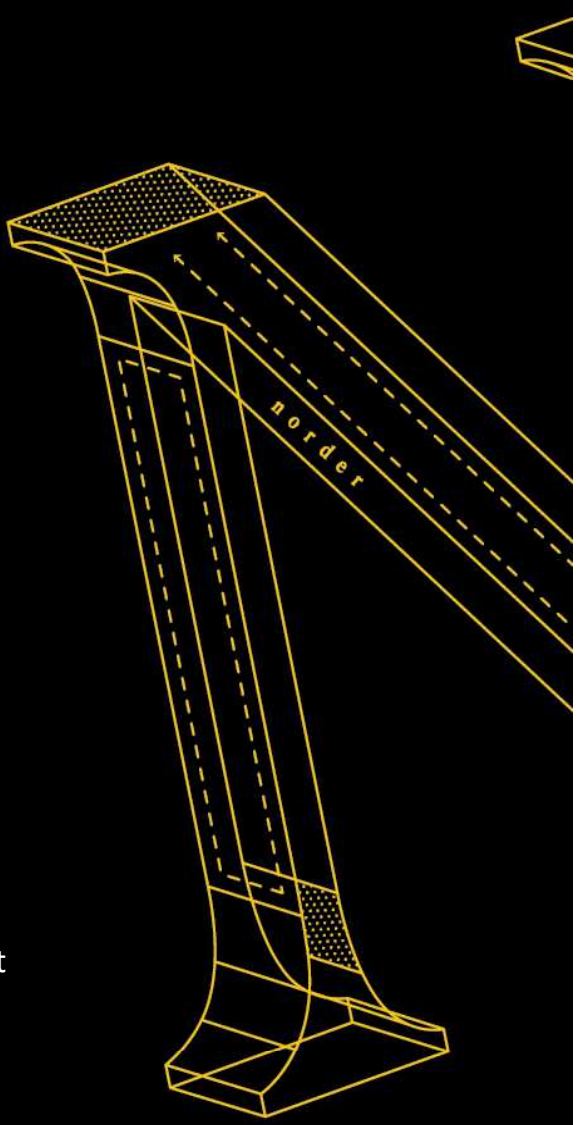
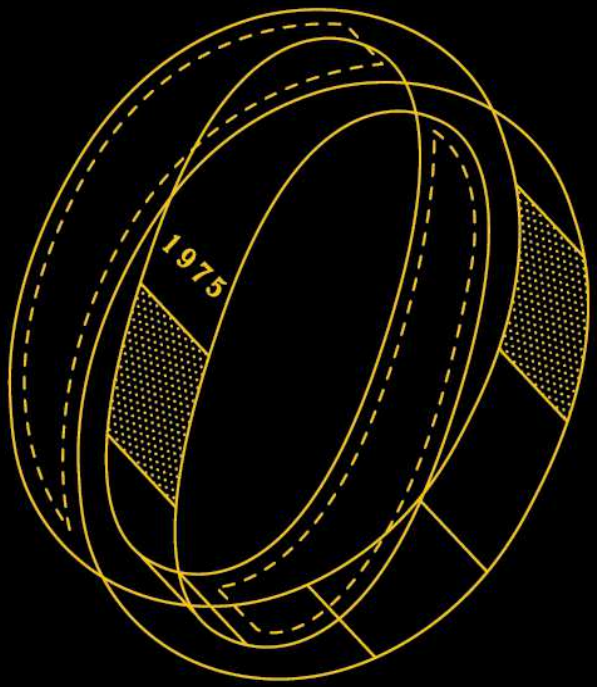
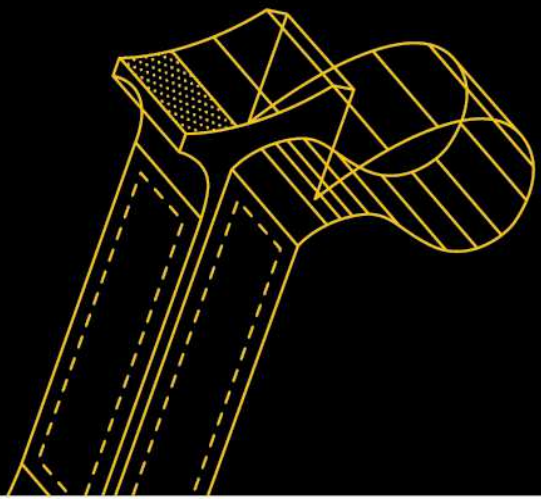
Norder

Engineers. Architects. Innovators.



