

Quarterly Air Quality Monitoring Report 2

2006

Part A: DEC Data

April – May – June
2006

Department of **Environment and Conservation** NSW



Contents

Data Tables

- 1 Ozone (O_3)
- 2 Nitrogen Dioxide (NO_2)
- 3 Oxides of Nitrogen (NO_x & NO)
- 4 Particulate Matter
 - 4.1 By Nephelometer (NEPH)
 - 4.2 Tapered Element Oscillating Microbalance (TEOM- PM_{10})
 - 4.3 Tapered Element Oscillating Microbalance (TEOM- $PM_{2.5}$)
- 5 Sulfur Dioxide (SO_2)
- 6 Carbon Monoxide (CO)
- 7 Regional Pollution Index (RPI)

TABLE 1
OZONE (O₃)

Parts per hundred million (pphm)
1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 10 pphm
4-hour average = 8 pphm
NSW GOV'T LONG TERM GOAL: 1-hour average = 8 pphm
4-hour average = 6 pphm

MONITORING SITE		APR	MAY	JUN
Central East Sydney region				
CHULLORA				
Southern Sydney TAFE				
Worth St				
ALL HOURS IN MONTH:				
% Sampling Time		86	95	95
Average		1.5	1.0	0.8
DAILY 1-HOUR MAXIMA:				
Monthly Average		3.2	2.6	2.1
90-percentile Value		4.6	3.2	2.8
Maximum 1-hour Value		5.1	3.5	3.0
Maximum 4-hour Value		4.6	3.4	2.8
NEPM STANDARD LEVEL:				
No. Hours Above Level		0 (0)	0 (0)	0 (0)
No. Days Above Level		0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:				
No. Hours Above Goal		0 (0)	0 (0)	0 (0)
No. Days Above Goal		0 (0)	0 (0)	0 (0)
EARLWOOD				
Beaman Park				
Riverview Rd				
ALL HOURS IN MONTH:				
% Sampling Time		95	92	95
Average		1.5	1.1	0.8
DAILY 1-HOUR MAXIMA:				
Monthly Average		3.4	2.6	2.0
90-percentile Value		4.8	3.3	2.6
Maximum 1-hour Value		6.4	3.6	2.8
Maximum 4-hour Value		5.4	3.4	2.7
NEPM STANDARD LEVEL:				
No. Hours Above Level		0 (0)	0 (0)	0 (0)
No. Days Above Level		0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:				
No. Hours Above Goal		0 (0)	0 (0)	0 (0)
No. Days Above Goal		0 (0)	0 (0)	0 (0)
RANDWICK				
Randwick Barracks				
ALL HOURS IN MONTH:				
% Sampling Time		79	92	95
Average		1.7	1.3	0.9
DAILY 1-HOUR MAXIMA:				
Monthly Average		3.2	2.7	2.3
90-percentile Value		4.6	3.6	2.8
Maximum 1-hour Value		6.8	3.9	3.3
Maximum 4-hour Value		6.4	3.4	3.2
NEPM STANDARD LEVEL:				
No. Hours Above Level		0 (0)	0 (0)	0 (0)
No. Days Above Level		0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:				
No. Hours Above Goal		0 (3)	0 (0)	0 (0)
No. Days Above Goal		0 (1)	0 (0)	0 (0)

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 1 (Cont'd)
OZONE (O₃)

Parts per hundred million (pphm)
1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 10 pphm
4-hour average = 8 pphm
NSW GOV'T LONG TERM GOAL: 1-hour average = 8 pphm
4-hour average = 6 pphm

