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10.1 Part A(2) & B Processes Within North Lincolnshire

OPERATOR	PROCESS	PG NOTE	A2/B
Appleby Group	Grinding of Blast Furnace Slag	-	A2
Bemis Packaging Ltd	Coating Of Flexible Packaging	SG6	A2
Corus UK Ltd	Metal Coating	SG6	A2
MFI UK Ltd	Wood Manufacture and Wood Coating	SG6	A2
Mondi Packaging Wheatley Ltd	Coating of Flexible Packaging	SG6	A2
William Blyth	Manufacture of heavy clay goods	SG7	A2
William Blyth	Manufacture of heavy clay goods	SG7	A2
A B Ports	Coal and Coke Products	PG3/5	B
AE Wilson	Respraying of Road Vehicles	PG6/34	B
AMS Bobcat	Waste Oil Burner	PG1/1	B
APS Grit Blasting	Respraying of Road Vehicles	PG6/34	B
C & G Concrete	Blending, packing, loading and use of bulk cement	PG3/1	B
Carbon International	Coal and Coke Products	PG3/5	B
Chenez	Manufacture of Timber Products	PG6/2	B
Corus Uk Ltd	Coal and Coke Products	PG3/5	B
Ductile Castings Ltd	Melting of Ferrous Metal	PG2/4	B
Enob	Coating of Metal	PG6/23	B
Express Laundry Services	Dry Cleaners		B
Firth Rixon Casting	Melting of Ferrous Metal	PG2/4	B
G B Terminals	Respraying of Road Vehicles	PG6/34	B
Gefco	Respraying of Road Vehicles	PG6/34	B
George Kmita	Extraction of Aluminium from scrap	PG2/1	B
Go Car	Respraying of Road Vehicles	PG6/34	B
Gunness Wharf	Coal and Coke Products	PG3/5	B
H&L Garage	Respraying of Road Vehicles	PG6/34	B
Hartwell Ford	Respraying of Road Vehicles	PG6/34	B
Howarth Timber Importers	Manufacture of Timber Products	PG6/2	B
Jack Tighe Ltd	Coating of Metal	PG6/23	B
JHP Storage	Coal and Coke Products	PG3/5	B
Jotun Henry Clark	Manufacture of Paint	PG6/10	B
Just Car Clinic	Respraying of Road Vehicles	PG6/34	B
Lafarge Aggregates Ltd	Blending, packing, loading and use of bulk cement	PG3/1	B
Lebus Furniture	Manufacture of Timber Products	PG6/2	B
Lou's Tyres	Waste Oil Burner	PG1/1	B
Martyn Bell Motor Engineers	Waste Oil Burner	PG1/1	B
Mash Enterprises	Manufacture of Timber Products	PG6/2	B
Minelco Minerals X 2	Handling and processing minerals	PG3/15	B
New Holland Extraction	Extraction of Oil from seed	PG6/25	B
Nimmo Body Repairs	Respraying of Road Vehicles	PG6/34	B
North Killingholme Storage	Coal and Coke Products x 3	PG3/5	B
North Lincolnshire Council	Crematoria	PG5/2	B
Oxford Motors	Waste Oil Burner	PG1/1	B
P D Port Services	Coal and Coke Products	PG3/5	B
P D Port Services	Blending, packing, loading and use of bulk cement	PG3/1	B
Quinton and Kains	Manufacture of Timber Products	PG6/2	B
Raintons of Ashby	Waste Oil Burner	PG1/1	B
Ready Mix Concrete	Blending, packing, loading and use of bulk cement	PG3/1	B
OPERATOR	PROCESS	PG NOTE	A2/B
Sandtoft Roof Tiles	Blending, packing, loading and use of bulk cement	PG3/1	B

