

West Nowra Recycling & Waste Facility - 2021 - 2022 EPL Water Monitoring Data

Shoalhaven City Council

Licensee: Shoalhaven City Council, PO Box 42 Nowra 2541

Environmental Protection Licence #5877
120 Flatrock Road, Mundamba

MW01

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Min Value	Mean Value	Median Value	Max Value
Alkalinity (CaCO3)	mg/L	Quarterly	4	1	1.66666667	2	3
Ammonia as N	mg/L	Quarterly	4	0	0.0125	0.015	0.02
Bicarbonate	mg/L	Quarterly	4	0	1.25	1	3
Calcium	mg/L	Quarterly	4	0	0.25	0	0
Carbonate	mg/L	Quarterly	3*	0	0	0	0
Chloride	mg/L	Quarterly	4	200	327.5	341	428
Fluoride	mg/L	Quarterly	3*	0	0	0	0
Magnesium	mg/L	Quarterly	4	88	151.25	157.5	202
pH	pH units	Quarterly	4	8.03	8.1875	8.18	8.27
Potassium	mg/L	Quarterly	4	0	0.25	0	1
Sodium	mg/L	Quarterly	4	88	151.25	157.5	202
Standing water level	m AHD	Quarterly	4	1.023	1.875	1.805	3.01
Sulphate	mg/L	Quarterly	4	20	23.25	24	25
Total Dissolved Solids	mg/L	Quarterly	3*	376	523.666667	511	684
Total Organic Carbon	mg/L	Quarterly	4	4	176	5	690

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	0.82	7.01
Arsenic	mg/L	Annual	1	0.006	0.004
Barium	mg/L	Annual	1	0.046	0.021
Benzene	mg/L	Annual	1	0.003	0.001
Cadmium	mg/L	Annual	1	0	<0.001
Hexavalent Chromium	mg/L	Annual	1	0	<0.001
Total Chromium	mg/L	Annual	1	0.008	0.004
Cobalt	mg/L	Annual	1	0.003	0.001
Copper	mg/L	Annual	1	0.006	0.064
Ethyl- Benzene	mg/L	Annual	1	0	<2
Lead	mg/L	Annual	1	0.002	0.063
Manganese	mg/L	Annual	1	3.362	0.01
Mercury	mg/L	Annual	1	0	<0.0001
Nickel	mg/L	Annual	1	0.066	0.005
Nitrate	mg/L	Annual	1	0.001	<0.01
Nitrite	mg/L	Annual	1	0.02	<0.01
Nitrogen (total)	mg/L	Annual	1	0.8	0.01
Phosphate	mg/L	Annual	0	not tested	0
Phosphorous	mg/L	Annual	1	0.02	<0.01
Redox Potential	units	Annual	1	124	-10.2
Toluene	mg/L	Annual	1	0	<2
Total Phenolics	mg/L	Annual	1	<0.05	<0.05
TRHS	mg/L	Annual	1	<450	<100
Xylene	mg/L	Annual	1	0	<2
Zinc	mg/L	Annual	1	0.632	0.122

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Min Value	Mean Value	Median Value	Max Value
Alkalinity (CaCO3)	mg/L	Quarterly	4	0	0.125	0	0
Ammonia as N	mg/L	Quarterly	4	0.02	0.035	0.035	0.05
Bicarbonate	mg/L	Quarterly	4	0	0.25	0	1
Calcium	mg/L	Quarterly	4	0	1	1	2
Carbonate	mg/L	Quarterly	3*	0	0.01	0	0
Chloride	mg/L	Quarterly	4	35	162.5	14.5	29
Fluoride	mg/L	Quarterly	3*	0	0	0	0
Magnesium	mg/L	Quarterly	4	3	3.5	3.5	4
pH	pH units	Quarterly	4	8.0	8.19	8.8	9
Potassium	mg/L	Quarterly	4	0	0.25	0	6
Sodium	mg/L	Quarterly	4	186	360.25	274	379
Standing water level	m AHD	Quarterly	4	1.72	2.32	2.135	7.07
Sulphate	mg/L	Quarterly	4	25	38.75	38.5	90
Total Dissolved Solids	mg/L	Quarterly	4	690	1427.5	1095	2830
Total Organic Carbon	mg/L	Quarterly	4	2	5.5	4.5	11