MONITORING SITE		APR	MAY	JUN
Central East Sydney region (Cont'd)				
ROZELLE				
Rozelle Hospital				
Balmain Rd	ALL HOURS IN MONTH:			
	% Sampling Time	95	95	94
	Average	1.5	1.0	0.7
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	3.1	2.5	1.9
	90-percentile Value	4.7	3.0	2.7
	Maximum 1-hour Value	5.4	4.6	2.8
	Maximum 4-hour Value	4.8	3.3	2.5
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0 (0)	0 (0)	0 (0)
	No. Days Above Level	0 (0)	0 (0)	0 (0)
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0 (0)	0 (0)	0 (0)
	No. Days Above Goal	0 (0)	0 (0)	0 (0)
North West Sydney region				
RICHMOND				
University Of Western Sydney				
Vines Rd	ALL HOURS IN MONTH:			
	% Sampling Time	95	95	89
	Average	1.7	1.4	1.0
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	3.4	3.1	2.7
	90-percentile Value	4.3	4.3	3.2
	Maximum 1-hour Value	4.6	4.8	5.7
	Maximum 4-hour Value	4.2	4.4	3.3
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0 (0)	0 (0)	0 (0)
	No. Days Above Level	0 (0)	0 (0)	0 (0)
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0 (0)	0 (0)	0 (0)
	No. Days Above Goal	0 (0)	0 (0)	0 (0)
ST MARYS				
Mamre Rd				
	ALL HOURS IN MONTH:			
	% Sampling Time	96	80	95
	Average	1.6	1.2	0.8
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	3.3	2.7	2.3
	90-percentile Value	4.4	3.6	2.9
	Maximum 1-hour Value	5.6	3.9	3.0
	Maximum 4-hour Value	5.0	3.6	2.8
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0 (0)	0 (0)	0 (0)
	No. Days Above Level	0 (0)	0 (0)	0 (0)
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0 (0)	0 (0)	0 (0)
	No. Days Above Goal	0 (0)	0 (0)	0 (0)

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 1 (Cont'd)
OZONE (O₃)

Parts per hundred million (pphm)
1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 10 pphm
4-hour average = 8 pphm
NSW GOV'T LONG TERM GOAL: 1-hour average = 8 pphm
4-hour average = 6 pphm

MONITORING SITE		APR	MAY	JUN
North West Sydney region (Cont'd)				
VINEYARD				
Castle Hill STP				
Bandon Rd				
ALL HOURS IN MONTH:				
% Sampling Time		85	90	78
Average		1.9	1.3	1.0
DAILY 1-HOUR MAXIMA:				
Monthly Average		3.3	2.8	2.6
90-percentile Value		4.3	3.7	3.3
Maximum 1-hour Value		5.5	4.3	3.3
Maximum 4-hour Value		4.9	4.0	3.1
NEPM STANDARD LEVEL:				
No. Hours Above Level		0 (0)	0 (0)	0 (0)
No. Days Above Level		0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:				
No. Hours Above Goal		0 (0)	0 (0)	0 (0)
No. Days Above Goal		0 (0)	0 (0)	0 (0)
South West Sydney region				
BARGO				
Silica Rd				
ALL HOURS IN MONTH:				
% Sampling Time		92	82	91
Average		1.9	2.0	1.7
DAILY 1-HOUR MAXIMA:				
Monthly Average		3.3	3.1	2.8
90-percentile Value		4.2	4.0	3.2
Maximum 1-hour Value		4.4	4.3	3.4
Maximum 4-hour Value		4.2	4.0	3.2
NEPM STANDARD LEVEL:				
No. Hours Above Level		0 (0)	0 (0)	0 (0)
No. Days Above Level		0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:				
No. Hours Above Goal		0 (0)	0 (0)	0 (0)
No. Days Above Goal		0 (0)	0 (0)	0 (0)
BRINGELLY				
Ramsay Rd				
ALL HOURS IN MONTH:				
% Sampling Time		79	95	94
Average		1.6	1.4	1.1
DAILY 1-HOUR MAXIMA:				
Monthly Average		3.3	2.8	2.5
90-percentile Value		4.5	3.6	3.1
Maximum 1-hour Value		4.9	4.1	3.3
Maximum 4-hour Value		4.5	3.9	3.1
NEPM STANDARD LEVEL:				
No. Hours Above Level		0 (0)	0 (0)	0 (0)
No. Days Above Level		0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:				
No. Hours Above Goal		0 (0)	0 (0)	0 (0)
No. Days Above Goal		0 (0)	0 (0)	0 (0)

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 1 (Cont'd)
OZONE (O₃)

Parts per hundred million (pphm)
1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 10 pphm
4-hour average = 8 pphm
NSW GOV'T LONG TERM GOAL: 1-hour average = 8 pphm
4-hour average = 6 pphm

