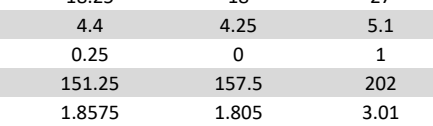


West Norwa Recycling & Waste Facility - 2021 - 2022 EPL Water Monitoring Data

Licensee: Shoalhaven City Council, PO Box 42 Norwa 25



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	3*	0	1.66666667	2	3
Ammonia as N	mg/L	Quarterly	4	0	0.0215	0.015	0.03
Bicarbonate	Quarterly	4	0	0.25	0	1	3
Calcium	mg/L	Quarterly	4	0	1.25	0	1
Chloride	mg/L	Quarterly	3*	0	0	0	0
Fluoride	mg/L	Quarterly	3*	0	0	0	0
Magnesium	mg/L	Quarterly	4	10	18.25	18	27
pH	pH units	Quarterly	4	4	4.4	4.25	5
Potassium	mg/L	Quarterly	4	0	0.025	0	0
Sodium	mg/L	Quarterly	4	88	151.25	147.5	202
Standing water level	m AHD	Quarterly	4	0.81	1.8575	1.805	3.01
Sulphate	mg/L	Quarterly	4	20	23.25	24	25
Total Dissolved Solids	mg/L	Quarterly	3*	176	521.666667	515	684
Total Organic Carbon	mg/L	Quarterly	4	4	176	5	690

MW01

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	0.062	7.01
Arsenic	mg/L	Annual	1	0.006	0.004
Barium	mg/L	Annual	1	0.086	15.021
Benzene	mg/L	Annual	1	0	<0.0001
Cadmium	mg/L	Annual	1	0	<0.0001
Hexavalent Chromium	mg/L	Annual	1	0	<0.001
Cobalt	mg/L	Annual	1	0.008	0.004
Copper	mg/L	Annual	1	0.006	0.0064
Ethyl- Benzene	mg/L	Annual	1	0	<2
Lead	mg/L	Annual	1	0.006	1.48333333
Manganese	mg/L	Annual	1	0.367	0.005
Mercury	mg/L	Annual	1	0	<0.0001
Nickel	mg/L	Annual	1	0.066	0.005
Nitrate	mg/L	Annual	1	0	<0.001
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	
Phosphorus	mg/L	Annual	1	0.009	0.024
Redox Potential	units	Annual	1	124	-102
Toluene	mg/L	Annual	1	0	<2
Total Phenolics	mg/L	Annual	1	0	<0.05
TRHS	mg/L	Annual	1	0.000	<0.043
Xylene	mg/L	Annual	1	0.000	<0.043
Zinc	mg/L	Annual	1	0.632	0.122

MW02

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Feb-21	Feb-22
Alkalinity (CaCO3)	mg/L	Quarterly	4	0	0
Ammonia as N	mg/L	Quarterly	4	0.02	0.035
Bicarbonate	mg/L	Quarterly	4	0	0.25
Calcium	mg/L	Quarterly	4	0	1
Chloride	mg/L	Quarterly	4	0	0
Fluoride	mg/L	Quarterly	3*	0.2	0.33333333
Magnesium	mg/L	Quarterly	4	9	26.75
pH	pH units	Quarterly	4	3.9	4.4
Potassium	mg/L	Quarterly	4	0	0
Sodium	mg/L	Quarterly	4	186	360.25
Standing water level	m AHD	Quarterly	4	1.72	2.32
Sulphate	mg/L	Quarterly	4	48	63.75
Total Dissolved Solids	mg/L	Quarterly	4	690	147.5
Total Organic Carbon	mg/L	Quarterly	4	2	5.5

MW02

Analyte	Units	Monitoring Frequency Req'd	No. Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	1.92	108
Arsenic	mg/L	Annual	1	0.009	0.021
Barium	mg/L	Annual	1	0.004	0.008
Benzene	mg/L	Annual	1	<1	<0.0001
Cadmium	mg/L	Annual	1	0.0001	<0.0001
Hexavalent Chromium	mg/L	Annual	1	<0.01	<0.01
Total Chromium	mg/L	Annual	1	0.004	0.0376
Cobalt	mg/L	Annual	1	0.007	0.003
Copper	mg/L	Annual	1	0.001	0.002
Ethyl- Benzene	mg/L	Annual	1	<2	<0.043
Lead	mg/L	Annual	1	0.012	0.039
Manganese	mg/L	Annual	1	0.029	0.024
Nickel	mg/L	Annual	1	0.005	0.014
Nitrate	mg/L	Annual	1	0.75	0.006
Nitrite	mg/L	Annual	1	0.01	<0.01
Nitrogen (total)	mg/L	Annual	1	4.6	0.02
Phosphate	mg/L	Annual	0	not tested	not tested
Phosphorus	mg/L	Annual	1	0.06	<0.05
Redox Potential	units	Annual	1	<2	<2
Toluene	mg/L	Annual	1	<0.05	<0.05
Total Phenolics	mg/L	Annual	1	<0.05	<0.05
TRHS	mg/L	Annual	1	200	<0.043
Xylene	mg/L	Annual	1	<2	<2
Zinc	mg/L	Annual	1	0.168	0.121