Analyte	Units	Monitoring Frequency Req'd	No. Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	0.017	0.008
Arsenic	mg/L	Annual	1	0.146	1.72
Benzene	mg/L	Annual	1	<1	<0.001
Bicarbonate	mg/L	Annual	1	<0.001	<0.001
Total Chromium	mg/L	Annual	1	<0.001	<0.01
Cobalt	mg/L	Annual	1	0.004	0.176
Copper	mg/L	Annual	1	0.007	0.008
Ethyl- Benzene	mg/L	Annual	1	<0.001	0.018
Lead	mg/L	Annual	1	<2	<0.01
Manganese	mg/L	Annual	1	0.012	0.139
Nickel	mg/L	Annual	1	0.003	0.014
Nitrate	mg/L	Annual	1	0.005	0.004
Nitrite	mg/L	Annual	1	0.275	0.02
Nitrogen (total)	mg/L	Annual	1	4.6	0.02
Phosphate	mg/L	Annual	0	not tested	not tested
Phosphorous	mg/L	Annual	1	0.06	<2
Redox Potential	units	Annual	1	274	-40.5
Toluene	mg/L	Annual	1	<2	<2
Total Phenolics	mg/L	Annual	1	<0.05	<0.05
TRHS	mg/L	Annual	1	<200	<100
Xylene	mg/L	Annual	1	<0.05	<2
Zinc	mg/L	Annual	1	0.168	0.121

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Min Value	Mean Value	Median Value	Max Value
Alkalinity (CaCO3)	mg/L	Quarterly	4	0	0	0	0
Ammonia as N	mg/L	Quarterly	4	0.173	0.275	0.17	0
Bicarbonate	mg/L	Quarterly	4	0	0	0	0
Calcium	mg/L	Quarterly	4	0	0.25	0	0
Carbonate	mg/L	Quarterly	4	0	0	0	0
Chloride	mg/L	Quarterly	4	72	30.1	35.5	37
Fluoride	mg/L	Quarterly	3*	0	0	0	0
Magnesium	mg/L	Quarterly	4	3	3.5	3.5	4
pH	pH units	Quarterly	4	8.0	8.19	8.8	9
Potassium	mg/L	Quarterly	4	0	0.25	0	0
Sodium	mg/L	Quarterly	4	15	3.95	21	23
Standing water level	m AHD	Quarterly	4	0.22	0.3	0.285	0.41
Sulphate	mg/L	Quarterly	4	123	137.5	137.5	151
Total Dissolved Solids	mg/L	Quarterly	4	123	137.5	137.5	151
Total Organic Carbon	mg/L	Quarterly	4	0	2.75	3.5	4

Analyte	Units	Monitoring Frequency Req'd	No. Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	0.76	3.01
Arsenic	mg/L	Annual	1	0.004	0.001
Barium	mg/L	Annual	1	0.004	0.008
Benzene	mg/L	Annual	1	<1	<1
Bicarbonate	mg/L	Annual	1	<0.001	<0.001
Hexavalent Chromium	mg/L	Annual	1	<0.001	<0.01
Total Chromium	mg/L	Annual	1	<0.001	0.003
Cobalt	mg/L	Annual	1	0.001	0.002
Copper	mg/L	Annual	1	0.003	0.012
Ethyl- Benzene	mg/L	Annual	1	<2	<0.01
Lead	mg/L	Annual	1	<0.001	0.008
Manganese	mg/L	Annual	1	0.001	0.003
Nickel	mg/L	Annual	1	<0.001	0.004
Nitrate	mg/L	Annual	1	<0.01	<0.01
Nitrite	mg/L	Annual	1	0.7	0.8
Nitrogen (total)	mg/L	Annual	1	0.3	1.1
Phosphate	mg/L	Annual	0	not tested	not tested
Phosphorous	mg/L	Annual	1	0.001	0.09
Redox Potential	units	Annual	1	24	-126
Toluene	mg/L	Annual	1	<2	<2
Total Phenolics	mg/L	Annual	1	<0.05	<50
TRHS	mg/L	Annual	0	not tested	not tested
Xylene	mg/L	Annual	1	<0.05	<50
Zinc	mg/L	Annual	1	0.674	0.185

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Min Value	Mean Value	Median Value	Max Value
Alkalinity (CaCO3)	mg/L	Quarterly	4	7	16.25	14.5	29
Ammonia as N	mg/L	Quarterly	4	0	0.015	0.01	0.04
Bicarbonate	mg/L	Quarterly	4	12	21.5	19.5	35
Calcium	mg/L	Quarterly	4	0	0.25	0	0
Carbonate	mg/L	Quarterly	4	0	0	0	0
Chloride	mg/L	Quarterly	4	72	30.1	35.5	37
Fluoride	mg/L	Quarterly	3*	0	0	0	0
Magnesium	mg/L	Quarterly	4	8	19	17	34
pH	pH units	Quarterly	4	4.5	5.45	5.45	6.4
Potassium	mg/L	Quarterly	4	9	0.1	0.1	0
Sodium	mg/L	Quarterly	4	48	156.25	142.5	292
Standing water level	m AHD	Quarterly	4	1.99	2.4675	2.615	2.65
Sulphate	mg/L	Quarterly	4	39	43.25	42	50
Total Dissolved Solids	mg/L	Quarterly	4	274	687.5	606	1290
Total Organic Carbon	mg/L	Quarterly	4	4	16.75	18	27