Sandtoft Roof Tiles	Blending, packing, loading and use of bulk cement	PG3/1	B
Sandtoft Roof Tiles	Manufacture of Heavy Clay and Refractory Goods	PG3/2	B
Scangrit	Coal and Coke Products	PG3/5	B
Scunthorpe Sheet Metal Company	Respraying of Road Vehicles	PG6/34	B
Simon Distribution x 5	Coal and Coke Products	PG3/5	B
Skymark Performance Films	Coating of Flexible Packaging	PG6/17	B
Steetley Bentonite & Absorbants Ltd	Mineral Handling and Processing	PG3/15	B
Stoneacre	Respraying of Road Vehicles	PG6/34	B
Stoneledge	Mobile Crusher	PG3/16	B
T & T Aggregates	Mobile Crushing	PG3/16	B
Tarmac Northern	Road stone coating	PG3/15	B
Tarmac Northern	Blending, packing, loading and use of bulk cement	PG3/1	B
Techrete UK	Blending, packing, loading and use of bulk cement	PG3/1	B
Thomson Waste	Mobile Crushing	PG3/16	B
Total Uk	Storage of Petrol at Terminals	PG1/13	B
Transco Plc	Odorising of Natural Gas	PG1/15	B
Transco PLC	Odorising of Natural Gas	PG1/15	B
Trent Refractories	Blending, packing, loading and use of bulk cement	PG3/1	B
Truck Lincs	Waste Oil Burner	PG1/1	B
WBB Minerals	Mineral Handling and Processing	PG3/15	B
Weightlifter bodies	Respraying of Road Vehicles	PG6/34	B
Welham Estates	Pet Food Manufacturing	PG6/24b	B
Woodside (precast) Concrete	Blending, packing, loading and use of bulk cement	PG3/1	B
Xpress Dry Cleaners	Dry Cleaners		B
Youngs	Respraying of Road Vehicles	PG6/34	B

10.2 Part A(2) & B Processes Emitting Pollutants Relevant To This Report

Company	Process	Process Guidance No.	Benzene	1,3 Butadiene	Lead	Carbon Monoxide	Sulphur Dioxide	Nitrogen Dioxide	PM10	Stack or Fugitive
TotalfinaElf UK Ltd Killingholme	Storage of Petrol at Terminals	1.13	X							
WBB Minerals Messingham	Minerals Handling & Processing	3.8					X		X	Stack
North Killingholme Storage	Handling & Storage of Petroleum coke	3.5							X	Fugitive
North Killingholme Storage (Warehouse K)	Handling & Storage of Petroleum coke	3.5							X	Fugitive
North Killingholme Storage	Handling & Storage of Petroleum coke	3.5							X	Fugitive
Simon Distribution North Killingholme (Warehouse C&D)	Handling & Storage of Petroleum Coke	3.5							X	Fugitive
Simon Distribution North Killingholme (Warehouse A)	Handling & Storage of Petroleum Coke	3.5							X	Fugitive
Simon Distribution North Killingholme (Warehouse B)	Handling & Storage of Petroleum Coke	3.5							X	Fugitive
Simon Distribution North Killingholme (Warehouse J)	Handling & Storage of Petroleum Coke	3.5							X	Fugitive
Simon Distribution North Killingholme (Budmo Warehouse)	Handling & Storage of Petroleum Coke	3.5							X	Fugitive
JHP Storage Elsham	Handling & Storage of Petroleum Coke	3.5							X	Fugitive
Corus UK Ltd. Immingham Bulk Terminal	Handling & Storage of Coal	3.5							X	Fugitive
PD Port Services Keadby (No storage at present)	Storage of Petroleum Coke	3.5							X	Fugitive
Gunness Wharf Ltd Gunness Wharf Althorpe	Storage of Coal & Coke Products	3.5							X	Fugitive
Carbon International Scunthorpe	Processing Graphite Petroleum & Metallurgical Coke	3.5							X	Stack
Scangrit South Killingholme	Minerals Handling & Processing	3.8							X	Stack
Steetley Bentonite & Absorbents Ltd Flixborough	Handling & Processing of Minerals	3.8							X	Stack
Minelco Minerals Flixborough	Handling & Processing of Minerals	3.8							X	Stack
Minelco Minerals Bagmore Works Flixborough	Screening and Drying of Materials	3.8							X	Stack

Company	Process	Process Guidance No.	Benzene	1,3 Butadiene	Lead	Carbon Monoxide	Sulphur Dioxide	Nitrogen Dioxide	PM10	Stack or Fugitive
Appleby Group Scunthorpe	Processing of Blast Furnace Slag	3.8							X	Stack
Tarmac Northern Ltd Dawes Lane	Crushing & Screening of Slag	3.8 3.15					X		X	Stack
Ductile Castings Scunthorpe	Melting of ferrous metals	2.1			X					Fugitive
Firth Rixson Castings Scunthorpe	Melting of ferrous metals	2.1			X					Fugitive
A B Ports Killingholme	Storage of Coal & Coke Products	3.5							X	Fugitive

