9	0.01	3	4.38
Spring 2023 (9/10/2023)	270	7.03	35.13	7.08	0.04	0.03	0.3	0.02	25	3.17
Autumn 2024 (11/03/2024)	528	5.28	72.37	7.46	0.05	0.03	0.3	0.02	48	3.65

Urban Monitoring Site 7 – Fox Valley Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)	326	5.48	79.62	7.0						4.57
Autumn 2003 (3/4/03)	340	5.00	87.00	7.5						4.82
Spring 2012 (17/12/12)	365	2.10	82.95	7.3	0.03	0.05	0.40	0.005	68	4.26
Autumn 2013 (19/6/13)	362	7.90	144.00	7.6	0.02	0.15	0.40	0.08	690	4.32
Spring 2014 (18/11/14)	439	1.40	91.00	7.3	0.01	0.78	1.20	0.02	34	4.62
Spring 2016 (6/12/16)	433.5	11.2	2.1	7.72	0.02	0.07	0.4	0.02	190	3.36
Autumn 2017 (3/08/17)	346	0.15	9.605	7.38	0.02	0.85	1.4	0.05	82	4.04
Spring 2018 (30/10/18)	308.5	3	74.45	7.26	0.48	0.71	1.7	0.04	8200	3.85
Autumn 2019 (16/04/19)	474	2.1	75	7.33	0.05	0.17	0.3	0.01	66	3.43
Autumn 2020 (28/04/2020)	348	1	88.8	7.1	0.01	0.09	0.3	0.01	60	3.83
Autumn 2021 (31/05/2021)	349	3.27	109.9	6.94	0.005	0.12	0.4	0.01	45	4.51
Spring 2023 (9/10/2023)	337	11.23	40.33	7.22	0.24	0.02	0.5	0.02	45	4.63
Autumn (11/03/2024)	426.33	5.87	40.43	6.97	0.11	0.08	0.4	0.02	11	3.68

Urban Monitoring Site 8 – Avondale Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)	373	12.70	60.98	7.1						3.96
Autumn 2002 (16/5/02)	229	7.00	82.00	7.3						
Spring 2002 (30/9/02)	140	12.00	21.00	7.4						
Autumn 2003 (9/4/03)	310	80.00	57.00	6.9						3.13
Spring 2003 (30/10/03)	270	3.00	58.00	7						
Autumn 2004 (30/4/04)	215	12.00	84.00	7.4						3.42
Spring 2004 (17/11/04)	450	3.00	27.60	6.9						
Autumn 2005 (11/4/05)	599	12.00	21.10	7.3						
Spring 2005 (12/10/05)	104	4.50	29.50	6.6						2.92
Spring 2005 (13/10/05)	450	3.00	2.80	6.9						
Summer 2006-2007 (9/1/07)	256	19.00	10.71	6.3						

Urban Monitoring Site 8 – Avondale Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Summer 2006-2007 (10/1/07)	265	11.00	9.61	6.2						
Summer 2006-2007 (12/1/07)	238	22.00	14.60	6.5						
Summer 2006-2007 (15/1/07)	236	21.05	19.21	6.8						
Summer 2006-2007 (16/01/07)										2.82
Summer 2006-2007 (17/01/07)										1.56
Spring 2007 (15/10/07)				6.7			0.90	0.08		
Spring 2007 (22/10/07)				6.5			0.40	0.15		
Spring 2007 (29/10/07)				6.7			0.05	0.14		
Spring 2007 (5/11/07)							0.50	0.09		
Autumn 2012 (21/3/12)	260	7.30		7.1	0.02	2.72	3.10	0.03	2300	3.27
Winter 2015 (2/7/15)	347	4.90	7.00	7.0	0.07	0.34	0.60	0.005	400	3.40
Spring 2017 (27/11/17)	398.25	0.2	0.073	6.78	0.14	0.005	1.2	0.14	10	3.41
Autumn 2018 (17/04/18)	238	1.7	52.7	7.37	0.02	0.005	0.5	0.2	120	3.3
Spring 2019 (11/11/19)	296	3.05	49	7.55	0.005	0.06	0.6	0.03	58	3.84
Spring 2020 (16/11/2020)	367	1	53.1	7.99	0.03	0.09	0.5	0.005	12	4.02
Spring 2022 (10/11/2022)	370	4		7.39	0.02	0.19	0.6	0.005	46	3.91
Autumn 2023 (30/5/2023)	299	2.3		6.53	0.04	0.25	0.4	0.04	4	4.55
Spring 2024 (14/10/2024)	324	7.40	43.53	7.18	0.1	0.005	0.3	0.02	6	3.26

