

TEEE Committee

Scientific Team Update - AQAP



Scientific Team!!!

Air Quality
Contaminated Land
Permitting



Local Air Quality Management

The LAQM process places an obligation on all local authorities to regularly review and assess air quality in their areas, and to determine whether or not the air quality objectives are likely to be achieved.

Objectives contained in UK Air Quality Strategy implemented by Air Quality (England) Regulations 2000 (2002 as amended)

Pollutants of Concern

Particles (PM₁₀ and PM_{2.5}) – combustion / transport / crustal / sea salt / atmospheric reactions

Sulphur Dioxide (SO₂) – combustion of coal and heavy oil

Polycyclic Aromatic Hydrocarbons (PAHs) - industrial processes (coke production), transport, fires

Benzene – combustion processes and transport

1,3- butadiene – combustion of petrol, rubber manufacture

Carbon Monoxide – road transport, residential and industrial combustion

Lead - combustion of coal and also the manufacture iron and steel and non- ferrous metals

Nitrogen Dioxide (NO₂) – Road transport

Ammonia (NH₃) – Agricultural fertilisers

Ozone – complex reactions between pollutants and sunlight

Pollutant of Concern in NY

Nitrogen Dioxide (NO₂) – **Transport!**





NO₂ Measured using Diffusion Tubes

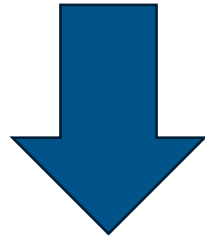
Objective:

Annual mean $40\mu\text{g.m}^{-3}$

Tubes located according to
Technical Guidance issued by
DEFRA

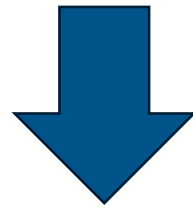
Must affect Relevant Receptor

Objective Level Exceedence



**Air Quality Management Area
(AQMA)**

Air Quality Management Area (AQMA)



Air Quality Action Plan (AQAP)

7 separate AQAPs in North Yorkshire produced by former District / Borough Councils

Review Required Every 5 Years

The AQMAs:

Bond End, Knaresborough

York Place, Knaresborough (To Revoke)

