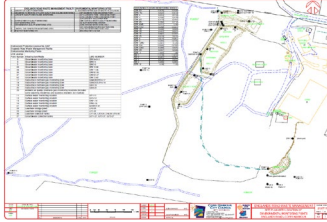


Englands Road Waste Management Facility Monitoring

Environment Protection Licence No. 6267 - Englands Road Waste Management Facility

Link to Licence on EPA Website: <http://www.epa.nsw.gov.au/australia/ViewPOECLLicence.aspx?POECLID=1814101-6267>

Coffs Harbour City Council
Locked Box 155, Coffs Harbour NSW 2450



M2.2 - Air Monitoring Requirements

Frequency: Monthly
Locations: Surface of the Landfill
Pollutant: Methane
Unit: m³ Methane per million tonnes
All areas within the water catchment

Date	Location	Value	Notes
15/01/2024	A	0.000	
15/02/2024	A	0.000	
15/03/2024	A	0.000	
15/04/2024	A	0.000	
15/05/2024	A	0.000	
15/06/2024	A	0.000	

M2.2 - Air Monitoring Requirements

Frequency: Monthly
Locations: Sub-Surface of the Landfill
Pollutant: Methane
Unit: m³ Methane per million tonnes
All areas within the water catchment

Date	Location	EPA Identification Number	Measurement	Notes
15/01/2024	Sub-Surface A	SP1	0	
15/02/2024	Sub-Surface A	SP1	0	
15/03/2024	Sub-Surface A	SP1	0	
15/04/2024	Sub-Surface A	SP1	0	
15/05/2024	Sub-Surface A	SP1	0	
15/06/2024	Sub-Surface A	SP1	0	

M2.2 - Air Monitoring Requirements

Frequency: Monthly
Locations: Building within 250m Methane
Pollutant: Methane
Unit: m³ Methane per million tonnes
All areas within the water catchment

Date	Location	EPA Identification Number	Measurement	Notes
15/01/2024	Building 1	SP2	0	
15/02/2024	Building 1	SP2	0	
15/03/2024	Building 1	SP2	0	
15/04/2024	Building 1	SP2	0	
15/05/2024	Building 1	SP2	0	
15/06/2024	Building 1	SP2	0	

L2 - Water and Land Concentration Limits

Frequency: Before Discharge
Locations: SP 1 - Sediment Pond 1, SP 2 - Sediment Pond 2
Note: Substances restricted to exceed 50 mg/L (Total) greater than 71 items (all) per any concentration for any day

Date	pH	Point 11			Point 12			Total Suspended Solids (mg/L)	Turbidity (NTU @ 10cm)
		Temp (°C)	DO (mg/L)	EC (µS/cm)	Temp (°C)	DO (mg/L)	EC (µS/cm)		
15/01/2024	8.81	15	89	8,897	15.2	230			
15/02/2024	8.81	15	89	8,897	15.2	230			
15/03/2024	8.81	15	89	8,897	15.2	230			
15/04/2024	8.81	15	89	8,897	15.2	230			
15/05/2024	8.81	15	89	8,897	15.2	230			
15/06/2024	8.81	15	89	8,897	15.2	230			

M2.3 - Water and/or Land Monitoring Requirements

Frequency: 6 monthly
Locations: Point 11, SP 1 - Sediment Pond 1, SP 2 - Sediment Pond 2

Date	Alkalinity (Calcium Carbonate) (mg/L)	Ammonia (mg/L)	Biochemical Oxygen Demand (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Nitrate (mg/L)	pH	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Suspended Solids (mg/L)	Turbidity (NTU)	Comments
15/01/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	
15/02/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	
15/03/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	
15/04/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	
15/05/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	
15/06/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	

M2.3 - Water and/or Land Monitoring Requirements

Frequency: 6 monthly
Locations: Point 12, SP 1 - Sediment Pond 1, SP 2 - Sediment Pond 2

Date	Alkalinity (Calcium Carbonate) (mg/L)	Ammonia (mg/L)	Biochemical Oxygen Demand (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Nitrate (mg/L)	pH	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Suspended Solids (mg/L)	Turbidity (NTU)	Comments
15/01/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	
15/02/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	
15/03/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	
15/04/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	
15/05/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	
15/06/2024	150	0.1	0.1	150	150	150	8.8	150	150	150	150	150	

M2.3 - Water and/or Land Monitoring Requirements

Frequency: 6 monthly
Locations: Point 3, Groundwater 3 (40)

Date	Alkalinity (Calcium Carbonate) (mg/L)	Ammonia (mg/L)	Biochemical Oxygen Demand (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Nitrate (mg/L)	pH	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)
15/01/2024	150	0.1	0.1	150	150	150	8.8	150	150	150
15/02/2024	150	0.1	0.1	150	150	150	8.8	150	150	150
15/03/2024	150	0.1	0.1	150	150	150	8.8	150	150	150
15/04/2024	150	0.1	0.1	150	150	150	8.8	150	150	150
15/05/2024	150	0.1	0.1	150	150	150	8.8	150	150	150
15/06/2024	150	0.1	0.1	150	150	150	8.8	150	150	150

Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate		
14/05/2024	61.5	0.60	0	3.244	83.1191	0.53	6.2	0.2676	62.67325	0.043		
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 monthly											
Locations	Point 3 Groundwater 3 (40) Point 4 Groundwater 4 Point 5 Groundwater 5 Point 33 Groundwater 10 Point 36 Groundwater 11 Point 37 Groundwater 6D Point 42 Groundwater 12											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate		
14/05/2024	6.9	0.02	0.2	4.835	101.9008	0.02	6.3	0.4675	770.14	663.3462		
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 monthly											
Locations	Point 3 Groundwater 3 (40) Point 4 Groundwater 4 Point 5 Groundwater 5 Point 33 Groundwater 10 Point 36 Groundwater 11 Point 37 Groundwater 6D Point 42 Groundwater 12											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate		
14/05/2024	67	0.02	0.2	4.867	78.3664	0.21	6.6	0.9405	62.61423	0.086		
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 monthly											
Locations	Point 3 Groundwater 3 (40) Point 4 Groundwater 4 Point 5 Groundwater 5 Point 33 Groundwater 10 Point 36 Groundwater 11 Point 37 Groundwater 6D Point 42 Groundwater 12											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate		
14/05/2024	71.1	0.0	0.2	26.813	101.261	0.02	7.0	0.6335	60.62	21.3664		
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 monthly											
Locations	Point 3 Groundwater 3 (40) Point 4 Groundwater 4 Point 5 Groundwater 5 Point 33 Groundwater 10 Point 36 Groundwater 11 Point 37 Groundwater 6D Point 42 Groundwater 12											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate		
14/05/2024	71.9	0.0	0.2	0.221	580.8085	0.03	6.4	0.8352	283.73	78.3247		
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 monthly											
Locations	Point 3 Groundwater 3 (40) Point 4 Groundwater 4 Point 5 Groundwater 5 Point 33 Groundwater 10 Point 36 Groundwater 11 Point 37 Groundwater 6D Point 42 Groundwater 12											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate		
14/05/2024	6.8	0.36	0.2	6.541	179.2026	0.02	7.2	0.7264	113.81	69.2416		
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 monthly											
Locations	Point 3 Groundwater 3 (40) Point 4 Groundwater 4 Point 5 Groundwater 5 Point 33 Groundwater 10 Point 36 Groundwater 11 Point 37 Groundwater 6D Point 42 Groundwater 12											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate		
14/05/2024	6.8	0.36	0.2	6.541	179.2026	0.02	7.2	0.7264	113.81	69.2416		
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 monthly											
Locations	Point 3 Groundwater 3 (40) Point 4 Groundwater 4 Point 5 Groundwater 5 Point 33 Groundwater 10 Point 36 Groundwater 11 Point 37 Groundwater 6D Point 42 Groundwater 12											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate		
14/05/2024	6.8	0.36	0.2	6.541	179.2026	0.02	7.2	0.7264	113.81	69.2416		
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 monthly											
Locations	Point 16 Surface Water 1 Point 22 Surface Water 4 Point 26 Leachate pond 2 marked on site plan Point 27 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	66.8	0.02	0.2	8.269	65.868	0.02	6.9	0.324	4.238	7.731	0.4	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 monthly											
Locations	Point 16 Surface Water 1 Point 22 Surface Water 4 Point 26 Leachate pond 2 marked on site plan Point 27 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	66.1	0.04	0.2	26.511	120.1312	0.75	7.0	59.208	61.6836	6.934	0.59	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 monthly											
Locations	Point 41 Surface Water 1 Point 42 Surface Water 4 Point 43 Outer point of surface water discharge pipe marked G00RCP											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	66.8	0.02	0.2	6.541	179.2026	0.02	7.2	0.7264	113.81	69.2416	0.4	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 Monthly											
Locations	Point 22 Leachate pond 2 marked on site plan Point 26 Leachate pond 2 marked on site plan Point 27 All leachate collection tanks (L27) Point 28 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	1124.9	0.2	0.2	42.42	105.5024	0.02	6.1	138.108	308.91	14.0943	226.54	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 Monthly											
Locations	Point 22 Leachate pond 2 marked on site plan Point 26 Leachate pond 2 marked on site plan Point 27 All groundwater collection tanks (L27) Point 28 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	106.6	0.02	0.2	39.856	146.263	0.1	6.6	169.263	663.71	26.061	206.2	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 Monthly											
Locations	Point 22 Leachate pond 2 marked on site plan Point 26 Leachate pond 2 marked on site plan Point 27 All leachate collection tanks (L27) Point 28 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	1301.4	0.18	0.2	61.413	2.28	222.75	7.5	112.277	372.49	20.362	219.77	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 Monthly											
Locations	Point 26 Leachate pond 2 marked on site plan Point 27 All leachate collection tanks (L27) Point 28 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	692	0.26	0.2	61.364	174.1526	6.38	6.8	68.726	622.09	178.2448	681.2	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 Monthly											
Locations	Point 26 Leachate pond 2 marked on site plan Point 27 All leachate collection tanks (L27) Point 28 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	691	0.26	0.2	124.188	193.4966	6.28	6.7	69.418	663.71	6.31	683.3	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 Monthly											
Locations	Point 26 Leachate pond 2 marked on site plan Point 27 All leachate collection tanks (L27) Point 28 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	1084.2	0.26	0.2	116.166	161.3621	2.36	6.4	125.262	671.69	70.034	625.1	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 Monthly											
Locations	Point 22 Leachate pond 2 marked on site plan Point 26 Leachate pond 2 marked on site plan Point 27 All leachate collection tanks (L27) Point 28 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	1789.7	0.26	0.2	105.126	158.8226	0.21	7.5	150.842	85.4	18.14	515.81	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 Monthly											
Locations	Point 27 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	60.8	0.27	0.1	84.468	104.4919	2.26	6.7	18.09	624.62	146.5977	21.52	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 Monthly											
Locations	Point 27 All groundwater collection tanks (G27)											
Date	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Kjeldahl Nitrogen	Total Suspended Solids
04/04/2024	61.2	0.27	0.1	17.372	102.243	0.26	6.46	6.26	229.8	11.024	0.6	0.02
M2.3 - Water and/or Land Monitoring Requirements												
Frequency	6 Monthly											
Locations	Point 34 Groundwater 11											
Date	Nitrate											

Date	Unit
11/20/2024	130