Client:	Heineken UK
Project Title:	Manchester Brewery CO2 & Vapour Extraction Project
Document Title:	Design and Access Statement
Document No.:	9193-NDA-ZZ-XX-RP-A-8301





Norder Design Associates Ltd. Beech Lawn, Green Lane, Belper, Derby, DE56 1BY

Tel. 01773 824414 | enquiries@norder.co.uk | norder.co.uk

Document Control

Project Number:	9193				
Project Title:	Heineken Manchester, CO2 & Vapour Extraction Project				
Document Number:	9193-NDA-ZZ-XX-RP-A-8301				
Document Title:	Design and Access Statement				
Date	Revision	Prepared by	Signature	Checked By	Signature
11.06.24	P1	S. Wheatcroft		A. Woolf	

bsi ISO 9001 Quality Management Systems CERTIFIED
FS 542858

bsi ISO 14001 Environmental Management CERTIFIED
EM5 60379

bsi ISO 45001 Occupational Health and Safety Management CERTIFIED
OHS 703698 - I

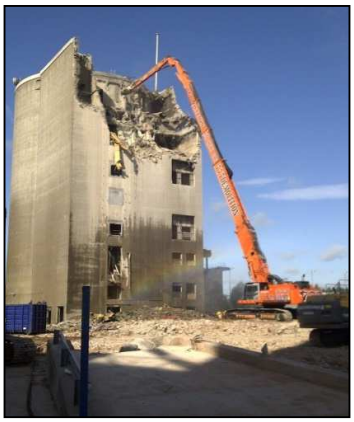
TABLE OF CONTENTS

Page. No.

1 ASSESSMENT 1
2 DEVELOPMENT DESCRIPTION 2
3 FLOOD RISK ASSESSMENT 3
4 USE 6
5 AMOUNT 6
6 LAYOUT 7
7 SCALE 7
8 LANDSCAPING 7
9 APPEARANCE 8
10 ACCESS 8

