South East Queensland Water Quality Objectives Review
Water Quality Indicator Percentiles

Logan River Basin - Basin 1432

Logan River - Lower Estuary and Enclosed Coastal Waters

Sub-Basin	Percentile	Nutrients: Total P (µg/L)	Nutrients: Filterable Reactive P (µg/L)	Nutrients: Total N (µg/L)	Nutrients: Oxidised N (µg/L)	Nutrients: Ammonium N (µg/L)	Turbidity (NTU)	Turbidity: Total Suspended Solids (mg/L)	Secchi (m)	Productivity: Chlorophyll-a (µg/L)	Phys-Chem: Electrical Conductivity (µS/cm)	Phys-Chem: pH	Phys-Chem: Dissolved Oxygen (%)	Percentiles for DO(%) and Secchi(m)
Existing WQO for Moderately Disturbed waters	20								1.2			8.1	95	
	Median	24	8	200	2	5	7	-		2	N.A.			
	80											8.4	110	
Logan River Estuary	10	29	15	160	2	1	3	6	0.8	1.1		7.8	90	20
	20	35	18	170	4	2	4	8	0.9	1.4		7.9	93	30
	40	44	24	210	15	4	6	11	1.1	2.1		8.0	95	50
	50	48	27	230	23	7	7	12	1.3	2.4		8.0	96	60
	70	60	37	300	48	12	10	16	1.7	3.3		8.1	99	80
	80	73	44	380	73	22	13	30	1.9	4.1		8.1	101	90
	Count	326	326	326	326	324	328	49	329	314		330	330	Count

Logan River - Mid Estuary Waters

Sub-basin	Percentiles	Nutrients: Total P (µg/L)	Nutrients: Filterable Reactive P (µg/L)	Nutrients: Total N (µg/L)	Nutrients: Oxidised N (µg/L)	Nutrients: Ammonium N (µg/L)	Turbidity (NTU)	Turbidity: Total Suspended Solids (mg/L)	Secchi (m)	Productivity: Chlorophyll-a (µg/L)	Phys-Chem: Electrical Conductivity (µS/cm)	Phys-Chem: pH	Phys-Chem: Dissolved Oxygen (%)	Percentiles for DO(%) and Secchi(m)
Existing WQO for Moderately Disturbed waters	20								1			7	85	
	Median	25	6	300	10	10	8	20		4	N.A.			
	80											8.4	105	
Logan River Estuary 0-2km	10	32	17	160	4	1	3	5	0.6	1		7.8	84	20
	20	37	21	180	8	3	4	8	0.8	1		7.9	90	30
	40	46	28	220	24	6	5	10	1.1	2		8.0	94	50
	50	52	32	240	35	8	6	11	1.2	2		8.0	95	60
	70	63	42	324	62	15	8	15	1.5	3		8.1	97	80
	80	76	53	440	95	28	11	29	1.8	4		8.1	98	90
	Count	163	163	163	163	162	164	24	165	157		165	165	Count
Logan River Estuary 4-14km	10	80	51	300	55	7	6	9	0.2	2		7.4	61	20
	20	110	77	420	122	13	9	11	0.3	2		7.5	72	30
	40	160	110	600	220	34	14	18	0.5	3		7.7	79	50
	50	180	120	690	270	46	17	22	0.6	4		7.7	83	60
	70	230	160	840	350	75	28	45	0.8	6		7.9	90	80
	80	270	190	950	400	99	43	64	1	7		7.9	93	90
	Count	651	649	651	652	650	656	63	660	626		660	660	Count
Logan River Estuary 14-24km	10	240	130	730	236	8.8	14	18	0.1	1		7.3	56	20
	20	300	170	840	320	20	20	21	0.2	2		7.4	62	30
	40	390	250	1000	440	49	34	33	0.3	3		7.5	70	50
	50	430	290	1100	510	65	47	45	0.3	3		7.5	73	60
	70	560	399	1400	690	120	106	76	0.5	4		7.6	79	80
	80	650	470	1600	820	180	146	112	0.6	6		7.7	82	90
	Count	491	488	491	489	489	507	55	510	470		510	510	Count
Logan River Estuary 24-34km	10	170	68	524	45	1	32	25	0.1	2		7.3	64	20
	20	220	85	630	130	3	45	34	0.1	4		7.5	71	30
	40	290	130	810	250	6	75	50	0.2	6		7.6	78	50
	50	320	150	890	310	9	97	56	0.2	8		7.7	82	60
	70	410	210	1200	490	21	139	78	0.3	13		7.9	87	80
	80	480	250	1300	600	34	172	94	0.3	18		8.0	92	90
	Count	485	484	485	484	483	504	89	506	482		507	507	Count

