

Environmental Monitoring at Matuail Landfill site

Water Quality Monitoring

A. Ground water monitoring data (1st March 2022):

Ground Water Sample	Sample collected (Bore Hole near car wash facility)	Ground water quality Standard
pH	8.08	6.5-8.5
Dissolved Oxygen, DO (mg/L)	7.83	7-8



Figure: Ground water sampling location

B. Surface water monitoring data (1st March 2022):

Surface water sample values				
Parameter	Sample collected from West side	Sample collected from South East side	Sample collected from North side	Effluent Discharge Standard
pH	8.1	7.84	8.36	9-Jun
Dissolved Oxygen, DO (mg/L)	5.1	2.75	7.94	4.5-8



Figure: Surface water sampling location

Landfill Gas Monitoring

A. Measured data (Area – A):

Gas emission monitoring data								
Zone	ID	DATE	CH4(%)	CO2(%)	O2(%)	Other Gases(%)	H2S(ppm)	CO(ppm)
Area A	A2	1st March 2022	4.7	15	6.7	73.6	0	0
	A16		5.5	5.9	16	72.6	0	0
	A6		1.9	1.8	18.8	77.5	0	0
	A7		34.8	25.7	6.6	32.9	2	1
	A12		1	1.5	18.5	79	0	0
	A14		4.1	3.2	18	74.7	3	1



Figure: Selected Gas vent pipes for monitoring. (Area A)

B. Measured data (Area – B):

Gas emission monitoring data								
Zone	ID	DATE	CH4(%)	CO2(%)	O2(%)	Other Gases(%)	H2S(ppm)	CO(ppm)
Area B	B19	1st	0.3	1	19.8	78.9	0	0
	B10	Marc	0.2	1.3	19.4	79.1	0	0
	B3	h	2.6	3.7	17.7	76	0	1
	B7	2022	1.4	2.7	18.1	77.8	0	0



Figure: Selected Gas vent pipes for monitoring. (Area B)