



Mr Guy Baskerville
Natural Resources Wales (NRW)

Cambria House
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BY EMAIL

Dear Guy,

Resources Management (UK) Limited - WITHYHEDGE LANDFILL SITE
4th Quarterly Monitoring Report 2022

Please find enclosed a summary of the monitoring data for leachate, groundwater, surface water and landfill gas collected at Withyhedge Landfill Site for the 4th Quarter of 2022, review period October to December 2022. This letter summarises the main findings with reference to the compliance limits set in the Site Permit (reference EPR/MP3330WP, previously GP3630HT/V005).

LEACHATE

Leachate Volume

A total of 4147.36 tonnes of leachate were removed off-site during the period October to December 2022.

Leachate levels

Leachate level monitoring data for this quarter, consistent with the requirements in Table S4.1 of the Permit, are provided in the Site Monitoring Worksheets.

There were no exceedances of the compliance limits during the review period October to December 2022.

However, the total leachate volume extracted from boreholes LE1-LE6 was lower than the total monthly limits of 106 m³/month at 26 m³, 24 m³ and 27 m³ for the months of October, November, and December respectively. The low extraction is the result of the low levels of leachate in the wells. The leachate pumps only work when the leachate levels in the wells are greater than 0.8m.

Leachate quality

Leachate quality monitoring data is provided in the Site Monitoring Worksheets and will be reviewed as part of the Annual Report as required by Condition 4.9 of the Permit.

GROUNDWATER

Groundwater level

Groundwater levels are recorded monthly and are provided in the Site Monitoring Worksheets.

Groundwater quality sampling

Groundwater quality sampling is undertaken on a monthly and quarterly basis in accordance with Table S4.5 and Table S4.11 of the Permit. The groundwater quality monitoring data has been assessed against the compliance limits set in the Permit and are provided in the Site Monitoring Worksheets.

There were no exceedances of the compliance limits during the review period October to December 2022.

SURFACE WATER

Surface water is monitored monthly in accordance with Table S4.3 and Table S4.10 of the Permit and the surface water quality data is the Site Monitoring Worksheets.

There were no exceedances of the compliance limits during the review period October to December 2022.

LANDFILL GAS

CO₂, CH₄ and O₂ are monitored on a fortnightly basis in all gas collection wells and any other (in-waste) gas monitoring points as specified in Table S4.8 of the Permit. The remaining locations are monitored monthly as specified in Table S4.6 and S4.8 of the Permit. The results of landfill gas monitoring are provided in the Site Monitoring Worksheets.

There were no exceedances of the compliance limits during the review period October to December 2022 except for one methane concentration of 1.3% in comparison to the limits of 1% in BH17 during the November monitoring round. BH17 is located to the south of the site at a great distance from any of the landfilling area. The landfilling activities cannot be the cause of this exceedance considering the borehole location and elevation. There are no other activities that can be a possible cause of the methane elevated concentration except a recent storage of topsoil material in the vicinity. This topsoil was stripped from the northern area of the site to allow the excavation of clay material beneath it, to be used as a liner for future cells. The topsoil material contains some organic matter and high in moisture contents. It is most likely that this topsoil is the source of this slightly elevated methane concentration. It should be noted that the November monitoring shows the methane detection in this borehole.

Engines Emissions

The engines are monitored for oxides of nitrogen, carbon monoxide on a quarterly basis in accordance with table S4.2 of the permit. The results of the quarterly engines monitoring are provided in the Site Monitoring Worksheets



I trust that the above meets your requirements; please do not hesitate to contact me if you have any queries.

Yours sincerely,

Phil Ridley

Business development Director

The Dauson Environmental group.