Logan River - Lowland Freshwaters

Sub-Basin	Percentile	Nutrients: Total P (µg/L)	Nutrients: Filterable Reactive P (µg/L)	Nutrients: Total N (µg/L)	Nutrients: Oxidised N (µg/L)	Nutrients: Ammonium N (µg/L)	Turbidity (NTU)	Turbidity: Total Suspended Solids (mg/L)	Secchi (m)	Productivity: Chlorophyll-a (µg/L)	Phys-Chem: Electrical Conductivity (µS/cm)	Phys-Chem: pH	Phys-Chem: Dissolved Oxygen (%)	Percentiles for DO(%) and Secchi(m)
Existing WQO for Moderately Disturbed waters	20											6.5	85	
	Median	50	20	500	60	20	10	6	N.A.	5	780			
	80											8	110	
All Sub-catchments	10	24	3	240	3	4	3	3		0.9	218	6.6	61	20
	20	34	6	306	7	6	5	6		1	288	6.9	79	30
	40	66	14	430	31	10	9	10		3	404	7.5	91	50
	50	88	28	490	61	14	12	12		4	466	7.7	95	60
	70	138	67	710	150	30	20	20		6	624	8.0	101	80
	80	180	95	935	230	50	30	28		10	735	8.1	106	90
	Count	1393	1215	1253	1281	1315	1335	1307		874	987	1029	883	Count
Upper Western Logan River	10	18	5	180	1	3	3	3		0.5	229	7.5	89	20
	20	23	6	205	5	4	5	5		0.8	304	7.7	90	30
	40	30	9	257	10	7	7	8		1	349	7.8	96	50
	50	36	11	295	14	8	8	10		2	376	7.9	98	60
	70	45	14	380	30	10	12	13		2	432	8.0	103	80
	80	53	17	424	51	12	15	17		3	512	8.1	107	90
	Count	236	158	220	189	189	180	224		129	135	160	133	Count
Upper Eastern Logan River	10	56	33	200	45	5	1	2		0.6	164	7.7	92	20
	20	66	40	244	59	7	3	4		1	189	7.7	93	30
	40	90	51	286	65	9	4	8		1	228	7.9	95	50
	50	96	53	335	71	11	5	10		2	240	7.9	96	60
	70	110	61	440	99	13	7	13		2	344	8.0	99	80
	80	140	70	487	120	16	12	23		3	384	8.0	101	90
	Count	91	50	80	50	50	82	83		16	19	34	16	Count

South East Queensland Water Quality Objectives Review
Water Quality Indicator Percentiles

Logan River Basin - Basin 1432

Logan River - Lowland Freshwaters continued.

Sub-Basin	Percentile	Nutrients: Total P	Nutrients: Filterable Reactive P	Nutrients: Total N	Nutrients: Oxidised N	Nutrients: Ammonium N	Turbidity: Turbidity	Turbidity: Total Suspended Solids	Secchi	Productivity: Chlorophyll-a	Phys-Chem: Electrical Conductivity	Phys-Chem: pH	Phys-Chem: Dissolved Oxygen	Percentiles
				(µg/L)			(NTU)	(mg/L)	(m)	(µg/L)	(µS/cm)		(%)	for DO(%) and Secchi(m)
Existing WQO for Moderately Disturbed waters	20											6.5	85	
	Median	50	20	500	60	20	10	6	N.A.	5	780			
	80											8	110	
Upper Teviot Brook	**10**	32	5	297	2	2	4	6		1	366	7.4	54	**20**
Lower Teviot Brook	**20**	45	8	370	3	2	5	8		5	730	7.5	62	**30**
	40	86	13	526	10	8	8	13		8	1318	7.6	72	**50**
	50	99	14	585	13	12	10	16		10	1600	7.7	78	**60**
	70	144	32	734	51	30	20	27		16	2140	7.8	86	**80**
	80	206	50	841	70	45	34	41		19	3037	7.9	89	**90**
	Count	97	93	70	92	92	78	78		42	101	44	83	**Count**
Western Logan River	**10**	22	3	292	2	2	3	2		1	1190	7.3	60	**20**
incl. Cannon Creek	**20**	25	4	340	8	3	3	3		1	1339	7.4	62	**30**
	40	31	6	406	10	10	5	4		3	1505	7.6	67	**50**
	50	37	9	475	20	14	6	5		4	1559	7.8	77	**60**
	70	53	16	512	40	34	10	10		7	1600	8.0	83	**80**
	80	72	24	664	50	50	12	18		10	1636	8.1	87	**90**
	Count	45	45	24	45	45	36	35		33	35	36	13	**Count**
Eastern Logan River	**10**	71	27	280	9	4	5	5		1	277	7.6	90	**20**
	20	89	43	340	30	6	7	9		2	352	7.8	93	**30**
	40	120	66	446	110	11	11	13		3	475	8.0	97	**50**
	50	130	80	500	140	14	13	15		4	514	8.1	99	**60**
	70	180	110	664	230	25	19	23		6	625	8.2	104	**80**
	80	220	120	835	300	43	25	31		8	698	8.2	108	**90**
	Count	564	513	499	517	521	542	515		380	400	400	373	**Count**
Lower Logan River	**10**	14	1	380	2	7	3	1		1	225	6.4	40	**20**
incl. Slacks Creek freshwater	**20**	21	2	434	7	11	5	3		2	257	6.6	49	**30**
incl. Scrubby Creek freshwater	**40**	32	4	588	61	27	10	6		3	380	6.8	70	**50**
	50	37	4	680	100	46	14	8		4	444	7.0	78	**60**
	70	51	7	1000	234	63	26	17		7	609	7.2	90	**80**
	80	71	8	1400	400	116	33	24		10	726	7.3	99	**90**
	Count	213	211	213	243	273	276	238		169	214	214	214	**Count**
California Creek freshwater	**10**	20	2	350	1	6	7	3		1	218	6.0	24	**20**
Native Dog Creek	**20**	30	4	502	2	8	10	7		2	278	6.2	34	**30**
Serpentine Creek	**40**	78	7	900	5	15	18	13		6	405	6.5	50	**50**
	50	120	10	980	10	23	24	16		8	463	6.6	63	**60**
	70	282	31	1300	30	52	36	28		22	655	6.8	81	**80**
	80	430	84	1600	66	114	48	46		32	766	6.9	94	**90**
	Count	147	145	147	145	145	141	134		105	141	141	141	**Count**

