

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 11TH FEBRUARY 2021

EPA LICENCE NUMBER 6061

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

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	DTC
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	Yearly	-	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Aluminium	milligrams per litre	Yearly / Quarterly	0.055	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	84.6	0.40	0.01	0.04	0.12	0.04	<0.01	0.09	0.05
Arsenic	milligrams per litre	Yearly	0.010 / 0.024	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Barium	milligrams per litre	Yearly	2	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Benzene	milligrams per litre	Yearly	0.001 / 0.950	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	<2	<2	<2	<2	not tested	Not required	Not required	<2
Cadmium	milligrams per litre	Yearly / Quarterly	0.0002	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Calcium	milligrams per litre	Yearly	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 tested	18	34	54	not tested	Not required	Not required	32
Chloride (Cl)	milligrams per litre	Yearly	350	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	Yearly	-	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Chromium (hexavalent)	milligrams per litre	Yearly	0.001	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Chromium (total)	milligrams per litre	Yearly / Quarterly	0.0033	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Cobalt	milligrams per litre	Yearly	0.0014	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Copper	milligrams per litre	Yearly / Quarterly	0.0014	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Ethylbenzene	milligrams per litre	Yearly	0.08	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Fluoride	milligrams per litre	Yearly	1	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Lead	milligrams per litre	Yearly	0.0034	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Magnesium	milligrams per litre	Yearly	-	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Manganese	milligrams per litre	Yearly	0.2 / 1.9	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Mercury	milligrams per litre	Yearly	0.00006	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Nitrate (as Nitrogen)	milligrams per litre	Yearly / Quarterly	2.40	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Nitrite (as Nitrogen)	milligrams per litre	Yearly / Quarterly	0.9	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Organochlorine Pesticides (OCP)	milligrams per litre	Yearly	Limit of reporting	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Yearly	Limit of reporting	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	Yearly	0.00001	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Perfluorooctane sulfonic acid (PFOS)	micrograms per litre ¹	Quarterly	0.13 ³	0.44	0.03	0.01	0.17	0.09	0.3	<0.01	<0.01	0.19
Perfluorooctanoic acid (PFOA)	micrograms per litre ¹	Quarterly	0.56 ³ / 220 ³	0.68	0.1	<0.01	0.17	0.16	0.41	<0.01	<0.01	0.22
Sum of PFHxS and PFOS	micrograms per litre ¹	Quarterly	0.07 ³	1.77	0.13	0.01	0.43	0.15	0.66	<0.01	<0.01	0.38
Potassium	milligrams per litre	Yearly	-	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	Yearly	Limit of reporting	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Sodium	milligrams per litre	Yearly	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	Yearly	1000	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Toluene	milligrams per litre	Yearly	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	1580	358	100	460	624	1060	335	102	514
Total Iron	milligrams per litre	Yearly	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 tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Total Nitrogen	milligrams per litre	Quarterly	0.25	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	57	11	6	14	19	23	45	8	14
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Yearly	Limit of reporting	Not required								
Total Phenolics	milligrams per litre	Yearly	0.32	Not required								
Total Phosphorus	milligrams per litre	Yearly / Quarterly	0.02	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	Not required	25	8	25	23	Not required	Not required	Not required	5
Volatile Organic Compounds (VOCs)	milligrams per litre	Yearly	Limit of reporting	Not required								
Xylenes	milligrams per litre	Yearly	0.075	Not required								
Zinc	milligrams per litre	Yearly / Quarterly	0.008	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
FIELD MEASUREMENTS												
Standing Water Level	metres below top of casing (TOC)	Quarterly	-	2.47	-	-	-	-	-	37.2	12.540	-
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	3617	829	341	1443	1195	2454	796	231	1434
PH	PH Units	Quarterly	6.5-8	7.07	7.31	6.98	7.33	6.96	7.76	6.01	5.91	8.01
Temp	Degree C	Quarterly	-	21.0	22.8	22.0	19.0	25.1	23.0	19.5	18.5	21.0

Table notes:

Black text	EPL requires quarterly or yearly monitoring of this mandatory parameter
Red text	EPL requirements not met
Blue text	Additional parameter/location analysed beyond EPL requirements (non-mandatory)
Yellow background	Reported concentration exceeds adopted trigger value - trigger 1 where applicable
Orange background	Reported concentration exceeds adopted trigger value - trigger 2 where applicable
Light blue background	Limit of reporting exceed adopted trigger value

1 Micrograms per litre (µg/L) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).

4 Dissolved oxygen readings recorded as percentage of saturation (%Sat)

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 12TH MAY 2021
EPA LICENCE NUMBER 6061
<http://www.environment.nsw.gov.au/prpoeopp/>
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	DTC
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	Yearly	-	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Aluminium	milligrams per litre	Yearly / Quarterly	0.055	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	93.8	3.53	<0.01	0.03	0.11	0.18	0.33	0.08	<0.01
Arsenic	milligrams per litre	Yearly	0.010 / 0.024	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Barium	milligrams per litre	Yearly	2	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Benzene	milligrams per litre	Yearly	0.001 / 0.950	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	<2	<2	<2	2	not tested	Not required	Not required	<2
Cadmium	milligrams per litre	Yearly / Quarterly	0.0002	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Calcium	milligrams per litre	Yearly	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 tested	70	76	153	not tested	Not required	Not required	25
Chloride (Cl)	milligrams per litre	Yearly	350	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	Yearly	-	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Chromium (hexavalent)	milligrams per litre	Yearly	0.001	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Chromium (total)	milligrams per litre	Yearly / Quarterly	0.0033	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Cobalt	milligrams per litre	Yearly	0.0014	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Copper	milligrams per litre	Yearly / Quarterly	0.0014	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Ethylbenzene	milligrams per litre	Yearly	0.08	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Fluoride	milligrams per litre	Yearly	1	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Lead	milligrams per litre	Yearly	0.0034	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Magnesium	milligrams per litre	Yearly	-	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Manganese	milligrams per litre	Yearly	0.2 / 1.9	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Mercury	milligrams per litre	Yearly	0.00006	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Nitrate (as Nitrogen)	milligrams per litre	Yearly / Quarterly	2.40	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Nitrite (as Nitrogen)	milligrams per litre	Yearly / Quarterly	0.9	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested
Organochlorine Pesticides (OCP)	milligrams per litre	Yearly	Limit of reporting	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Yearly	Limit of reporting	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	Yearly	0.00001	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Perfluorooctane sulfonic acid (PFOS)	micrograms per litre ¹	Quarterly	0.13 ³	0.85	0.1	<0.01	0.06	0.17	0.37	<0.01	0.01	0.02
Perfluorooctanoic acid (PFOA)	micrograms per litre ¹	Quarterly	0.56 ³ / 220 ³	1.96	0.16	<0.01	0.08	0.2	0.61	<0.01	<0.01	0.02
Sum of PFHxS and PFOS	micrograms per litre ¹	Quarterly	0.07 ³	4.52	0.26	<0.01	0.15	0.24	0.92	<0.01	0.01	0.04
Potassium	milligrams per litre	Yearly	-	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	Yearly	Limit of reporting	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Sodium	milligrams per litre	Yearly	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	Yearly	1000	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Toluene	milligrams per litre	Yearly	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	1930	531	101	216	412	1420	420	106	152
Total Iron	milligrams per litre	Yearly	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									
Total Nitrogen	milligrams per litre	Quarterly	0.25	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	Not required	not tested
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	1	20	7	7	12	8	17	6	8	
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Yearly	Limit of reporting	Not required									
Total Phenolics	milligrams per litre	Yearly	0.32	Not required									
Total Phosphorus	milligrams per litre	Yearly / Quarterly	0.02	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested	
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	Not required	3	<1	1	18	Not required	Not required	Not required	Not required	2
Volatile Organic Compounds (VOCs)	milligrams per litre	Yearly	Limit of reporting	Not required									
Xylenes	milligrams per litre	Yearly	0.075	Not required									
Zinc	milligrams per litre	Yearly / Quarterly	0.008	not tested	Not required	not tested	not tested	Not required	not tested	Not required	Not required	not tested	
FIELD MEASUREMENTS													
Standing Water Level	metres below top of casing (TOC)	Quarterly	-	1.19	-	-	-	-	-	-	37.8	12.330	-
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	3297	821	175	389	634.4	1952	619	221.1	269	
PH	PH Units	Quarterly	6.5-8	7.03	6.85	6.04	6.31	6.52	6.61	5.61	5.77	6.72	
Temp	Degree C	Quarterly	-	19.2	16.9	18.3	16.5	17.8	19.7	17.6	17.6	16.2	