Urban Monitoring Site 9 – Quarry Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)	1084	12.40	40.21	7.0						3.69
Autumn 2002 (22/5/02)	313	15.00	69.00	7.3						
Spring 2002 (30/9/02)	690	23.00	34.00	7.2						
Autumn 2003 (9/4/03)	1330	170.00	17.00	6.9						3.08

Urban Monitoring Site 9 – Quarry Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2003 (30/10/03)	940	80.00	21.00	6.8						
Autumn 2004 (30/4/04)	1817	82.00	20.00	6.8						3.13
Spring 2004 (17/11/04)	949	4.00	36.75	7.1						
Autumn 2005 (11/4/05)	1391	7.20	42.30	7.1						
Spring 2005 (1/10/05)	927	3.60	39.10	7.0						2.85
Spring 2005 (2/10/05)	949	4.00	3.60	7.1						
Summer 2006-2007 (2/1/07)										3.08
Summer 2006-2007 (3/1/07)										2.50
Summer 2006-2007 (9/1/07)	697	19.00	38.45	7.1						
Summer 2006-2007 (10/1/07)	294	16.00	30.08	7.2						
Summer 2006-2007 (12/1/07)	729	17.00	25.39	7.2						
Summer 2006-2007 (15/1/07)	777	14.69	25.81	7.4						
Spring 2007 (15/10/07)				6.9			0.80	0.11		
Spring 2007 (22/10/07)				6.8			0.50	0.09		
Spring 2007 (29/10/07)				6.8			0.40	0.14		
Spring 2007 (5/11/07)							0.90	0.11		
Spring 2007 (6/11/07)										3.29
Spring 2007 (7/11/07)										4.00
Autumn 2008 (1/5/08)										2.90
Spring 2010 (13/12/10)	872	22.50	13.00	7.5			1.30	0.38		3.40
Autumn 2011 (18/5/11)	969	10.70	28.75	7.5	0.51	0.16	0.90	0.005	96	3.47
Spring 2012 (17/12/12)	618	21.00	22.80	7.3	0.79	0.04	1.30	0.33	130	3.00
Autumn 2013 (18/6/13)	339	11.00	93.90	7.5	0.09	0.29	1.00	0.15	880	3.29
Spring 2015 (15/12/15)	793	5.7	32.03	7.29	0.47	0.11	1.00	0.06	370	3.26
Autumn 2016 (17/6/16)	821	8.5	66.27	7.87	0.18	0.44	0.90	0.01	20	3.65
Spring 2018 (30/10/18)	655.5	1.05	48.95	7.18	0.9	0.19	0.8	0.03	52	3.06
Autumn 2019 (15/04/19)	723	10.7	56	7.8	0.15	0.26	0.7	0.04	150	3.63
Autumn 2020 (28/04/2020)	859	2.9	70.8	9.64	0.29	0.22	0.9	0.005	10	3.64
Spring 2021	794	6.0		7.78	0.06	0.19	0.5	0.12	11	3.75

Urban Monitoring Site 9 – Quarry Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
(6/12/2021)										
Autumn 2022 (30/05/2022)	805	7.8	115.8	7.51	0.1	0.35	0.8	0.04	43	4.25
Autumn 2023 (30/05/2023)	401	8.9		6.99	0.15	0.29	0.8	0.03	8	3.82
Spring 2023 (25/09/2023)	688	13.7	46.8	7.6	0.3	0.05	1	0.1	3	3.58
Autumn 2024 (15/4/2024)	576.30	4.96	79.03	7.50	0.1	0.72	1.2	0.02	82	3.34
Spring 2024* (23/09/2024)	303.67	64.87	65.63	7.33	0.05	0.38	0.8	0.06	81	2.75
Spring 2024 (14/10/2024)	1362.67	9.17	48.43	7.52	0.24	0.15	0.7	0.05	14	3.14

*This sampling event had followed a pollution event from a burst water main further up in the sub-catchment. Subsequent testing repeated on the 14/10/2024.

