



**Australian NATA Certified Removal Results for the MEMFREE Waste Water Treatment System**

Material	Raw mg/L	Cleaned mg/l	% Removal
Faecal Coliforms	72,000,000	1300 (est)	99.9
E. coli	1,800,000	9,000	99.5
BOD5	102.60	4.5	95.6
COD	145,500	5,320	96.3
Total Kjeldahl Nitrogen	81	46	43.2
Total Nitrogen	48	34	29.2
Nitrate	4.20	0.20	95.2
Ammonia-N	0.24	<0.03	>88.9
Oxidised-N	0.20	<0.1	>50
TOC	6,091	36.8	99.40
TSS	1,900	19	99.00
Colour	24.20	<1	>95.9
Turbidity	>2000	20	>99
Oil & Grease	81,440	20	99.98
Grease	150	<3	>98
Petroleum Hydrocarbons	1,200	15	98.8
Ethanol	9.30	<0.05	>99.5
Acetone	0.69	<0.05	>94.2
Benzene	0.12	<0.001	>99.2
Toluene	0.99	<0.001	>99.9
Ethyl Benzene	2.1	<0.005	>99.8
Xylenes	4.8	<0.005	>99.9
TRH C6-C9	8.7	0.002	>99.8
TRH C10-C14	9.1	2.6	71.4
Aluminium	16	0.66	95.9
Arsenic	0.73	0.01	98.6
Barium	5.6	0.13	97.7
Boron	0.42	0.17	59.5
Cadmium	0.049	<0.001	>98
Calcium	36	16	55.6
Cobalt	0.06	0.01	83.3
Copper	260	0.27	99.9
Dissolved Oxygen	0.26	8.9	X 35 increase
Iron	1.009	0.014	98.7
Lead	5.4	<0.01	>99.8
Magnesium	5.6	2.5	55.4
Manganese	0.28	<0.01	>96.4
Nickel	0.02	0.003	85
Phosphorus	27.5	0.4	98.5
Selenium	0.04	0.01	75
Tin	0.85	<0.01	>98.8
Titanium	1.1	<0.01	>99.1
Vanadium	0.8	<0.01	>87.5
Zinc	180	0.42	99.8