



Your Ref: DP3733BK

Our Ref: 49428/3501/CBH/VKR/NC/AREA 2 GAS

19<sup>th</sup> November 2020

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

**Attn: Tyrone Ward**

Dear Tyrone,

**Re: DP3733BK – Docksway Disposal Site. Latest Area 2 Gas Monitoring Report, Round 199, September 2020.**

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 a data sheet showing the results collected in September 2020 (Round 199).

Gas monitoring wells are installed at approximately 100m intervals around the Area 2 landfill perimeter and there are currently fifteen available monitoring wells. All of the fifteen wells were monitored during Round 199.

#### 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 September 2020 are summarised on the attached data sheet.

The concentrations of methane and carbon dioxide did not exceed the well specific trigger levels at the majority of the Area 2 wells monitored during Round 199. The exceptions to this are exploratory wells GP05\_17 (marginal exceedance at 1.5% v/v), GP05\_20 (16% v/v), and GP09\_18, 18A, 18B & 18C.

Monitoring wells GP09\_18, 18A, 18B & 18C indicate elevated concentrations of methane, at significantly varying concentrations (up to 40.9% v/v) with corresponding depleted oxygen, and at the same time

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none of the recorded exceedances of carbon dioxide. GP09\_18 started recording significantly elevated concentrations of methane in late 2016 and additional wells GP09\_18A, B and C were installed in early 2018 around the original monitoring well. The cause of the elevated methane at this location is currently unknown.

Monitoring well GP05\_20 recorded concentrations of methane at 16% compared to a trigger level of 1.5% v/v. This is an increase compared to previous monitoring visits and is the highest concentration ever recorded at this location.

#### 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 GP05\_20, which has shown the highest concentration of methane recorded at this location, and GP09\_18, 18A, 18B and 18C where elevated methane concentrations have been recorded within this area since March 2016.

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

Yours sincerely



**Kate Riley**  
**Associate**  
on behalf of Stantec UK Ltd

Encls: Gas Monitoring Report Table

CC: Silvia Gonzalez-Lopez – Newport City Council  
Robert Hughes – NCC (Docksway Disposal Site)  
Luke Embrey NCC