Urban Monitoring Site 10 – Blackbutt Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)	181	3.62	70.69	7.3						3.69
Autumn 2002 (22/5/02)	375	3.00	91.00	7.6						
Spring 2002 (30/9/02)	380	21.00	67.00	7.5						
Autumn 2003 (9/4/03)	300	7.00	73.00	7.3						3.27
Spring 2003 (30/10/03)	270	30.00	47.00	7.1						
Autumn 2004 (30/4/04)	403	44.00	68.00	7.3						3.21
Spring 2004 (17/11/04)	464	1.80	71.38	7.1						
Autumn 2005 (11/4/05)	166	2.60	6.50	6.9						
Spring 2005 (1/10/05)	102	13.10	46.20	6.6						3.16
Spring 2005 (2/10/05)	464	1.80	7.20	7.1						
Summer 2006-2007 (12/1/07)	336	8.20	111.10	8.6						
Summer 2006-2007 (15/1/07)	469	10.93	49.14	7.0						
Autumn 2012 (21/3/12)	326	7.40			0.02	0.22	0.60	0.03	120	3.09
Spring 2013 (2/12/13)	410	2.70	99.03	7.3	0.02	0.09	0.30	0.02	24	3.67
Autumn 2014 (12/5/14)	378	4.70	48.50	7.1	0.005	0.04	0.30	0.02	18	3.72
Spring 2015 (15/12/15)	302	2.1	68.70	7.59	0.03	0.070	0.40	0.04	430	3.43
Autumn 2016 (17/6/16)	364	2.2	90.63	7.90	0.10	0.480	0.80	0.005	110	3.46
Spring 2018	356.5	1.8	59.2	7.45	0.68	0.75	2.2	0.18	2600	3.35

Urban Monitoring Site 10 – Blackbutt Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
(5/11/18)										
Autumn 2019 (15/04/19)	517	2.1	87	7.63	0.02	0.3	0.5	0.005	150	3.12
Autumn 2020 (28/04/2020)	401	0.8	96.3	8.52	0.005	0.32	0.6	0.005	60	
Spring 2020 (16/11/2020)	389	3.4	64.8	6.55	0.03	0.24	1.7	0.02	72	4.02
Spring 2021 (7/12/2021)	528	0.3	8.68	8.33	0.23	0.36	1	0.03	94	4.35
Autumn 2022 (30/05/2022)	349	6.4	125.3	6.92	0.01	0.33	0.6	0.02	150	4.32
Spring 2023 (6/10/2023)	217	18.73	89.9	7	0.02	0.2	0.6	0.11	1300	4.28
Autumn 2024 (6/03/2024)	350	4.20	76.63	7.77	0.15	0.71	1.3	0.03	250000	4.63

Urban Monitoring Site 11 – Little Blue Gum Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)	416	6.16	60.83	6.8						4.26
Autumn 2002 (2/5/02)	527	30.00	65.00	7.1						
Spring 2002 (14/10/02)	530	17.00	50.34	7.6						
Autumn 2003 (3/4/03)	340	12.00	50.00	7.0						
Autumn 2003 (10/4/03)	460	35.00	29.73	6.7						3.71
Spring 2003 (1/10/03)	550	30.00	57.74	6.7						
Autumn 2004 (2/4/04)	431	2.00	63.56	7.0						
Spring 2004 (17/11/04)										2.50
Autumn 2005 (11/4/05)										4.72
Spring 2005 (1/10/05)										2.50
Summer 2006-2007 (9/1/07)	372	5.79	5.91	6.6						
Summer 2006-2007 (12/1/07)	371	33.00	8.56	6.6						
Summer 2006-2007 (15/1/07)	381	31.28	17.01	7.0						
Spring 2010 (13/12/10)	460	6.60	35.00	7.3			0.40	0.10		3.89
Autumn 2011 (18/5/11)	364	3.20	67.26	7.2	0.06	0.17	0.40	0.005	48	4.00
Spring 2013 (3/12/13)	407	17.80	56.50	6.9	0.15	0.04	0.90	0.08	140	3.76

