

**KOOTINGAL LANDFILL - YEARLY SUMMARY FOR 2022/2023**

Licence Number - 6013

Kootingal Solid Waste Landfill - New England Highway, Kootingal NSW, 2352 Licencee - Tamworth Regional Council

Council

Public Register

<https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers>

LICENCE PERIOD:

17th Oct 2023 - 16th Oct 2024

PQL = Practical Quantitation Limit LOR = Limit of Reporting

N/A = not applicable

**Point 1 - Surface Area**

Concentration Limits: Point 1: TSS (Total Suspended Solids) - 50mg/L, 100 percentile concentration limit

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Value	Value	Value	Value
Alkalinity (as calcium carbonate)	m g/L	Special Frequency 1				
Calcium	m g/L	Special Frequency 1				
Chloride	m g/L	Special Frequency 1				
Chromium (Hexavalent)	m g/L	Special Frequency 1				
Conductivity (In situ)	µS/cm	Special Frequency 1				
Dissolved Oxygen (In situ)	m g/L	Special Frequency 1				
Fluoride	m g/L	Special Frequency 1				
Iron	m g/L	Special Frequency 1				
Magnesium	m g/L	Special Frequency 1				
Manganese	m g/L	Special Frequency 1				
Nitrate	m g/L	Special Frequency 1				
Nitrite	m g/L	Special Frequency 1				
Nitrogen (ammonia)	m g/L	Special Frequency 1				
pH (In situ)	pH Units	Special Frequency 1				
Potassium	m g/L	Special Frequency 1				
Sodium	m g/L	Special Frequency 1				
Sulfate	m g/L	Special Frequency 1				
Temperature (In situ)	oC	Special Frequency 1				
Total Kjeldahl Nitrogen	m g/L	Special Frequency 1				
Total Organic Carbon	m g/L	Special Frequency 1				
Total Phenolics	µg/L	Special Frequency 1				
Total Suspended Solids	m g/L	Special Frequency 1				
Volumetric Flow Rate	KL/Day	Special Frequency 1				
Zinc	m g/L	Special Frequency 1				
Organochlorine Pesticides	µg/L	Special Frequency 1				
Organophosphate Pesticides	µg/L	Special Frequency 1				

NOTE: Special Frequency 1 - once in each 6-monthly period at a time of stormwater discharge

**Point 2 - Leachate Pond**

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			18.12.2024			
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			31.12.2024			
Value	Value	Value	Value			
Alkalinity (as calcium carbonate)	m g/L	Quarterly	DRY			
Calcium	m g/L	Quarterly	DRY			
Chloride	m g/L	Quarterly	DRY			
Chromium (Hexavalent)	m g/L	Quarterly	DRY			
Conductivity (In situ)	µS/cm	Quarterly	DRY			
Dissolved Oxygen (In situ)	m g/L	Quarterly	DRY			
Fluoride	m g/L	Quarterly	DRY			
Iron	m g/L	Quarterly	DRY			
Magnesium	m g/L	Quarterly	DRY			
Manganese	m g/L	Quarterly	DRY			
Nitrate	m g/L	Quarterly	DRY			
Nitrite	m g/L	Quarterly	DRY			
Nitrogen (ammonia)	m g/L	Quarterly	DRY			
pH (In situ)	pH Units	Quarterly	DRY			
Potassium	m g/L	Quarterly	DRY			
Sodium	m g/L	Quarterly	DRY			
Sulfate	m g/L	Quarterly	DRY			
Temperature (In situ)	oC	Quarterly	DRY			
Total Kjeldahl Nitrogen	m g/L	Quarterly	DRY			
Total Organic Carbon	m g/L	Quarterly	DRY			
Total Phenolics	µg/L	Quarterly	DRY			

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Total Suspended Solids	m g/L	Quarterly	DRY		
Zinc	m g/L	Quarterly	DRY		
Organochlorine Pesticides	µg/L	Quarterly	DRY		
Organophosphate Pesticides	µg/L	Quarterly	DRY		

Point 3 - Leachate Overflow Point

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Value	Value	Value	Value
Alkalinity (as calcium carbonate)	m g/L	Special Frequency 2				
Calcium	m g/L	Special Frequency 2				
Chloride	m g/L	Special Frequency 2				
Chromium (Hexavalent)	m g/L	Special Frequency 2				
Conductivity (In Situ)	µS/cm	Special Frequency 2				
Dissolved Oxygen (In Situ)	m g/L	Special Frequency 2				
Fluoride	m g/L	Special Frequency 2				
Iron	m g/L	Special Frequency 2				
Magnesium	m g/L	Special Frequency 2				
Manganese	m g/L	Special Frequency 2				
Nitrate	m g/L	Special Frequency 2				
Nitrite	m g/L	Special Frequency 2				
Nitrogen (ammonia)	m g/L	Special Frequency 2				
pH (In Situ)	pH Units	Special Frequency 2				
Potassium	m g/L	Special Frequency 2				
Sodium	m g/L	Special Frequency 2				
Sulfate	m g/L	Special Frequency 2				
Temperature (In Situ)	°C	Special Frequency 2				
Total Kjeldahl Nitrogen	m g/L	Special Frequency 2				
Total Organic Carbon	m g/L	Special Frequency 2				
Total Phenolics	µg/L	Special Frequency 2				
Total Suspended Solids	m g/L	Special Frequency 2				
Volumetric Flow Rate (estimate)	KL/Day	Special Frequency 2				
Zinc	m g/L	Special Frequency 2				
Organochlorine Pesticides	µg/L	Special Frequency 2				
Organophosphate Pesticides	µg/L	Special Frequency 2				

