

# **Appendix 5.3: Existing Conditions Supporting Tables**

<b>Table 5.33 Measured NO<sub>2</sub> Concentrations at NPT County Borough Council Automatic Monitoring Sites (2008 – 2013)</b>							
Site	Averaging Period	NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )					
		2008	2009	2010	2011	2012	2013
Port Talbot Fire Station	Annual Mean	18	17	19	18	18	17
Victoria Gardens	Annual Mean	-	-	-	-	(142)	42

Notes: UB = Urban Background, R = Roadside, I = Industrial

<b>Table 5.34 Measured PM<sub>10</sub> and PM<sub>2.5</sub> Concentrations at NPT County Borough Council Automatic Monitoring Sites (2008 – 2013)</b>							
Site	Averaging Period	Concentration (µg/m <sup>3</sup> )					
		2008	2009	2010	2011	2012	2013
<b>PM<sub>10</sub></b>							
Port Talbot Fire Station	Annual Mean	29 (34)	25 (15)	-	29 (29)	23 (11)	23 (17)
Dyffryn School	Annual Mean	22 (10)	20 (4)	19 (6)	17 [28]	16 (3)	21 (2)
Twll-yn-y Wal Park	Annual Mean	26 (0)	24 (9)	24 (14)	30 (21)	23 (8)	25 (9)
Theodore Road	Annual Mean	-	18 [29]	18 (2)	23 (12)	19 (3)	22 (4)
Talbot Road	Annual Mean	-	22 (6)	22 (1)	25 (14)	22 (8)	25 (15)
Port Talbot Little Warren	Annual Mean	-	-	-	-	19 (2)	25 (21)
Port Talbot Docks	Annual Mean	18 (0)	22 (7)	19 (2)	23 (11)	18 (5)	20 (10)

Table 5.34 Measured PM <sub>10</sub> and PM <sub>2.5</sub> Concentrations at NPT County Borough Council Automatic Monitoring Sites (2008 – 2013)							
Site	Averaging Period	Concentration (µg/m <sup>3</sup> )					
		2008	2009	2010	2011	2012	2013
<b>PM<sub>10</sub></b>							
Prince St.	Annual Mean	-	-	25 (19)	33 (50)	22 (11)	-
<b>PM<sub>2.5</sub></b>							
Port Talbot Fire Station	Annual Mean	-	8	10	13	12	14

Table 5.35 Measured SO <sub>2</sub> Concentrations at NPT County Borough Council Automatic Monitoring Sites (2008 – 2013)							
Site	Averaging Period	SO <sub>2</sub> Concentration (µg/m <sup>3</sup> )					
		2008	2009	2010	2011	2012	2013
Port Talbot Fire Station	Annual Mean	6	5	5	5	4	4
	99.1 Percentile 24 hour	38	22	30	32	25	30
	99.7 Percentile hourly	72	59 (1)	72	72	59	75
	99.9 Percentile 15 minute	112	98 (1)	120 (2)	109	85	110

**Table 5.37 Measured Annual Mean NO<sub>2</sub> Concentrations at Diffusion Tube Monitoring Sites**

Ref	Site	Site Type	OS Location	Distance to Site (km)	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )				
					2008	2009	2010	2011	2012
3	11 College Green, Margam, Port Talbot	UB	278794, 187237	1.9	19.3	18.2	19.3	17.0	16.9
4	8 Victoria Gardens, Neath	R	275494, 197272	9.0	32.3	33.3	-	32.0	28.0
5	28 Eastland Road, Neath	R	275420, 197161	8.9	34.0	34.1	36.2	34.0	31.9
7	Moby's, Neath Road, Briton Ferry	R	274312, 194601	6.8	37.3	35.7	35.6	36.0	30.9
8	185 Neath Road, Briton Ferry	R	274307, 194580	6.8	31.6	33.8	35.3	34.0	30.2
9	179 Neath Road, Briton Ferry	R	274305, 194563	6.8	33.3	34.1	35.6	34.0	30.5
10	187 Neath Road, Briton Ferry	R	274308, 194584	6.8	32.5	34.1	35.9	34.0	31.3
11	189 Neath Road, Briton Ferry	R	274310, 194589	6.8	34.0	34.2	34.5	33.0	31.3



