



2013 Air Quality Progress Report for North Dorset District Council

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

March 2013

Local Authority Officer	Kerry Pitt-Kerby
Department	Environmental Health & Licensing Service
Address	North Dorset District Council Nordon Salisbury Road Blandford Forum Dorset DT11 7LL
Telephone	01258 454111
e-mail	Kpitt-kerby@north-dorset.gov.uk
Report Reference number	AQM 2013
Date	March 2013

Executive Summary

- Previous Review and Assessments of air quality in the North Dorset District Council area have reached conclusions which have generally not required the authority to proceed with further investigations or to declare any Air Quality Management Areas (pages 9 & 10).
- The one exception was the need to undertake a Detailed Assessment in respect of particulates ('PM₁₀') 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 relocate and enclose the HGV wash.
- As a result of the above, no Action Plans have been implemented which require reporting of progress.
- No new road or other transport sources, or commercial & domestic sources have been identified which will require further investigation (p. 13)
- It is therefore proposed to submit this Progress Report; the next step will be the USA necessary in 2015.

Table of Contents

1	Introduction	5
1.1	Description of Local Authority Area	5
1.2	Purpose of Progress Report	7
1.3	Air Quality Objectives	7
1.4	Summary of Previous Review and Assessments	9
2	New Monitoring Data	12
2.1	Summary of Monitoring Undertaken	12
3	New Local Developments	13
3.1	Road Traffic Sources	13
3.2	Other transport sources	13
3.3	Industrial sources	13
3.4	Commercial and Domestic Sources	13
3.5	New developments with fugitive or uncontrolled sources	13
4	Planning Applications	14
5	Air Quality Planning Policies	15
6	Local Transport Plans and Strategies	16
7	Climate Change Strategies	17
8	Conclusions and Proposed Actions	18
8.1	Conclusions from New Monitoring Data	18
8.2	Conclusions relating to New Local Developments	18
8.3	Proposed Actions	18
9	References	19

List of Tables

Table 1.1	Air Quality Objectives included in Regulations for the purpose of LAQM in England	p.8
-----------	---	-----

List of Figures

Figure 1.1	Map of North Dorset	p.6
------------	---------------------	-----

Table 1.1	Air Quality Objectives included in Regulations for the purpose of LAQM in England	p.8
-----------	---	-----

Appendices

Appendix A	QA:QC Data	p.20
Appendix B	Public Register of Local Authority Permitted Processes	pp.21-22
Appendix C	List of Environment Agency Permitted Processes	p.22