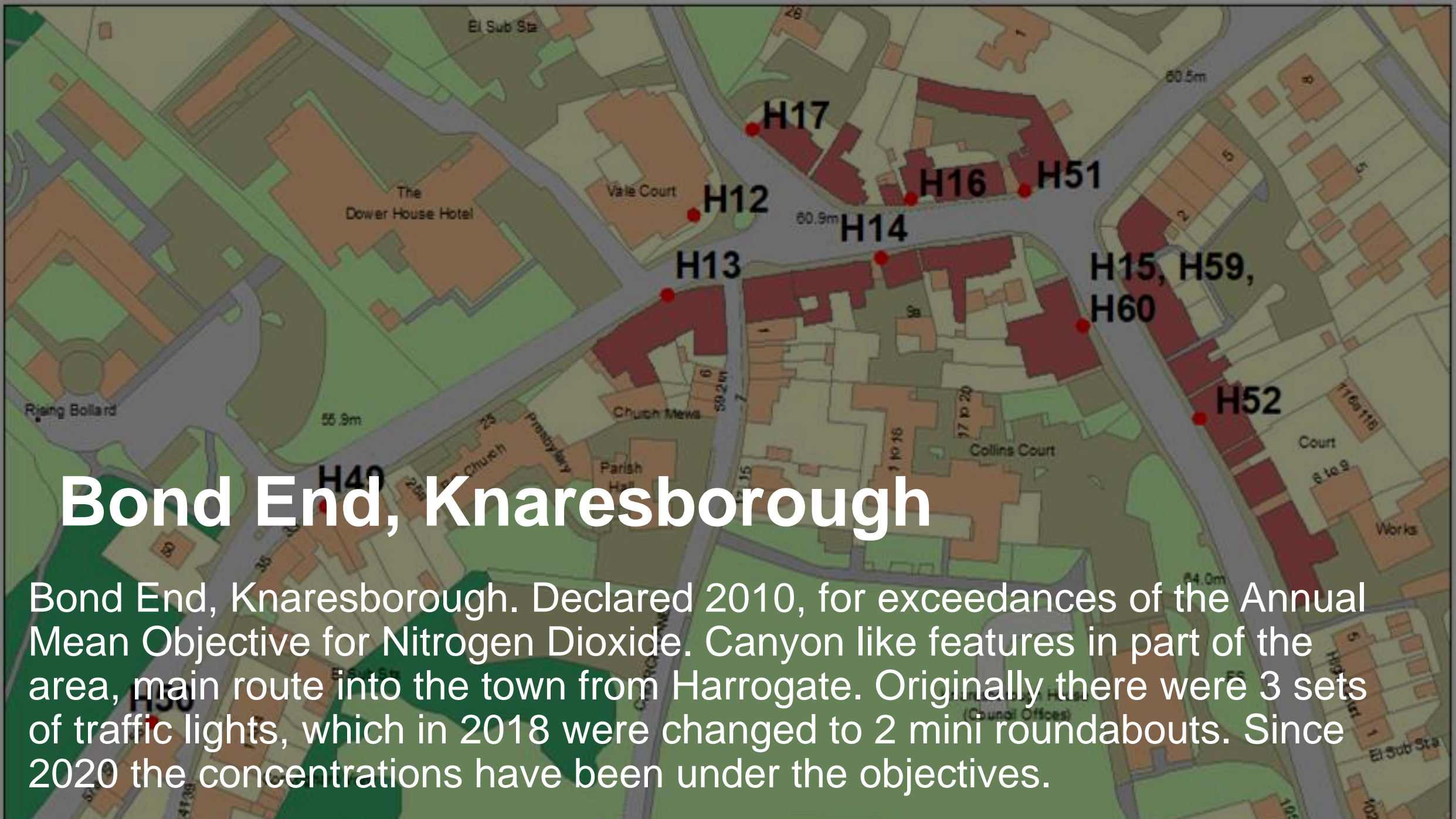
Wetherby Road, Harrogate

Low/High Skellgate, Ripon (To Revoke)

Selby – The Crescent / New Street

Malton – Town Centre (To Revoke)

Bedale – Town Centre



Bond End, Knaresborough

Bond End, Knaresborough. Declared 2010, for exceedances of the Annual Mean Objective for Nitrogen Dioxide. Canyon like features in part of the area, main route into the town from Harrogate. Originally there were 3 sets of traffic lights, which in 2018 were changed to 2 mini roundabouts. Since 2020 the concentrations have been under the objectives.

York Place, Knaresborough

York Place, Knaresborough. Declared 2017, for exceedances of the limit for NO₂. Canyon, at the other end of Knaresborough, with traffic lights at the NW end. About to be revoked so not covered in the AQAP.