**Table 5.37 Measured Annual Mean NO<sub>2</sub> Concentrations at Diffusion Tube Monitoring Sites**

Ref	Site	Site Type	OS Location	Distance to Site (km)	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )				
					2008	2009	2010	2011	2012
12	34 Eastland Road, Neath	R	275427, 197139	8.9	30.8	34.2	37.4	35.0	31.8
13	40 Eastland Road, Neath	R	275415, 197110	8.9	30.7	28.0	33.7	30.0	29.3
14	32 Eastland Road, Neath	R	275431, 197149	8.9	34.2	35.5	37.0	34.0	32.2
15	30 Eastland Road, Neath	R	275434, 197157	8.9	34.3	34.2	37.5	36.0	32.7
16	5 Victoria Gardens, Neath	R	275464, 197230	9.0	<b>41.1</b>	<b>40.0</b>	39.5	<b>41.0</b>	35.2
17	1 Greenway Road, Neath	R	275455, 197211	9.0	-	37.5	38.8	35.0	31.0
19	Port Talbot Fire Station	R	277399, 188734	0.3	-	19.1	19.3	20.3	18.3
20	3 Victoria Gardens, Neath	R	275463, 197223	9.0	-	36.2	<b>41.9</b>	<b>42.0</b>	36.0

**Table 5.37 Measured Annual Mean NO<sub>2</sub> Concentrations at Diffusion Tube Monitoring Sites**

Ref	Site	Site Type	OS Location	Distance to Site (km)	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )				
					2008	2009	2010	2011	2012
21	50 Greenway Road, Neath	R	275452, 197195	8.9	-	33.8	34.8	34.0	30.4
22	54 Windsor Road, Neath	R	275146, 197248	9.1	-	32.4	32.5	32.0	28.6
23	4 Victoria Gardens, Neath	R	275482, 197227	9.0	-	38.1	35.1	36.0	31.4
24	Stockham's Corner Flats	R	275200, 196905	8.7	-	37.4	36.4	36.0	34.2
25	Old Fire Station, Water Street, Port Talbot	R	276131, 189926	1.9	-	-	-	30.0	28.0
34	Lights at Cimla Junction	R	275472, 197185	8.9	-	-	-	-	<b>46.6</b>

Notes: UB = Urban Background, R = Roadside, I = Industrial. Exceedences of the annual AQS objective are shown in bold.



**Table 5.38 Measured Dust Deposition Rates (2008 – 2012)**

Site	Site Type	OS Location	Distance to Site (km)	Annual Average Dust Deposition Rates (mg/m <sup>2</sup> /day)				
				2008	2009	2010	2011	2012
Cil Carne Farm, Bryn, Port Talbot	R	279900, 192800	5.11	36	22 (0)	21 (0)	31 (0)	22 (0)
41 Parish Road, Cwmgwrach	O	287800, 205300	19.90	25	18 (0)	22 (0)	45 (0)	35 (0)
Primary School, Gwaun Cae Gurwen	O	270600, 212300	24.74	29	28 (0)	25 (0)	23 (0)	26 (0)
2 Llygad Yr Haul, Glynneath	UB	286900, 206400	20.40	25	18 (0)	20 (0)	30 (0)	23 (0)
Port Talbot Fire Station, Margam, Port Talbot	I	277399, 188734	0.34	198	98 (0)	115 (56)	126 (84)	106 (0)
24 Prince Street, Margam, Port Talbot	S	277689, 188233	0.49	227	148 (96)	133 (54)	221 (138)	99 (29)
Eglwys Nynydd Reservoir, Margam, Port Talbot	O	279700, 185400	3.95	51	57 (0)	56 (0)	53 (0)	44 (0)
11 Wembley Avenue, Onllwyn	O	284500, 210400	23.13	53	39 (0)	36 (0)	21 (0)	36 (0)

**Table 5.38 Measured Dust Deposition Rates (2008 – 2012)**

Site	Site Type	OS Location	Distance to Site (km)	Annual Average Dust Deposition Rates (mg/m <sup>2</sup> /day)				
				2008	2009	2010	2011	2012
Cardonnel Road, Skewen	UB	272800, 196700	9.35	25	48 (23)	24 (0)	-	24 (0)
Workingmen's Club, Tairgwaith	O	271800, 212200	24.35	51	20 (0)	33 (0)	21 (0)	25 (0)
Little Warren, Aberafan, Port Talbot	UI	275313, 188879	1.93	67	59 (0)	61 (0)	63 (0)	65 (0)
Dyffryn School, Margam, Port Talbot	UB	278742, 187405	1.87	100	80 (0)	85 (28)	73 (0)	66 (0)
Ochwr y Waun, Cwmllynfell	O	273800, 212800	24.58	39	37	49	88 (58)	48 (0)
Jeremy's Oil Distributors, Baldwins Crescent	UB	269500, 193000	8.94	67	58	-	-	-
Bryn Hyfryd, Margam	RU	283270, 184220	7.40	32	27 (0)	27 (0)	-	-

Notes: RU = Rural, O = Other, I = Industrial, UB = Urban Background, UI = Urban Industrial, S = Suburban

The numbers of exceedences of the custom and practice nuisance limit of 200 mg/m<sup>2</sup>/day are presented in parentheses