Urban Monitoring Site 11 – Little Blue Gum Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 2014 (12/5/14)	378	10.30	57.30	7.2	0.08	0.03	0.30	0.03	52	3.50
Spring 2017 (27/11/17)	438	7.3	36.73	6.91	0.34	0.02	1	0.07	66	3.46
Autumn 2018 (17/04/18)	484.6	4.13	0.23	7.07	0.48	0.005	0.6	0.1	13	2.5
Autumn 2020 (5/05/2020)	261	4.2	88.8	7.87	0.03	0.16	0.5	0.04	2300	4.00
Autumn 2021 (31/05/2021)	400	4.47	82.57	7.01	0.11	0.04	0.3	0.005	1100	3.76
Spring 2022 (31/10/2022)	492	5.5		7.49	0.08	0.19	0.5	0.03	77	4.58
Autumn 2023 (22/05/2023)	468	5.9		6.90	0.12	0.08	0.4	0.03	190	3.75
Spring 2024 (14/10/2024)	468	9.00	50.63	7.13	0.15	0.01	0.4	0.04	78	3.77

Urban Monitoring Site 12 – Fraser Brook										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)	246	2.10	77.93	7.2						4.38
Spring 1998 (1/10/98)	184	2.40	89.13	6.4						
Autumn 1999 (1/5/99)	242	1.70	83.87							
Autumn 2012 (13/4/12)	268	0.80			0.005	0.18	0.50	0.005	28	3.85
Spring 2014 (21/11/14)	292	1.80	8.20	7.1	0.005	0.06	0.05	0.01	130	3.83
Spring 2018 (6/11/18)	310.5	2.6	76.15	7.45	0.03	0.14	0.2	0.03	60	3.77
Autumn 2019 (17/04/19)	726	1.4	86.9	7.4	0.08	0.1	0.3	0.02	43	4.22
Spring 2020 (10/11/2020)	318	1	72.4	7.51	0.005	0.32	0.4	0.005	45	3.55
Spring 2021 (6/12/2021)	284	1.37	10.07	7.81	0.02	0.27	0.5	0.005	100	5.07
Autumn 2022 (17/06/2022)	257	5.3	128.9	6.08	0.005	0.4	0.6	0.005	6	5.28
Spring 2023 (16/10/2023)	287	36.67	62.97	7.14	0.12	0.01	0.2	0.02	44	5.06
Autumn 2024 (14/03/2024)	317.67	8.33	82.33	7.35	0.03	0.16	0.4	0.01	19	4.87

Urban Monitoring Site 13 – Lovers Jump Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)	465	3.20	78.45	7.1						3.39
Spring 1998 (1/10/98)	202	4.30	72.40	6.3						

