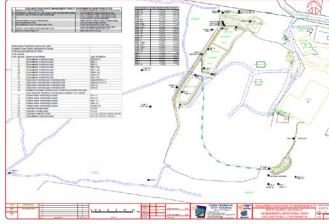


# Englands Road Waste Management Facility Monitoring

Environment Protection Licence No. 6287 - Englands Road Waste Management Facility  
 Link to Licence on EPA Website: <http://www.environment.nsw.gov.au/aboutus/ViewPEOLLicense.aspx?FOID=399388BYLD+8LKD+6287>

Locke Harbour City Council  
 Locked Box 155, Coffe Harbour NSW 2450



### M2.3 - Air Monitoring Requirements

Frequency: Monthly  
 Locations: Surface of the Landfill  
 Pollutant: Methane  
 Note: All areas within the waste stabilization unit.  
 Unit of Measure: m³CH₄/m³ air per million tonnage  
 Note: Parts per Million

Date	Notes	Results
24/11/2024	3 locations <50ppm	0
17/12/2024	3 locations <50ppm	0
13/01/2025	3 locations <50ppm	0
18/02/2025	3 locations <50ppm	0

Date	Location	EPA Identification Number	Measurement	Notes
17/12/2024	Case hole 1	Point 16	0	0
17/12/2024	Case hole 2	Point 18	0	0
17/12/2024	Case hole 3	Point 20	0	0

### Building within 250m Methane

Date	Location	EPA Identification Number	Measurement	Notes
18/01/2024	Wastewater Office (Overhead sheet)	Point 25	0	0
18/01/2024	Operator Compound (Overhead sheet)	Point 25	0	0
18/01/2024	Chemicals Warehouse (Overhead sheet)	Point 25	0	0
18/01/2024	Landfill Office (Overhead sheet)	Point 25	0	0
18/01/2024	25 Englands Road (Regulation Office)	Point 25	0	no access (drimmers vacated and locked)
18/01/2024	25 Englands Road (COCOP) warehouse	Point 25	0	no access (drimmers vacated and locked)
18/01/2024	Office location 4 (Overhead)	Point 25	0	no access (drimmers vacated and locked)
18/01/2024	Office location 3 (Overhead)	Point 25	0	no access (drimmers vacated and locked)
18/01/2024	Office location 2 (Overhead)	Point 25	0	no access (drimmers vacated and locked)
18/01/2024	Office location 1 (Overhead)	Point 25	0	no access (drimmers vacated and locked)
18/01/2024	Office location 0 (Overhead)	Point 25	0	no access (drimmers vacated and locked)
12/09/2024	Wastewater Office (Overhead sheet)	Point 25	0	0
12/09/2024	Operator Compound (Overhead sheet)	Point 25	0	0
12/09/2024	Chemicals Warehouse (Overhead sheet)	Point 25	0	0
12/09/2024	Landfill Office (Overhead sheet)	Point 25	0	0
12/09/2024	25 Englands Road (Regulation Office)	Point 25	0	0
12/09/2024	25 Englands Road (COCOP) warehouse	Point 25	0	0
12/09/2024	Office location 4 (Overhead)	Point 25	0	no access (drimmers vacated and locked)
12/09/2024	Office location 3 (Overhead)	Point 25	0	no access (drimmers vacated and locked)
12/09/2024	Office location 2 (Overhead)	Point 25	0	no access (drimmers vacated and locked)
12/09/2024	Office location 1 (Overhead)	Point 25	0	no access (drimmers vacated and locked)
12/09/2024	Office location 0 (Overhead)	Point 25	0	no access (drimmers vacated and locked)

### L2 - Water and Land Concentration Limits

Frequency: Before Discharge  
 Locations: Point 11, Point 12, SP 1 - Sediment Pond 1, SP 2 - Sediment Pond 2

Date	Point 11	pH	TP	TSS	Total Suspended Solids (mg/l)	Turbidity (NTU)
24/11/2024	8.91	8.3	8.22	123	230	170
17/12/2024	8.63	8.3	8.36	144	50	30
13/01/2025	7.128	8.1	7.375	132	175	175
21/01/2025	7.128	8.1	7.289	134	53	53
20/02/2025	7.66	8.47	8.49	88	115	115
18/02/2025	7.627	8.0	8.037	86	50	50
12/09/2024	7.63	8.0	7.786	89	100	100
13/09/2024	7.63	8.0	7.87	84	83	83
21/09/2024	7.584	8.0	7.86	81	88	88
20/09/2024	7.584	8.0	7.86	87	120	120
27/09/2024	7.584	8.0	8.05	16	24	24
14/10/2024	7.573	8.0	8.4	58	70	70
14/10/2024	7.549	8.0	7.5	184	170	170
10/04/2024	7.549	8.0	7.272	77	145	145
11/04/2024	7.549	8.0	7.23	75	108	108
11/04/2024	7.549	8.0	6.8	80	81	81
13/04/2024	7.549	8.0	6.99	134	232	232
22/04/2024	7.549	8.0	7.176	97	121	121
23/04/2024	7.565	8.0	7.43	68	89	89

