

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS
 SAMPLING ON 27TH NOVEMBER 2017
 EPA LICENCE NUMBER 6061
<http://www.environment.nsw.gov.au/bipoeopp/>

WOLLONDILLY SHIRE COUNCIL
 62-64 Menangle Street PICTON NSW 2571

SAMPLING LOCATIONS				EPA Point 1	EPA Point 2	EPA Point 3	EPA Point 4	EPA Point 5	EPA Point 6	EPA Point 7	EPA Point 8	-
Pollutant	Unit of Measure	Monitoring Frequency	Concentration Limits for Sampling Point	Ground Water Bore BA1 NE Corner	Surface Water Pond NE Corner BA3	Dog Trap Creek Upstream BA4	Dog Trap Creek Downstream BA5	Surface Water Pond SE Corner BA8	Drainage Line BA9	Ground Water Up Gradient Bore BA6 SW Corner	Ground Water Down Gradient Bore BA7 SE Corner	Dog Trap Creek below landfill drainage line BA10
Alkalinity (as calcium carbonate)	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Aluminium	milligrams per litre	Annual / Quarterly		not required	not required	0.4	0.05	not required	0.02	not required	not required	0.04
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9 milligrams per litre for Points 2 and 5 only	75	less than 0.005	0.046	less than 0.005	Dry	less than 0.005	0.019	0.086	0.018
Arsenic	milligrams per litre	Annual / Quarterly		not required	not required	0.002	less than 0.001	not required	less than 0.001	not required	not required	0.001
Barium	milligrams per litre	Annual / Quarterly		not required	not required	0.038	0.022	not required	0.11	not required	not required	0.1
Benzene	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly		not required	less than 5	28	24	Dry	not required	not required	not required	47
Cadmium	milligrams per litre	Annual / Quarterly		not required	not required	less than 0.0001	less than 0.0001	not required	0.0001	not required	not required	less than 0.0001
Calcium	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly		not required	not required	70	less than 50	Dry	not required	not required	not required	less than 50
Chloride (Cl)	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Chromium (hexavalent)	milligrams per litre	Annual / Quarterly		not required	not required	less than 0.025	less than 0.005	not required	less than 0.005	not required	not required	less than 0.005
Chromium (total)	milligrams per litre	Annual / Quarterly		not required	not required	less than 0.001	0.001	not required	less than 0.001	not required	not required	less than 0.001
Cobalt	milligrams per litre	Annual / Quarterly		not required	not required	Less than 0.001	Less than 0.001	not required	less than 0.001	not required	not required	Less than 0.001
Copper	milligrams per litre	Annual / Quarterly		not required	not required	0.003	0.002	not required	0.005	not required	not required	0.001
Ethylbenzene	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Fluoride	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Lead	milligrams per litre	Annual / Quarterly		not required	not required	0.001	less than 0.001	not required	less than 0.001	not required	not required	less than 0.001
Magnesium	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Manganese	milligrams per litre	Annual / Quarterly		not required	not required	0.12	0.063	not required	0.04	not required	not required	0.092
Mercury	milligrams per litre	Annual / Quarterly		not required	not required	less than 0.00005	less than 0.00005	not required	less than 0.00005	not required	not required	less than 0.00005
Nitrate (as Nitrogen)	milligrams per litre	Annual / Quarterly		not required	not required	less than 0.005	0.01	not required	0.5	not required	not required	0.02
Nitrite (as Nitrogen)	milligrams per litre	Annual / Quarterly		not required	not required	less than 0.005	less than 0.005	not required	less than 0.005	less than 0.02	not required	less than 0.005
Organochlorine Pesticides (OCP)	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Polycyclic Aromatic Hydrocarbons (PAH)	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Potassium	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Sodium	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Sulphate (as SO ₄)	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Toluene	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Dissolved Solids (TDS)	milligrams per litre	Quarterly		1400	620	190	750	Dry	1100	760	250	990
Total Iron	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Kjeldahl Nitrogen	milligrams per litre	Quarterly		not required	not required	1.6	0.8	not required	0.5	not required	not required	0.7
Total Nitrogen	milligrams per litre	Quarterly		not required	not required	1.6	0.81	not required	1.0	not required	not required	0.72
Total Organic Carbon (TOC)	milligrams per litre	Quarterly		90	27	33	23	Dry	20	22	6	20
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Phenolics	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Total Phosphorus	milligrams per litre	Annual / Quarterly		not required	not required	0.1	less than 0.05	not required	less than 0.05	not required	not required	less than 0.05
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50 milligrams per litre for Points 2 & 5 only	not required	less than 5	10	16	Dry	not required	not required	not required	12
Volatile Organic Compounds (VOCs)	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Xylenes	milligrams per litre	Annual		not required	not required	not required	not required	not required	not required	not required	not required	not required
Zinc	milligrams per litre	Annual / Quarterly		not required	not required	0.006	0.003	not required	0.13	not required	not required	0.006
FIELD MEASUREMENTS												
Standing Water Level	metres below ground surface	Quarterly		0.8	not required	not required	not required	not required	not required	38.1	16.750	not required
Electrical Conductivity	microsiemens per centimetre	Quarterly		677	798	61	1064	Dry	1504	1072	100	1470
PH	PH Units	Quarterly		6.95	8.30	7.50	7.80	Dry	7.41	5.69	5.83	7.55
Temp	Degree C	Quarterly		18.9	27.6	22.8	25.5	Dry	23.6	21.4	21.6	24.9

Additional testing to the licence conditions is highlighted in blue text.