MONITORING SITE	APR	MAY	JUN
South West Sydney region (Cont'd)			
LIVERPOOL			
Rose St			
ALL HOURS IN MONTH:			
% Sampling Time	85	95	93
Average	1.4	1.1	0.9
DAILY 1-HOUR MAXIMA:			
Monthly Average	3.1	2.7	2.2
90-percentile Value	4.4	3.3	2.9
Maximum 1-hour Value	5.3	3.9	3.1
Maximum 4-hour Value	4.9	3.6	2.8
NEPM STANDARD LEVEL:			
No. Hours Above Level	0 (0)	0 (0)	0 (0)
No. Days Above Level	0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0 (0)	0 (0)	0 (0)
No. Days Above Goal	0 (0)	0 (0)	0 (0)
MACARTHUR			
UWS Campbelltown campus			
ALL HOURS IN MONTH:			
% Sampling Time	96	95	94
Average	1.5	1.3	1.0
DAILY 1-HOUR MAXIMA:			
Monthly Average	3.2	2.8	2.4
90-percentile Value	4.4	3.7	2.9
Maximum 1-hour Value	5.1	3.8	3.0
Maximum 4-hour Value	4.3	3.7	2.8
NEPM STANDARD LEVEL:			
No. Hours Above Level	0 (0)	0 (0)	0 (0)
No. Days Above Level	0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0 (0)	0 (0)	0 (0)
No. Days Above Goal	0 (0)	0 (0)	0 (0)
OAKDALE			
Ridge Rd			
ALL HOURS IN MONTH:			
% Sampling Time	78	81	96
Average	2.6	2.5	2.3
DAILY 1-HOUR MAXIMA:			
Monthly Average	3.3	3.0	2.9
90-percentile Value	4.1	3.6	3.2
Maximum 1-hour Value	4.8	3.9	3.6
Maximum 4-hour Value	4.6	3.8	3.4
NEPM STANDARD LEVEL:			
No. Hours Above Level	0 (0)	0 (0)	0 (0)
No. Days Above Level	0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0 (0)	0 (0)	0 (0)
No. Days Above Goal	0 (0)	0 (0)	0 (0)

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 1 (Cont'd)
OZONE (O₃)

Parts per hundred million (pphm)
1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 10 pphm
4-hour average = 8 pphm
NSW GOV'T LONG TERM GOAL: 1-hour average = 8 pphm
4-hour average = 6 pphm

MONITORING SITE	APR	MAY	JUN
Illawarra region			
ALBION PARK SOUTH			
Hughes Dr			
ALL HOURS IN MONTH:			
% Sampling Time	86	63	96
Average	2.1	1.8	1.6
DAILY 1-HOUR MAXIMA:			
Monthly Average	3.4	2.8	2.7
90-percentile Value	5.3	3.2	2.9
Maximum 1-hour Value	5.5	3.6	3.1
Maximum 4-hour Value	5.1	3.5	2.9
NEPM STANDARD LEVEL:			
No. Hours Above Level	0 (0)	0 (0)	0 (0)
No. Days Above Level	0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0 (0)	0 (0)	0 (0)
No. Days Above Goal	0 (0)	0 (0)	0 (0)
KEMBLA GRANGE			
Kembla Grange Racecourse			
Princes Hwy			
ALL HOURS IN MONTH:			
% Sampling Time	96	95	95
Average	1.9	1.7	1.4
DAILY 1-HOUR MAXIMA:			
Monthly Average	3.2	2.8	2.7
90-percentile Value	4.7	3.1	3.0
Maximum 1-hour Value	4.9	3.9	3.1
Maximum 4-hour Value	4.7	3.7	3.0
NEPM STANDARD LEVEL:			
No. Hours Above Level	0 (0)	0 (0)	0 (0)
No. Days Above Level	0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0 (0)	0 (0)	0 (0)
No. Days Above Goal	0 (0)	0 (0)	0 (0)
WARRAWONG			
Carlotta Cres			
ALL HOURS IN MONTH:			
% Sampling Time	92	85	***
Average	1.8	1.8	***
DAILY 1-HOUR MAXIMA:			
Monthly Average	3.0	2.8	***
90-percentile Value	5.2	3.4	***
Maximum 1-hour Value	5.6	4.0	***
Maximum 4-hour Value	5.0	3.8	***
NEPM STANDARD LEVEL:			
No. Hours Above Level	0 (0)	0 (0)	*** (***)
No. Days Above Level	0 (0)	0 (0)	*** (***)
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0 (0)	0 (0)	*** (***)
No. Days Above Goal	0 (0)	0 (0)	*** (***)

