



## 2016 Air Quality Annual Status Report (ASR)

In fulfilment of Part IV of the  
Environment Act 1995  
Local Air Quality Management

November 2016

North Dorset District Council

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## Executive Summary: Air Quality in Our Area

### Description of Local Authority Area

North Dorset is located in the south west of England, bordering Somerset and Wiltshire. It is predominantly a rural area comprising of five major market towns: Blandford Forum, Gillingham, Shaftesbury, Stalbridge and Sturminster Newton. The rural area of North Dorset covers 235 square miles. In the south and east of the District are the Dorset Downs and Cranborne Chase, both officially recognised as Areas of Outstanding Natural Beauty. The Blackmore Vale and Limestone Ridges occupies the northern and western part of the District. Appendix D shows the boundary of the District.

### Air Quality in North Dorset

Air pollution is associated with a number of adverse health impacts. It is recognised as a contributing factor in the onset of heart disease and cancer. Additionally, air pollution particularly affects the most vulnerable in society: children and older people, and those with heart and lung conditions. There is also often a strong correlation with equalities issues, because areas with poor air quality are also often the less affluent areas<sup>1,2</sup>.

The annual health cost to society of the impacts of particulate matter alone in the UK is estimated to be around £16 billion<sup>3</sup>.

North Dorset District Council has no monitoring sites within its boundaries. There are no sources (transport, other transport, industrial, commercial/domestic and fugitive) of concern within North Dorset.

### Actions to Improve Air Quality

A Detailed Assessment was completed in February 2016 for PM<sub>10</sub> at the HGV wash facility Gillingham. The report concluded that there are no grounds for further assessment of air quality in this location. No AQMA has previously been declared

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<sup>1</sup> Environmental equity, air quality, socioeconomic status and respiratory health, 2010

<sup>2</sup> Air quality and social deprivation in the UK: an environmental inequalities analysis, 2006

<sup>3</sup> Defra. Abatement cost guidance for valuing changes in air quality, May 2013

and no Action Plans have previously been required. As a consequence, it is not deemed necessary to undertake a Detailed Assessment at this time.

It is therefore proposed to submit this ASR; the next step will be the ASR in 2017.

## **Local Priorities and Challenges**

North Dorset District Council are working proactively with Development Control and local businesses by way of the permitting regime and Dorset County Council to ensure that air quality is continually reviewed. In addition, North Dorset District Council are involved with plans for a pan-Dorset PM<sub>2.5</sub> project with Dorset Public Health.

## **How to Get Involved and Local Community Action**

Our Local Plan states “Everyone has a role to play in tackling climate change and in adapting to its impacts. Community based initiatives such as local car share schemes, village hall investments, biofuel utilisation, community emergency support and renewable energy part ownership will be supported by the Council.

Neighbourhood plans may address the adaptation and mitigation of climate change at the community level as recognition that all neighbourhoods can contribute towards tackling climate change in a way which is appropriate to their local area.”

Dorset For You website <https://www.dorsetforyou.com/409048> includes measures the public can actively use to improve air quality within the area, these include matters such as interactive cycle maps, adult cycle training and walking routes and trails.

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## 1 Local Air Quality Management

This report provides an overview of air quality in North Dorset during 2015. It fulfils the requirements of Local Air Quality Management (LAQM) as set out in Part IV of the Environment Act (1995) and the relevant Policy and Technical Guidance documents.

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. Where an exceedance is considered likely the local authority must declare an Air Quality Management Area (AQMA) and prepare an Air Quality Action Plan (AQAP) setting out the measures it intends to put in place in pursuit of the objectives. This Annual Status Report (ASR) is an annual requirement showing the strategies employed by North Dorset District Council to improve air quality and any progress that has been made.

The statutory air quality objectives applicable to LAQM in England can be found in Table A.1 in Appendix A.

A summary of previous review and assessments can be found in Appendix B.

## **2 Actions to Improve Air Quality**

### **2.1 Air Quality Management Areas**

Air Quality Management Areas (AQMAs) are declared when there is an exceedance or likely exceedance of an air quality objective. After declaration, the authority must prepare an Air Quality Action Plan (AQAP) within 12-18 months setting out measures it intends to put in place in pursuit of the objectives.

