

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 14 FEBRUARY 2017

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/iprceopp/>

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	Trigger value	Groundwater 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	Groundwater Up Gradient Bore BA6 SW Corner	Groundwater 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	0.055	not required	not required	0.48	0.1	not required	less than 0.05	not required	not required	0.09
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	82	0.16	0.09	0.13	Dry pond	less than 0.01	0.09	0.15	0.03
Arsenic	milligrams per litre	Annual / Quarterly	0.01	not required	not required	0.002	0.002	not required	less than 0.001	not required	not required	0.002
Barium	milligrams per litre	Annual / Quarterly	2	not required	not required	0.03	0.1	not required	0.11	not required	not required	0.14
Benzene	milligrams per litre	Annual	0.001	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	less than 5	less than 5	Dry pond	not required	not required	not required	less than 5
Cadmium	milligrams per litre	Annual / Quarterly	0.0002	not required	not required	less than 0.0002	less than 0.0002	not required	less than 0.0002	not required	not required	less than 0.0002
Calcium	milligrams per litre	Annual	1000	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	130	72	Dry pond	not required	not required	not required	72
Chloride (Cl)	milligrams per litre	Annual	175	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	0.001	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
Chromium (total)	milligrams per litre	Annual / Quarterly	0.0033	not required	not required	0.001	0.002	not required	less than 0.001	not required	not required	0.002
Cobalt	milligrams per litre	Annual / Quarterly	0.0014	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	0.0014	not required	not required	0.003	0.003	not required	0.006	not required	not required	0.003
Ethylbenzene	milligrams per litre	Annual	0.08	not required	not required	not required	not required	not required	not required	not required	not required	not required
Fluoride	milligrams per litre	Annual	1	not required	not required	not required	not required	not required	not required	not required	not required	not required
Lead	milligrams per litre	Annual / Quarterly	0.0034	not required	not required	0.002	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	0.2	not required	not required	0.075	0.042	not required	0.057	not required	not required	0.053
Mercury	milligrams per litre	Annual / Quarterly	0.00006	not required	not required	0.00004	0.00005	not required	0.00015	not required	not required	0.00002
Nitrate (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.16	not required	not required	less than 0.02	2.4	not required	0.77	not required	not required	0.36
Nitrite (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.9	not required	not required	less than 0.02	0.26	not required	less than 0.02	less than 0.02	not required	0.03
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	0.00001	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	230	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	1000	not required	not required	not required	not required	not required	not required	not required	not required	not required
Toluene	milligrams per litre	Annual	0.18	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	2000	1500	780	120	620	Dry pond	1200	510	160	1100
Total Iron	milligrams per litre	Annual	0.2	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	2.2	2.0	not required	1.2	not required	not required	1.4
Total Nitrogen	milligrams per litre	Quarterly	0.25	not required	not required	2.2	4.7	not required	1.98	not required	not required	1.78
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	25	40	53	31	Dry pond	20	5.7	less than 5	23
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	0.32	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	0.02	not required	not required	0.58	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	not required	7.9	9.4	4.8	Dry pond	not required	not required	not required	9.6
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	0.075	not required	not required	not required	not required	not required	not required	not required	not required	not required
Zinc	milligrams per litre	Annual / Quarterly	0.008	not required	not required	0.008	0.01	not required	0.12	not required	not required	0.014
FIELD MEASUREMENTS												
Standing Water Level	metres below ground surface	Quarterly	-	1.00	not required	not required	not required	not required	not required	35.34	13.85	not required
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	2690	1240	112	1082	Dry pond	1788	1024	305	1633
PH	PH Units	Quarterly	6.5-8	6.9	8.0	6.6	7.8	Dry pond	7.9	5.9	6.0	7.8
Temp	Degree C	Quarterly	-	18.8	22.6	22.9	17.5	Dry pond	16.5	15.1	15.1	18.4