10.3 Permitted Petrol Stations Within North Lincolnshire

Asda	- Burringham Road, Scunthorpe
Danum Auto Centre	- Station Road, Epworth
Esso	- Doncaster Road, Scunthorpe
Fuel Force Ltd	- Bridge Street, Brigg
Fuel Force Ltd	- Normanby Road, Scunthorpe
Jordan & Co Rix	- Grange Lane North, Scunthorpe
Malthurst	- A180 / M180 / A15 Junction
M J Neal Ltd	- Ferriby Road, Barton-upon-Humber
Murco	- Grange Lane South, Scunthorpe
Parkside Services	- Southcliff Road, Kirton-in-Lindsey
PH & S Barret	- Roxby Road, Winterton
Refinery Filling Station	- Humber Road, Killingholme
Riddings Service Centre	- Willoughby Road, Scunthorpe
Ridgewood Motors	- Brigg Road, Hibaldstow
Shell UK Brumby Corner	- Ashby Road, Scunthorpe
Shell UK Westcliffe	- Burringham Road, Scunthorpe
Spencers Garage	- High Street, Messingham
Tesco	- Barnard Avenue, Brigg
Tesco	- Gallagher Retail Park, Scunthorpe
Total Fina	- Doncaster Road, Scunthorpe
WM Morrison	- Lakeside Parkway, Scunthorpe

10.4 DMRB Output – LAQM.TG(03) 6.2 & 8.4 (D) Junctions

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor			
Receptor Name	Barrow Rd / Whitecross St	Receptor number	9
Assessment year	2006		

Results							
Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.29	0.05	0.34	mg/m ³	Annual mean*	0.34	mg/m ³
Benzene	0.33	0.06	0.39	µg/m ³	Annual mean	0.39	µg/m ³
1,3-butadiene	0.13	0.05	0.18	µg/m ³	Annual mean	0.18	µg/m ³
NO _x	38.2	12.9	51.1	µg/m ³	Not applicable		
NO ₂	23.7	3.4	27.1	µg/m ³	Annual mean*	27.1	µg/m ³
PM ₁₀	17.9	1.42	19.32	µg/m ³	Annual mean	19.3	µg/m ³
					Days >50µg/m ³	3	Days

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.05	0.06	0.05	12.87	1.42
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

* See Footnote 4 in DMRB Volume 11 Chapter 3

All receptors			Pollutant concentrations at receptor						
Receptor number	Name	Year	CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
			Annual mean mg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Days >50µg/m ³
1	Britannia Corner	2006	0.42	0.52	0.27	62.04	29.68	21.49	5.48
2	Ashby Rd / W Common Ln / Old Brumby St	2006	0.41	0.50	0.22	54.74	28.25	20.64	4.23
3	Monument Roundabout	2006	0.35	0.34	0.19	53.90	27.76	19.80	3.16
4	Messingham Rd / Burringham Rd / Priory Rd	2006	0.38	0.45	0.20	51.99	27.71	20.00	3.39
5	Ferriby Rd / Holydyke / Hungate	2006	0.35	0.39	0.19	52.64	27.32	19.59	2.92
6	Ashby High St / Grange Ln Sth	2006	0.37	0.43	0.21	54.82	28.34	20.24	3.70
7	Barnard Av / Wesley Rd / Old Courts Rd	2006	0.34	0.33	0.18	52.71	27.48	19.60	2.92
8	Messingham Rd / Chancel Rd / Willoughby Rd	2006	0.37	0.43	0.19	51.05	27.22	19.82	3.19
9	Barrow Rd / Whitecross St	2006	0.34	0.39	0.18	51.07	27.06	19.32	2.61

* See Footnote 4 in DMRB Volume 11 Chapter 3

10.5 DMRB Output – LAQM.TG(03) 6.2 (E) Busy Streets Where People Spend 1 Hour Or More Close To Traffic

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor				
Receptor Name	Wrawby Road		Receptor number	11
Assessment year	2006			

Results							
Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.30	0.06	0.36	mg/m ³	Annual mean*	0.36	mg/m ³
Benzene	0.22	0.06	0.28	µg/m ³	Annual mean	0.28	µg/m ³
1,3-butadiene	0.10	0.07	0.16	µg/m ³	Annual mean	0.16	µg/m ³
NO _x	67.8	16.2	84.0	µg/m ³	Not applicable		
NO ₂	35.2	3.7	38.9	µg/m ³	Annual mean*	38.9	µg/m ³
PM ₁₀	25.4	1.91	27.31	µg/m ³	Annual mean	27.3	µg/m ³
					Days >50µg/m ³	19	Days

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.06	0.06	0.07	16.16	1.91
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