Analyte	Units	Monitoring Frequency Req'd	No. Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	0.69	1.32
Arsenic	mg/L	Annual	1	0.003	<0.001
Barium	mg/L	Annual	1	0.051	0.026
Benzene	mg/L	Annual	1	<1	<1
Bicarbonate	mg/L	Annual	1	<0.001	<0.001
Hexavalent Chromium	mg/L	Annual	1	<0.001	<0.01
Total Chromium	mg/L	Annual	1	0.001	0.002
Cobalt	mg/L	Annual	1	0.001	0.006
Copper	mg/L	Annual	1	0.001	0.026
Ethyl- Benzene	mg/L	Annual	1	<2	<0.01
Lead	mg/L	Annual	1	0.003	0.004
Manganese	mg/L	Annual	1	0.003	0.017
Nickel	mg/L	Annual	1	<0.001	<0.001
Nitrate	mg/L	Annual	1	0.43	1.09
Nitrite	mg/L	Annual	1	0.275	0.01
Nitrogen (total)	mg/L	Annual	1	0.3	3.3
Phosphate	mg/L	Annual	0	not tested	not tested
Phosphorous	mg/L	Annual	1	0.05	0.3
Redox Potential	units	Annual	1	188	-80.6
Toluene	mg/L	Annual	1	<2	<2
Total Phenolics	mg/L	Annual	1	<0.05	<50
TRHS	mg/L	Annual	1	<100	<50
Xylene	mg/L	Annual	1	<0.05	<2
Zinc	mg/L	Annual	1	0.059	0.161

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Min Value	Mean Value	Median Value	Max Value
Alkalinity (CaCO3)	mg/L	Quarterly	4	41	49.5	48.5	60
Ammonia as N	mg/L	Quarterly	4	0.02	0.1125	0.065	0.3
Bicarbonate	mg/L	Quarterly	4	0	0.125	0	0.1
Calcium	mg/L	Quarterly	4	0	1.75	0	0
Carbonate	mg/L	Quarterly	4	0	0	0	0
Chloride	mg/L	Quarterly	4	28	10.25	29.5	174
Fluoride	mg/L	Quarterly	3*	0	0	0	0
Magnesium	mg/L	Quarterly	4	0	6.75	0	7
pH	pH units	Quarterly	4	5.1	6.075	5.95	7.3
Potassium	mg/L	Quarterly	4	0	0.25	0	114
Sodium	mg/L	Quarterly	4	4	4.8675	4.95	6.98
Standing water level	m AHD	Quarterly	4	3.3	4.8675	24.55	29
Sulphate	mg/L	Quarterly	4	18	23	24.5	29
Total Dissolved Solids	mg/L	Quarterly	4	212	362.5	318	459
Total Organic Carbon	mg/L	Quarterly	4	18	11.1	11.5	13

Analyte	Units	Monitoring Frequency Req'd	No. Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	2.03	11.2
Arsenic	mg/L	Annual	1	0.002	0.002
Barium	mg/L	Annual	1	0.183	0.033
Benzene	mg/L	Annual	1	<1	<1
Bicarbonate	mg/L	Annual	1	<0.001	<0.001
Hexavalent Chromium	mg/L	Annual	1	<0.001	<0.01
Total Chromium	mg/L	Annual	1	0.014	0.003
Cobalt	mg/L	Annual	1	0.001	0.016
Copper	mg/L	Annual	1	0.001	0.006
Ethyl- Benzene	mg/L	Annual	1	<2	<0.01
Lead	mg/L	Annual	1	0.003	0.004
Manganese	mg/L	Annual	1	0.003	0.017
Nickel	mg/L	Annual	1	<0.001	<0.001
Nitrate	mg/L	Annual	1	0.43	1.09
Nitrite	mg/L	Annual	1	0.275	0.01
Nitrogen (total)	mg/L	Annual	1	0.3	3.3
Phosphate	mg/L	Annual	0	not tested	not tested
Phosphorous	mg/L	Annual	1	0.05	0.3
Redox Potential	units	Annual	1	188	-80.6
Toluene	mg/L	Annual	1	<2	<2
Total Phenolics	mg/L	Annual	1	<0.05	<50
TRHS	mg/L	Annual	1	<100	<50
Xylene	mg/L	Annual	1	<0.05	<2
Zinc	mg/L	Annual	1	0.264	0.156

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Min Value	Mean Value	Median Value	Max Value
Alkalinity (CaCO3)	mg/L	Quarterly	4	0	6.75	7	13
Ammonia as N	mg/L	Quarterly	4	0	0.3825	0.49	0.55
Bicarbonate	mg/L	Quarterly	4	0	6.75	7	13
Calcium	mg/L	Quarterly	4	5	0.125	5	6
Carbonate	mg/L	Quarterly	4	0	0	0	0
Chloride	mg/L	Quarterly	4	994	1033.5	1025	1090
Fluoride	mg/L	Quarterly	3*	0	0.01	0	0
Magnesium	mg/L	Quarterly	4	8	19	17	20
pH	pH units	Quarterly	4	2.6	4.425	4.7	5.7
Potassium	mg/L	Quarterly	4	0	0.5	0.5	0