NOTE: Special Frequency 2 - once in the first 24 hours after detection of the discharge and then weekly whilst the discharge continues

Point 4 - Groundwater Monitoring Bore - BH1

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			18.12.2024			
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			31.12.2024			
Value	Value	Value	Value			
Alkalinity (as calcium carbonate)	m g/L	Quarterly	76			
Biological Oxygen Demand	m g/L	Quarterly	4			
Calcium	m g/L	Quarterly	18			
Chloride	m g/L	Quarterly	43			
Fluoride	m g/L	Quarterly	<1			
Iron	m g/L	Quarterly	1.12			
Magnesium	m g/L	Quarterly	9			
Manganese	m g/L	Quarterly	0.141			
Nitrate	m g/L	Quarterly	<1			
Nitrogen (ammonia)	m g/L	Quarterly	<0.5			
pH (In Situ)	pH Units	Quarterly	6.5			
Potassium	m g/L	Quarterly	8			
Sodium	m g/L	Quarterly	42			
Sulfate	m g/L	Quarterly	18			
Total Dissolved Solids	m g/L	Quarterly	164			
Total Organic Carbon	m g/L	Quarterly	20			
Total Phenolics	µg/L	Quarterly	<0.050			
Organochlorine Pesticides	µg/L	Yearly	<0.5			
Organophosphate Pesticides	µg/L	Yearly	<0.5			

Point 5 - Groundwater Bore BH2

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			18.12.2024			
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained

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			31.12.2024			
			Value	Value	Value	Value
Alkalinity (as calcium carbonate)	m g/L	Quarterly	664			
Biological Oxygen Demand	m g/L	Quarterly	2			
Calcium	m g/L	Quarterly	136			
Chloride	m g/L	Quarterly	121			
Fluoride	m g/L	Quarterly	4.23			
Iron	m g/L	Quarterly	0.2			
Magnesium	m g/L	Quarterly	92			
Manganese	m g/L	Quarterly	6.2			
Nitrate	m g/L	Quarterly	7.3			
Nitrogen (ammonia)	m g/L	Quarterly	<0.5			
pH (In Situ)	pH Units	Quarterly	6.5			
Potassium	m g/L	Quarterly	15			
Sodium	m g/L	Quarterly	246			
Sulfate	m g/L	Quarterly	227			
Total Dissolved Solids	m g/L	Quarterly	1,244			
Total Organic Carbon	m g/L	Quarterly	6			
Total Phenolics	µg/L	Quarterly	<0.050			
Organochlorine Pesticides	µg/L	Yearly	<0.5			
Organophosphate Pesticides	µg/L	Yearly	<0.5			

Point 6 - Groundwater Bore BH3

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			18.12.2024			
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			31.12.2024			
			Value	Value	Value	Value
Alkalinity (as calcium carbonate)	m g/L	Quarterly	472			
Biological Oxygen Demand	m g/L	Quarterly	<2			
Calcium	m g/L	Quarterly	18			
Chloride	m g/L	Quarterly	43			
Fluoride	m g/L	Quarterly	<1			
Iron	m g/L	Quarterly	0.12			
Magnesium	m g/L	Quarterly	47			
Manganese	m g/L	Quarterly	0.12			
Nitrate	m g/L	Quarterly	<1			
Nitrogen (ammonia)	m g/L	Quarterly	<0.5			
pH (In Situ)	pH Units	Quarterly	6.5			
Potassium	m g/L	Quarterly	17			
Sodium	m g/L	Quarterly	138			
Sulfate	m g/L	Quarterly	18			
Total Dissolved Solids	m g/L	Quarterly	608			
Total Organic Carbon	m g/L	Quarterly	7			
Total Phenolics	µg/L	Quarterly	<0.050			
Organochlorine Pesticides	µg/L	Yearly	<0.5			
Organophosphate Pesticides	µg/L	Yearly	<0.5			

Point 7 - Groundwater Bore BH4

Pollutant	Unit of measure	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			18.12.2024			
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			31.12.2024			
			Value	Value	Value	Value
Alkalinity (as calcium carbonate)	m g/L	Quarterly	DRY			
Biological Oxygen Demand	m g/L	Quarterly	DRY			
Calcium	m g/L	Quarterly	DRY			
Chloride	m g/L	Quarterly	DRY			
Fluoride	m g/L	Quarterly	DRY			
Iron	m g/L	Quarterly	DRY			
Magnesium	m g/L	Quarterly	DRY			
Manganese	m g/L	Quarterly	DRY			
Nitrate	m g/L	Quarterly	DRY			
Nitrogen (ammonia)	m g/L	Quarterly	DRY			
pH (In Situ)	pH Units	Quarterly	DRY			
Potassium	m g/L	Quarterly	DRY			
Sodium	m g/L	Quarterly	DRY			
Sulfate	m g/L	Quarterly	DRY			
Total Dissolved Solids	m g/L	Quarterly	DRY			

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Total Organic Carbon	mg/L	Quarterly	DRY			
Total Phenolics	µg/L	Quarterly	DRY			
Organochlorine Pesticides	µg/L	Yearly	DRY			
Organophosphate Pesticides	µg/L	Yearly	DRY			