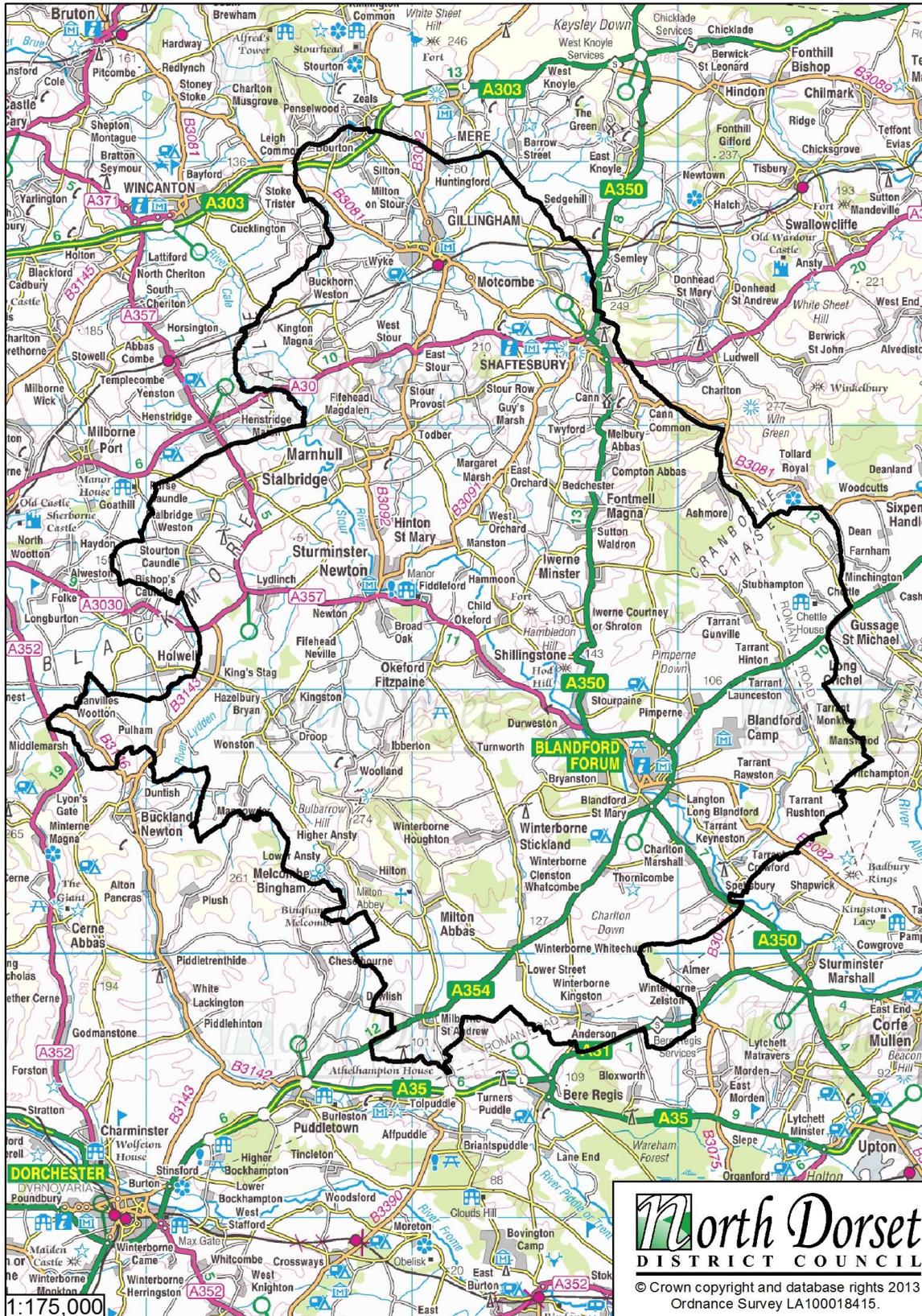
1 Introduction

1.1 Description of Local Authority Area

The District of North Dorset is located in the south west of England, bordering Somerset and Wiltshire. It is predominantly a rural area with very little industry. The five major market towns in the District are Blandford Forum, Gillingham, Shaftesbury, Stalbridge and Sturminster Newton. To the south and east of the District lies the Dorset Downs, Cranborne Chase & West Wilshire Downs, both are recognised as Areas of Outstanding Natural Beauty (AONB). The Blackmore Vale and Limestone Ridges occupy the northern and western part of the District, although not officially designated as AONB but both are recognised as contributing to the general attractiveness of the area. Population number in the District (2011 Census) was 68,600.

A map showing the boundary of the District is shown in Figure 1.1 below.

Figure 1.1: Map of North Dorset



1.2 Purpose of Progress Report

This report fulfils the requirements of the Local Air Quality Management process as set out in Part IV of the Environment Act (1995), the Air Quality Strategy for England, Scotland, Wales and Northern Ireland 2007 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 exceedences are considered likely, the local authority must then 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.

Progress Reports are required in the intervening years between the three-yearly Updating and Screening Assessment reports. Their purpose is to maintain continuity in the Local Air Quality Management process.

They are not intended to be as detailed as Updating and Screening Assessment Reports, or to require as much effort. However, if the Progress Report identifies the risk of exceedence of an Air Quality Objective, the Local Authority (LA) should undertake a Detailed Assessment immediately, and not wait until the next round of Review and Assessment.