Table notes:

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Red text	EPL requirements not met
Blue text	Additional parameter/location analysed beyond EPL requirements (non-mandatory)
Yellow background	Reported concentration exceeds adopted trigger value - trigger 1 where applicable
Orange background	Reported concentration exceeds adopted trigger value - trigger 2 where applicable
Light blue background	Limit of reporting exceed adopted trigger value

1 Micrograms per litre (µg/L) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).

4 Dissolved oxygen readings recorded as percentage of saturation (%Sat)

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS (DRY ROUND)

SAMPLING ON 19TH AUGUST 2021

EPA LICENCE NUMBER 6061

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

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	DTC
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	Yearly	-	1350	121	Not required	Not required	Dry	453	454	21	340
Aluminium	milligrams per litre	Yearly / Quarterly	0.055	0.02	0.05	0.16	0.09	Not required	<0.01	1.54	1.06	0.83
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	93.4	0.05	0.03	0.01	Dry	0.02	0.05	0.13	0.01
Arsenic	milligrams per litre	Yearly	0.010 / 0.024	<0.001	<0.001	<0.001	0.004	Not required	<0.001	0.208	0.005	0.001
Barium	milligrams per litre	Yearly	2	0.068	0.043	0.019	0.069	Not required	0.086	0.313	0.094	0.066
Benzene	milligrams per litre	Yearly	0.001 / 0.950	<0.001	<0.001	Not required	Not required	Not required	<0.001	<0.001	<0.001	Not required
Biological Oxygen Demand (BOD)	milligrams per litre	Quarterly	-	Not required	2	2	2	Dry	Not required	not tested	Not required	<2
Cadmium	milligrams per litre	Yearly / Quarterly	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	Not required	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	Yearly	1000	232	83.9	Not required	Not required	Not required	141	2.8	1.4	115
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly	-	268	49	21	55	Dry	55	not tested	Not required	58
Chloride (Cl)	milligrams per litre	Yearly	350	220	60	Not required	Not required	Not required	215	185	39	182
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Yearly	-	Less than LOR	Less than LOR	Less than LOR	Less than LOR	Not required	Less than LOR	Less than LOR	Less than LOR	Less than LOR
Chromium (hexavalent)	milligrams per litre	Yearly	0.001	<0.01	<0.01	<0.01	Not required	Not required	<0.01	<0.01	<0.01	<0.01
Chromium (total)	milligrams per litre	Yearly / Quarterly	0.0033	0.001	<0.001	<0.001	0.001	Not required	<0.001	0.006	0.003	0.002
Cobalt	milligrams per litre	Yearly	0.0014	<0.001	<0.001	<0.001	<0.001	Not required	<0.001	0.044	0.01	<0.001
Copper	milligrams per litre	Yearly / Quarterly	0.0014	<0.001	<0.001	<0.001	<0.001	Not required	0.004	0.004	0.002	0.004
Ethylbenzene	milligrams per litre	Yearly	0.08	<0.002	<0.002	Not required	Not required	Not required	<0.002	<0.002	<0.002	Not required
Fluoride	milligrams per litre	Yearly	1	0.2	0.1	Not required	Not required	Not required	0.2	0.2	<0.1	Not required
Lead	milligrams per litre	Yearly	0.0034	<0.001	<0.001	<0.001	<0.001	Not required	<0.001	0.119	0.019	0.002
Magnesium	milligrams per litre	Yearly	-	64.7	29.5	Not required	Not required	Not required	45.8	17.1	4.7	38.5
Manganese	milligrams per litre	Yearly	0.2 / 1.9	0.002	0.010	0.089	0.008	Not required	0.003	1.28	0.666	0.044
Mercury	milligrams per litre	Yearly	0.00006	<0.0001	<0.0001	<0.0001	<0.0001	Not required	<0.0001	<0.0001	<0.0001	<0.0001
Nitrate (as Nitrogen) (Note 5)	milligrams per litre	Yearly / Quarterly	2.40	0.6	Not required	0.12	15.9	Not required	11.2	<0.05	0.01	8.51
