

**MERRIWA SEWAGE TREATMENT WORKS - LICENCE TESTING**  
**OUTLET OF FINAL TERTIARY POND -EPA LICENCE TESTING**  
**Monitoring Point 1**

Licence No: 4661

Date Sampled			10/Feb/16	23/May/16	6/Sep/16	17/Nov/16							
Effective Month			Feb/16	May/16	Sep/16	Nov/16							
Parameters Monitored	100 percentile limits	90 percentile limit					Min	Average	Max	Licence Period			
	License Limit (mg/l)	PQL limits (mg/l)								50%	90%		
BOD5	20		21.00	22.00	34.00	27.00	4	21.00	26.00	34.00	24.5	31.9	
Nitrogen (Ammonia)			0.14	1.40	1.40	8.30	4	0.14	2.81	8.30	1.4	6.23	
Nitrogen (Total)			4.90	5.40	6.80	20.10	4	4.90	9.30	20.10	6.1	16.11	
Oil and Grease	10		4.00	4.00	2.00	2.00	4	2.00	3.00	4.00	3	4	
Total Phosphorus			3.50	3.40	3.90	4.70	4	3.40	3.88	4.70	3.7	4.46	
Total Suspended Solids	30		44.00	55.00	64.00	62.00	4	44.00	56.25	64.00	58.5	63.4	

                     Indicates results exceed the licence limits                           Indicates result was < the number given

**MERRIWA RIVER - UPTREAM -EPA LICENCE TESTING**  
**Monitoring Point 3**

Date Sampled			10/Feb/16	23/May/16	6/Sep/16	17/Nov/16							
Effective Month			Feb/16	May/16	Sep/16	Nov/16							
Parameters Monitored	100 percentile limits	90 percentile limit					Min	Average	Max	Licence Period			
	License Limit (mg/l)	PQL limits (mg/l)								50%	90%		
BOD5			2.00	2.00	4.00	2.00	4	2.00	2.50	4.00	2	3.4	
Nitrogen (Ammonia)			0.05	0.05	0.05	0.05	4	0.05	0.05	0.05	0.05	0.05	
Nitrogen (Total)			0.50	0.30	0.60	0.55	4	0.30	0.49	0.60	0.525	0.585	
Oil and Grease			3.00	2.00	2.00	2.00	4	2.00	2.25	3.00	2	2.7	
Total Phosphorus			0.17	0.13	0.39	0.33	4	0.13	0.26	0.39	0.25	0.372	
Total Suspended Solids			6.00	4.00	15.00	30.00	4	4.00	13.75	30.00	10.5	25.5	

                     Indicates result was < the number given

**MERRIWA RIVER - DOWNTREAM -EPA LICENCE TESTING**  
**Monitoring Point 4**

Date Sampled			10/Feb/16	23/May/16	6/Sep/16	17/Nov/16							
Effective Month			Feb/16	May/16	Sep/16	Nov/16							
Parameters Monitored	100 percentile limits	90 percentile limit					Min	Average	Max	Licence Period			
	License Limit (mg/l)	PQL limits (mg/l)								50%	90%		
BOD5			2.00	2.00	5.00	2.00	4	2.00	2.75	5.00	2	4.1	
Nitrogen (Ammonia)			0.05	0.05	0.05	0.05	4	0.05	0.05	0.05	0.05	0.05	
Nitrogen (Total)			0.50	0.20	0.70	45.00	4	0.20	11.60	45.00	0.6	31.71	
Oil and Grease			3.00	2.00	2.00	2.00	4	2.00	2.25	3.00	2	2.7	
Total Phosphorus			0.24	0.14	0.42	0.34	4	0.14	0.29	0.42	0.29	0.396	
Total Suspended Solids			13.00	1.00	14.00	23.00	4	1.00	12.75	23.00	13.5	20.3	

                     Indicates result was < the number given