1.3 Air Quality Objectives

The air quality objectives applicable to LAQM **in England** are set out in the Air Quality (England) Regulations 2000 (SI 928), The Air Quality (England) (Amendment) Regulations 2002 (SI 3043), and are shown in Table 1.1. This table shows the objectives in units of microgrammes per cubic metre $\mu\text{g}/\text{m}^3$ (milligrammes per cubic metre, mg/m^3 for carbon monoxide) with the number of exceedences in each year that are permitted (where applicable).

Table 1.1 Air Quality Objectives included in Regulations for the purpose of LAQM in England

Pollutant	Air Quality Objective		Date to be achieved by
	Concentration	Measured as	
Benzene	16.25 µg/m ³	Running annual mean	31.12.2003
	5.00 µg/m ³	Annual mean	31.12.2010
1,3-Butadiene	2.25 µg/m ³	Running annual mean	31.12.2003
Carbon monoxide	10 mg/m ³	Running 8-hour mean	31.12.2003
Lead	0.50 µg/m ³	Annual mean	31.12.2004
	0.25 µg/m ³	Annual mean	31.12.2008
Nitrogen dioxide	200 µg/m ³ not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
	40 µg/m ³	Annual mean	31.12.2005
Particulate Matter (PM ₁₀) (gravimetric)	50 µg/m ³ , not to be exceeded more than 35 times a year	24-hour mean	31.12.2004
	40 µg/m ³	Annual mean	31.12.2004
Sulphur dioxide	350 µg/m ³ , not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
	125 µg/m ³ , not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
	266 µg/m ³ , not to be exceeded more than 35 times a year	15-minute mean	31.12.2005

1.4 Summary of Previous Review and Assessments

1.4.1 Round 1 - 1999

The Round 1 assessment of air quality concluded that there was no likelihood of exceedence of any of the air quality objectives in the district. There were no significant industrial or domestic sources and no roads over 20 000 vehicles per day (the criteria for Stage 2 review and assessment for nitrogen dioxide at that time). As a result, North Dorset District Council was not required to proceed to Stage 2 of the LAQM procedure.

1.4.2 Updating, Screening & Assessment - 2003

The purpose of the Updating, Screening and Assessment report (“USA”) was to build upon the Round 1 report produced in 1999. The conclusion to the 2003 report stated: The Updating and Screening Assessment for North Dorset District Council indicates that the objectives for all seven pollutants regulated by the Air Quality Regulations 2000 and the Air Quality (England) Amendment Regulations 2002 will be met by their target years. This is on the basis of having considered changes to the emission sources, relevant exposure, new objectives and any other changes that have taken place since the first round of assessment. North Dorset District Council is not therefore expected to move to a detailed assessment for any pollutant.

1.4.3 Updating and Screening Assessment – 2006

The Executive Summary to the 2006 report stated:

An Updating and Screening Assessment (USA) has been performed for the seven UK criteria pollutants in the District of North Dorset. The aim of this assessment is to determine whether there is the potential for exceedences of any of the UK national air quality objectives. If this potential is identified a Detailed Assessment is recommended.

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 District.

1.4.4 Updating and Screening Assessment - 2009

An Updating and Screening Assessment (USA) of air quality was undertaken in 2009 on behalf of North Dorset District Council (North Dorset DC) by consultants Faber Maunsell.

At that time there was no Air Quality Management Area (AQMA) in place in the District of North Dorset. Road traffic was considered to be the main emission source of pollutants within the District.

None of the UK air quality objectives for all seven pollutants excluding particulate matter (PM10) were predicted as likely to be exceeded within the District. Consequently, a Detailed Assessment was not required for any of the six key pollutants. However, the USA did identify potential exceedences of PM10 at one poultry farm in the District – East Down Farm, Winterborne Whitechurch.

A Detailed Assessment was undertaken which included a period of monitoring of particulates in the vicinity of the farm. The report (January 2010) of that exercise concluded: *'From the available evidence there are no grounds for proceeding further with assessment of air quality in this location although it is recommended that developments at the site be reviewed on a regular basis provided the criteria for assessment of poultry farms in the Technical Guidance remain unchanged.'*

1.4.5 Updating and Screening Assessment - 2012

A further Updating and Screening Assessment (USA) of air quality was undertaken in 2012 on behalf of North Dorset District Council by consultants Air Quality Management Resource Centre at the University West of England.