* See Footnote 4 in DMRB Volume 11 Chapter 3

All receptors			Pollutant concentrations at receptor						
Receptor number	Name	Year	CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
			Annual mean mg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Days >50µg/m ³
1	Ashby Road (CU6)	2006	0.42	0.54	0.34	76.52	33.04	22.83	7.78
2	Howdens Hill	2006	0.44	0.56	0.38	80.70	33.87	23.64	9.37
3	Queensway	2006	0.40	0.49	0.26	66.59	30.85	21.62	5.68
4	Scawby Road	2006	0.35	0.35	0.22	67.26	31.44	20.56	4.12
5	Barnard Avenue	2006	0.38	0.39	0.25	69.06	32.14	21.13	4.93
6	Ashby Road	2006	0.41	0.48	0.25	61.99	30.05	21.24	5.09
7	Bridge Street	2006	0.35	0.35	0.21	67.35	31.77	20.57	4.13
8	Grange Lane South	2006	0.39	0.44	0.21	57.70	29.02	20.51	4.06
9	Glebe Road	2006	0.40	0.47	0.24	57.08	28.56	21.16	4.98
10	Frodingham Road	2006	0.39	0.46	0.22	56.48	28.42	20.78	4.42
11	Wrawby Road	2006	0.36	0.28	0.16	83.96	38.87	27.31	18.59

* See Footnote 4 in DMRB Volume 11 Chapter 3

10.6 DMRB Output – LAQM.TG(03) 6.2 (F) & 8.4 (E) Roads With High Flow Of Buses And/Or HGVs

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor				
Receptor Name	Humber Road		Receptor number	1
Assessment year	2006			

Results							
Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.27	0.06	0.33	mg/m ³	Annual mean*	0.33	mg/m ³
Benzene	1.08	0.05	1.13	µg/m ³	Annual mean	1.13	µg/m ³
1,3-butadiene	0.12	0.17	0.29	µg/m ³	Annual mean	0.29	µg/m ³
NO _x	41.4	57.2	98.6	µg/m ³	Not applicable		
NO ₂	25.1	12.4	37.5	µg/m ³	Annual mean*	37.5	µg/m ³
PM ₁₀	19.0	4.90	23.90	µg/m ³	Annual mean	23.9	µg/m ³
					Days >50µg/m ³	10	Days

Contribution of each link to annual mean					
Link number	CO (mg/m ³)	Benzene (µg/m ³)	1,3-butadiene (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)
1	0.06	0.05	0.17	57.22	4.90
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

* See Footnote 4 in DMRB Volume 11 Chapter 3

All receptors			Pollutant concentrations at receptor						
Receptor number	Name	Year	CO *	Benzene	1,3-butadiene	NO _x	NO ₂ *	PM ₁₀	
			Annual mean mg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Annual mean µg/m ³	Days >50µg/m ³
1	Humber Road	2006	0.33	1.13	0.29	98.62	37.46	23.90	9.92

* See Footnote 4 in DMRB Volume 11 Chapter 3

10.8 8.4 (L) Quarries, Landfill Sites, Open-Cast Coal, etc. Sources Within North Lincolnshire

SiteName	Description of Process	NGR	Distance from relevant receptor	Background PM10 concentration in 2004 (ug/m3)	Dust Complaints?	Detailed Assessment Required?	Reason
JHP Storage Ltd Elsham	Storage of petroleum coke	TA0467513674	340	19.2	No	No	Below background concentration threshold of 26 ug/m3
North Killingholme Storage	Storage of petroleum coke	TA1323016450	480	19.4	No	Yes	Below background concentration threshold of 27 ug/m3
Simon Distribution	Storage of petroleum coke	TA1366017640	830	19.2	No	No	Below background concentration threshold of 27 ug/m3
British Steel Immingham Bulk Terminal	Storage of petroleum coke	-	400	20.2	Yes	No	Below background concentration threshold of 26 ug/m3
Associated British Ports	Coal handling	TA1794317216	600	18.8	Yes	No	Nearest receptor over 1km away from source
New Holland Bulk Terminal	Coal handling	TA0817924355	300	18.1	Yes	No	Below background concentration threshold of 26 ug/m3
Humber Sea Terminal	Coal handling	-	1400		No	No	Nearest receptor over 1km away from source
J Wharton Shipping Ltd	Coal handling	-	600	17.7	No	No	Below background concentration threshold of 27 ug/m3
RMS Europe Ltd Flixborough	Coal handling	SE8606214394	300	17.7	No	No	Below background concentration threshold of 26 ug/m3
RMS Europe Ltd Gunness Wharf	Coal handling	SE838150524	200	17.1	Yes	No	Below background concentration threshold of 26 ug/m3
Coastal Fuels Ltd	Coal handling	TA1628719984	1200		No	No	Nearest receptor over 1km away from source
Appleby Group	Minerals Handling and Processing	SE9179309105	600	19.3	No	No	Below background concentration threshold of 27 ug/m3
Tarmac Northern	Roadstone Coating	SE9282811858	470	17.5	No	No	Below background concentration threshold of 27 ug/m3
Melton Ross Quarries	Quarry/Landfill/Part A Process	TA0750011500	200	26.3	Yes	Yes	Background concentration above threshold of 26 ug/m3, known to be dust problems/complaints, 3 significant sources in close proximity
Middlegate Quarry	Quarry	SE9950020400	510	17.5	No	No	Below background concentration threshold of 27 ug/m3
Ulceby Vale Quarry	Quarry	TA1060013400	170	18.9	No	No	There are no dust complaints/problems associated with the source
Far Ings Road Quarry	Quarry	TA0240023200	290	17.9	No	No	Below background concentration threshold of 26 ug/m3