MW03

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Feb-21	Feb-22
Alkalinity (CaCO3)	mg/L	Quarterly	4	0	0
Ammonia as N	mg/L	Quarterly	4	0.37	0.3925
Bicarbonate	mg/L	Quarterly	4	0	0
Calcium	mg/L	Quarterly	4	0	0
Chloride	mg/L	Quarterly	4	35	35
Fluoride	mg/L	Quarterly	3*	0	0
Magnesium	mg/L	Quarterly	4	3	3.5
pH	pH units	Quarterly	4	3.5	3.975
Potassium	mg/L	Quarterly	4	0	0
Sodium	mg/L	Quarterly	4	0.22	0.3
Standing water level	m AHD	Quarterly	4	39	39.75
Sulphate	mg/L	Quarterly	4	123	137.5
Total Dissolved Solids	mg/L	Quarterly	4	0	2.75
Total Organic Carbon	mg/L	Quarterly	4	0	1.5

MW03

Analyte	Units	Monitoring Frequency Req'd	No. Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	1.92	108
Arsenic	mg/L	Annual	1	0.009	0.021
Barium	mg/L	Annual	1	0.004	0.008
Benzene	mg/L	Annual	1	<1	<0.0001
Cadmium	mg/L	Annual	1	0.0001	<0.0001
Hexavalent Chromium	mg/L	Annual	1	<0.01	<0.01
Total Chromium	mg/L	Annual	1	0.004	0.0376
Cobalt	mg/L	Annual	1	0.007	0.003
Copper	mg/L	Annual	1	0.001	0.002
Ethyl- Benzene	mg/L	Annual	1	<2	<0.043
Lead	mg/L	Annual	1	0.012	0.039
Manganese	mg/L	Annual	1	0.029	0.024
Nickel	mg/L	Annual	1	0.005	0.014
Nitrate	mg/L	Annual	1	0.75	0.006
Nitrite	mg/L	Annual	1	0.01	<0.01
Nitrogen (total)	mg/L	Annual	1	4.6	0.02
Phosphate	mg/L	Annual	0	not tested	not tested
Phosphorus	mg/L	Annual	1	0.06	<0.05
Redox Potential	units	Annual	1	<2	<2
Toluene	mg/L	Annual	1	<0.05	<0.05
Total Phenolics	mg/L	Annual	1	<0.05	<0.05
TRHS	mg/L	Annual	1	200	<0.043
Xylene	mg/L	Annual	1	<2	<2
Zinc	mg/L	Annual	1	0.168	0.121

MW04

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Feb-21	Feb-22
Alkalinity (CaCO3)	mg/L	Quarterly	4	0	16.25
Ammonia as N	mg/L	Quarterly	4	0	0.015
Bicarbonate	mg/L	Quarterly	4	7	16.25
Calcium	mg/L	Quarterly	4	12	0.25
Chloride	mg/L	Quarterly	4	72	315.5
Fluoride	mg/L	Quarterly	3*	0	0
Magnesium	mg/L	Quarterly	4	8	0.025
pH	pH units	Quarterly	4	4.5	5.45
Potassium	mg/L	Quarterly	4	2	4.75
Sodium	mg/L	Quarterly	4	48	156.25
Standing water level	m AHD	Quarterly	4	1.99	2.475
Sulphate	mg/L	Quarterly	4	39	43.25
Total Dissolved Solids	mg/L	Quarterly	4	274	691.5
Total Organic Carbon	mg/L	Quarterly	4	4	16.75

MW04

Analyte	Units	Monitoring Frequency Req'd	No. Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	0.92	108
Arsenic	mg/L	Annual	1	0.009	0.021
Barium	mg/L	Annual	1	0.004	0.008
Benzene	mg/L	Annual	1	<1	<0.0001
Cadmium	mg/L	Annual	1	0.0001	<0.0001
Hexavalent Chromium	mg/L	Annual	1	<0.01	<0.01
Total Chromium	mg/L	Annual	1	0.004	0.0376
Cobalt	mg/L	Annual	1	0.007	0.003
Copper	mg/L	Annual	1	0.001	0.002
Ethyl- Benzene	mg/L	Annual	1	<2	<0.043
Lead	mg/L	Annual	1	0.012	0.039
Manganese	mg/L	Annual	1	0.029	0.024
Nickel	mg/L	Annual	1	0.005	0.014
Nitrate	mg/L	Annual	1	0.75	0.006
Nitrite	mg/L	Annual	1	0.01	<0.01
Nitrogen (total)	mg/L	Annual	1	4.6	0.02
Phosphate	mg/L	Annual	0	not tested	not tested
Phosphorus	mg/L	Annual	1	0.06	<0.05
Redox Potential	units	Annual	1	<2	<2
Toluene	mg/L	Annual	1	<0.05	<0.05
Total Phenolics	mg/L	Annual	1	<0.05	<0.05
TRHS	mg/L	Annual	1	200	<0.043
Xylene	mg/L	Annual	1	<2	<2
Zinc	mg/L	Annual	1	0.168	0.121