North Dorset District Council currently does not have any AQMAs.

### **2.2 Progress and Impact of Measures to address Air Quality in North Dorset**

The following Strategies that will have a beneficial impact upon air quality are outlined below:

#### **North Dorset District Council Carbon Management Programme (CMP)**

North Dorset District Council's CMP was published in 2010. This plan sets targets for the reduction of carbon dioxide emissions from NDDC activities and outlines the project structure enabling those targets to be achieved.

#### **Nottingham Declaration**

In 2007 North Dorset District Council signed up to the Nottingham Declaration. The Nottingham Declaration is a voluntary pledge for local authorities to address the issues of climate change. It represents a high-level, broad statement of commitment for a council to make to its community. It now has over 300 councils as signatories. Under the Nottingham Declaration the council is committed to producing a strategy to reduce carbon emissions and the impact of climate change.

#### **Planning Applications**

The Public Health Team review all validated planning applications for their air quality impact. Relevant guidance is followed when reviewing these applications, i.e. Land-Use Planning and Development Control: Planning for Air Quality, May 2015 (EPUK

and IAQM). Where there is a potential adverse impact, or the development introduces new sensitive receptors within the AQMA, an air quality impact assessment is required. Where this identifies a significant adverse impact on air quality or human health then mitigation measures are required.

## Local Transport Plan 3 2011 – 2026

The Local Transport Plan 3 (LTP3) is a statutory document, which sets out a strategy for the management, maintenance and development of the County's transport system. It sets out a way forward to deliver transport needs through short, medium and long term transport solutions and how transport can improve safety and health, support the local economy, protect the environment and reduce carbon emissions and pollution. The LTP3 came into effect in April 2011 and has been produced for the whole of Bournemouth, Poole and Dorset. It covers the period from 2011 to 2026 and is based on a longer term strategy (2011 – 2026) and shorter term implementation plan(s) (3 years). Further information can be found at <https://www.dorsetforyou.gov.uk/travel-dorset/roads-and-driving/road-information/road-and-transport-improvement-schemes/local-transport-plan-3>

## Air Quality Planning Policies

A new local plan (North Dorset Local Plan Part 1 (LP1)) that sets out the strategic planning policies for the district was adopted by the council on 15 January 2016.

The Plan includes policies that relate to air quality including:

### **POLICY 3: CLIMATE CHANGE**

Development proposals within the District should seek to reduce greenhouse gas emissions including through appropriately sited renewable and low carbon energy developments.

The North Dorset Local Plan can be found at

<https://www.dorsetforyou.gov.uk/planning/north-dorset/planning-policy>

## Travel choice

This is a County wide initiative to raise awareness about the impacts of travel behaviour and to encourage people to make an informed decision about journeys



they make. For example information is provided on interactive cycle maps, adult cycle training and walking routes and trails. This initiative also promotes Car Share Dorset, an online tool to encourage and facilitate car sharing by matching journeys, run jointly by Dorset County Council and Bournemouth and Poole Borough Councils. More information can be found <https://www.dorsetforyou.com/409048>

## **Industrial Installations**

Industrial sources are controlled by the Environment Agency (EA) and by local authorities under the Pollution Prevention and Control regulations and through the Clean Air Act. A list of Permitted Processes in North Dorset is provided in Appendix C. Emissions to air are monitored for Part B processes by NDDC under the LAPPC regime.

## 2.3 PM<sub>2.5</sub> – Local Authority Approach to Reducing Emissions and or Concentrations

As detailed in Policy Guidance LAQM.PG16 (Chapter 7), local authorities are expected to work towards reducing emissions and/or concentrations of PM<sub>2.5</sub> (particulate matter with an aerodynamic diameter of 2.5µm or less). There is clear evidence that PM<sub>2.5</sub> has a significant impact on human health, including premature mortality, allergic reactions, and cardiovascular diseases.

North Dorset District Council do not currently monitor for PM<sub>2.5</sub>. The closest AURN Monitoring Stations are located within Bournemouth Borough Council, approximately 29 km and, Christchurch Borough Council 35km.