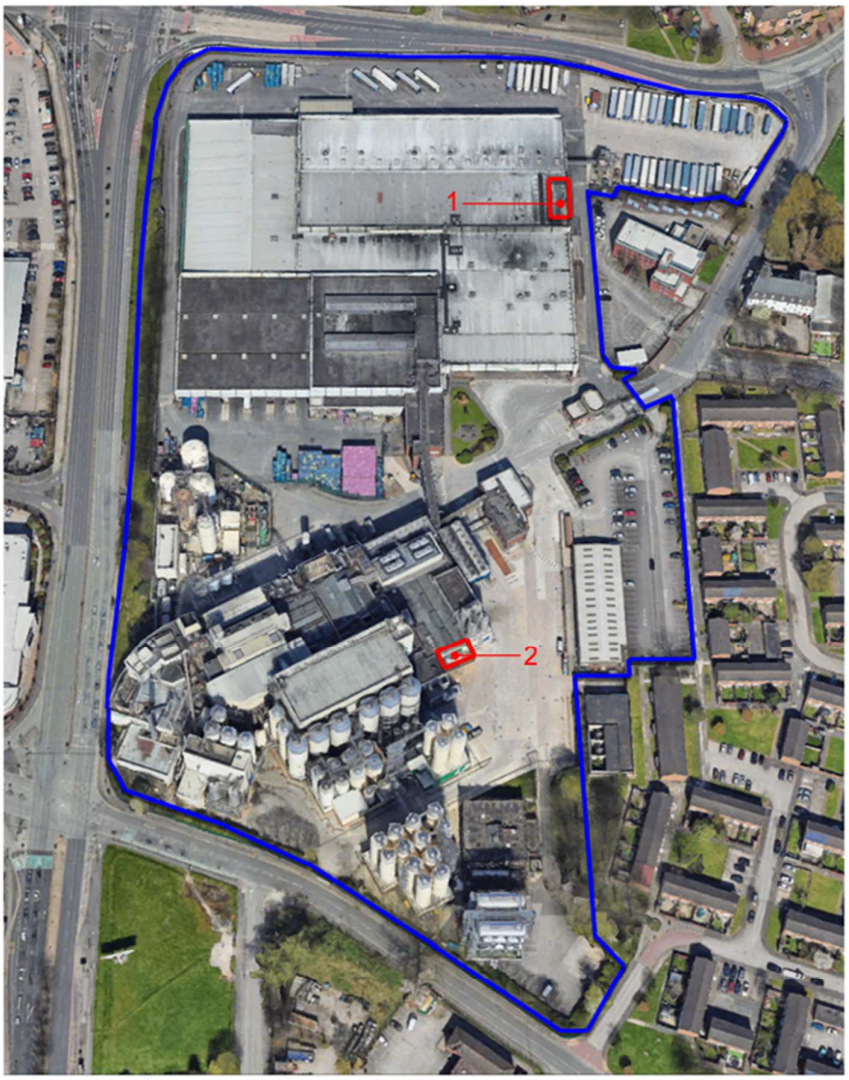






1 Assessment

This Design & Access Statement has been prepared on behalf of the applicant, Heineken UK, Manchester, in support of a planning application for installation of 2 no. replacement CO2 extract vents at roof level in the existing Packaging Building (see 1 below) together with a new vapour extraction system in the existing Filter Room (see 2 below).



Heineken Brewery, Manchester – Site Aerial View

Heineken Site Boundary

1. Site of the proposed CO2 Extraction
2. Site of proposed Vapour Extraction

N

The site is located approximately 1.5 kilometres south of Manchester City Centre, in an area bounded by Princess Road, Greenheys Lane, Charles Halle Road/Denmark Road and Moss Lane East. The site in centred on National Grid Reference 383950, 39600 and lies within the jurisdiction of Manchester City Council.

The proposal site area 1 for the CO2 extraction works is estimated at 204 sq.m, and for the Vapour extraction works is estimated at 70 sq.m. The surrounding area is all part of the overall Heineken Manchester Brewery and the Brewery site area is outlined in blue. Please refer to Site Location Plan (9193-NDA-ST-XX-DR-A-1001 P3).

The site has been used for Brewing and Packaging for many years and has been subject to progressive extensions over this period.

The surrounding area comprises urban development in all directions with a mix of industrial, commercial, retail and residential land uses as follows:

- North: Greenheys Lane bounds the Brewery site immediately to the north with residential properties north of the road.
- East: East of the Brewery site are residential properties, two schools, a Council Depot and a Police Station.
- South: Moss Lane East bounds the Brewery site immediately to the south, beyond which are community buildings, residential properties together with an area of land that is scheduled for further development.
- West: Immediately to the west of the Brewery site is Princess Road, with large scale retail (Asda) and business premises, beyond which lie extensive residential areas.

2 Development Description

This application seeks full Planning Permission for the installation of 2 no. replacement CO2 extract vents at roof level in the existing Packaging Building together with a new vapour extraction system in the existing Filter Room.

2no. CO2 extract vent stacks currently exist and penetrate the east facing façade of the existing Packaging Building. The performance of the existing CO2 extraction

system has degraded over time and does not meet modern standards therefore, for safety reasons, the CO2 extraction system must be upgraded to modern standards. The existing CO2 extract stacks will be decommissioned, and new stacks relocated to allow vertical discharge through the roof to 2m above roof level.

The 2no. existing Filters in the Filter Room are cleaned and sterilised on a regular basis. During the clean and sterilise process, water vapour rises from the filter and causes a damp environment. For safety reasons, an extraction system must be installed to remove the water vapour during this process, extracting it to atmosphere 2m above roof level. An air handling unit will also be installed to replace the extracted air with warm make-up air.

There will be no increase in HGV activity on the site as a result of this proposal.