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

Value exceeds adopted trigger values

Unit of Reporting too high for adopted trigger value

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 16 MAY 2017

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/iprceopp/>

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	Trigger value	Groundwater 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	Groundwater Up Gradient Bore BA6 SW Corner	Groundwater 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	0.055	not required	not required	0.24	less than 0.05	not required	less than 0.05	not required	not required	less than 0.05
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	61	0.10	0.03	0.02	Dry pond	0.02	0.09	less than 0.01	0.04
Arsenic	milligrams per litre	Annual / Quarterly	0.01	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
Barium	milligrams per litre	Annual / Quarterly	2	not required	not required	0.03	0.11	not required	0.11	not required	not required	0.09
Benzene	milligrams per litre	Annual	0.001	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	less than 5	less than 5	Dry pond	not required	not required	not required	less than 5
Cadmium	milligrams per litre	Annual / Quarterly	0.0002	not required	not required	less than 0.0002	less than 0.0002	not required	0.0005	not required	not required	less than 0.0002
Calcium	milligrams per litre	Annual	1000	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	25	72	Dry pond	not required	not required	not required	47
Chloride (Cl)	milligrams per litre	Annual	175	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	0.001	not required	not required	0.0005	less than 0.0005	not required	less than 0.0005	not required	not required	less than 0.0005
Chromium (total)	milligrams per litre	Annual / Quarterly	0.0033	not required	not required	less than 0.001	0.002	not required	0.001	not required	not required	0.002
Cobalt	milligrams per litre	Annual / Quarterly	0.0014	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	0.0014	not required	not required	less than 0.001	0.001	not required	0.008	not required	not required	0.003
Ethylbenzene	milligrams per litre	Annual	0.08	not required	not required	not required	not required	not required	not required	not required	not required	not required
Fluoride	milligrams per litre	Annual	1	not required	not required	not required	not required	not required	not required	not required	not required	not required
Lead	milligrams per litre	Annual / Quarterly	0.0034	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
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	0.2	not required	not required	0.14	less than 0.005	not required	0.017	not required	not required	0.022
Mercury	milligrams per litre	Annual / Quarterly	0.00006	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	0.16	not required	not required	0.05	17	not required	4.1	not required	not required	4.1
Nitrite (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.9	not required	not required	less than 0.02	less than 0.02	not required	less than 0.02	not required	not required	0.02
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	0.00001	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	230	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	1000	not required	not required	not required	not required	not required	not required	not required	not required	not required
Toluene	milligrams per litre	Annual	0.18	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	2000	1300	620	110	1100	Dry pond	1200	330	110	920
Total Iron	milligrams per litre	Annual	0.2	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	12	2.9	not required	13.0	not required	not required	1.4
Total Nitrogen	milligrams per litre	Quarterly	0.25	not required	not required	12	20	not required	17.0	not required	not required	5.5
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	31	25	8.2	25	Dry pond	20	8.7	9.9	22
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	0.32	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	0.02	not required	not required	0.056	less than 0.005	not required	0.033	not required	not required	less than 0.005
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	not required	2.4	6.3	4.9	Dry pond	not required	not required	not required	7.7
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	0.075	not required	not required	not required	not required	not required	not required	not required	not required	not required
Zinc	milligrams per litre	Annual / Quarterly	0.008	not required	not required	less than 0.005	less than 0.005	not required	0.38	not required	not required	0.011
FIELD MEASUREMENTS												
Standing Water Level	metres below ground surface	Quarterly	-	0.81	not required	not required	not required	not required	not required	37.36	12.12	not required
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	2620	1025	195	1634	Dry pond	1860	659	180	1540
PH	PH Units	Quarterly	6.5-8	7.0	8.0	6.6	8.0	Dry pond	7.8	5.7	5.5	7.7
Temp	Degree C	Quarterly	-	16.8	16.3	10.5	12.0	Dry pond	14.1	15.6	16.4	11.7