Defra's national background maps have been used to identify the modelled PM<sub>2.5</sub> concentrations for the calendar year 2015.

The average of Total PM<sub>2.5</sub> of all 612 locations (centre point of 1 km x1 km grids) was 9.80µg/m<sup>3</sup> (Min 9.03 µg/m<sup>3</sup> and Max 10.79µg/m<sup>3</sup>).

PM<sub>2.5</sub> concentrations are considered to be well below the EU Limit Value of 25 µg/m<sup>3</sup>. However, all Dorset Local Authorities and Dorset Public Health are looking at the possibility of a joint project to establish the actual levels of PM<sub>2.5</sub>. Work will continue with this possible pan-Dorset air quality project, and the outcome / progress will be reported in the next ASR.

In addition, the Council is taking the following measures to address PM<sub>2.5</sub>:

- Inspection of processes under the LAPPC Regime.
- Liaise with Dorset County Council (the Highway Authority) with regards to improvements schemes on the road infrastructure as and when necessary.
- The AQAP in place in our adjacent local authority (WDDC) looks at measures to reduce the exposure of residents within the AQMAs to NO<sub>2</sub>, however, these initiatives will have a positive effect on PM<sub>2.5</sub> levels within our local authority.
- Travel Choices as detailed above.

## 3 Air Quality Monitoring Data and Comparison with Air Quality Objectives and National Compliance

### 3.1 Summary of Monitoring Undertaken

Previous Rounds of Review and Assessment have indicated no exceedences of the air quality objectives. North Dorset District Council has no monitoring sites within its boundaries and has undertaken no monitoring since the 2009 Updating and Screening Assessment, apart from:

- the PM<sub>10</sub> monitoring undertaken during the Detailed Assessment of the East Down Farm between 8 September 2009 and 10 December 2009
- the PM<sub>10</sub> monitoring undertaken during the Detailed Assessment in Station Road, Gillingham between 21st October 2015 to 20th January 2016

The 2015 Updating and Screening Assessment concluded that following the screening criteria in LAQM.TG(09), a Detailed Assessment would be required for PM<sub>10</sub> at the HGV wash facility near Gillingham Station where there were previously complaints about dust / overspray if, following the enclosure of the facility, the requirement to do so remained. There were no other sources (transport, other transport, industrial, commercial/domestic and fugitive) of concern within North Dorset.

The detailed assessment was completed in February 2016 and concluded that from the available evidence there was no recommendation for further monitoring as it was shown that the HGV lorry wash did not appear to contribute to local concentrations of PM<sub>10</sub> there was no recommendation for further monitoring.

However it was recommended that activities at this establishment are kept under review and, assuming there is no change in the Technical Guidance, further assessment be considered if there is any substantial increase in the capacity or amendments to the above current implementations are made.

The report and conclusions made were accepted by DEFRA.

## North Dorset District Council

The Detailed Assessment and DEFRA review can be found on the North Dorset District Council website: <https://www.dorsetforyou.gov.uk/airquality/north>

## Appendix A: Summary of Air Quality Objectives in England

Table A.1 – Air Quality Objectives in England

Pollutant	Air Quality Objective <sup>4</sup>	
	Concentration	Measured as
Nitrogen Dioxide (NO <sub>2</sub> )	200 µg/m <sup>3</sup> not to be exceeded more than 18 times a year	1-hour mean
	40 µg/m <sup>3</sup>	Annual mean
Particulate Matter (PM <sub>10</sub> )	50 µg/m <sup>3</sup> , not to be exceeded more than 35 times a year	24-hour mean
	40 µg/m <sup>3</sup>	Annual mean
Sulphur Dioxide (SO <sub>2</sub> )	350 µg/m <sup>3</sup> , not to be exceeded more than 24 times a year	1-hour mean
	125 µg/m <sup>3</sup> , not to be exceeded more than 3 times a year	24-hour mean
	266 µg/m <sup>3</sup> , not to be exceeded more than 35 times a year	15-minute mean

<sup>4</sup> The units are in microgrammes of pollutant per cubic metre of air (µg/m<sup>3</sup>).