### M2.3 - Water and Land Monitoring Requirements

Frequency: 6 monthly  
 Locations: Point 11, Point 12, SP 1 - Sediment Pond 1, SP 2 - Sediment Pond 2

Date	Point 11	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Suspended Solids	Turbidity	Comments
18/11/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
17/09/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
30/09/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
18/09/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
30/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
14/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
14/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
14/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
14/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
14/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0

### M2.3 - Water and Land Monitoring Requirements

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

Date	Point 12	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate	Total Suspended Solids	Turbidity	Comments
18/11/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
17/09/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
30/09/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
18/09/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
30/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
14/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
14/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
14/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
14/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0
14/08/2024	1	188	0	0	40815	48	185	0.04	15.494	81	352	44	8773	0

### M2.3 - Water and/or Land Monitoring Requirements

Frequency: 6 monthly  
 Locations: Point 3, Point 4, Point 5, Point 6, Point 10, Point 33, Point 36, Point 37, Point 42

Date	Point 3	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate
18/11/2024	3	188	0	0	40815	48	185	0.04	15.494	81	352
17/09/2024	3	188	0	0	40815	48	185	0.04	15.494	81	352
30/09/2024	3	188	0	0	40815	48	185	0.04	15.494	81	352
18/09/2024	3	188	0	0	40815	48	185	0.04	15.494	81	352
30/08/2024	3	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	3	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	3	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	3	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	3	188	0	0	40815	48	185	0.04	15.494	81	352

### M2.3 - Water and/or Land Monitoring Requirements

Frequency: 6 monthly  
 Locations: Point 3, Point 4, Point 5, Point 6, Point 10, Point 33, Point 36, Point 37, Point 42

Date	Point 4	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate
18/11/2024	4	188	0	0	40815	48	185	0.04	15.494	81	352
17/09/2024	4	188	0	0	40815	48	185	0.04	15.494	81	352
30/09/2024	4	188	0	0	40815	48	185	0.04	15.494	81	352
18/09/2024	4	188	0	0	40815	48	185	0.04	15.494	81	352
30/08/2024	4	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	4	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	4	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	4	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	4	188	0	0	40815	48	185	0.04	15.494	81	352

### M2.3 - Water and/or Land Monitoring Requirements

Frequency: 6 monthly  
 Locations: Point 3, Point 4, Point 5, Point 6, Point 10, Point 33, Point 36, Point 37, Point 42

Date	Point 5	Alkalinity (Calcium Carbonate)	Ammonia	Biochemical Oxygen Demand	Calcium	Chloride	Nitrate	pH	Potassium	Sodium	Sulphate
18/11/2024	5	188	0	0	40815	48	185	0.04	15.494	81	352
17/09/2024	5	188	0	0	40815	48	185	0.04	15.494	81	352
30/09/2024	5	188	0	0	40815	48	185	0.04	15.494	81	352
18/09/2024	5	188	0	0	40815	48	185	0.04	15.494	81	352
30/08/2024	5	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	5	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	5	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	5	188	0	0	40815	48	185	0.04	15.494	81	352
14/08/2024	5	188	0	0	40815	48	185	0.04	15.494	81	352

Point 5 Data	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)
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**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Groundwater 3 (40)
6 monthly	Point 3	Groundwater 3 (40)
	Point 4	Groundwater 4
	Point 5	Groundwater 5
	Point 33	Groundwater 10
	Point 36	Groundwater 11
	Point 37	Groundwater 8D
	Point 42	Groundwater 12

Point 33 Data	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)
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**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Groundwater 3 (40)
6 monthly	Point 3	Groundwater 3 (40)
	Point 4	Groundwater 4
	Point 5	Groundwater 5
	Point 33	Groundwater 10
	Point 36	Groundwater 11
	Point 37	Groundwater 8D
	Point 42	Groundwater 12