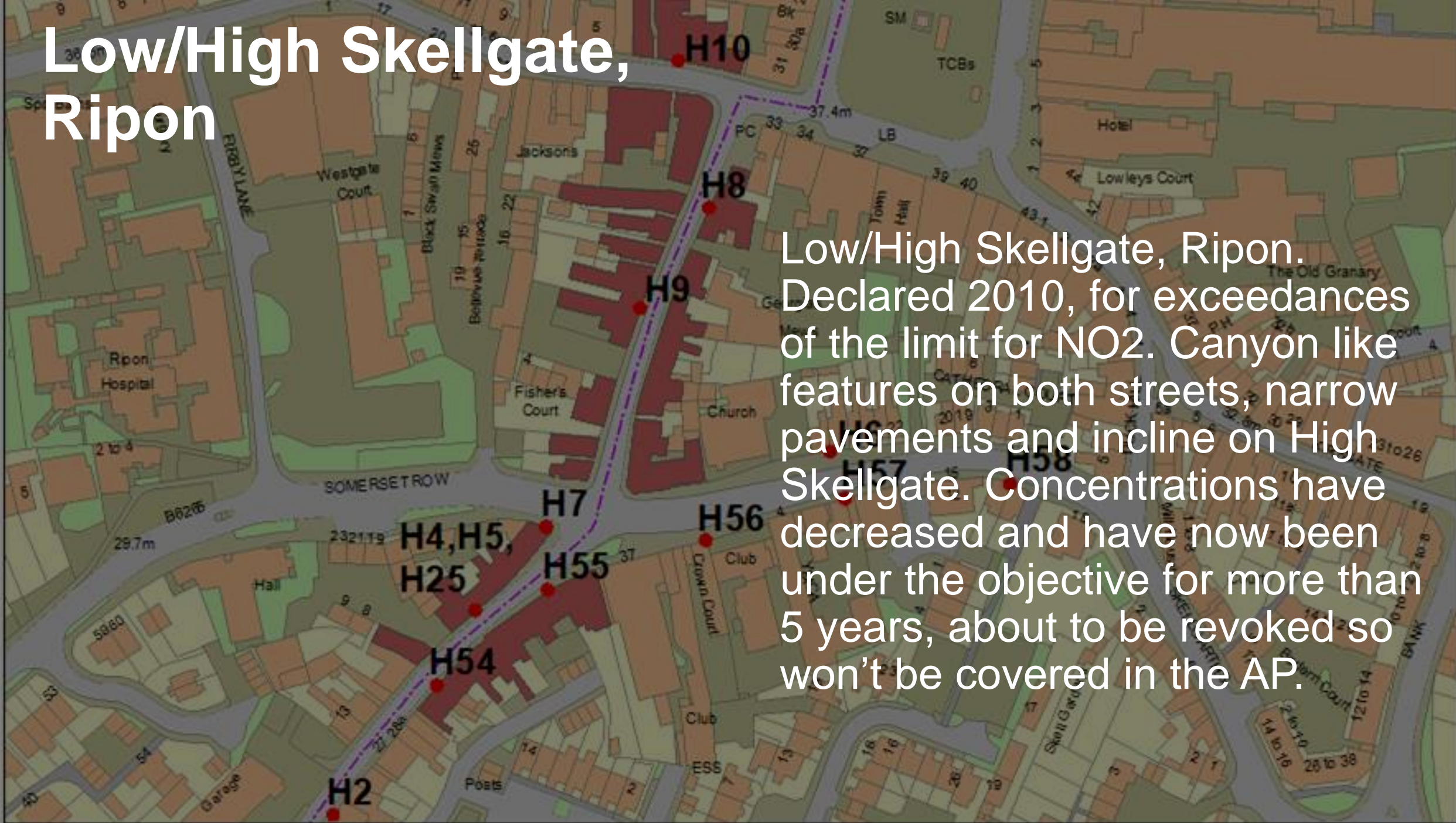


Wetherby Rd, Harrogate

Wetherby Rd, Harrogate. Declared 2017, for exceedances of the limit for NO₂ at the 1st floor flat above a Pub. Concentrations increased following a change in road layout, but have since decreased to under the objective.