NOISE - The noise levels for the proposed new extract vents and associated equipment will be assessed by our Acoustic Specialist and details of any required mitigation measures to keep the noise levels within limits imposed by Manchester City Council shall be submitted in due course.

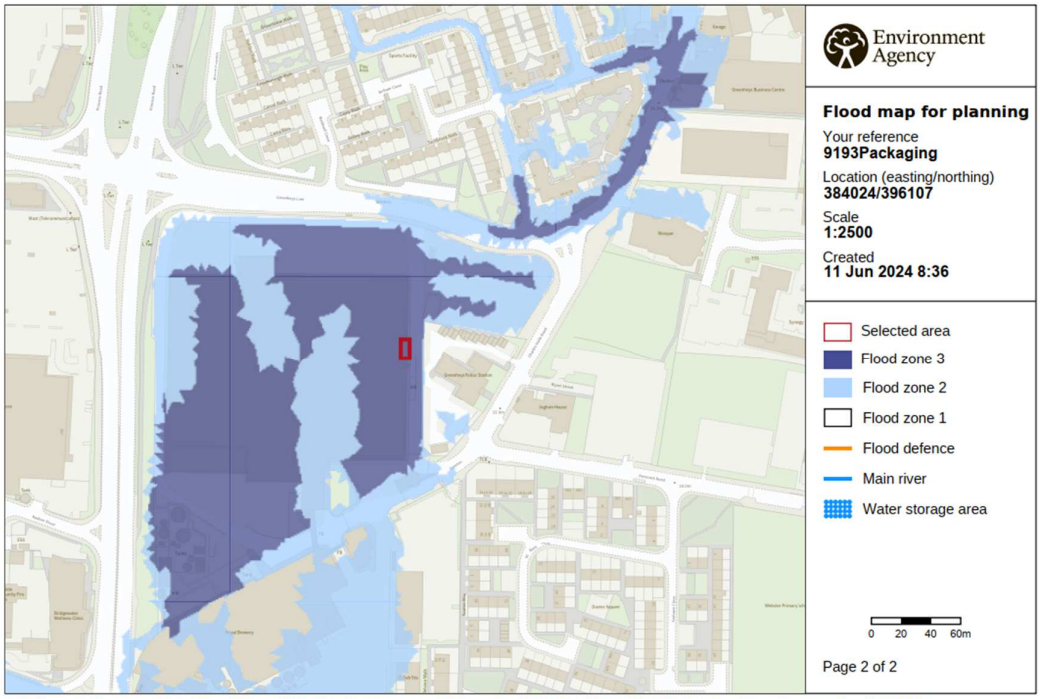
AIR QUALITY - Following an initial review of the process descriptions for this proposal, our Air Quality Specialist cannot identify any pollutants which may be of concern to public health.

3 Flood Risk Assessment

Information obtained from the Environment Agency Flood Maps are below and the proposal for the Packaging Building CO2 Extraction and Filter Room Vapour Extraction have been assessed separately as they fall in to different zones in terms of Flood Risk.

<u>CO2 Extraction in Packaging Building</u>

The Flood Map for the CO2 extraction proposal site at ground level is in a Flood Zone 3 area (see image on next page).



© Environment Agency copyright and / or database rights 2022. All rights reserved. © Crown Copyright and database right 2022. Ordnance Survey licence number 100024198.