## Appendix B: Summary of Previous Review and Assessments

As part of the requirement of the LAQM process, North Dorset District Council (North Dorset DC) has previous Review and Assessment reports. Set out below is a summary of these previous documents, all of which (except Round 1 and the 2003 USA) can be found here: <https://www.dorsetforyou.com/airquality/north>

### **Round 1 of the LAQM, 1999**

This review concluded that none of the regulated pollutants required further assessment at that time. It showed that no exceedences of the air quality objectives were likely in North Dorset due to low level of industry and low traffic flows.

### **2003: Updating and Screening Assessment Report**

This USA Report provided an update to the Stage 1 review of air quality in 1999. The 2003 Progress Report indicates that the UK air quality objectives for all seven regulated pollutants were likely to be met in the district.

### **May 2006: Updating and Screening Assessment Report**

The results of this USA indicate that a Detailed Assessment will not be required for any of the seven pollutants assessed. None of the UK air quality objectives are likely to be breached within North Dorset DC.

### **April 2007: Progress Report**

This Progress Report provided an update to the 2006 report. The April 2007 Progress Report indicates that the UK air quality objectives for all seven regulated pollutants were likely to be met in the district.

### **April 2008: Progress Report**

This Progress Report provided an update to the April 2007 report. The April 2008 Progress Report indicates that the UK air quality objectives for all seven regulated pollutants were likely to be met. It concluded that it has not been necessary to proceed to secondary stages of the air quality management regime.

**April 2009: Updating and Screening Assessment Report**

The USA, undertaken on behalf of North Dorset DC by Faber Maunsell indicated that none of the UK air quality objectives for all seven pollutants excluding particulate matter (PM<sub>10</sub>) are likely to be exceeded within the District. Therefore, a Detailed Assessment will not be required for six of the key pollutants. However, the USA identified potential exceedences of PM<sub>10</sub> in the vicinity of a poultry farm housing in excess of 400,000 birds and equipped with mechanical ventilation. A Detailed Assessment was recommended for PM<sub>10</sub> at this site.

**January 2010: Detailed Assessment Report**

The Detailed Assessment of the East Down Farm commenced on 8 September 2009 and was completed in 10 December 2009. The report concluded that the possibility of the Air Quality Objectives for PM<sub>10</sub> being exceeded at the farm was very low and that there are no grounds for declaring an Air Quality Management Area and for proceeding further with assessment of air quality in this location.

**April 2011: Progress Report**

The 2011 Progress Report provided an update to the April 2008 report. The April 2011 Progress Report indicated that the UK air quality objectives for all seven regulated pollutants were likely to be met in the District.

**February 2012: Updating and Screening Assessment**

The USA, undertaken on behalf of North Dorset DC by the Air Quality Management Resource Centre at the University of the West of England, indicated that none of the UK air quality objectives for all seven pollutants excluding particulate matter (PM<sub>10</sub>) are likely to be exceeded within the District. Therefore, a Detailed Assessment will not be required for six of the key pollutants. However, the USA identified potential exceedences of PM<sub>10</sub> in the vicinity of a HGV wash facility near Gillingham Station. A Detailed Assessment was recommended for PM<sub>10</sub> at this site.

**March 2013: Progress Report**

The 2013 Progress Report provided an update to the April 2011 report. The 2011 Progress Report indicated that the UK air quality objectives for all seven regulated pollutants were likely to be met in the District. However there was a need to undertake a Detailed Assessment in respect of particulates ('PM<sub>10</sub>') in the vicinity of an HGV wash facility in the north of the district, identified in the 2012 USA (pages 10

& 11). This exercise has been postponed pending the completion of construction works to enclose the HGV wash, the use of which has been substantially reduced in the meantime.

**March 2014: Progress Report**

The 2014 Progress Report provided an update to the March 2013 report. The 2014 Progress Report indicated that the UK air quality objectives for all seven regulated pollutants were likely to be met in the District. However there was a need to undertake a Detailed Assessment in respect of particulates ('PM<sub>10</sub>') in the vicinity of an HGV wash facility in the north of the district, identified in the 2012 USA (pages 10 & 11). This exercise has been further postponed pending the completion of construction works to relocate and enclose the HGV wash.