Nitrite (as Nitrogen) (Note 5)	milligrams per litre	Yearly / Quarterly	0.9	<0.01	Not required	Not tested (note 5)	Not tested (note 5)	Not required	<0.01	<0.01	<0.01	Not tested (note 5)
Organochlorine Pesticides (OCP)	milligrams per litre	Yearly	Limit of reporting	Less than LOR	Less than LOR	Less than LOR	Less than LOR	Dry (note 4)	Less than LOR	Less than LOR	Less than LOR	Not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Yearly	Limit of reporting	Less than LOR	Less than LOR	Not required	Not required	Dry (note 4)	Less than LOR	Less than LOR	Less than LOR	Not required
Polycyclic Aromatic Hydrocarbons (PAH)	milligrams per litre	Yearly	0.00001	<0.002 (<0.00005)	<0.0005	<0.0005	<0.0005	Dry (note 4)	<0.002 (<0.00005)	<0.002	<0.002	Not required
Perfluorooctane sulfonic acid (PFOS)	micrograms per litre ¹	Quarterly	0.13 ³	0.45	0.07	<0.01	0.21	Dry	0.55	<0.01	<0.01	0.27
Perfluorooctanoic acid (PFOA)	micrograms per litre ¹	Quarterly	0.56 ³ / 220 ³	0.68	0.18	<0.01	0.3	Dry	0.52	<0.01	<0.01	0.4
Sum of PFHxS and PFOS	micrograms per litre ¹	Quarterly	0.07 ³	2.17	0.29	<0.01	0.81	Dry	1.31	<0.01	<0.01	0.82
Potassium	milligrams per litre	Yearly	-	80.6	12.3	Not required	Not required	Not required	52.4	2.6	2.4	46.1
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Yearly	Limit of reporting	Less than LOR	Not required	Not required	Not required	Not required	Less than LOR	Less than LOR	Less than LOR	Not required
Sodium	milligrams per litre	Yearly	230	170	47.4	Not required	Not required	Not required	136	76.5	20.4	116
Sulphate (as SO ₄)	milligrams per litre	Yearly	1000	<10	239	Not required	Not required	Not required	138	6	5	130
Toluene	milligrams per litre	Yearly	0.18	<0.002	<0.002	Not required	Not required	Not required	<0.002	<0.002	<0.002	Not required
Total Dissolved Solids (TDS)	milligrams per litre	Quarterly	2000	1540	536	109	706	Dry	1150	345	126	828
Total Iron	milligrams per litre	Yearly	0.2	Not required	0.07	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	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Total Nitrogen	milligrams per litre	Quarterly	0.25	104	Not required	0.7	17.9	Not required	12.9	Not required	Not required	10.7
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	69	20	4	17	Dry	19	17	6	17
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Yearly	Limit of reporting	0.63	<0.050	Not required	Not required	Not required	<0.050	<0.050	<0.050	Not required
Total Phenolics	milligrams per litre	Yearly	0.32	Less than LOR	Less than LOR	Not required	Not required	Not required	Less than LOR	Less than LOR	Less than LOR	Not required
Total Phosphorus	milligrams per litre	Yearly / Quarterly	0.02	0.61	<0.01	0.03	0.04	Not required	0.02	Not required	Not required	0.07
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	Not required	1	2	8	Dry	Not required	Not required	Not required	25
Volatile Organic Compounds (VOCs)	milligrams per litre	Yearly	Limit of reporting	Less than LOR	Not required	Not required	Not required	Not required	Less than LOR	Less than LOR	Less than LOR	Not required
Xylenes	milligrams per litre	Yearly	0.075	<0.002	<0.002	Not required	Not required	Not required	<0.002	<0.002	<0.002	Not required
Zinc	milligrams per litre	Yearly / Quarterly	0.008	<0.005	<0.005	<0.005	<0.005	Not required	0.044	0.26	0.054	0.043
FIELD MEASUREMENTS												
Standing Water Level	metres below top of casing (TOC)	Quarterly	-	1.65	-	-	-	-	-	38.1	12.78	-
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	2820	800	214	1150	Dry	1590	640	215	1350
PH	PH Units	Quarterly	6.5-8	7.15	8.55	7.81	7.83	Dry	7.51	5.99	6.19	7.69
Temp	Degree C	Quarterly	-	16.4	16.2	10.8	8.6	Dry	13.7	16.2	16.5	14.4

