

# South East Queensland Water Quality Objectives Review Consultation Draft Water Quality Data

## Pine Rivers Basin and Redcliffe Creeks - Part of Basin 142

### Pine Rivers and Redcliffe Creeks - Lower Estuary and Enclosed Coastal Waters

Sub-Basin	Percentile	Nutrients					Turbidity	Total Suspended Solids (mg/L)	Secchi (m)	Productivity		Phys-Chem		Percentiles for DO(%) and Secchi (m)
		Total P	Filterable Reactive P	Total N (µg/L)	Oxidised N	Ammonium N				Chlorophyll-a (µg/L)	Electrical Conductivity (µS/cm)	pH	Dissolved Oxygen (%)	
Existing WQO for Moderately Disturbed waters	20											8	90	
	Median	20	6	200	3	8	6	15	1.5	2	N.A.	8.4	105	
	80													
All Sub-catchments combined	10	28	12	170	1	1	2		0.8	0.8		7.8	90	20
	20	33	17	200	1	1	3		1.0	1		7.9	92	30
	40	41	22	246	1	2	5		1.2	2		8.0	96	50
	50	45	24	260	1	3	6		1.5	3		8.1	97	60
	70	52	28	303	6	7	8		2.0	4		8.2	100	80
	80	58	31	340	14	12	10		2.7	6		8.2	104	90
	Count	126	126	348	348	346	335		337	327		371	372	Count
Hays Inlet	10											7.4	79	20
	20											7.7	83	30
	40											7.8	93	50
	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		7.9	96	60
	70											8.0	100	80
	80											8.1	107	90
	Count											22	24	Count
Pine River estuary	10	33	17	170	1	1	2		0.8	0.8		7.9	90	20
	20	41	23	200	1	1	3		1.0	1		7.9	92	30
	40	55	33	246	1	2	5		1.2	2		8.0	96	50
	50	63	38	260	1	3	6		1.5	3		8.1	97	60
	70	79	49	303	6	7	8		2.0	4		8.2	100	80
	80	88	54	340	14	12	10		2.7	6		8.2	104	90
	Count	348	347	348	348	346	335		337	327		349	348	Count

### Pine Rivers and Redcliffe Creeks - Mid Estuary Waters

Sub-Basin	Percentile	Nutrients					Turbidity	Total Suspended Solids (mg/L)	Secchi (m)	Productivity		Phys-Chem		Percentiles for DO(%) and Secchi (m)
		Total P	Filterable Reactive P	Total N (µg/L)	Oxidised N	Ammonium N				Chlorophyll-a (µg/L)	Electrical Conductivity (µS/cm)	pH	Dissolved Oxygen (%)	
Existing WQO for Moderately Disturbed waters	20											7	85	
	Median	25	6	300	10	10	8	20	1	4	N.A.	8.4	110	
	80													
All Sub-catchments Combined	10	37	14	280	3	5	3		0.6	0.8		7.2	68	20
	20	45	20	330	5	8	4		0.8	2		7.4	74	30
	40	58	28	390	24	21	6		1.0	3		7.5	82	50
	50	65	32	430	45	29	7	N.D.	1.1	3		7.6	85	60
	70	81	42	540	100	44	9		1.4	5		7.7	94	80
	80	92	52	598	150	58	11		1.6	7		7.9	102	90
	Count	365	365	365	365	348	365		365	365	334		971	970
Hays Inlet	10											6.8	60	20
	20											7.2	63	30
	40											7.5	68	50
	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		7.5	70	60
	70											7.7	81	80
	80											7.8	88	90
	Count											11	12	Count
North Pine River estuary	10	35	18	260	2	4	2		0.6	0.8		7.3	70	20
	20	44	23	290	5	7	3		0.9	1		7.4	76	30
	40	60	32	360	15	18	5		1.1	2		7.6	85	50
	50	65	37	390	30	28	6		1.2	3		7.7	88	60
	70	83	50	475	67	49	8		1.6	4		7.9	97	80
	80	94	66	560	87	71	9		1.7	6		7.9	104	90
	Count	184	184	184	184	172	184		186	169		512	510	Count
Pine River estuary	10											7.4	72	20
	20											7.5	77	30
	40											7.6	78	50
	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		7.7	86	60
	70											7.8	100	80
	80											8.1	109	90
	Count											11	12	Count
Saltwater Creek estuary	10											6.5	19	20
	20											6.6	34	30
	40											6.8	42	50
	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		6.8	43	60
	70											7.0	54	80
	80											7.2	66	90
	Count											11	12	Count
South Pine River estuary	10	39	11	330	3	5	3		0.6	0.8		7.2	68	20
	20	45	16	370	7	9	5		0.7	2		7.3	72	30
	40	57	25	440	46	22	7		0.9	3		7.4	79	50
	50	65	29	490	89	30	7	N.D.	1.0	3		7.5	82	60
	70	79	36	580	160	43	10		1.2	6		7.6	90	80
	80	91	44	656	200	52	12		1.4	8		7.7	97	90
	Count	181	181	181	181	176	181		179	165		426	424	Count