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 1 (Cont'd)
OZONE (O₃)

Parts per hundred million (pphm)
1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 10 pphm
4-hour average = 8 pphm
NSW GOV'T LONG TERM GOAL: 1-hour average = 8 pphm
4-hour average = 6 pphm

MONITORING SITE	APR	MAY	JUN
Illawarra region (Cont'd)			
WOLLONGONG			
Gipps St			
ALL HOURS IN MONTH:			
% Sampling Time	92	95	96
Average	1.8	1.6	1.3
DAILY 1-HOUR MAXIMA:			
Monthly Average	3.4	2.9	2.6
90-percentile Value	5.3	3.4	3.0
Maximum 1-hour Value	5.8	4.2	3.2
Maximum 4-hour Value	5.6	4.0	3.1
NEPM STANDARD LEVEL:			
No. Hours Above Level	0 (0)	0 (0)	0 (0)
No. Days Above Level	0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0 (0)	0 (0)	0 (0)
No. Days Above Goal	0 (0)	0 (0)	0 (0)
Lower Hunter region			
BERESFIELD			
Francis Greenway			
High School			
ALL HOURS IN MONTH:			
% Sampling Time	95	77	43
Average	1.5	1.1	1.1
DAILY 1-HOUR MAXIMA:			
Monthly Average	3.2	2.6	1.9
90-percentile Value	4.1	3.0	2.5
Maximum 1-hour Value	4.4	4.5	2.7
Maximum 4-hour Value	4.1	4.2	2.6
NEPM STANDARD LEVEL:			
No. Hours Above Level	0 (0)	0 (0)	0 (0)
No. Days Above Level	0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0 (0)	0 (0)	0 (0)
No. Days Above Goal	0 (0)	0 (0)	0 (0)
NEWCASTLE			
Athletics Field			
Smith St			
ALL HOURS IN MONTH:			
% Sampling Time	92	96	87
Average	1.5	1.2	0.8
DAILY 1-HOUR MAXIMA:			
Monthly Average	3.1	2.5	1.8
90-percentile Value	4.0	3.1	2.6
Maximum 1-hour Value	4.7	3.8	3.1
Maximum 4-hour Value	4.3	3.5	2.8
NEPM STANDARD LEVEL:			
No. Hours Above Level	0 (0)	0 (0)	0 (0)
No. Days Above Level	0 (0)	0 (0)	0 (0)
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0 (0)	0 (0)	0 (0)
No. Days Above Goal	0 (0)	0 (0)	0 (0)

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 1 (Cont'd)
OZONE (O₃)

Parts per hundred million (pphm)
1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 10 pphm
4-hour average = 8 pphm
NSW GOV'T LONG TERM GOAL: 1-hour average = 8 pphm
4-hour average = 6 pphm

MONITORING SITE		APR	MAY	JUN
Lower Hunter region (Cont'd)				
WALLSEND				
Swimming Pool				
Frances St	ALL HOURS IN MONTH:			
	% Sampling Time	95	95	95
	Average	1.5	1.2	1.0
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	3.2	2.7	2.2
	90-percentile Value	4.0	3.2	2.7
	Maximum 1-hour Value	4.5	3.7	2.9
	Maximum 4-hour Value	4.0	3.7	2.7
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0 (0)	0 (0)	0 (0)
	No. Days Above Level	0 (0)	0 (0)	0 (0)
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0 (0)	0 (0)	0 (0)
	No. Days Above Goal	0 (0)	0 (0)	0 (0)
Central Tablelands region				
BATHURST				
Wastewater Treatment Plant				
Off Morrisset St	ALL HOURS IN MONTH:			
	% Sampling Time	96	89	95
	Average	1.5	1.2	1.0
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	3.1	2.8	2.7
	90-percentile Value	3.6	3.6	3.1
	Maximum 1-hour Value	4.2	4.5	3.5
	Maximum 4-hour Value	3.9	4.3	3.4
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0 (0)	0 (0)	0 (0)
	No. Days Above Level	0 (0)	0 (0)	0 (0)
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0 (0)	0 (0)	0 (0)
	No. Days Above Goal	0 (0)	0 (0)	0 (0)

