

Your ref: DP3733BK

Our ref: 14739/3505/CBH/RHT/VKR/AREA 2 GAS

11th April 2019

PPC Team
Natural Resources Wales
Rivers House
Fortran Road
St Mellons Business Park
Cardiff
CF3 0EY

Attn: Mr David Willey

Dear David

RE: DP3733BK - DOCKSWAY DISPOSAL SITE. LATEST AREA 2 GAS MONITORING RESULTS, ROUND 178.

We write to provide the latest gas monitoring report for Area 2 of Docksway Disposal Site. Gas monitoring is required on a quarterly basis at Area 2 of Docksway Disposal Site, in accordance with the Environmental Permit EPR/DP3733BK.

We enclose with this report data sheets showing the results collected in December 2018 (i.e. Round 178).

Gas monitoring wells are installed at approximately 100m intervals around the Area 2 landfill perimeter and there are currently fifteen available monitoring wells. Fourteen wells were monitored during Round 178. Borehole GP18_18A was recorded as being inaccessible during Round 178.

Trigger Levels

Trigger Levels for all the Area 2 wells are shown on the attached data tables.

Results Summary

The methane and carbon dioxide concentrations recorded at each of the gas monitoring wells in December 2018 are summarised on the attached data sheets.

The concentrations of methane and carbon dioxide did not exceed the well specific trigger levels at most of the Area 2 wells monitored during round R178. The exceptions to this are GP03_06 and GP05_17 which recorded peak (3.0%v/v and 1.5%v/v respectively) methane concentrations that exceed the trigger level (1%v/v for both), whilst steady state concentrations remained below the trigger levels. Also, GP05_16 and GP09_18 which recorded both peak (8.1%v/v and 17.3%v/v respectively) and steady state (7.7%v/v and 16.3% respectively) methane concentrations that exceed the trigger level (1%v/v for both).

Monitoring wells GP09_18B and 18C indicate elevated concentrations of methane, at 89.5%v/v and 81.1%v/v respectively, at significantly higher concentrations than recorded in GP09_18

J:\14739\075-Interim Reporting\2018-2019 Monitoring data\Reports Area 2\R178 - Dec 2018\Docksway Area 2 Gas.docx

Registered Office: Peter Brett Associates LLP, Buckingham Court, Kingsmead Business Park, London Road, High Wycombe, Bucks HP11 1JU
Peter Brett Associates LLP is a limited liability partnership and is registered in England and Wales with registered number OC334398.
A list of members' names is open to inspection at our registered office.

at 16.3%v/v. The cause of the elevated methane at this location is currently unknown and under ongoing investigation.

Concluding Remarks

In general, it is considered that the results obtained from this round of gas monitoring are within the range of results obtained since commencement of monitoring with the exception of GP09_18 where elevated methane concentrations have been recorded for the last 24 months and investigations are ongoing, and GP05_16 which has recorded its first exceedance of the methane trigger level.

NCC will continue to undertake Area 2 perimeter gas monitoring on a quarterly basis and PBA will continue to provide factual reports to NRW on a quarterly basis.

Yours sincerely



Kate Riley
Associate
For and on behalf of
PETER BRETT ASSOCIATES LLP

Cc. Jonathan Davey – NCC (Docksway Disposal Site)

Enc. Gas Monitoring Data Tables