Logan River - Upland Freshwaters

Sub-Basin	Percentile	Nutrients: Total P	Nutrients: Filterable Reactive P	Nutrients: Total N	Nutrients: Oxidised N	Nutrients: Ammonium N	Turbidity: Turbidity	Turbidity: Total Suspended Solids	Secchi	Productivity: Chlorophyll-a	Phys-Chem: Electrical Conductivity	Phys-Chem: pH	Phys-Chem: Dissolved Oxygen	Percentiles
				(µg/L)			(NTU)	(mg/L)	(m)	(µg/L)	(µS/cm)		(%)	for DO(%) and Secchi(m)
Existing WQO for Moderately Disturbed waters	20											6.5	90	
	Median	30	15	250	40	10	5	6	N.A.	2	780			
	80											8.2	110	
All Sub-catchments	**10**	14	7	100	1	3	1	1		2	81	6.8	82	**20**
	20	19	11	138	4	3	1	2		2	95	7.1	89	**30**
	40	30	17	218	15	5	2	2		3	142	7.5	95	**50**
	50	34	19	295	30	6	3	3		3	211	7.6	97	**60**
	70	57	25	460	100	13	6	5		4	314	7.8	100	**80**
	80	82	31	542	140	37	8	8		6	360	7.9	105	**90**
	Count	272	140	250	193	192	104	176		44	259	285	37	**Count**
Upper Western Logan River	**10**	14	3	110	1	3	1	1		2	95	6.9	82	**20**
	20	18	9	150	3	3	2	2		2	140	7.2	89	**30**
	40	29	17	280	12	5	3	2		3	264	7.5	95	**50**
	50	35	19	340	22	7	3	3		3	281	7.6	97	**60**
	70	68	26	520	90	24	7	5		4	361	7.8	100	**80**
	80	130	32	614	148	69	9	7		6	434	7.9	105	**90**
	Count	206	95	199	148	147	80	155		44	132	159	37	**Count**
Upper Eastern Logan River	**10**	18	17	128	23	2	1	0.4			77	6.7		**20**
	20	25	17	146	40	3	1	2			82	7.0		**30**
	40	34	21	180	88	4	1	3			92	7.2		**50**
	50	40	23	182	100	5	2	5		N.D.	103	7.3	N.D.	**60**
	70	46	25	230	120	7	3	10			124	7.7		**80**
	80	50	30	260	140	9	4	10			138	7.8		**90**
	Count	53	34	39	34	34	22	18			94	94.0		**Count**
Upper Teviot Brook	**10**	10	9	61	3	1					224	6.6		**20**
	20	13	10	70	4	1					271	7.2		**30**
	40	22	11	82	10	1					318	7.5		**50**
	50	25	11	100	11	1	I.D	I.D.		N.D.	337	7.6	N.D.	**60**
	70	30	14	110	14	4					375	7.8		**80**
	80	31	14	199	15	5					432	7.9		**90**
	Count	13	11	12	11	11	2	3			33	32.0		**Count**

I.D. - Insufficient Data
N.D. - No Data
N.A. - Not Applicable