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 2

NITROGEN DIOXIDE (NO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 12 pphm
NSW GOV'T LONG TERM GOAL: 1-hour average = 10.5 pphm

MONITORING SITE		APR	MAY	JUN
Central East Sydney region				
CHULLORA				
Southern Sydney TAFE				
Worth St				
ALL HOURS IN MONTH:				
% Sampling Time		86	95	95
Average		1.5	1.6	1.8
DAILY 1-HOUR MAXIMA:				
Monthly Average		2.9	2.8	2.8
90-percentile Value		4.2	3.7	3.6
Maximum 1-hour Value		6.6	3.9	4.4
NEPM STANDARD LEVEL:				
No. Hours Above Level		0	0	0
No. Days Above Level		0	0	0
NSW GOV'T LONG TERM GOAL:				
No. Hours Above Goal		0	0	0
No. Days Above Goal		0	0	0
EARLWOOD				
Beaman Park				
Riverview Rd				
ALL HOURS IN MONTH:				
% Sampling Time		95	92	91
Average		1.7	1.8	1.9
DAILY 1-HOUR MAXIMA:				
Monthly Average		3.4	2.9	2.8
90-percentile Value		4.8	3.7	3.4
Maximum 1-hour Value		6.5	4.2	3.8
NEPM STANDARD LEVEL:				
No. Hours Above Level		0	0	0
No. Days Above Level		0	0	0
NSW GOV'T LONG TERM GOAL:				
No. Hours Above Goal		0	0	0
No. Days Above Goal		0	0	0
RANDWICK				
Randwick Barracks				
ALL HOURS IN MONTH:				
% Sampling Time		92	95	95
Average		1.3	1.5	1.8
DAILY 1-HOUR MAXIMA:				
Monthly Average		2.8	2.8	2.7
90-percentile Value		4.0	3.5	3.2
Maximum 1-hour Value		4.2	3.9	3.3
NEPM STANDARD LEVEL:				
No. Hours Above Level		0	0	0
No. Days Above Level		0	0	0
NSW GOV'T LONG TERM GOAL:				
No. Hours Above Goal		0	0	0
No. Days Above Goal		0	0	0

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 2 (Cont'd)

NITROGEN DIOXIDE (NO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 12 pphm
 NSW GOV'T LONG TERM GOAL: 1-hour average = 10.5 pphm

MONITORING SITE		APR	MAY	JUN
Central East Sydney region (Cont'd)				
ROZELLE				
Rozelle Hospital				
Balmain Rd	ALL HOURS IN MONTH:			
	% Sampling Time	95	94	94
	Average	1.4	1.7	1.8
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	2.8	2.8	2.7
	90-percentile Value	4.2	3.6	3.5
	Maximum 1-hour Value	5.3	4.8	3.6
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0	0	0
	No. Days Above Level	0	0	0
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0	0	0
	No. Days Above Goal	0	0	0
North West Sydney region				
RICHMOND				
University Of Western Sydney				
Vines Rd	ALL HOURS IN MONTH:			
	% Sampling Time	95	95	89
	Average	0.7	0.8	0.8
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	1.8	2.0	1.8
	90-percentile Value	3.0	2.9	2.4
	Maximum 1-hour Value	4.4	3.5	2.8
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0	0	0
	No. Days Above Level	0	0	0
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0	0	0
	No. Days Above Goal	0	0	0
ST MARYS				
Mamre Rd				
	ALL HOURS IN MONTH:			
	% Sampling Time	96	93	95
	Average	0.7	0.8	0.8
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	1.9	2.0	1.9
	90-percentile Value	2.9	2.8	2.5
	Maximum 1-hour Value	3.8	3.3	2.6
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0	0	0
	No. Days Above Level	0	0	0
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0	0	0
	No. Days Above Goal	0	0	0

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 2 (Cont'd)

NITROGEN DIOXIDE (NO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 12 pphm
 NSW GOV'T LONG TERM GOAL: 1-hour average = 10.5 pphm