10.8 8.4 (L) Quarries, Landfill Sites, Open-Cast Coal, etc. Sources Within North Lincolnshire (Continued)

SiteName	Description of Process	NGR	Distance from relevant receptor	Background PM10 concentration in 2004 (ug/m3)	Dust Complaints?	Detailed Assessment Required?	Reason
Pasture Road Quarry	Quarry	TA0400022900	400	17.8	No	No	Below background concentration threshold of 26 ug/m3
Low Melwood Quarry	Quarry	SE8020002100	160	16.9	No	No	There are no dust complaints/problems associated with the source
Conesby Quarry	Quarry	SE8920014500	480	18	No	No	Below background concentration threshold of 27 ug/m3
Kirton Stone Quarry	Quarry	SE9450001500	70	17.4	No	No	There are no dust complaints/problems associated with the source
Manton Stone Quarry	Quarry	SE9360002500	160	17.4	No	No	There are no dust complaints/problems associated with the source
Crowle Moor Extraction	Quarry	SE7550014800	1000	17.3	No	No	Nearest receptor over 1km away from source
Crowle Moor Extraction	Quarry	SE7550015600	1000	17.2	No	No	Nearest receptor over 1km away from source
Flixborough Quarry	Quarry	SE8760014200	560	18.1	No	No	Below background concentration threshold of 27 ug/m3
Eastfield Farm Quarry	Quarry	SE9450021000	70	17.3	No	No	There are no dust complaints/problems associated with the source
Kettleby Quarry	Quarry	TA0550009000	50	25.7	No	No	There are no dust complaints/problems associated with the source
North Moor Road Quarry	Quarry	SE8830003700	360	16.7	No	No	Below background concentration threshold of 26 ug/m3
Brigg Road Quarry (North)	Quarry	SE9100004400	420	17.3	No	No	Below background concentration threshold of 27 ug/m3
Brigg Road Quarry (South)	Quarry	SE9150003600	590	17.4	No	No	Below background concentration threshold of 27 ug/m3
Black Bank Quarry	Quarry	SE8760003900	320	17.1	No	No	Below background concentration threshold of 26 ug/m3
Langholme Farm Quarry	Quarry	SK7490097900	150	17.7	No	No	There are no dust complaints/problems associated with the source
Cove Farm Quarry	Quarry	SE7350001000	280	17.1	No	No	Below background concentration threshold of 26 ug/m3

10.9 Data Inputted Into the Industrial Emissions Screening Tool (IEST)

Operator	Stack Information		Height of Tallest Building Within 5 Stack Heights Of Stack (m)	Distance From Nearest Sensitive Receptor (m)	Background Pollutant Conc ⁿ	
	Height (m)	Diameter (m)			NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)
Caparo Merchant Bar Plc	35	3	20	680	77.2	-
Cemex UK Cement Ltd	91.4	4	50	95	-	-
Centrica KPS Ltd	65	4	26	-	-	18.6
Conoco Phillips (UK) Ltd	72	2	28	238	-	-
Corus UK Ltd	135	7.7	108.6	260	-	-
E.ON UK Plc	55	2	22	510	-	18.2
Edinburgh Oil & Gas Plc	4.6	-	-	1,280	41.1	-
Fibrogen Ltd	50	2	28	505	33.5	-
Immingham CHP	90	10.5	31	28	15.0	18.5
Keadby Generation Ltd	60	8	40	280	-	17.2
National Grid Gas Plc	15	2.9	3	83	15.3	17.4
Regional Power Generators Ltd	70	2	40	780	-	17.8
Singleton Birch Ltd	43.5	1	23.4	457	77.8	26.6
Total Lindsey Oil Refinery	100	2	40	464	-	-