**March 2015: Updating and Screening Assessment**

The USA, undertaken on behalf of North Dorset DC by the Air Quality Management Resource Centre at the University of the West Of England, concluded that North Dorset DC has no monitoring sites within its boundaries apart from the PM<sub>10</sub> monitoring undertaken during the Detailed Assessment of East Down Farm. The Monitoring indicated that the possibility of the Air Quality Objectives for PM<sub>10</sub> being exceeded at the farm was very low and that there are no grounds for proceeding further with assessment of air quality in this location.

North Dorset District Council will proceed to undertake a Detailed Assessment for PM<sub>10</sub> at the HGV wash facility near Gillingham Station if, following enclosure of the facility, the requirement to do so remains.

**February 2016: Detailed Assessment Report**

The Detailed Assessment for PM<sub>10</sub> at the HGV wash facility near Gillingham was completed in February 2016. The report concluded that it was unlikely that the Air Quality Objectives for PM<sub>10</sub> will be exceeded at Gillingham. In view of this there was no need for the declaration of an Air Quality Management Area in this locality.



## Appendix C: Part A1 Permitted Installations

Name and Address	Process Type
Faccenda Group, Shillingstone Farm, Okeford Fitzpaine, Blandford Forum DT11 0RQ	Poultry production
J & G Environmental Ltd, Holland Way Ind Est, Blandford Forum, DT11 7TA	Waste transfer
Walston Poultry Farm Ltd, Thorpe Farm, Winterborne Kingston, Blandford Forum, DT11 7BH	Poultry production
Walston Poultry Farm Ltd, East Down Farm, Winterborne Whitechurch, Blandford Forum DT11 9AS	Poultry production
Old Stour Farm Ltd, Woodville, Stour Provost, Gillingham, Dorset, SP8 5SN	Poultry production
Thrive Unique Ltd, Middle Farm, Stalbridge Weston, Sturminster Newton, DT10 2LA	Poultry production
Yellowstone Environmental Services (formerly Oil and Water Limited), 20, Wincombe Business park, Shaftesbury, SP7 9QJ	Waste transfer/treatment
Savage Cat Farm, Boweridge Hill, Gillingham, SP8 5QR	Poultry production
Farmery Ltd, Lowbrook Farm, Belchalwell, Blandford Forum, DT11 0EQ	Biodigester and combustion
Ferns Poultry Farm Back Lane, Kingston, Hazelbury Bryan, Sturminster Newton DT10 2AN	Poultry production
BOCM Pauls, Blandford Heights, Blandford Forum, Dorset, DT11 7TL	Animal feed compounder
Sigma Aldrich, The Old Brickyard, Gillingham, Dorset, SP8 4XT	Chemical production
Dorset County Council, Conygar Landfill Site, Castle Lane, Okeford Fitzpaine, Blandford Forum, DT11 0RJ	Waste management
Mark Farwell Ltd, Downend Farm, Bushes Road, Stourpaine, Blandford Forum, DT11 8SY	Waste management
J Cowley and S Kimber, Deer Park Riding Stables, White Cliff Mill Street, Blandford Forum, DT11 7BN	Waste management
Dorset County Council, Gibbs Marsh Trading Estate, Stalbridge, DT10 2RY	Waste management
Mr V Smith, Okeford Common, Okeford Fitzpaine, Blandford Forum, DT11 0RY	Waste management
PCS South West Ltd, 8 Ambassador Business park, West Stour, Gillingham SP8 5SE	Waste management
North Dorset Stone Ltd, Manor Farm, Silton, Gillingham SP8 5PR	Waste management
Geoffrey Thompson Higher Shaftesbury Road, Blandford Forum DT11 7EG	Waste management
MB Crocker Limited, Strangways Farm, Hains Lane, Marnhull, DT10 1JU	Poultry production
RM Mogridge Contracting Limited, Knoll farm, The Common, Okeford Fitzpaine, DT11 0RT	Waste management