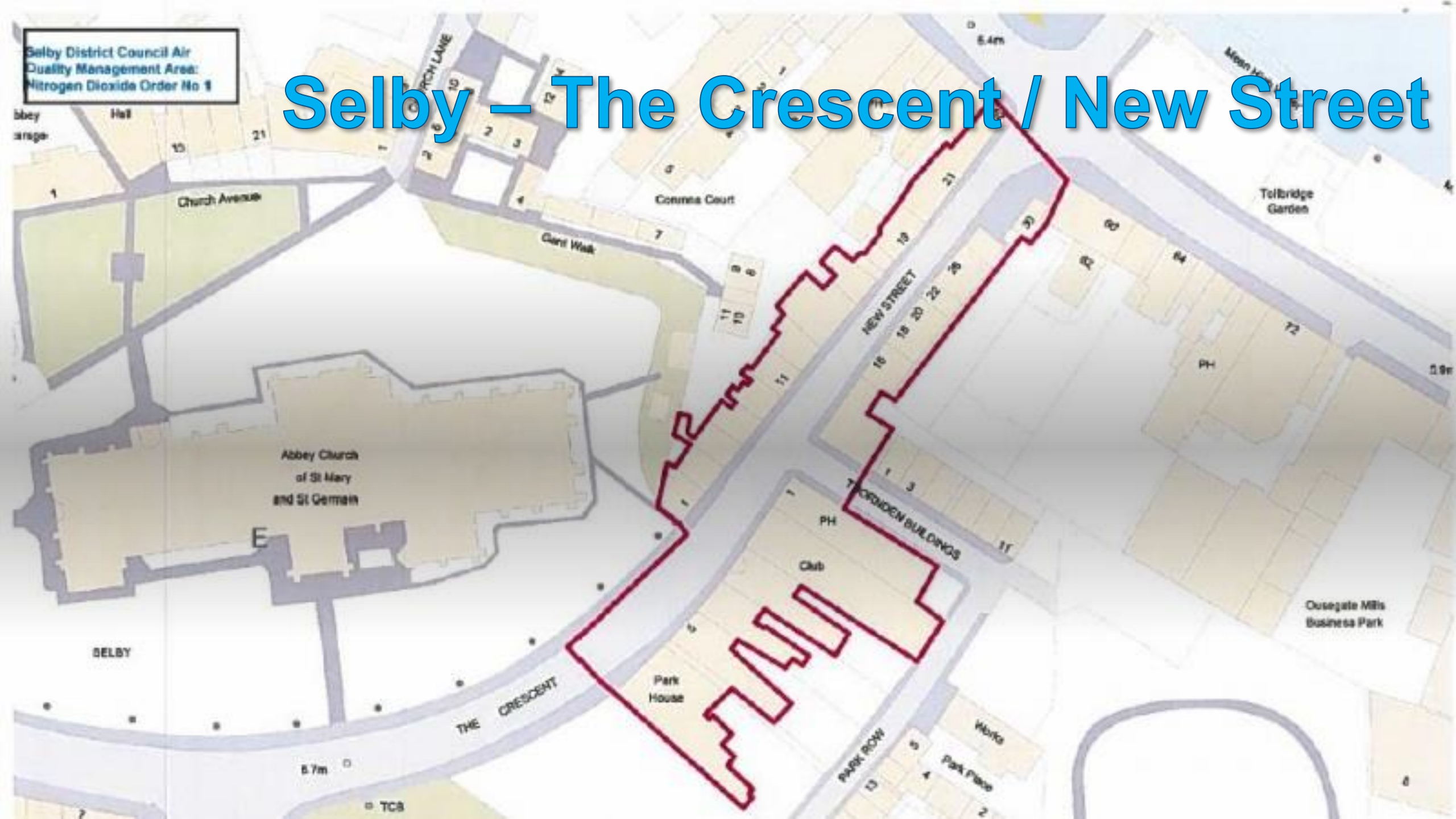
Low/High Skellgate, Ripon

Low/High Skellgate, Ripon. Declared 2010, for exceedances of the limit for NO₂. Canyon like features on both streets, narrow pavements and incline on High Skellgate. Concentrations have decreased and have now been under the objective for more than 5 years, about to be revoked so won't be covered in the AP.