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

Value exceeds adopted trigger values

Unit of Reporting too high for adopted trigger value

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 23 AUGUST 2017

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/prpocpp/>

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	Trigger value	Groundwater 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	Groundwater Up Gradient Bore BA6 SW Corner	Groundwater Down Gradient Bore BA7 SE Corner	Dog Trap Creek below landfill drainage line BA10
Alkalinity (as calcium carbonate)	milligrams per litre	Annual	-	1100	150	not required	not required	not required	430	25	24	not required
Aluminium	milligrams per litre	Annual / Quarterly	0.055	less than 0.05	0.05	0.13	less than 0.05	not required	less than 0.05	less than 0.05	less than 0.05	less than 0.05
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	73	0.03	0.03	0.03	Dry pond	less than 0.01	0.08	0.12	0.02
Arsenic	milligrams per litre	Annual / Quarterly	0.01	0.001	0.001	less than 0.001	less than 0.001	not required	less than 0.001	less than 0.001	less than 0.001	less than 0.001
Barium	milligrams per litre	Annual / Quarterly	2	0.35	0.05	less than 0.02	0.08	not required	0.08	0.29	0.08	0.07
Benzene	milligrams per litre	Annual	0.001	less than 0.001	less than 0.001	not required	not required	not required	less than 0.001	less than 0.001	less than 0.001	not required
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly	-	not required	less than 5	less than 5	less than 5	Dry pond	not required	not required	not required	less than 5
Cadmium	milligrams per litre	Annual / Quarterly	0.0002	not required	less than 0.0002	less than 0.0002	less than 0.0002	not required	0.0002	0.0008	less than 0.0002	less than 0.0002
Calcium	milligrams per litre	Annual	1000	130	45	not required	not required	not required	160	4.1	6.5	not required
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly	-	not required	not required	45	62	Dry pond	not required	not required	not required	52
Chloride (Cl)	milligrams per litre	Annual	175	220	110	not required	not required	not required	220	270	32	not required
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Annual	-	less than limit of reporting	not required	not required	not required	not required	less than limit of reporting	less than limit of reporting	less than limit of reporting	not required
Chromium (hexavalent)	milligrams per litre	Annual / Quarterly	0.001	less than 0.001	less than 0.001	less than 0.001	less than 0.001	not required	less than 0.001	less than 0.001	less than 0.001	less than 0.001
Chromium (total)	milligrams per litre	Annual / Quarterly	0.0033	0.017	less than 0.001	less than 0.001	0.001	not required	less than 0.001	0.003	0.002	less than 0.001
Cobalt	milligrams per litre	Annual / Quarterly	0.0014	0.001	less than 0.001	less than 0.001	less than 0.001	not required	less than 0.001	0.052	0.011	less than 0.001
Copper	milligrams per litre	Annual / Quarterly	0.0014	less than 0.001	less than 0.001	0.001	0.001	not required	0.005	less than 0.001	less than 0.001	0.002
Ethylbenzene	milligrams per litre	Annual	0.08	less than 0.001	less than 0.001	not required	not required	not required	not required	less than 0.001	not required	not required
Fluoride	milligrams per litre	Annual	1	less than 0.5	less than 0.5	not required	not required	not required	less than 0.5	less than 0.5	less than 0.5	not required
Lead	milligrams per litre	Annual / Quarterly	0.0034	less than 0.001	less than 0.001	less than 0.001	less than 0.001	not required	less than 0.001	less than 0.001	0.004	less than 0.001
Magnesium	milligrams per litre	Annual	-	42	40	not required	not required	not required	40	21	3.8	not required
Manganese	milligrams per litre	Annual / Quarterly	0.2	0.31	0.016	0.012	less than 0.005	not required	less than 0.005	1.7	0.57	0.015
Mercury	milligrams per litre	Annual / Quarterly	0.00006	less than 0.0001	less than 0.0001	less than 0.0001	less than 0.0001	not required	less than 0.0001	less than 0.0001	less than 0.0001	less than 0.0001
Nitrate (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.16	0.03	less than 0.02	less than 0.02	0.2	not required	6.8	0.11	0.07	3.2
Nitrite (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.9	less than 0.02	not required	less than 0.02	less than 0.02	not required	less than 0.02	less than 0.02	less than 0.02	less than 0.02
Organochlorine Pesticides (OCP)	milligrams per litre	Annual	-	less than limit of reporting	less than limit of reporting	not required	not required	not required	less than limit of reporting	less than limit of reporting	less than limit of reporting	not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Annual	-	less than limit of reporting	less than limit of reporting	not required	not required	not required	less than limit of reporting	less than limit of reporting	less than limit of reporting	not required
Polycyclic Aromatic Hydrocarbons (PAH)	milligrams per litre	Annual	0.00001	0.00008	not required	not required	not required	not required	less than limit of reporting	less than limit of reporting	less than limit of reporting	not required
Potassium	milligrams per litre	Annual	-	52	21	not required	not required	not required	not required	2.5	2.7	not required
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Annual	-	less than limit of reporting	not required	not required	not required	not required	less than limit of reporting	less than limit of reporting	less than limit of reporting	not required
Sodium	milligrams per litre	Annual	230	120	74	not required	not required	not required	120	89	17	not required
Sulphate (as SO ₄)	milligrams per litre	Annual	1000	less than 5	200	not required	not required	not required	130	6.6	6.8	not required
Toluene	milligrams per litre	Annual	0.18	less than 0.001	less than 0.001	not required	not required	not required	less than 0.001	less than 0.001	less than 0.001	not required
Total Dissolved Solids (TDS)	milligrams per litre	Quarterly	2000	1200	600	110	830	Dry pond	940	440	120	850
Total Iron	milligrams per litre	Annual	0.2	not required	0.61	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	0.6	0.8	not required	1.3	not required	not required	less than 0.2
Total Nitrogen	milligrams per litre	Quarterly	0.25	not required	not required	0.6	10	not required	8.1	not required	not required	3.3
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	41	23	16	24	Dry pond	16	23	6.3	19
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Annual	-	0.4	less than limit of reporting	not required	not required	not required	less than limit of reporting	0.5	less than limit of reporting	not required
Total Phenolics	milligrams per litre	Annual	0.32	less than 0.00005	less than 0.00005	not required	not required	not required	less than 0.05	less than 0.05	less than 0.05	not required
Total Phosphorus	milligrams per litre	Annual / Quarterly	0.02	not required	less than 0.05	less than 0.05	less than 0.05	not required	less than 0.05	not required	not required	less than 0.005
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	not required	4.3	14	4.1	Dry pond	not required	not required	not required	12
Volatile Organic Compounds (VOCs)	milligrams per litre	Annual	-	0.00008	not required	not required	not required	not required	less than limit of reporting	less than limit of reporting	less than limit of reporting	not required
Xylenes	milligrams per litre	Annual	0.075	less than 0.001	less than 0.001	not required	not required	not required	<0.001	<0.001	<0.001	not required
Zinc	milligrams per litre	Annual / Quarterly	0.008	0.044	0.024	less than 0.005	less than 0.005	not required	0.19	0.2	0.098	0.007
FIELD MEASUREMENTS												
Standing Water Level	metres below ground surface	Quarterly	-	0.77	not required	not required	not required	not required	not required	37.73	13.78	not required
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	2440	930	156	1376	Dry pond	1581	1051	182	1511
PH	PH Units	Quarterly	6.5-8	6.7	8.7	6.9	7.9	Dry pond	7.9	5.6	6.0	7.8
Temp	Degree C	Quarterly	-	14.0	15.0	14.7	10.8	Dry pond	10.5	16.7	16.8	9.1