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BV Dairy, Wincombe Lane, Shaftesbury, Dorset, SP7 8QD	Waste management
Geoffrey Thompson, 8 Wincombe Business Park, Shaftesbury, SP7 9QJ	Waste management
Symonds Auto Salvage Limited, Gibbs Marsh Trading Estate, 143 Hanger, Stalbridge, Sturminster Newton DT10 2RY	Waste management
TF Builders Limited Unit 8 Brickfields Industrial Estate, Gillingham SP8 4JL	Waste management

## Part B Permitted Installations

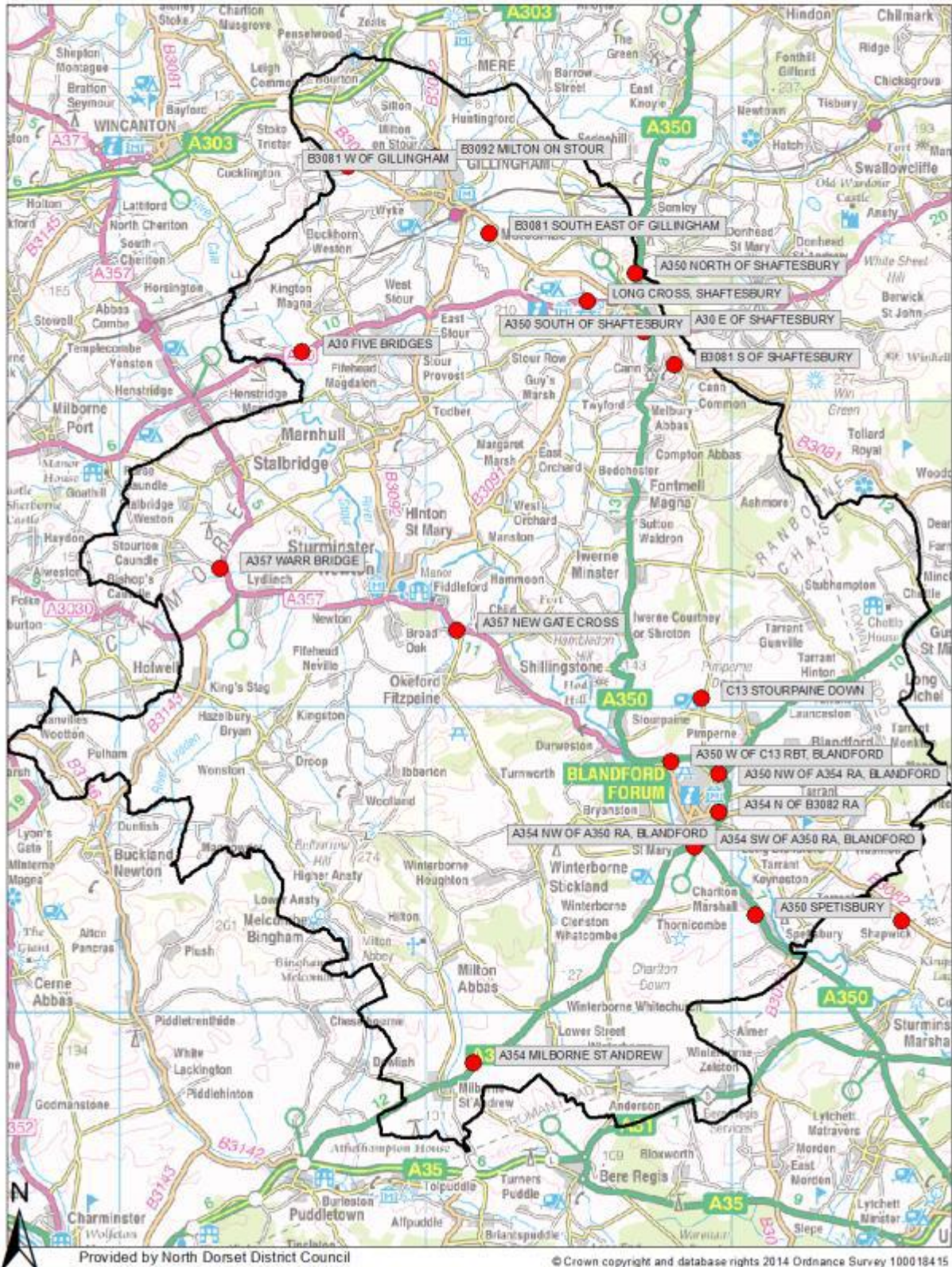
Name and Address	Process Type
Dextra Group plc, Unit 17 Brickfields Business Park, Gillingham, SP8 4PX	Powder Coating where > 20t coating powder used in 12m
Snashall Steel, Pulham Business Park, Pulham, Dorchester, Dorset, DT2 7DX	Coating of metal and plastic where >5t organic solvent used in 12m
Hospital Metalcraft, Blandford Heights Industrial Estate, Blandford Forum, Dorset, DT11 7TE	Powder Coating where > 20t coating powder used in 12m
Chantry Field SS, Chantry Fields, Gillingham, Dorset, SP8 4UA	Petrol Vapour Recovery
Cornwall Group Service Station, Blandford Rd, Shillingstone, Blandford Forum, DT11 0BE	Petrol Vapour Recovery
Damory SS, Salisbury Road, Blandford Forum, Dorset, DT11 7LP	Petrol Vapour Recovery
Forge Garage, Bourton, Gillingham, Dorset, SP8 5PZ	Petrol Vapour Recovery
Ivy Cross SS, Shaftesbury, Dorset, SP7 8DS	Petrol Vapour Recovery
Redpost SS, Winterbourne Zelston, Blandford Forum, Dorset, DT11 9EU	Petrol Vapour Recovery
Ring St SS, Stalbridge, Dorset, DT10 7NQ	Petrol Vapour Recovery
Riverside Garage, West Stour, Gillingham, Dorset, SP8 5RJ	Petrol Vapour Recovery
Tesco SS, Stour Park, Blandford St Mary, Dorset, DT11 9PU	Petrol Vapour Recovery
Tesco SS, Christys Lane Shaftesbury, Dorset	Petrol Vapour Recovery
Down End Farm, Stourpaine, Dorset	Mobile Crushing Plant
Cavell Dry Cleaners, 23 High Street, Gillingham, Dorset SP8 4AA	Dry Cleaners
Impressed Dry Cleaners, 9 Barnack walk, Blandford Forum, Dorset, DT11 7AL	Dry Cleaners
Johnsons Stalbridge Linen Services, Christys Lane, Shaftesbury, Dorset, SP7 8PH	Dry Cleaners
Market Place Dry Cleaners, market Place, Sturminster Newton, Dorset, DT10 1AS	Dry Cleaners
Blandford Laundry Services, Shaftesbury Lane, Blandford Forum, Dorset, DT11 7EG	Dry Cleaners