Selby – The Crescent / New Street

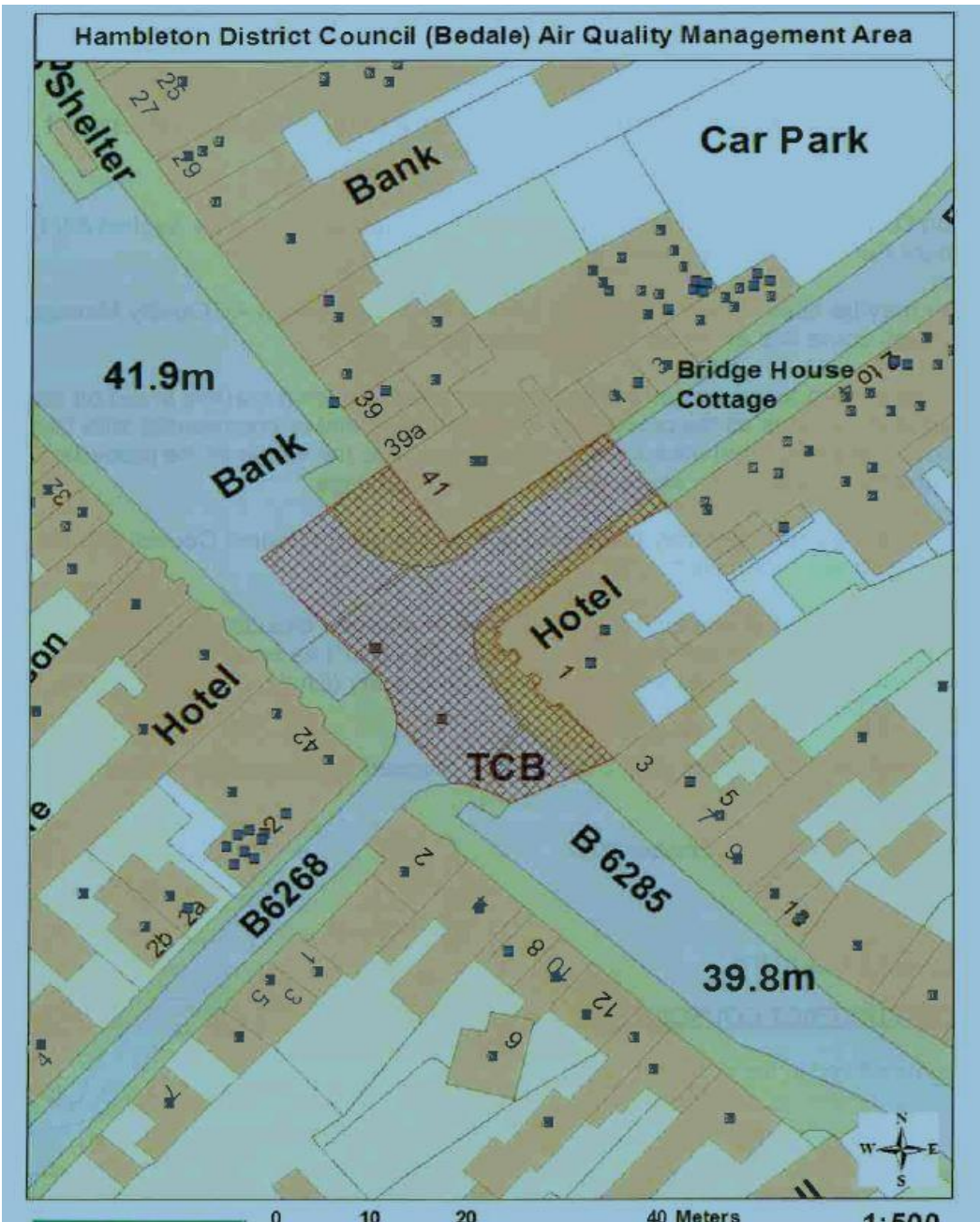
Selby District Council Air Quality Management Area: Nitrogen Dioxide Order No 1



A grayscale street map of Malton, showing a dense network of streets and buildings. A large, thick red 'X' is drawn over the map, crossing from the top-left to the bottom-right and from the top-right to the bottom-left. The word 'Malton' is written in white, bold, sans-serif font on the left side of the map. The word 'Text' is written in a smaller, black, sans-serif font in the center-right area of the map.

Malton

Text



Bedale

Progress and Impact of Measures to address Air Quality in North Yorkshire

Rely on partners to provide information

Present and Future AQ Work

1. Reports:

Draft AQAP – March 2024

Annual Status Report – June 2024

Final AQAP – September 2024

Present and Future AQ Work

2. Other:

Planning Consultations

Project Work With Partners

Health / Environmental Promotion Work

Environment Act 2021

Sets 2 ambitious, legally-binding targets to reduce concentrations of PM_{2.5}:

- an annual mean concentration target for PM_{2.5} of 10µg/m³ across England by 2040
- an average population exposure reduction target of 35% in 2040 compared to a 2018 baseline

Environment Act 2021

Local Authorities are required to work more cohesively to tackle air quality issues



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