1 Measured as Nitrate + Nitrite as N (Nox) for EPA3, EPA4, DTC, EPA4A and EPA4B only due to limited available sample containers.

Table notes:

Black text	EPL requires quarterly or yearly monitoring of this mandatory parameter
Red text	EPL requirements not met
Blue text	Additional parameter/location analysed beyond EPL requirements (non-mandatory)
Yellow background	Reported concentration exceeds adopted trigger value - trigger 1 where applicable
Orange background	Reported concentration exceeds adopted trigger value - trigger 2 where applicable
Light blue background	Limit of reporting exceed adopted trigger value

1 Micrograms per litre (µg/L) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).

4 EPA5 (Sedimentation Pond 5) was observed dry during the August quarterly/annual monitoring and samples could not be collected or analysed. As a result, the EPL requirement to analyse Chlorinated Volatile Compounds, Polycyclic aromatic hydrocarbons (PAHs) and Organochlorine pesticides (OCP) was not carried out during 2021.

5 Measured as Nitrate + Nitrite as N (Nox) for EPA3, EPA4, DTC, EPA4A and EPA4B only due to limited available sample containers.

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS

SAMPLING ON 18TH NOVEMBER 2021

EPA LICENCE NUMBER 6061

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

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	DTC
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	Yearly	-	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Aluminium	milligrams per litre	Yearly / Quarterly	0.055	<0.01	Not required	0.22	1.3	Not required	<0.01	Not required	Not required	0.23
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	33.6	0.07	0.05	<0.01	0.01	<0.01	0.01	0.06	<0.01
Arsenic	milligrams per litre	Yearly	0.010 / 0.024	0.002	Not required	<0.001	<0.001	Not required	0.001	Not required	Not required	<0.001
Barium	milligrams per litre	Yearly	2	0.239	Not required	0.017	0.047	Not required	0.144	Not required	Not required	0.033
Benzene	milligrams per litre	Yearly	0.001 / 0.950	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	-	11	2	2	<2	<2	<2	Not required	Not required	<2
Cadmium	milligrams per litre	Yearly / Quarterly	0.0002	<0.0001	Not required	<0.0001	<0.0001	Not required	0.0007	Not required	Not required	<0.0001
Calcium	milligrams per litre	Yearly	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	-	117	51	32	40	47	56	Not required	Not required	30
Chloride (Cl)	milligrams per litre	Yearly	350	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	Yearly	-	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Chromium (hexavalent)	milligrams per litre	Yearly	0.001	<0.001	Not required	<0.001	<0.001	Not required	<0.001	<0.001	0.006	<0.001
Chromium (total)	milligrams per litre	Yearly / Quarterly	0.0033	0.003	Not required	<0.001	0.002	Not required	0.001	Not required	Not required	<0.001
Cobalt	milligrams per litre	Yearly	0.0014	<0.001	Not required	<0.001	0.002	Not required	<0.001	Not required	Not required	<0.001
Copper	milligrams per litre	Yearly / Quarterly	0.0014	<0.001	Not required	<0.001	0.002	Not required	0.008	Not required	Not required	0.007
Ethylbenzene	milligrams per litre	Yearly	0.08	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Fluoride	milligrams per litre	Yearly	1	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Lead	milligrams per litre	Yearly	0.0034	<0.001	Not required	<0.001	0.002	Not required	<0.001	Not required	Not required	<0.001