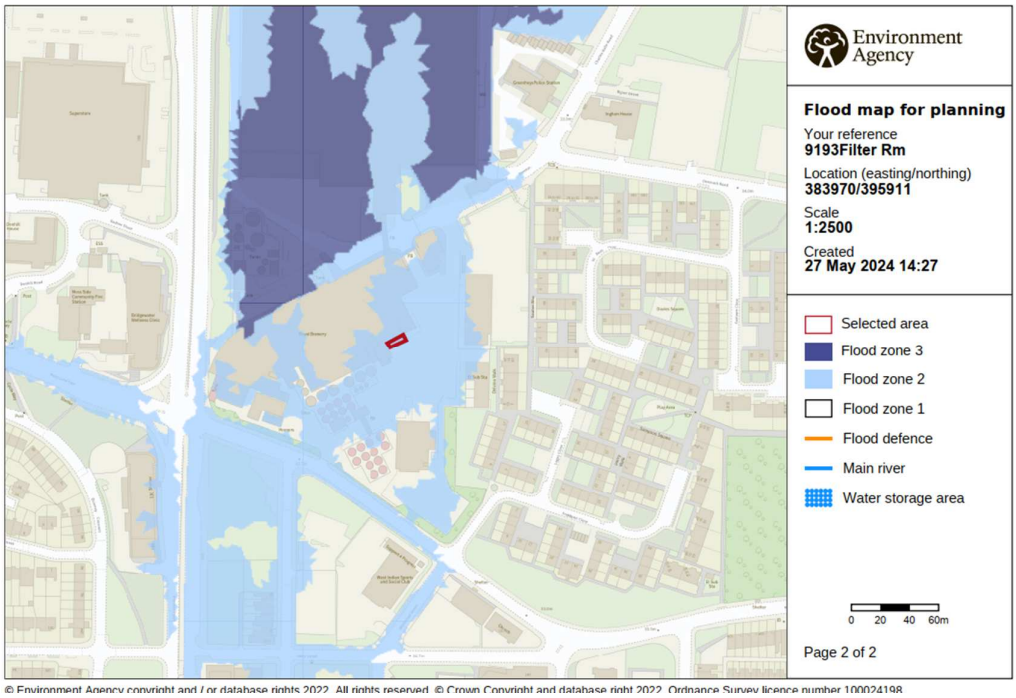
Flood Map for Planning Extract showing CO2 Extraction Site
Contains public sector information licenced under the Open Government Licence v3.0.

There are no ground mounted features within the proposal as it is roof level mounted extract pipework. The proposal involves the forming of new openings for the new CO2 extract vents, through an existing roof some 11m above existing ground level, therefore it is considered that the elevated proposal site is not within an area at risk from flooding and does not contribute to flooding elsewhere.

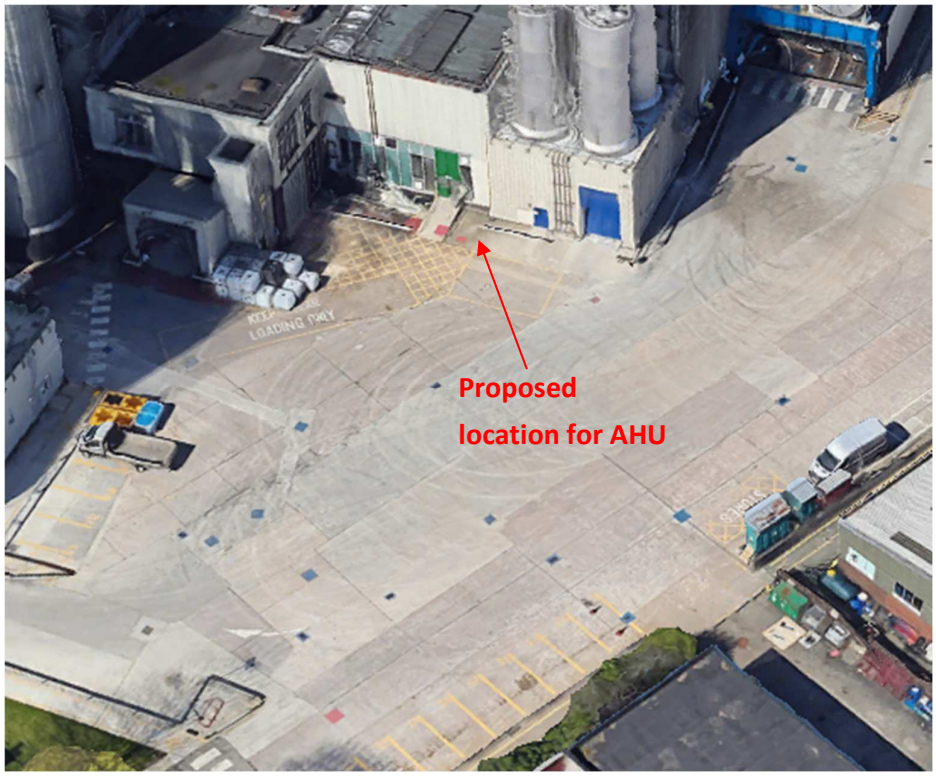
Vapour Extraction in Filter Room

The Flood Map for the Vapour extraction proposal site at ground level is in a Flood Zone 2 area (see image on next page).