MONITORING SITE		APR	MAY	JUN
North West Sydney region (Cont'd)				
VINEYARD				
Castle Hill STP				
Bandon Rd	ALL HOURS IN MONTH:			
	% Sampling Time	86	92	79
	Average	0.7	0.9	1.1
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	1.7	2.1	2.3
	90-percentile Value	3.3	2.9	2.9
	Maximum 1-hour Value	4.0	4.3	3.4
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0	0	0
	No. Days Above Level	0	0	0
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0	0	0
	No. Days Above Goal	0	0	0
South West Sydney region				
BARGO				
Silica Rd				
	ALL HOURS IN MONTH:			
	% Sampling Time	92	83	91
	Average	0.7	0.7	0.9
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	2.0	1.9	1.9
	90-percentile Value	3.4	3.0	2.5
	Maximum 1-hour Value	4.3	3.5	3.2
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0	0	0
	No. Days Above Level	0	0	0
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0	0	0
	No. Days Above Goal	0	0	0
BRINGELLY				
Ramsay Rd				
	ALL HOURS IN MONTH:			
	% Sampling Time	82	95	94
	Average	0.6	0.6	0.7
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	1.6	1.7	1.6
	90-percentile Value	2.8	2.3	2.3
	Maximum 1-hour Value	3.9	3.7	2.6
	NEPM STANDARD LEVEL:			
	No. Hours Above Level	0	0	0
	No. Days Above Level	0	0	0
	NSW GOV'T LONG TERM GOAL:			
	No. Hours Above Goal	0	0	0
	No. Days Above Goal	0	0	0

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 2 (Cont'd)

NITROGEN DIOXIDE (NO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 12 pphm
 NSW GOV'T LONG TERM GOAL: 1-hour average = 10.5 pphm

MONITORING SITE	APR	MAY	JUN
South West Sydney region (Cont'd)			
LIVERPOOL			
Rose St			
ALL HOURS IN MONTH:			
% Sampling Time	95	95	95
Average	1.3	1.4	1.5
DAILY 1-HOUR MAXIMA:			
Monthly Average	2.7	2.7	2.5
90-percentile Value	4.5	3.7	3.1
Maximum 1-hour Value	5.1	4.5	3.2
NEPM STANDARD LEVEL:			
No. Hours Above Level	0	0	0
No. Days Above Level	0	0	0
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0	0	0
No. Days Above Goal	0	0	0
MACARTHUR			
UWS Campbelltown campus			
ALL HOURS IN MONTH:			
% Sampling Time	96	95	94
Average	1.2	1.3	1.4
DAILY 1-HOUR MAXIMA:			
Monthly Average	2.8	2.6	2.4
90-percentile Value	4.6	3.3	3.2
Maximum 1-hour Value	6.6	4.8	3.8
NEPM STANDARD LEVEL:			
No. Hours Above Level	0	0	0
No. Days Above Level	0	0	0
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0	0	0
No. Days Above Goal	0	0	0
OAKDALE			
Ridge Rd			
ALL HOURS IN MONTH:			
% Sampling Time	72	95	96
Average	0.2	0.2	0.2
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.6	0.6	0.6
90-percentile Value	1.3	1.4	1.1
Maximum 1-hour Value	1.4	2.2	2.0
NEPM STANDARD LEVEL:			
No. Hours Above Level	0	0	0
No. Days Above Level	0	0	0
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0	0	0
No. Days Above Goal	0	0	0

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 2 (Cont'd)

NITROGEN DIOXIDE (NO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 12 pphm
 NSW GOV'T LONG TERM GOAL: 1-hour average = 10.5 pphm