CLOSED WARRAGAMBA WASTE MANAGEMENT CENTRE PRODUCTION AVENUE WARRAGAMBA - SAMPLING RESULTS

SAMPLING ON 28TH NOVEMBER 2017
 EPA LICENCE NUMBER 6062
<http://www.environment.nsw.gov.au/bprpocpp/>
 WOLLONDILLY SHIRE COUNCIL
 62-64 Menangle Street PICTON NSW 2571

SAMPLING LOCATIONS				EPA Point 1	EPA Point 2	EPA Point 3	EPA Point 4	EPA Point 5	EPA Point 6	EPA Point 7	EPA Point 8
Pollutant	Unit of Measure	Monitoring Frequency	Concentration Limits for Sampling Point	Magarrity's Creek Upstream WA3	Magarrity's Creek Downstream WA4	Ground Water NE Corner Down Gradient WA1	Ground Water SW Corner Up Gradient WA2	Ground Water SE Corner WA8 (leachate collection sump)	Drainage Line WA5	Surface Water Pond A WA6 (Not Installed)	Surface Water Pond B WA7 (Not Installed)
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly		not required	not required	Dry	less than 5	540	Dry		
Aluminium	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.010	Dry		
Ammonia (as nitrogen)	milligrams per litre	Quarterly / Annual	0.9 milligrams per litre for Points 7 and 8 only	not required	not required	Dry	0.04	11	Dry		
Arsenic	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.001	Dry		
Barium	milligrams per litre	Annual		not required	not required	not required	not required	0.48	Dry		
Benzene	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.001	not required		
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly		6	less than 5	not required	not required	not required	Dry		
Cadmium	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.0002	Dry		
Calcium	milligrams per litre	Quarterly		not required	not required	Dry	0.8	140	Dry		
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly		less than 50	less than 50	not required	not required	not required	not required		
Chloride (as Cl)	milligrams per litre	Quarterly		not required	not required	Dry	13	110	Dry		
Chromium (hexavalent)	milligrams per litre	Annual		not required	not required	not required	not required	not tested	not required		
Chromium (total)	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.001	not required		
Cobalt	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.001	Dry		
Copper	milligrams per litre	Annual		not required	not required	not required	not required	0.002	Dry		
Ethylbenzene	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.001	Dry		
Fluoride	milligrams per litre	Annual		not required	not required	not required	not required	0.4	Dry		
Lead	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.001	Dry		
Magnesium	milligrams per litre	Quarterly		not required	not required	Dry	30	35	Dry		
Manganese	milligrams per litre	Annual		not required	not required	not required	not required	0.22	Dry		
Mercury	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.00005	Dry		
Organochlorine Pesticides (OCP)	milligrams per litre	Annual		not required	not required	not required	not required	less than limit of reporting	not required		
Organophosphorus Pesticides (OPP)	milligrams per litre	Annual		not required	not required	not required	not required	less than limit of reporting	not required		
Ortho Phosphate	milligrams per litre	Quarterly		not required	not required	not required	not required	not required	not required		
Polycyclic Aromatic Hydrocarbons (PAH)	milligrams per litre	Annual		not required	not required	not required	not required	less than limit of reporting	not required		
Potassium	milligrams per litre	Quarterly		not required	not required	Dry	2.3	38	Dry		
Sodium	milligrams per litre	Quarterly		not required	not required	Dry	280	140	Dry		
Sulphate (as SO ₄)	milligrams per litre	Quarterly		not required	not required	Dry	88	23	Dry		
Toluene	milligrams per litre	Annual		not required	not required	not required	not required	0.002	Dry		
Total Dissolved Solids (TDS)	milligrams per litre	Quarterly		120	190	Dry	910	780	Dry		
Total Nitrogen	milligrams per litre	Quarterly / Annual		not required	not required	not required	not required	10.3	Dry		
Total Organic Carbon (TOC)	milligrams per litre	Quarterly		9	5	Dry	3	17	Dry		
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.25	not required		
Total Phenolics	milligrams per litre	Annual		not required	not required	not required	not required	not tested	not required		
Total Phosphorus	milligrams per litre	Quarterly		not required	not required	not required	not required	less than 0.05	Dry		
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50 milligrams per litre for Points 7 & 8 only	10	9	not required	not required	not required	not required		
Xylenes	milligrams per litre	Annual		not required	not required	not required	not required	less than 0.003	Dry		
Zinc	milligrams per litre	Annual		not required	not required	not required	not required	0.075	Dry		

Additional testing to the licence conditions is highlighted in blue text.

FIELD MEASUREMENTS											
Standing Water Level	metres below ground surface	Quarterly		not required	not required	Dry	11.8	not required	not required		
Electrical Conductivity	microsiemens per centimetre	Quarterly		166	113	Dry	1501	490	Dry		
PH	PH Units	Quarterly		7.91	7.85	Dry	4.32	7	Dry		
Temp	Degrees Celcius	Quarterly		26.4	25.4	Dry	20.7	25.2	Dry		