The new air handling unit is the only piece of equipment that is mounted at ground level, which will be positioned on top of the existing external concrete yard slab as indicated on Aerial view on next page. The existing concrete paved yard slab is currently laid to falls to external yard gullies which connect into the existing below ground drainage system, therefore there will be no increase in the amount of rainwater drained to the existing system as a result of this proposal.



Flood Map for Planning Extract showing Filter Room Extraction Site
Contains public sector information licenced under the Open Government Licence v3.0.



Aerial View showing proposed location of new AHU
https://www.google.co.uk/maps/@53.4591528,-2.2415133,94a,35y,313.83h,47.79t/data=!3m1!1e3?entry=ttu
Accessed 11-06-24

4 Use

CO2 Extraction from Packaging Building

During the can filling process, cans are purged of ambient air by flushing with CO2. CO2 is also used immediately afterwards during the lid seaming process. To protect operators in the work area, a CO2 monitoring and alarm system, and a CO2 extraction system is in place. The performance of the existing CO2 extraction system has degraded over time and does not meet modern standards, therefore for safety reasons it is being upgraded to meet modern standards. The Mechanical Services drawing which illustrates and describes the overall CO2 extraction proposals has been submitted with the application - KEYIS drawing C1886-KEY-XX-DR-M-57-001 Rev P1.

Vapour Extraction from Filter Room

The filtration process removes any remaining solid particles, yeast and other impurities from beer after it has been brewed. The filters are cleaned and sterilised on a regular basis. During the clean and sterilise process, water vapour rises from the filter and causes a damp environment. For safety reasons, an extraction system must be installed to remove the water vapour during this process. An air handling unit will also be installed to replace the extracted air with warm make-up air. The Mechanical Services drawing which illustrates and describes the overall Vapour extraction proposals has been submitted with the application - KEYIS drawing Q3682-KEY-XX-DR-M-57-001 WIP.

5 Amount

The proposal comprises 2no. 450mm diameter CO2 extract ducts discharging vertically through the existing Packaging building roof to a discharge stack terminating at 2m above roof level.

The proposed 2no. 800mm diameter Filter Room vapour extract ducts will discharge horizontallty through the existing Filter Room building external wall, then turn vertically to discharge 2m above the existing Filter Room roof level.

6 Layout

The new CO2 extraction discharge vents will be relocated from their current position on the east facing façade of the existing Packaging Building to roof level above the existing filler lines 17 and 18.

For the new vapour extraction to the Filter Room, each of the 2no. existing filters will have newly installed extract ductwork above them to capture the water vapour. The ductwork will be routed at high level within the Filter Room, discharging horizontallty through the existing Filter Room building external wall, then turning vertically to discharge above the existing Filter Room roof level. The new vapour supply ductwork will be routed from the new externally located AHU, up the front (south east facing) external Filter Room façade and through the external wall at high level into the Filter Room to supply warm make up air to the inside of the Filter Room at high level.

7 Scale

The 2no. new 450mm diameter CO2 extract vent discharge stacks will protrude vertically above the existing Packaging Building roof line by 2.0m.

The 2no. new 800mm diameter Vapour extract vent discharge stacks will protrude vertically above the existing Filter Room building roof line by 2.0m.

8 Landscaping

There is to be no change to the existing landscaping.

9 Appearance

The majority of the new ductwork for both the CO2 Extraction and the Vapour Extraction will be installed within the existing respective building envelopes.

All external ductwork and discharge stacks will be made from stainless steel and will be supported on steel supports as necessary.

10 Access

There will be no changes to the current access strategy for the overall site.

9193/SW/Rev P1/11.06.24