Urban Monitoring Site 13 – Lovers Jump Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1999 (1/5/99)	416	4.60	95.13	6.9						
Summer 2006-2007 (9/1/07)	224	11.20	65.90	7.0						
Summer 2006-2007 (12/0/07)	269	11.00	18.29	6.8						
Summer 2006-2007 (15/1/07)	296	12.38	9.44	7.0						
Spring 2007 (6/11/07)										3.79
Spring 2007 (7/11/07)										3.33
Spring 2010 (20/12/10)	226	5.20	66.02	6.9	0.005	0.08	0.30	0.12	440	3.86
Autumn 2011 (18/5/11)	498	1.00	82.15	7.3	0.005	0.25	0.20	0.05	38	4.25
Spring 2013 (4/12/13)	438	0.80	102.20	7.4	0.01	0.20	0.60	0.03	5000	3.72
Autumn 2014 (14/5/14)	398	1.10	86.30	7.7	0.005	0.76	1.00	0.005	120	3.92
Spring 2015 (15/12/15)	271	1.6	65.63	6.98	0.04	0.890	1.30	0.11	470	3.78
Autumn 2016 (17/6/16)	431	1.1	87.07	7.64	0.06	0.400	0.80	0.01	62	4.29
Spring 2019 (22/10/19)	588	1.46	79.9	7.47	0.05	0.18	0.3	0.005	21	4.33
Autumn 2021 (24/05/2021)	476	8.7	126	6.61	0.005	0.22	0.3	0.005	46	4.54
Spring 2022 (10/11/2022)	512	2.2		7.47	0.06	0.31	0.6	0.02	150	4.16
Autumn 2023 (24/05/2023)	399	2.2		7.63	0.005	0.29	0.5	0.02	9	4.53
Spring 2024 (8/10/2024)	326.33	4.10	82.50	7.30	0.01	0.22	0.4	0.03	35	4.14

Urban Monitoring Site 14 – Branch of Cowan Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)	410	3.20	76.39	7.0						4.03
Spring 1998 (1/10/98)	290	3.10	42.25	6.2						
Autumn 1999 (1/5/99)	339	2.80	84.80	6.6						
Summer 2006-2007 (9/1/07)	304	9.83	20.75	6.8						
Summer 2006-2007 (12/1/07)	296	11.00	32.21	6.9						
Summer 2006-2007 (15/1/07)	310	13.40	19.52	7.1						

Urban Monitoring Site 14 – Branch of Cowan Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2008 (1/10/08)										4.96
Spring 2010 (20/12/10)	376	4.20	62.00	6.9	0.13	1.44	2.20	0.08	380	3.32
Autumn 2011 (18/5/11)	548	2.30	58.95	7.0	0.30	2.44	3.30	0.005	20	4.08
Spring 2012 (18/12/12)	275	1.70	80.30	7.3	0.02	0.58	1.10	0.01	170	4.24
Autumn 2013 (18/6/13)	414	2.30	105.50	7.3	0.04	0.90	1.40	0.04	34	3.42
Spring 2014 (21/11/14)	481	2.40	62.40	7.2	0.005	0.65	1.00	0.05	18	3.54
Spring 2017 (27/11/17)	294.5	0.1	13.35	6.86	0.4	0.13	0.4	0.08	17	3.584
Autumn 2018 (17/04/18)	441.3	0.6	75.16	7.59	0.005	0.01	0.2	0.005	43	4.53
Autumn 2020 (5/05/2020)	375	0.7	95.5	7.27	0.00005	0.72	0.9	0.005		3.595
Spring 2021 (6/12/2021)	405	2.0	8.74	7.81	0.07	0.15	0.4	0.01	11	4.41
Autumn 2022 (16/06/2022)	313	5.5	128.4	6.54	0.005	0.26	0.5	0.03	110	3.79
Spring 2024 (8/10/2024)	351	5.97	61.90	7.23	0.005	0.06	0.3	0.04	21	2.88

Urban Monitoring Site 15 – Ku-ring-gai Creek (Lower)										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 1998 (1/5/98)	524	4.43	27.70	7.2						3.75
Spring 1998 (1/10/98)	119	28.20	57.71	6.3						
Autumn 1999 (1/5/99)	341	2.30	76.06	6.8						
Summer 2006-2007 (1/1/07)										2.80
Summer 2006-2007 (2/1/07)										3.39
Summer 2006-2007 (10/1/07)	201	11.00	80.37	6.8						
Summer 2006-2007 (12/1/07)	205	9.90	103.60	6.9						
Summer 2006-2007 (15/1/07)	218	23.13	25.99	6.7						
Spring 2007 (15/10/07)				6.3			0.20	0.08		
Spring 2007 (22/10/07)				6.3			0.05	0.09		
Spring 2007 (29/10/07)				6.5			0.70	0.09		