Appendix D: District Map



Traffic Data



## Glossary of Terms

Abbreviation	Description
AQAP	Air Quality Action Plan - A detailed description of measures, outcomes, achievement dates and implementation methods, showing how the local authority intends to achieve air quality limit values'
AQMA	Air Quality Management Area – An area where air pollutant concentrations exceed / are likely to exceed the relevant air quality objectives. AQMAs are declared for specific pollutants and objectives
ASR	Air quality Annual Status Report
Defra	Department for Environment, Food and Rural Affairs
EU	European Union
LAQM	Local Air Quality Management
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>x</sub>	Nitrogen Oxides
PM <sub>10</sub>	Airborne particulate matter with an aerodynamic diameter of 10µm (micrometres or microns) or less
PM <sub>2.5</sub>	Airborne particulate matter with an aerodynamic diameter of 2.5µm or less
QA/QC	Quality Assurance and Quality Control

## References

- Local Air Quality Management Policy Guidance LAQM.PG (16). April 2016. Published by Defra.
- Local Air Quality Management Technical Guidance LAQM.TG (16). April 2016. Published by Defra in partnership with the Scottish Government, Welsh Assembly Government and Department of the Environment Northern Ireland.
- The Local Transport Plan 3 2011- 2026, Dorset County Council
- Travel Choice – [www.dorsetforyou.com/travelchoice](http://www.dorsetforyou.com/travelchoice)
- North Dorset District Council Local Plan 2016