Magnesium	milligrams per litre	Yearly	-	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Manganese	milligrams per litre	Yearly	0.2 / 1.9	0.216	Not required	0.013	0.045	Not required	0.006	Not required	Not required	0.015
Mercury	milligrams per litre	Yearly	0.00006	<0.0001	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Nitrate (as Nitrogen)	milligrams per litre	Yearly / Quarterly	2.40	0.01	Not required	0.09	6.08	Not required	8.46	Not required	Not required	2.14
Nitrite (as Nitrogen)	milligrams per litre	Yearly / Quarterly	0.9	0.01	Not required	<0.01	0.01	Not required	0.01	Not required	Not required	0.01
Organochlorine Pesticides (OCP)	milligrams per litre	Yearly	Limit of reporting	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Yearly	Limit of reporting	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	Yearly	0.00001	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Perfluorooctane sulfonic acid (PFOS)	micrograms per litre ¹	Quarterly	0.13 ²	0.43	0.03	0.02	0.1	0.08	0.37	<0.01	<0.01	0.08
Perfluorooctanoic acid (PFOA)	micrograms per litre ¹	Quarterly	0.56 ² / 220 ³	0.4	0.07	<0.01	0.11	0.09	0.38	<0.01	<0.01	0.05
Sum of PFHxS and PFOS	micrograms per litre ¹	Quarterly	0.07 ²	1.2	0.11	0.02	0.26	0.12	0.82	<0.01	<0.01	0.15
Potassium	milligrams per litre	Yearly	-	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	Yearly	Limit of reporting	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Sodium	milligrams per litre	Yearly	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	Yearly	1000	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Toluene	milligrams per litre	Yearly	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	1020	304	105	304	392	1420	440	141	266
Total Iron	milligrams per litre	Yearly	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	-	38.8	Not required	0.7	1.1	Not required	1.3	Not required	Not required	0.6
Total Nitrogen	milligrams per litre	Quarterly	0.25	38.8	Not required	0.8	7.2	Not required	9.8	Not required	Not required	2.8
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	37	17	7	10	15	17	11	8	8
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Yearly	Limit of reporting	Not required								
Total Phenolics	milligrams per litre	Yearly	0.32	Not required								
Total Phosphorus	milligrams per litre	Yearly / Quarterly	0.02	1.41	Not required	0.04	0.03	Not required	0.01	Not required	Not required	<0.01
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	Not required	<5	<5	6	11	Not required	Not required	Not required	<5
Volatile Organic Compounds (VOCs)	milligrams per litre	Yearly	Limit of reporting	Not required								
Xylenes	milligrams per litre	Yearly	0.075	Not required								
Zinc	milligrams per litre	Yearly / Quarterly	0.008	0.013	Not required	<0.005	0.024	Not required	0.329	Not required	Not required	0.005
FIELD MEASUREMENTS												
Standing Water Level	metres below top of casing (TOC)	Quarterly	-	1.39	-	-	-	-	-	38.72	12.4	-
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	1808	463	179	438	585	841	318	176	444
PH	PH Units	Quarterly	6.5-8	7.03	6.69	8.00	8.35	7.74	7.01	5.96	5.73	8.42
Temp	Degree C	Quarterly	-	17.6	22.2	27.1	18	17.4	19.6	20.7	18.3	16.8

Table notes:

