



A Member of the Dauson Environmental Group Ltd

Resources Management (UK) Ltd.
Withyhedge Landfill & MRF
Rudbaxton, Haverfordwest
Pembrokeshire SA62 4DB

Telephone 01437 741000

Ms Ffion Thomas
Natural Resources Wales (NRW)
Cambria House
29 Newport Road
Cardiff
CF24 0TP

13th September 2022

BY EMAIL

Dear Ffion

Resources Management (UK) Limited - WITHYHEDGE LANDFILL SITE
2nd 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 2nd Quarter of 2022, review period April to June 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 2417.62 tonnes of leachate was removed off-site during the period April to June 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 April to June 2022

However, the total leachate volume extracted from boreholes LE1-LE6 was lower than the total monthly limits of 106 m³/month at 35 m³, 41 m³ and 36 m³ for the months of April, May, and June 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 on a monthly basis 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.

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here were no exceedances of the compliance limits during the review period April to June 2022 with the following exceptions:

AIGBH105:

The concentration of ammoniacal nitrogen in this borehole exceeded the limits of 0.5 mg/l at a concentration of 0.89 mg/l in the May monitoring. However, both the April and the June concentrations were below this limit at 0.44 mg/l and 0.25 mg/l respectively. No action is proposed due to the lower value in the last monitoring round.

The concentration of cadmium was 0.0187 mg/l greater than the limit of 0.002 mg/l as stated in the permit. We have however noticed that potters reported concentrations of 0.0087, 0.011 and 0.0048 mg/l in the first quarter report but commented that there were no exceedances. Therefore, we are wondering whether this limit was changed at some point in agreement with NRW.

The permit states "Cadmium Limit - 0.002mg/l or other limit agreed in writing with the Environment Agency and in accordance with improvement condition reference 7b of Table S1.3". We have been advised of revised limits for several determinands provided by NRW, but they did not include Cd in this location. Therefore, we seek clarification from NRW on this matter as higher concentrations of cadmium in this location were not reported as exceedances in previously submitted reports.

A concentration of 1.3 mg/l of Nickel was also found in comparison to the limits of 0.031 mg/l. We did note that debris had collected adjacent to this borehole. As the area was isolated due to construction work, this was not noticed by the management team and had degraded. This has now been removed and latest testing confirms that concentrations are returning to baseline.

BH20

A concentration of 0.144 mg/l of Nickel was also identified in BH20 in comparison to the limit of 0.05. Again, potters reported a value of 1.2 mg/l but stated no exceedance. We would be grateful for a clarification on whether this limit was changed at some point in agreement with NRW.

SURFACE WATER

Surface water is monitored on a monthly basis 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 April to June 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 on a monthly basis 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 April to June 2022.

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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

Phil Ridley

Business & Development Director

Dauson Environmental Group.