MW05

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Feb-21	Feb-22
Alkalinity (CaCO3)	mg/L	Quarterly	4	41	49.5
Ammonia as N	mg/L	Quarterly	4	0.02	0.1125
Bicarbonate	mg/L	Quarterly	4	41	49.5
Calcium	mg/L	Quarterly	4	0	1.75
Chloride	mg/L	Quarterly	4	28	65.25
Fluoride	mg/L	Quarterly	3*	0	0
Magnesium	mg/L	Quarterly	4	5.1	0.025
pH	pH units	Quarterly	4	44	69.5
Potassium	mg/L	Quarterly	4	0	0.25
Sodium	mg/L	Quarterly	4	38	69.5
Standing water level	m AHD	Quarterly	4	2.3	4.875
Sulphate	mg/L	Quarterly	4	14	36.25
Total Dissolved Solids	mg/L	Quarterly	4	217	388.5
Total Organic Carbon	mg/L	Quarterly	4	8	11.5

MW05

Analyte	Units	Monitoring Frequency Req'd	No. Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	0.92	108
Arsenic	mg/L	Annual	1	0.009	0.021
Barium	mg/L	Annual	1	0.004	0.008
Benzene	mg/L	Annual	1	<1	<0.0001
Cadmium	mg/L	Annual	1	0.0001	<0.0001
Hexavalent Chromium	mg/L	Annual	1	<0.01	<0.01
Total Chromium	mg/L	Annual	1	0.004	0.0376
Cobalt	mg/L	Annual	1	0.007	0.003
Copper	mg/L	Annual	1	0.001	0.002
Ethyl- Benzene	mg/L	Annual	1	<2	<0.043
Lead	mg/L	Annual	1	0.012	0.039
Manganese	mg/L	Annual	1	0.029	0.024
Nickel	mg/L	Annual	1	0.005	0.014
Nitrate	mg/L	Annual	1	0.75	0.006
Nitrite	mg/L	Annual	1	0.01	<0.01
Nitrogen (total)	mg/L	Annual	1	4.6	0.02
Phosphate	mg/L	Annual	0	not tested	not tested
Phosphorus	mg/L	Annual	1	0.06	<0.05
Redox Potential	units	Annual	1	<2	<2
Toluene	mg/L	Annual	1	<0.05	<0.05
Total Phenolics	mg/L	Annual	1	<0.05	<0.05
TRHS	mg/L	Annual	1	<100	<0.043
Xylene	mg/L	Annual	1	<2	<2
Zinc	mg/L	Annual	1	0.168	0.121

MW06

Analyte	Units	Monitoring Frequency Req'd	# of Times Measured	Feb-21	Feb-22
Alkalinity (CaCO3)	mg/L	Quarterly	4	0	6.75
Ammonia as N	mg/L	Quarterly	4	0	0.3825
Bicarbonate	mg/L	Quarterly	4	0	6.75
Calcium	mg/L	Quarterly	4	5	5.25
Chloride	mg/L	Quarterly	4	994	1033.5
Fluoride	mg/L	Quarterly	3*	0	0
Magnesium	mg/L	Quarterly	4	17	18
pH	pH units	Quarterly	4	8	0.025
Potassium	mg/L	Quarterly	4	0	0.5
Sodium	mg/L	Quarterly	4	146	364.75
Standing water level	m AHD	Quarterly	4	0.38	0.65
Sulphate	mg/L	Quarterly	4	28	36.25
Total Dissolved Solids	mg/L	Quarterly	4	1720	1787.5
Total Organic Carbon	mg/L	Quarterly	4	5	9.5

MW06

Analyte	Units	Monitoring Frequency Req'd	No. Times Measured	Feb-21	Feb-22
Aluminium	mg/L	Annual	1	0.92	108
Arsenic	mg/L	Annual	1	0.009	0.021
Barium	mg/L	Annual	1	0.004	0.008
Benzene	mg/L	Annual	1	<1	<0.0001
Cadmium	mg/L	Annual	1	0.0001	<0.0001
Hexavalent Chromium	mg/L	Annual	1	<0.01	<0.01
Total Chromium	mg/L	Annual	1	0.004	0.0376
Cobalt	mg/L	Annual	1	0.007	0.003
Copper	mg/L	Annual	1	0.001	0.002
Ethyl- Benzene	mg				