At that time there was no Air Quality Management Area (AQMA) in place in the District of North Dorset. Road traffic was considered to be the main emission source of pollutants within the District.

None of the UK air quality objectives for the seven pollutants excluding particulate matter (PM10) were predicted as likely to be exceeded within the District. Consequently, a Detailed Assessment was not required for any of the six key pollutants. However, the USA did identify potential exceedences of PM10 in the vicinity of an HGV vehicle wash facility in Station Road, Gillingham. It was proposed

that a Detailed Assessment would be undertaken if the unit was not enclosed or relocated.

2 New Monitoring Data

2.1 Summary of Monitoring Undertaken

2.1.1 Automatic Monitoring Sites

Apart from the particulate monitoring previously undertaken during in relation to the discrete PM10 'Detailed Assessment' at the poultry farm following the 2009 USA, no automatic monitoring has been deemed necessary following the earlier USA reports.

2.1.2 Non-Automatic Monitoring Sites

Non-automatic monitoring has not been deemed necessary following previous USA reports.

3 New Local Developments

3.1 Road Traffic Sources

No new road traffic sources have been identified likely to impact upon AQ.

3.2 Other transport sources

A potential requirement to progress to a Detailed Assessment for PM10 in respect of a lorry wash facility in Gillingham was identified in the last USA. In the meantime, the site operators have obtained planning consent for a building to provide an enclosure for the lorry wash at a revised location within the site. It is planned that construction works will commence during April and the lorry wash will then be relocated within the building, avoiding any overspray affecting nearby residential premises. In the meantime, a substantial close-boarded fence has been erected on the boundary between the site and the adjacent property.

3.3 Industrial sources

No new Industrial sources have been identified likely to impact upon AQ.

3.4 Commercial and Domestic Sources

No new commercial or domestic sources have been identified likely to impact upon AQ.

3.5 New developments with fugitive or uncontrolled sources

No new developments with fugitive or uncontrolled sources have been identified likely to impact upon AQ.

North Dorset District Council confirms that there are no new or newly identified local developments which may have an impact on air quality within the Local Authority area.

North Dorset District Council confirms that all the following have been considered:

- **Road traffic sources**
- **Other transport sources**
- **Industrial sources**
- **Commercial and domestic sources**
- **New developments with fugitive or uncontrolled sources.**

4 Planning Applications

North Dorset District Council confirms that there are no new or newly identified local developments likely to be considered before the next USA (due April 2015) which may have an impact on air quality within the Local Authority area.

Some potential larger residential developments which are being considered and may come forward in the future will be kept under review.

5 Air Quality Planning Policies

There are no policies specifically dealing with air quality in the adopted Structure Plan or Local Plan. However, there are more general policies dealing with pollution that also refer back to national policy. The relevant part of the Structure Plan, where paragraph 12.7 and Implementation Policy C are relevant:

12.7

New development should not increase levels of pollution, and Implementation Policy C seeks to ensure that this aspect is taken into account when proposals are under consideration. PPG 23, "Planning and Pollution Control", advises that planning authorities should consult pollution control authorities, for example, Her Majesty's Inspectorate of Pollution, the Environment Agency and local authority environmental health departments, in order that they can take account of the scope and requirements of the relevant pollution control. Implementation Policy C is a reminder of this advice.

It should be noted that PPG23 has now been replaced by the National Planning Policy Framework (NPPF). The issue of pollution (industrial air pollution) is discussed in section 11: Conserving and Enhancing the Natural Environment (paragraphs 109 – 125).

The relevant part of the structure plan can be accessed via the following link:

<http://www.bournemouth.gov.uk/PlanningBuildings/Planning/Policy/Regional/StructurePlanDocument.aspx>

In the Local Plan, Policy 1.8 sets out a series of "standard assessment criteria" which any development should meet. Criterion (i) requires compliance with the Local Plan's Sustainable Development Strategy, one of the aims of which is "to promote energy efficiency, conserve resources and avoid pollution".