# South East Queensland Water Quality Objectives Review

## Consultation Draft Water Quality Data

### Pine Rivers Basin and Redcliffe Creeks - Part of Basin 142

#### Pine Rivers and Redcliffe Creeks - Upper Estuary Waters

Sub-Basin	Percentile	Nutrients					Turbidity	Total Suspended Solids (mg/L)	Secchi (m)	Productivity		Phys-Chem		Percentiles for DO(%) and Secchi (m)
		Total P	Filterable Reactive P	Total N (µg/L)	Oxidised N	Ammonium N				Chlorophyll-a (µg/L)	Electrical Conductivity (µS/cm)	pH	Dissolved Oxygen (%)	
Existing WQO for Moderately Disturbed waters	20								0.5			7	85	
	Median	30	10	450	15	30	25	25		8	N.A.			
	80											8.4	110	
North Pine River estuary All Dates	10	17	3	340	1	4	2		0.4	2		7.3	67	20
	20	21	3	380	2	6	4		0.4	2		7.4	76	30
	40	28	5	480	6	11	7		0.5	4		7.6	87	50
	50	36	7	540	10	13	8	N.D.	0.5	6		7.6	90	60
	70	58	15	620	28	28	13		0.8	9		7.8	99	80
	80	76	24	684	50	41	17		1.0	12		7.9	106	90
	Count	172	172	172	172	171	162		43	160		165	164	Count
North Pine River estuary Post 2009	10	16	1	320	1	4	2		0.4	1				20
	20	18	3	340	3	5	4		0.5	2				30
	40	21	3	400	18	10	7		0.5	3				50
	50	22	4	420	26	12	8	N.D.	0.5	4		N.D.	N.D.	60
	70	28	5	544	67	17	10		0.9	5				80
	80	34	6	576	85	34	12		1.2	8				90
	Count	61	61	61	61	61	58		16	55				Count