Urban Monitoring Site 15 – Ku-ring-gai Creek (Lower)										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2007 (1/11/07)										3.27
Spring 2007 (2/11/07)										3.75
Spring 2007 (5/11/07)							0.80	0.05		
Spring 2008 (1/10/08)										4.10
Spring 2010 (23/12/10)	259	1.50	60.80	7.1	0.04	0.46	0.70	0.02	3500	4.15
Autumn 2011 (11/5/11)	419	0.40	75.83	7.5	0.03	1.10	2.10	0.05	170	4.81
Spring 2012 (19/12/12)	285	1.30	92.00	7.2	0.02	0.04	0.20	0.05	12	3.76
Autumn 2013 (18/6/13)	360	1.80	132.50	7.3	0.01	0.32	0.50	0.02	42	4.50
Spring 2014 (20/11/14)	386	0.90		7.3	0.02	0.30	0.70	0.06	38	3.90
Spring 2015 (9/12/15)	408	1.1	113.80	7.34	0.04	0.040	0.20	0.02	100	3.86
Autumn 2016 (17/6/16)	370	1.6	87.83	7.57	0.18	0.520	0.90	0.04	270	4.00
Spring 2019 (21/10/19)	377	1.26	52.2	7.47	0.07	0.1	0.4	0.1	37	3.54
Spring 2023 (10/10/2023)	202	38.8	98.93	6.58	0.05	0.05	0.2	0.02	7	3.74
Autumn 2024 (1/03/2024)	337.67	3.33	81.97	6.59	0.005	0.47	0.9	0.005	8	4.38

Urban Monitoring Site 16 – Caley Brook										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 2012 (13/4/12)	582	4.20			0.005	0.08	0.40	0.005	110	4.00
Autumn 2015 (16/6/15)	244	1.80	5.30	7.6	0.10	0.32	0.70	0.02	12	4.64
Spring 2018 (6/11/18)	204	6.97	8.3	93.7	0.08	0.2	0.5	0.03	860	3.23
Autumn 2019 (17/04/19)	279	0.9	86.9	6.96	0.005	0.29	0.5	0.005	24	4.3
Spring 2020 (10/11/2020)	635	2.05	68.2	7.54	0.03	0.17	0.4	0.005	110	3.63
Spring 2022 (3/11/2022)	834	1.90		7.33	0.005	0.38	0.8	0.03	14	4.61
Autumn 2023 (24/05/2023)	593	2.30		7.53	0.03	0.08	0.2	0.01	33	4.53

Urban Monitoring Site 17 – Southern Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2017 (6/12/17)	238	0.2	87.7	7.62	0.02	0.005	0.3	0.005	84	3.44
Autumn 2018 (24/04/18)	441.3	0.6	75.16	7.59	0.005	0.01	0.2	0.005	43	3.55
Spring 2019 (11/11/19)	403.5	8.4	6.21	9.07	0.005	0.03	0.2	0.01	7	4
Spring 2020 (11/11/2020)	400	0.8	66.5	7.17	0.005	0.04	0.3	0.04	14	3.95
Spring 2021 (6/12/2021)	418	0.9		7.57	0.005	0.02	0.2	0.005	7	4.14
Autumn 2022 (15/06/2022)	355	7.4	114.5	7.05	0.03	0.12	0.4	0.01	2	3.57
Spring 2023 (4/10/2023)	352	19.67	53.13	6.99	0.03	0.08	0.3	0.02	12	4.19
Autumn (4/03/2024)	386.67	8.63	68.60	7.52	0.06	0.04	0.4	0.005	130	4.00

Urban Monitoring Site 18 – Ku-ring-gai Creek (Above Falls)										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2012 (19/12/12)	286	1.70	83.58	7.1	0.03	0.01	0.30	0.10	8	3.70
Autumn 2014 (19/5/14)	312	1.00	83.50	7.6	0.02	0.11	0.30	0.04	8	3.71
Spring 2014 (20/11/14)			70.40							
Spring 2017 (12/12/17)	270	2.6	33.33	6.92	0.01	0.03	0.3	0.06	6	3.16
Autumn 2018 (24/04/18)	330.6	1.63	93	7.77	0.005	0.1	0.3	0.03	56	3.4
Autumn 2020 (04/05/2020)	298	1.2	102.5	6.91						
Spring 2021 (3/12/2021)	400	3.13	6.48	7.27	0.07	0.09	0.4	0.01	320	3.80
Autumn 2022 (16/06/2022)	295	6	121	6.29	0.02	0.26	0.5	0.02	97	4.10