Black text	EPL requires quarterly or yearly monitoring of this mandatory parameter
Red text	EPL requirements not met
Blue text	Additional parameter/location analysed beyond EPL requirements (non-mandatory)
Yellow background	Reported concentration exceeds adopted trigger value - trigger 1 where applicable
Orange background	Reported concentration exceeds adopted trigger value - trigger 2 where applicable
Light blue background	Limit of reporting exceed adopted trigger value

1 Micrograms per litre (µg/L) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).

4 Dissolved oxygen readings recorded as percentage of saturation (%Sat)

BARGO WASTE MANAGEMENT CENTRE ANTHONY ROAD BARGO - SAMPLING RESULTS (ADDITIONAL - 'WET WEATHER' ROUND)

SAMPLING ON 31TH AUGUST 2021

EPA LICENCE NUMBER 6061

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

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	DTC
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	Yearly	-	Not Required	98	29	116	72	453	Not Required	Not Required	386
Aluminium	milligrams per litre	Yearly / Quarterly	0.055	Not Required	0.42	0.15	0.15	0.60	0.03	Not Required	Not Required	0.34
Ammonia (as nitrogen)	milligrams per litre	Quarterly	0.9	Not Required	0.07	<0.01	<0.01	<0.01	0.02	Not Required	Not Required	<0.01
Arsenic	milligrams per litre	Yearly	0.010 / 0.024	Not Required	<0.001	<0.001	<0.001	0.001	<0.001	Not Required	Not Required	<0.001
Barium	milligrams per litre	Yearly	2	Not Required	0.036	0.024	0.028	0.043	0.103	Not Required	Not Required	0.075
Benzene	milligrams per litre	Yearly	0.001 / 0.950	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	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Cadmium	milligrams per litre	Yearly / Quarterly	0.0002	Not Required	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	Not Required	Not Required	<0.0001
Calcium	milligrams per litre	Yearly	1000	Not Required	61.8	4.5	31.9	67.8	139	Not Required	Not Required	123
Chemical Oxygen Demand (COD)	milligrams per litre	Quarterly	-	Not Required	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Chloride (Cl)	milligrams per litre	Yearly	350	Not Required	52	30	68	24	194	Not Required	Not Required	187
Chlorinated Volatile Compounds (CVCs)	milligrams per litre	Yearly	-	Not Required	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Chromium (hexavalent)	milligrams per litre	Yearly	0.001	Not Required	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Chromium (total)	milligrams per litre	Yearly / Quarterly	0.0033	Not Required	<0.001	<0.001	<0.001	0.001	<0.001	Not Required	Not Required	0.001
Cobalt	milligrams per litre	Yearly	0.0014	Not Required	<0.001	<0.001	<0.001	<0.001	<0.001	Not Required	Not Required	<0.001
Copper	milligrams per litre	Yearly / Quarterly	0.0014	Not Required	0.002	<0.001	0.051	0.005	0.006	Not Required	Not Required	0.003
Ethylbenzene	milligrams per litre	Yearly	0.08	Not Required	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Fluoride	milligrams per litre	Yearly	1	Not Required	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Lead	milligrams per litre	Yearly	0.0034	Not Required	<0.001	<0.001	<0.001	0.002	<0.001	Not Required	Not Required	<0.001
Magnesium	milligrams per litre	Yearly	-	Not Required	22.9	4.1	13.4	9.3	42.8	Not Required	Not Required	42.1
Manganese	milligrams per litre	Yearly	0.2 / 1.9	Not Required	0.025	0.006	0.002	0.02	0.116	Not Required	Not Required	0.009
Mercury	milligrams per litre	Yearly	0.00006	Not Required	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	Not Required	Not Required	<0.0001