The link to the Local Plan webpage:

<http://www.northdorsetlocalplan.co.uk/text/book.htm>

6 Local Transport Plans and Strategies

The current version of the Local Transport Plan (LTP 3) came into effect in April 2011 and can be viewed here: <http://www.dorsetforyou.com/localtransportplan>

This plan covers the whole of the Dorset Sub-region including Bournemouth and Poole for the period 2011 to 2026.

LTP 3 has an associated draft Health Strategy, which refers to the issue of air quality and can be viewed here:

<http://www.dorsetforyou.com/media.jsp?mediaid=164568&filetype=pdf>

Goal 4 in LTP 3 is better safety, security and health. Under this goal, one of the key challenges is “to reduce/minimise the number of areas having poor air quality as a result of road transport emissions”. The goals and challenges are set out in the LTP 3 Summary Document, which can be viewed here:

<http://www.dorsetforyou.com/media.jsp?mediaid=164555&filetype=pdf>

7 Climate Change Strategies

In Dorset, climate change is tackled mainly through the Bournemouth, Dorset and Poole Renewable Energy Strategy, the Bournemouth Dorset and Poole Energy Efficiency Strategy and the LTP, which integrate together as set out on this diagram:

<http://www.dorsetforyou.com/media.jsp?mediaid=143171&filetype=pdf>

In addition, the Authority has adopted a Carbon Management Plan (<http://www.dorsetforyou.com/media.jsp?mediaid=176564&filetype=pdf>) to reduce carbon emissions from its operations and it has achieved its 15% target to reduce emissions in advance of the 2014/15 target date. Work is currently underway to look at further opportunities within the district for the installation of renewable energy infrastructure with planning permissions being granted for solar arrays in numerous locations including Silton and Rudge Hill in Sturminster Newton.

The individual documents can be downloaded from this page:

<http://www.dorsetforyou.com/395102>

8 Conclusions and Proposed Actions

8.1 Conclusions from New Monitoring Data

No new monitoring has been undertaken; exceedence of AQ objectives has not previously been suspected. No AQMAs have been declared.

8.2 Conclusions relating to New Local Developments

No new local developments have occurred which will impact upon AQ objectives.

8.3 Proposed Actions

No new monitoring has been undertaken; No AQMA has previously been declared 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 Progress Report; the next step will be a further progress report in 2014.

9 References

List of documents referred to in this report:

- First Stage Review and Assessment of Air Quality for North Dorset – 1999
- Round 2 Updating Screening & Assessment – April 2003
- Updating and Screening Assessment – May 2006
- Updating and Screening Assessment for North Dorset – April 2009
- Detailed Assessment for North Dorset District Council – January 2010
- Updating and Screening Assessment for North Dorset – April 2012
- Bournemouth, Dorset & Poole Structure Plan
- North Dorset District-Wide Local Plan to 2011 (1st Revision) Adopted 31st January 2003
- Bournemouth, Poole and Dorset Local Transport Plan 3 – Strategy Document 2011 – 2026
- Bournemouth, Poole and Dorset Local Transport Plan 3 – Strategy Document 2011 – 2026 Health Strategy (Draft)
- Bournemouth, Poole and Dorset Local Transport Plan 3 – Strategy Document 2011 – 2026 Summary Document
- Bournemouth, Dorset and Poole Renewable Energy Strategy
- Bournemouth, Dorset and Poole Energy Efficiency Strategy (2009)

- North Dorset Carbon Management Plan 2009 - 2014

Appendices

Appendix A: QA/QC Data

Appendix B: Local Authority Permitted Processes

Appendix C: Environment Agency Permitted Processes.

Appendix A: QA:QC Data

Diffusion Tube Bias Adjustment Factors

Diffusion tube monitoring has not been required.

PM Monitoring Adjustment

PM monitoring has been deemed not to be necessary.