Point 36 Data	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)
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**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Groundwater 3 (40)
6 monthly	Point 3	Groundwater 3 (40)
	Point 4	Groundwater 4
	Point 5	Groundwater 5
	Point 33	Groundwater 10
	Point 36	Groundwater 11
	Point 37	Groundwater 8D
	Point 42	Groundwater 12

Point 37 Data	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)
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**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Groundwater 3 (40)
6 monthly	Point 3	Groundwater 3 (40)
	Point 4	Groundwater 4
	Point 5	Groundwater 5
	Point 33	Groundwater 10
	Point 36	Groundwater 11
	Point 37	Groundwater 8D
	Point 42	Groundwater 12

Point 42 Data	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)
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**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Surface Water 2
6 monthly	Point 12	Surface Water 2
	Point 16	Surface Water 4
	Point 44	Surface point of surface water discharge pipe marked GDRCP

Point 12 Data	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 Kjeldahl Nitrogen (mg/l)	Total Suspended Solids (mg/l)
4/24/2024	20.8	0.0	0.00	27.00	26.5008	10.00	8.5	0.34	0.119	0.133	0.14	0

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Surface Water 2
6 monthly	Point 12	Surface Water 2
	Point 16	Surface Water 4
	Point 44	Surface point of surface water discharge pipe marked GDRCP

Point 16 Data	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 Kjeldahl Nitrogen (mg/l)	Total Suspended Solids (mg/l)
4/24/2024	25.1	0.0	0.00	28.11	120.1112	0.75	7.5	0.208	0.1886	0.024	0.09	0

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Surface Water 2
6 monthly	Point 12	Surface Water 2
	Point 16	Surface Water 4
	Point 44	Surface point of surface water discharge pipe marked GDRCP

Point 41 Data	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 Kjeldahl Nitrogen (mg/l)	Total Suspended Solids (mg/l)
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**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Leachate pond 2 marked on site plan
6 Monthly	Point 22	Leachate pond 2 marked on site plan
	Point 24	Leachate pond 1 marked on site plan
	Point 25	All leachate collection tanks (L17)
	Point 27	All groundwater collection tanks (G17)

Point 22 Data	Alkalinity (Calcium Carbonate) (mg/l)	Ammonia (mg/l)	Biochemical Oxygen Demand (mg/l)	Calcium (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrogen (total) (mg/l)	pH	Potassium (mg/l)	Sodium (mg/l)	Sulphate (mg/l)	Total Kjeldahl Nitrogen (mg/l)
4/24/2024	112.9	0.0	0.0	24.09	495.004	0.00	10.8	8.3	108.108	208.01	14.081	108.00

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Leachate pond 2 marked on site plan
6 Monthly	Point 22	Leachate pond 2 marked on site plan
	Point 23	Leachate pond 1 marked on site plan
	Point 24	All leachate collection tanks (L17)
	Point 27	All groundwater collection tanks (G17)

Point 23 Data	Alkalinity (Calcium Carbonate) (mg/l)	Ammonia (mg/l)	Biochemical Oxygen Demand (mg/l)	Calcium (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrogen (total) (mg/l)	pH	Potassium (mg/l)	Sodium (mg/l)	Sulphate (mg/l)	Total Kjeldahl Nitrogen (mg/l)
4/24/2024	140.8	0.0	0.00	20.35	642.493	0.11	227.5	8.1	103.383	483.71	20.101	224.2

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Leachate pond 2 marked on site plan
6 Monthly	Point 22	Leachate pond 2 marked on site plan
	Point 24	Leachate pond 1 marked on site plan
	Point 26	All leachate collection tanks (L17)
	Point 27	All groundwater collection tanks (G17)

Point 26 Data	Alkalinity (Calcium Carbonate) (mg/l)	Ammonia (mg/l)	Biochemical Oxygen Demand (mg/l)	Calcium (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrogen (total) (mg/l)	pH	Potassium (mg/l)	Sodium (mg/l)	Sulphate (mg/l)	Total Kjeldahl Nitrogen (mg/l)
4/24/2024	1301.4	0.0	0.0	24	511.213	2.38	222.75	7.5	112.377	882.49	20.342	210.77

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Leachate pond 2 marked on site plan
6 Monthly	Point 22	Leachate pond 2 marked on site plan
	Point 24	Leachate pond 1 marked on site plan
	Point 26	All leachate collection tanks (L17)
	Point 27	All groundwater collection tanks (G17)