#### Pine Rivers and Redcliffe Creeks - Lowland Freshwaters

Sub-Basin	Percentile	Nutrients					Turbidity	Total Suspended Solids (mg/L)	Secchi (m)	Productivity		Phys-Chem		Percentiles for DO(%) and Secchi (m)
		Total P	Filterable Reactive P	Total N (µg/L)	Oxidised N	Ammonium N				Chlorophyll-a (µg/L)	Electrical Conductivity (µS/cm)	pH	Dissolved Oxygen (%)	
Existing WQO for Moderately Disturbed waters	20											6.5	85	
	Median	50	20	500	60	20	50	6	N.A.	5	520			
	80											8	110	
All Sub-catchments combined	10	13	3	245	1	3	1	2		2	235	6.4	28	20
	20	18	3	320	2	4	1	2		3	296	6.6	39	30
	40	26	5	416	6	9	2	4		5	374	6.8	63	50
	50	32	7	470	13	13	3	4		6	409	6.9	74	60
	70	48	13	590	36	29	5	6		7	514	7.2	92	80
	80	65	18	670	62	43	6	7		8	650	7.3	108	90
	Count	462	256	454	378	414	326	229		221	854	818	191	Count
Bald Hills Creek freshwater	10	11	2	338	1	3	1	1		1	221	6.6	60	20
	20	16	2	389	1	4	2	1		2	321	6.9	82	30
	40	27	3	426	1	5	5	2		3	377	7.7	95	50
	50	30	4	455	1	6	7	3		4	404	7.7	103	60
	70	40	4	512	2	7	10	6		8	496	8.9	144	80
	80	43	5	542	4	8	13	9		9	576	9.2	154	90
	Count	12	12	12	12	12	12	12		12	12	12	12	Count
Cedar Creek	10	13	4	160	1	0					229	6.6		20
	20	24	7	166	3	2					276	6.6		30
	40	35	9	202	9	3					389	6.8		50
	50	37	10	210	17	5	I.D	I.D	N.D.		397	6.9	I.D	60
	70	40	10	230	37	6					411	7.1		80
	80	45	13	246	39	8					471	7.2		90
	Count	12	11	12	11	11	1	1		31	31	6		Count
Kurwongbah Catchment incl. Mosquito Creek	10	12	6	238	1	3	1	1		1	150	6.5	15	20
	20	18	8	280	4	3	1	2		3	210	6.7	23	30
	40	30	10	460	18	11	3	3		5	350	7.0	37	50
	50	42	12	533	32	16	4	4		6	428	7.1	43	60
	70	76	15	750	75	30	6	6		7	656	7.5	64	80
	80	108	16	930	84	45	8	8		7	799	7.6	72	90
	Count	99	20	99	65	98	24	87		12	86	44	62	Count
Lower North Pine River freshwaters	10	16	3	346	1	4	1	2		3	150	6.7	18	20
	20	20	3	380	2	6	1	3		4	162	6.9	20	30
	40	26	5	460	8	12	2	4		5	189	7.0	52	50
	50	32	7	490	12	17	3	4		6	532	7.4	82	60
	70	48	15	590	34	36	5	6		7	961	7.6	97	80
	80	62	24	650	54	50	6	6		8	1097	7.7	100	90
	Count	265	172	265	247	250	216	88		171	13	13	12	Count
Saltwater Creek freshwater	10										268	6.4	26	20
	20										315	6.5	33	30
	40										386	6.8	46	50
	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		418	6.9	58	60
	70										541	7.0	86	80
	80										741	7.2	92	90
	Count										567	573	47	Count
South Pine River freshwater	10	9	2	200	1	1	1	3		1	290	6.7	58	20
	20	13	3	216	1	2	1	3		2	332	7.1	68	30
	40	24	4	282	1	4	2	5		3	395	7.3	77	50
	50	27	6	303	2	5	2	5		3	438	7.3	82	60
	70	38	13	377	19	9	4	7		4	475	7.6	99	80
	80	47	18	424	33	12	6	7		4	517	7.8	112	90
	Count	54	29	47	29	29	49	34		14	85	86	24	Count

# South East Queensland Water Quality Objectives Review Consultation Draft Water Quality Data

## Pine Rivers Basin and Redcliffe Creeks - Part of Basin 142

### Pine Rivers and Redcliffe Creeks - Lowland Freshwaters continued.

Sub-Basin	Percentile	Nutrients					Turbidity	Total Suspended Solids	Secchi	Productivity		Phys-Chem		Percentiles
		Total P	Filterable Reactive P	Total N	Oxidised N	Ammonium N				Chlorophyll-a	Electrical Conductivity	pH	Dissolved Oxygen	
				(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	50	6	N.A.	5	520	8	110	
	80													
Upper North Pine River	10	8	0.3	60	3	1	1	2		0.4	179	5.8	43	20
	20	10	1	80	5	1	2	5		2	191	6.1	63	30
	40	11	2	100	16	3	4	6		3	230	6.4	81	50
	50	13	3	142	20	4	5	9		5	255	6.5	91	60
	70	22	3	450	28	8	8	11		9	310	7.2	108	80
	80	48	5	700	32	12	12	-		11	340	7.5	112	90
Count		20	12	19	14	14	24	7		12	45	44	13	Count
Redcliffe Peninsula Creeks		Insufficient Data to derive guidelines.												

### Pine Rivers and Redcliffe Creeks - Upland Freshwaters

Sub-Basin	Percentile	Nutrients					Turbidity	Total Suspended Solids	Secchi	Productivity		Phys-Chem		Percentiles
		Total P	Filterable Reactive P	Total N	Oxidised N	Ammonium N				Chlorophyll-a	Electrical Conductivity	pH	Dissolved Oxygen	
				(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	25	6	N.A.	2	600	8.2	110	
	80													
Upper North Pine River	10	10	2	75	6	1					129	6.5	-	20
	20	11	2	122	18	2					140	6.7	84	30
	40	14	3	143	26	4					157	6.9	88	50
	50	14	4	160	29	5	I.D.	I.D.		N.D.	162	7.1	92	60
	70	25	4	202	66	7					177	7.2	98	80
	80	35	6	220	82	8					188	7.3	109	90
Count		13	11	12	12	12	2	1		0	34	34	8	Count

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