QA/QC of Automatic Monitoring

Automatic monitoring has not been required.

Appendix B: Public Register of Local AuthorityPermitted
date**Permitted Processes****Public Register of Permitted Processes in North Dorset****Production of pre-mix concrete / cement batching**

Hansons, Gannets Quarry, Todber, Sturminster Newton, Dorset, DT10 1HS 01.09.92

Coating of metal and plastic where >5t organic solvent used in 12m

ACL Structures, Holland Way Industrial Estate, Blandford Forum, Dorset, DT11 7TG 13.03.97

Snashall Steel, Pulham Business Park, Pulham, Dorchester, Dorset, DT2 7DX 07.10.99

Powder Coating where > 20t coating powder used in 12m

Hospital Metalcraft, Blandford Heights Industrial Estate, Blandford Forum, Dorset, DT11 7TE 20.08.93

Dextra Lighting, Brickfields Business Park, Gillingham, Dorset, SP8 4PX 28.05.09

Waste Oil Burner (<0.4MW rated thermal input)

Ashley Wood, Tarrant Keyneston, Blandford Forum, Dorset, DT11 9JJ 05.11.92

C & O Tractors, Blandford Heights Industrial Estate, Blandford Forum, Dorset, DT11 7TF 06.08.01

C J Cox, Bagber, Sturminster Newton, Dorset, DT10 2HT 30.01.97

Crews Garage, Unit 25d, Sunrise Business Park, Higher Shaftesbury Road, Blandford Forum, Dorset, DT11 8ST 01.04.03

Ford Fuel Oils Limited, Gibbs Marsh Trading Estate, Stalbridge, Dorset, DT10 2RU 08.03.07

Petrol Vapour Recovery

Chantry Field SS, Chantry Fields, Gillingham, Dorset, SP8 4UA 18.12.98

Cornwall Group Service Station, Blandford Rd, Shillingstone, Blandford Forum, DT11 0BE 11.12.98

Damory SS, Salisbury Road, Blandford Forum, Dorset, DT11 7LP 15.12.98

Forge Garage, Bourton, Gillingham, Dorset, SP8 5PZ 12.12.01

Ivy Cross SS, Shaftesbury, Dorset, SP7 8DS 16.12.98

Redpost SS, Winterbourne Zelston, Blandford Forum, Dorset, DT11 9EU 13.01.99

Ring St SS, Stalbridge, Dorset, DT10 7NQ 09.12.98

Riverside Garage, West Stour, Gillingham, Dorset, SP8 5RJ 25.11.99

Tesco SS, Stour Park, Blandford St Mary, Dorset, DT11 9PU 28.10.98

Tesco SS, Christys Lane Shaftesbury, Dorset SP7 8PF 27.09.04

Mobile Crushing Plant

Mark Farwell Plant Hire, Down End Farm, Stourpaine, Blandford Forum DT11 8SY 21.06.05

North Dorset District Council

A D Mills Contracting, Henstridge airfield, Henstridge, Templecombe Somerset, BA8 10.09.10
0TN

Dry Cleaners

Cavell Dry Cleaners, 23 High Street, Gillingham, Dorset SP8 4AA 26.03.07

Impressed Dry Cleaners, 9 Barnack walk, Blandford Forum, Dorset, DT11 26.03.07
7AL

Johnsons Stalbridge Linen Services, Christys Lane, Shaftesbury, Dorset, 19.04.07
SP7 8PH

Market Place Dry Cleaners, market Place, Sturminster Newton, Dorset, 26.03.07
DT10 1AS

Blandford Laundry Services, Shaftesbury Lane, Blandford Forum, Dorset, 18.12.07
DT11 7EG

Appendix C: List of Environment Agency Permitted Processes

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
Old Stour Farm Ltd, Woodville, Stour Provost, Gillingham, Dorset, SP8 5SN	Poultry production
Thrive Unique Ltd, Middle Farm, Stalbridge	Poultry production
Weston, Sturminster Newton, DT10 2LA	
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
Farmergy 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

End of Report