Nitrate (as Nitrogen)	milligrams per litre	Yearly / Quarterly	2.40	Not Required	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Nitrite (as Nitrogen)	milligrams per litre	Yearly / Quarterly	0.9	Not Required	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Organochlorine Pesticides (OCP)	milligrams per litre	Yearly	Limit of reporting	Not Required	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Organophosphorus Pesticides (OPP)	milligrams per litre	Yearly	Limit of reporting	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	Yearly	0.00001	Not Required	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Perfluorooctane sulfonic acid (PFOS)	micrograms per litre ¹	Quarterly	0.13 ²	Not Required	0.03	<0.01	0.09	0.07	0.33	Not Required	Not Required	0.25
Perfluorooctanoic acid (PFOA)	micrograms per litre ²	Quarterly	0.56 ² / 220 ³	Not Required	0.11	<0.01	0.12	0.09	0.47	Not Required	Not Required	0.4
Sum of PFHxS and PFOS	micrograms per litre ¹	Quarterly	0.07 ²	Not Required	0.17	<0.01	0.09	0.11	0.93	Not Required	Not Required	0.79
Potassium	milligrams per litre	Yearly	-	Not Required	10.7	4.1	16.5	11.2	48.9	Not Required	Not Required	49.5
Semi-volatile Organic Compounds (SVOCs)	milligrams per litre	Yearly	Limit of reporting	Not Required	Not required	Not required	Not required	Not required	Not required	Not Required	Not Required	Not required
Sodium	milligrams per litre	Yearly	230	Not Required	36.7	18	41.5	16.1	119	Not Required	Not Required	114
Sulphate (as SO ₄)	milligrams per litre	Yearly	1000	Not Required	190	9	45	147	157	Not Required	Not Required	168
Toluene	milligrams per litre	Yearly	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	Not Required	472	95	310	362	1020	Not Required	Not Required	1030
Total Iron	milligrams per litre	Yearly	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								
Total Nitrogen	milligrams per litre	Quarterly	0.25	Not Required								
Total Organic Carbon (TOC)	milligrams per litre	Quarterly	-	Not Required	18	4	9	10	20	Not Required	Not Required	20
Total Petroleum Hydrocarbons (TPH)	milligrams per litre	Yearly	Limit of reporting	Not Required								
Total Phenolics	milligrams per litre	Yearly	0.32	Not Required								
Total Phosphorus	milligrams per litre	Yearly / Quarterly	0.02	Not Required								
Total Suspended Solids (TSS)	milligrams per litre	Quarterly	50	Not Required	9	<5	<5	21	6	Not Required	Not Required	76
Volatile Organic Compounds (VOCs)	milligrams per litre	Yearly	Limit of reporting	Not Required								
Xylenes	milligrams per litre	Yearly	0.075	Not Required								
Zinc	milligrams per litre	Yearly / Quarterly	0.008	Not Required	<0.005	<0.005	<0.005	0.038	0.207	Not Required	Not Required	0.025
FIELD MEASUREMENTS												
Standing Water Level	metres below top of casing (TOC)	Quarterly	-	Not Required	-	-	-	-	-	Not Required	Not Required	-
Electrical Conductivity	microsiemens per centimetre	Quarterly	30-350	Not Required	687	177	532	531	1711	Not Required	Not Required	1572
PH	PH Units	Quarterly	6.5-8	Not Required	9.42	6.85	7.78	7.27	7.71	Not Required	Not Required	8.13
Temp	Degree C	Quarterly	-	Not Required	11.4	8.7	9.3	8.3	12.3	Not Required	Not Required	10.0

Table notes:

Black text	EPL requires quarterly or yearly monitoring of this mandatory parameter
Red text	EPL requirements not met
Blue text	Additional parameter/location analysed beyond EPL requirements (non-mandatory)
Yellow	Reported concentration exceeds adopted trigger value - trigger 1 where applicable
Orange	Reported concentration exceeds adopted trigger value - trigger 2 where applicable
Light Yellow	Limit of reporting exceed adopted trigger value

1 Micrograms per litre (µg/L) is 0.001 milligrams per litre (mg/L)

2 NEPM 2018, Table 1: Health-based guidance values for use in site investigations in Australia

3 NEPM 2018, Table 5: Aquatic ecosystems: freshwater and marine water guideline values (exposure scenario: freshwater 95% species protection – slightly to moderately disturbed systems).

4 Dissolved oxygen readings recorded as percentage of saturation (%Sat)