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

Value exceeds adopted trigger values
 Limit of Reporting too high for adopted trigger value

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 27TH NOVEMBER 2017

EPA LICENCE NUMBER 6061

<http://www.environment.nsw.gov.au/iprceopp/>

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	Trigger value	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	0.055	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	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	0.01	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	2	not required	not required	0.038	0.022	not required	0.11	not required	not required	0.1
Benzene	milligrams per litre	Annual	0.001	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	0.0002	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	1000	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	175	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	0.001	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	0.0033	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	0.0014	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	0.0014	not required	not required	0.003	0.002	not required	0.005	not required	not required	0.001
Ethylbenzene	milligrams per litre	Annual	0.08	not required	not required	not required	not required	not required	not required	not required	not required	not required
Fluoride	milligrams per litre	Annual	1	not required	not required	not required	not required	not required	not required	not required	not required	not required
Lead	milligrams per litre	Annual / Quarterly	0.0034	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	0.2	not required	not required	0.12	0.063	not required	0.04	not required	not required	0.092
Mercury	milligrams per litre	Annual / Quarterly	0.00006	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	0.16	not required	not required	less than 0.005	0.0	not required	0.5	not required	not required	0.02
Nitrite (as Nitrogen)	milligrams per litre	Annual / Quarterly	0.9	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	0.00001	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	230	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	1000	not required	not required	not required	not required	not required	not required	not required	not required	not required
Toluene	milligrams per litre	Annual	0.18	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	2000	1400	620	190	750	Dry	1100	760	250	990
Total Iron	milligrams per litre	Annual	0.2	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	0.25	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	0.32	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	0.02	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	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	0.075	not required	not required	not required	not required	not required	not required	not required	not required	not required
Zinc	milligrams per litre	Annual / Quarterly	0.008	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	30-350	677	798	61	1064	Dry	1504	1072	100	1470
PH	PH Units	Quarterly	6.5-8	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

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Value exceeds adopted trigger values

Unit of Reporting too high for adopted trigger value