Urban Monitoring Site 19 – Ku-ring-gai Creek (Warrimoo Track)										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2012 (21/12/12)	363	1.8	83.95	7.8	0.04	0.15	0.60	0.08	100	3.23
Spring 2013 (4/12/13)	431	0.70	103.53	7.3	0.05	0.72	1.10	0.05	30000	4.00

Urban Monitoring Site 19 – Ku-ring-gai Creek (Warrimoo Track)										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 2014 (19/5/14)	408	0.50	101.30	7.7	0.005	0.82	1.10	0.06	120	3.78
Spring 2014 (20/11/14)	386	0.90	6.50	7.3	0.02	0.30	0.70	0.06	38	
Spring 2016 (30/11/16)	308	0.15	46.7	6.84	0.02	0.35	0.6	0.04	3200	3.76
Autumn 2017 (04/08/17)	165	0.25	65	7.05	0.38	0.53	1.2	0.03	11000	3.44
Spring 2019 (22/10/19)	7.48	0.6	91.7	7.48	0.005	0.23	0.2	0.001	540	3.92
Autumn 2021 (24/05/2021)	317	3.3	112.17	6.61	0.05	0.27	0.5	0.01	7500	4.35
Autumn 2024 (24/09/2024)	266.67	4.07	91.10	7.40	0.01	0.37	0.6	0.005	1100	3.92

Urban Monitoring Site 20 – Ku-ring-gai Creek (Upper)										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2008 (1/10/08)										3.67
Spring 2012 (21/12/12)	565	1.80	51.00	7.1	0.05	0.02	0.30	0.06	52	3.76
Autumn 2015 (24/6/15)	467	2.00	5.50	7.5	0.01	0.51	0.60	0.005	440	3.79
Spring 2017 (12/12/17)	290	0.2	79.2	7.57	0.01	0.46	0.7	0.01	1500	3.941
Autumn 2018 (24/04/18)	384	0.5	91.75	7.98	0.02	0.47	0.9	0.03	1000	4.022
Spring 2020 (10/11/2020)	330	4.6	68.1	7.39	0.02	0.66	1	0.005	220	3.74
Spring 2022 (21/11/2022)	3440	109		7.5	0.08	0.04	7.2	0.38	1300	3.93
Autumn 2023 (7/06/2023)	240	1.9		6.78	0.01	0.49	0.8	0.03	1000	3.52

Urban Monitoring Site 21 – Bannockburn Oval										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2007 (15/10/07)				6.4			0.70	0.06		
Spring 2007 (22/10/07)				6.4			0.70	0.17		
Spring 2007 (29/10/07)				6.6			2.30	0.08		
Spring 2007 (5/11/07)							0.80	0.13		

Urban Monitoring Site 21 – Bannockburn Oval										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Autumn 2008 (1/5/08)										3.1
Autumn 2015 (24/6/15)	724	7.90	4.50	7.2	0.06	0.51	0.80	0.005	210	3.19
Spring 2018 (5/11/18)	668	3.9	8.575	7.68	0.04	0.42	0.7	0.02	120	2.81
Autumn 2019 (23/04/19)	0	4.55	62.6	7.34	0.06	0.29	0.5	0.01	160	3.33
Spring 2023 (25/09/2023)	430.33	5.30	99.23	7.32	0.16	0.31	0.8	0.06	5	3.00
Autumn 2024 (14/03/2024)	250	29.57	100.50	7.26	0.19	0.27	0.9	0.02	14	2.95

