

From: Jones, Rebecca
Sent: 27 January 2023 14:19
To: Clapworthy, Dean
Subject: RE: Air Quality Assessment Screening Opinion - Faith in Nature, Radcliffe, 68873 - Biomass Boilers
Attachments: CL1015.270123.1.docx
Categories: Orange Category

Hi Dean,

Please find attached a copy of my comments and recommendations for conditions.

It's taken a bit of time to research biomass boilers.

Thanks,

Rebecca.

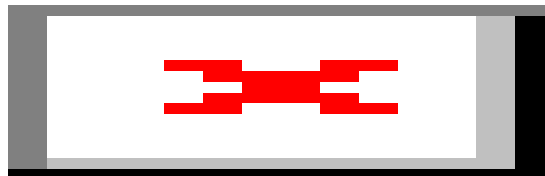
Rebecca Jones
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From: Clapworthy, Dean <D.Clapworthy@bury.gov.uk>
Sent: 04 January 2023 09:22

To: Jones, Rebecca <Rebecca.Jones@bury.gov.uk>

Subject: RE: Air Quality Assessment Screening Opinion - Faith in Nature, Radcliffe, 68873 - Biomass Boilers

Hello Rebecca,

Please find attached the air quality assessment for the above.

Hopefully, this will address the matters that need to be covered.

Cheers

Dean

Dean Clapworthy

Senior Planning Officer, Bury Council

Development Management, 3 Knowsley Place, Duke Street, Bury, BL9 0EJ

Telephone: 0161 253 5317

Email: d.clapworthy@bury.gov.uk Web: www.bury.gov.uk

From: Jones, Rebecca

Sent: 17 November 2022 12:02

To: Elliott Lamond <Elliott.lamond@red-env.co.uk>

Cc: Clapworthy, Dean <D.Clapworthy@bury.gov.uk>

Subject: RE: Air Quality Assessment Screening Opinion - Faith in Nature, Radcliffe, 68873 - Biomass Boilers

Elliot,

Thank you for providing a proposal to undertake a detailed air quality assessment on the potential impact on local air quality of the installation of biomass boilers at the Faith in Nature site. The basic scope for the detailed assessment appears reasonable. Please ensure that the cumulative emissions of all the boilers running at the same time are considered.

Please note that the site is located within a Smoke Control Area (Borough of Radcliffe No.5 Smoke Control Order 1968), within which it is an offence to emit a substantial amount of smoke from a chimney. The recent Environment Act 2021 (EA 2021) has amended the Clean Air Act 1993 (CAA) and the Environmental Protection Act 1990 (EPA 1990) to introduce civil financial penalties, remove statutory defences of using an exempt appliance or authorised fuel, and allows the use of statutory nuisance legislation for smoke emissions.

When considering the impact of the boilers on local air quality and potential mitigation measures, please also consider any odours that may be created, and which may affect local residents especially during start up and shut down. Any future complaints would be dealt with under Statutory Nuisance legislation. If odour nuisance was found to be caused during operation of the boilers, then potentially costly abatement may be required to be installed.

Please note that the height of any chimney/stack installed would be expected to be at least 1m higher than the Apex of the building and not less than 6m from ground level.

Additionally, please find below links to our monitoring data and information about the proposed Greater Manchester Clean Air Zone:

- Greater Manchester Combined Authority (GMCA) - GMCA (2015) *Air Quality Annual Status Report*. The Annual Status Report 2021 which can be found on the Clean Air GM website: <https://cleanairgm.com/data-hub/monitoring-reports/>
- Bury Council's latest NOx tube results - [Monitoring reports | Clean Air Greater Manchester \(cleanairgm.com\)](#)
- Bury Council's latest Automatic Monitoring Stations (AURN) results. - [Monitoring reports | Clean Air Greater Manchester \(cleanairgm.com\)](#)
- The 'UK Plan for Tackling Roadside NO₂', published in July 2017, identified Bury Council as an area having one or more roads with concentrations of NO₂ above statutory limits, according to more recent modelling results. Bury is therefore required to address these exceedances and we are currently engaging with Government on our proposed plans to reduce NO₂ concentrations across the borough. For further information on progress with this please see [Home | Clean Air Greater Manchester \(cleanairgm.com\)](#).

Regards,

Rebecca.

Rebecca Jones
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From: Elliott Lamond <Elliott.lamond@red-env.co.uk>

Sent: 15 November 2022 10:39

To: Jones, Rebecca <Rebecca.Jones@bury.gov.uk>

Subject: Air Quality Assessment Screening Opinion - Faith in Nature, Radcliffe

Good afternoon Rebecca,

We have been instructed to undertake an Air Quality Assessment in support of a planning application for the installation of nine biomass boilers at the Faith in Nature facility in Radcliffe. I have attached a site location plan for your reference. I am writing to confirm our proposed methodology, detailed below, and ask if you would let us know if you have any comments or would like us to include anything further.

Baseline

Baseline air quality conditions in the vicinity of the site will be defined based on recent monitoring results and information from the Department for the Environment, Food and Rural Affairs (DEFRA) Air Quality Resource. Sensitive locations that could be affected by the proposals will also be identified, as well as any relevant planning policies or guidance.

Dispersion Modelling

It is proposed to undertake detailed dispersion modelling of pollutant concentrations as a result of atmospheric emissions from the proposed biomass boilers using ADMS-5 in order to:

- Quantify pollutant concentrations in the vicinity of the site; and,
- Assess the significance of predicted impacts at human receptors.

It is proposed to undertake assessment of the following pollutant species:

- Nitrogen dioxide (NO₂); and,
- Particulate Matter with an aerodynamic diameter of less than 10µm (PM₁₀); and,
- Particulate Matter with an aerodynamic diameter of less than 2.5µm (PM_{2.5}).

Modelling will be undertaken in accordance with the principles of Environment Agency guidance 'Air emissions risk assessment for your environmental permit' and will utilise 5-years of local meteorological data, building geometries for all proposed and existing structures and terrain height information. Contour plots of pollutant levels throughout the modelling domain will be produced in order to provide visual consideration of potential impacts.

The modelling results will be compared against the relevant Air Quality Objectives to provide an assessment of any effect. The significance of predicted impact will be defined using the criteria provided in the Institute of Air Quality Management document 'Land-Use Planning & Development Control:

Planning for Air Quality'. This will provide an indication of the potential for emissions associated with the biomass boilers to cause air quality impacts in the vicinity of the site.

Mitigation

If required following assessment of potential impacts, suitable mitigation measures will be identified in order to reduce air quality effects to an appropriate level.

Thank you and I look forward to hearing from you soon,

Kind regards,

Elliott Lamond

Graduate Air Quality Consultant
Redmore Environmental Ltd

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