Point 24 Data	Alkalinity (Calcium Carbonate) (mg/l)	Ammonia (mg/l)	Biochemical Oxygen Demand (mg/l)	Calcium (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrogen (total) (mg/l)	pH	Potassium (mg/l)	Sodium (mg/l)	Sulphate (mg/l)	Total Kjeldahl Nitrogen (mg/l)
4/24/2024	170.88	0.0	0.00	27.304	174.3150	4.38	143.05	7.9	80.739	502.09	17.0348	140.12

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Leachate pond 2 marked on site plan
6 Monthly	Point 22	Leachate pond 2 marked on site plan
	Point 24	Leachate pond 1 marked on site plan
	Point 26	All leachate collection tanks (L17)
	Point 27	All groundwater collection tanks (G17)

Point 26 Data	Alkalinity (Calcium Carbonate) (mg/l)	Ammonia (mg/l)	Biochemical Oxygen Demand (mg/l)	Calcium (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrogen (total) (mg/l)	pH	Potassium (mg/l)	Sodium (mg/l)	Sulphate (mg/l)	Total Kjeldahl Nitrogen (mg/l)
4/24/2024	52.1	0.0	0.00	142.188	735.1036	0.58	824.85	8.7	229.218	883.71	6.35	633.57

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Leachate pond 2 marked on site plan
6 Monthly	Point 22	Leachate pond 2 marked on site plan
	Point 24	Leachate pond 1 marked on site plan
	Point 26	All leachate collection tanks (L17)
	Point 27	All groundwater collection tanks (G17)

Point 26 Data	Alkalinity (Calcium Carbonate) (mg/l)	Ammonia (mg/l)	Biochemical Oxygen Demand (mg/l)	Calcium (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrogen (total) (mg/l)	pH	Potassium (mg/l)	Sodium (mg/l)	Sulphate (mg/l)	Total Kjeldahl Nitrogen (mg/l)
4/24/2024	1485.2	0.0	0.00	110.166	441.041	0.76	203.05	8.4	105.124	807.08	0.003	208.51

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Leachate pond 2 marked on site plan
6 Monthly	Point 22	Leachate pond 2 marked on site plan
	Point 24	Leachate pond 1 marked on site plan
	Point 26	All leachate collection tanks (L17)
	Point 27	All groundwater collection tanks (G17)

Point 27 Data	Alkalinity (Calcium Carbonate) (mg/l)	Ammonia (mg/l)	Biochemical Oxygen Demand (mg/l)	Calcium (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrogen (total) (mg/l)	pH	Potassium (mg/l)	Sodium (mg/l)	Sulphate (mg/l)	Total Kjeldahl Nitrogen (mg/l)
4/24/2024	1789.7	0.0	0.00	105.128	658.8239	0.21	110.25	7.8	160.642	481.5	10.34	115.82

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Leachate pond 2 marked on site plan
6 Monthly	Point 22	Leachate pond 2 marked on site plan
	Point 24	Leachate pond 1 marked on site plan
	Point 26	All leachate collection tanks (L17)
	Point 27	All groundwater collection tanks (G17)

Point 27 Data	Alkalinity (Calcium Carbonate) (mg/l)	Ammonia (mg/l)	Biochemical Oxygen Demand (mg/l)	Calcium (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrogen (total) (mg/l)	pH	Potassium (mg/l)	Sodium (mg/l)	Sulphate (mg/l)	Total Kjeldahl Nitrogen (mg/l)
4/24/2024	403.3	0.0	0.00	85.466	441.041	0.25	51.25	8.7	10.09	424.00	140.8077	87.55

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Leachate pond 2 marked on site plan
6 Monthly	Point 22	Leachate pond 2 marked on site plan
	Point 24	Leachate pond 1 marked on site plan
	Point 26	All leachate collection tanks (L17)
	Point 27	All groundwater collection tanks (G17)

Point 27 Data	Alkalinity (Calcium Carbonate) (mg/l)	Ammonia (mg/l)	Biochemical Oxygen Demand (mg/l)	Calcium (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrogen (total) (mg/l)	pH	Potassium (mg/l)	Sodium (mg/l)	Sulphate (mg/l)	Total Kjeldahl Nitrogen (mg/l)
4/24/2024	131.9	0.0	0.00	37.372	132.2443	1.02	0.46	8.6	5.208	109.8	21.7023	0.44

**M2.3 - Water and/or Land Monitoring Requirements**

Frequency	Locations	Groundwater 11
6 Monthly	Point 34	Groundwater 11