Urban Monitoring Site 22 – Barra Brui Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2013 (4/12/13)	357	23.00	49.40	6.2	0.09	0.13	0.50	0.02	100	3.50
Autumn 2014 (29/5/14)	347	12.30	28.70	6.6	0.06	0.08	0.30	0.005	28	3.21
Spring 2016 (7/12/2016)	273	25.55	20.95	8.12	1.32	0.33	2.4	0.21	7600	
Autumn 2017 (04/08/2017)	134.5	14.6	83.2	7.2	0.08	0.84	1.3	0.06	48000	3.81
Spring 2018 (29/10/2018)	328	14.3	57.5	6.82	0.36	0.48	1.2	0.01	490	3.08
Autumn 2019 (16/04/2019)	316	258	53.7	7.33	0.8	0.01	3	0.76	260	3.96
Autumn 2020 (5/05/2020)	275	5.9	89.5	8.19	0.06	0.41	0.7	0.02	7000	3.91
Autumn (24/05/2021)	227	4.9	104.23	6.58	0.05	0.22	0.5	0.03	58	3.84
Spring 2022 (9/11/2022)	222	10.10		7.22	0.08	0.31	0.6	0.05	48	4.13
Autumn 2023 (7/06/2023)	213	6.1		6.65	0.05	0.19	0.5	0.02	4	3.89
Spring 2024 (9/10/2024)	212.67	5.17	74.87	6.97	0.22	0.54	0.8	0.005	20	3.37

Urban Monitoring Site 23 – Blackbutt Creek (Minamurra)										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2013 (3/12/13)	554	2.70	104.27	7.2	0.05	0.14	0.50	0.02	8	3.97
Autumn 2014 (12/5/14)	522	3.10	81.70	7.4	0.02	0.29	0.60	0.01	30	3.58
Spring 2015 (15/12/15)	302	2.1	68.7	7.59	0.03	0.07	0.4	0.04	430	3.43
Autumn 2016 (17/06/16)	363	2.2	90.63	7.9	0.1	0.48	0.8	0.005	10	3.46

Urban Monitoring Site 23 – Blackbutt Creek (Minamurra)										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Spring 2017 (12/12/17)	243	0.2	88.9	7.71	0.06	0.36	0.7	0.09	400	3.75
Autumn 2018 (24/04/18)	284	0.6	86.4	7.81	0.06	0.46	0.7	0.02	960	3.61
Spring 2019 (28/10/19)	314	0.6	88.2	8.7	0.3	0.31	0.5	0.01	540	3.91
Autumn 2021 (31/05/2021)	248	1.8	53.3	7.08	0.03	5.18	6.3	0.005	41	3.53
Spring 2022 (10/11/2022)	296	1.8		4.46	0.15	0.39	0.8	0.04	10	4.25
Autumn 2023 (30/05/2023)	302	1.2		6.65	0.04	0.7	1	0.01	230	4.16
Spring (23/09/2024)	541.67	4.90	64.07	7.07	0.02	0.32	0.7	0.03	86	3.57

Urban Monitoring Site 24 – Falls Creek										
Sampling Season/ Date	EC	Turbidity	DO	pH	Ammonium Nitrogen	Oxidised Nitrogen	Total Nitrogen	Total Phosphorous	Faecal Coliforms	SIGNAL 2
Units	µs/cm	NTU	%		mg/L	mg/L	mg/L	mg/L	CFU /100mL	
Summer 2006-2007 (2/1/07)										2.17
Summer 2006-2007 (3/1/07)										2.73
Summer 2006-2007 (9/1/07)	262	5.79	121.64	9.2						
Summer 2006-2007 (10/1/07)	270	7.80	103.50	7.7						
Summer 2006-2007 (12/1/07)	296	9.60	88.74	7.5						
Summer 2006-2007 (15/1/07)	295	12.15	116.20	7.5						
Spring 2007 (15/10/07)				7.0			0.70	0.12		
Spring 2007 (22/10/07)				7.0			0.90	0.16		
Spring 2007 (29/10/07)				7.3			0.40	0.11		
Spring 2007 (5/11/07)							0.90	0.09		
Spring 2007 (6/11/07)										3.73
Spring 2007 (7/11/07)										3.25