MONITORING SITE	APR	MAY	JUN
Illawarra region			
ALBION PARK SOUTH			
Hughes Dr			
ALL HOURS IN MONTH:			
% Sampling Time	86	63	96
Average	0.5	0.4	0.5
DAILY 1-HOUR MAXIMA:			
Monthly Average	1.2	1.2	1.2
90-percentile Value	2.1	1.9	1.8
Maximum 1-hour Value	2.7	2.7	3.1
NEPM STANDARD LEVEL:			
No. Hours Above Level	0	0	0
No. Days Above Level	0	0	0
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0	0	0
No. Days Above Goal	0	0	0
KEMBLA GRANGE			
Kembla Grange Racecourse			
Princes Hwy			
ALL HOURS IN MONTH:			
% Sampling Time	96	95	95
Average	0.5	0.5	0.6
DAILY 1-HOUR MAXIMA:			
Monthly Average	1.3	1.3	1.4
90-percentile Value	2.0	2.2	2.1
Maximum 1-hour Value	2.6	2.8	2.2
NEPM STANDARD LEVEL:			
No. Hours Above Level	0	0	0
No. Days Above Level	0	0	0
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0	0	0
No. Days Above Goal	0	0	0
WARRAWONG			
Carlotta Cres			
ALL HOURS IN MONTH:			
% Sampling Time	93	90	***
Average	0.7	0.7	***
DAILY 1-HOUR MAXIMA:			
Monthly Average	1.7	1.9	***
90-percentile Value	3.1	3.3	***
Maximum 1-hour Value	3.8	4.3	***
NEPM STANDARD LEVEL:			
No. Hours Above Level	0	0	***
No. Days Above Level	0	0	***
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0	0	***
No. Days Above Goal	0	0	***

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 2 (Cont'd)

NITROGEN DIOXIDE (NO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 12 pphm
 NSW GOV'T LONG TERM GOAL: 1-hour average = 10.5 pphm

MONITORING SITE	APR	MAY	JUN
Illawarra region (Cont'd)			
WOLLONGONG			
Gipps St			
ALL HOURS IN MONTH:			
% Sampling Time	92	95	96
Average	0.9	1.0	1.1
DAILY 1-HOUR MAXIMA:			
Monthly Average	2.2	2.2	2.1
90-percentile Value	4.4	3.1	2.8
Maximum 1-hour Value	5.0	4.5	3.1
NEPM STANDARD LEVEL:			
No. Hours Above Level	0	0	0
No. Days Above Level	0	0	0
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0	0	0
No. Days Above Goal	0	0	0
Lower Hunter region			
BERESFIELD			
Francis Greenway			
High School			
ALL HOURS IN MONTH:			
% Sampling Time	92	79	95
Average	1.1	1.3	1.4
DAILY 1-HOUR MAXIMA:			
Monthly Average	2.3	2.4	2.4
90-percentile Value	3.0	3.1	2.9
Maximum 1-hour Value	3.6	3.4	3.4
NEPM STANDARD LEVEL:			
No. Hours Above Level	0	0	0
No. Days Above Level	0	0	0
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0	0	0
No. Days Above Goal	0	0	0
NEWCASTLE			
Athletics Field			
Smith St			
ALL HOURS IN MONTH:			
% Sampling Time	96	95	71
Average	1.1	1.2	1.1
DAILY 1-HOUR MAXIMA:			
Monthly Average	2.2	2.3	1.7
90-percentile Value	3.0	3.0	2.4
Maximum 1-hour Value	3.3	3.2	2.7
NEPM STANDARD LEVEL:			
No. Hours Above Level	0	0	0
No. Days Above Level	0	0	0
NSW GOV'T LONG TERM GOAL:			
No. Hours Above Goal	0	0	0
No. Days Above Goal	0	0	0

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 2 (Cont'd)

NITROGEN DIOXIDE (NO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 1-hour average = 12 pphm
NSW GOV'T LONG TERM GOAL: 1-hour average = 10.5 pphm

MONITORING SITE		APR	MAY	JUN
Lower Hunter region (Cont'd)				
WALLSEND				
Swimming Pool				
Frances St				
ALL HOURS IN MONTH:				
% Sampling Time		95	96	95
Average		1.0	1.0	1.2
DAILY 1-HOUR MAXIMA:				
Monthly Average		2.1	2.3	2.3
90-percentile Value		2.7	2.9	2.7
Maximum 1-hour Value		3.1	3.5	3.2
NEPM STANDARD LEVEL:				
No. Hours Above Level		0	0	0
No. Days Above Level		0	0	0
NSW GOV'T LONG TERM GOAL:				
No. Hours Above Goal		0	0	0
No. Days Above Goal		0	0	0

*** Data not available

() Numbers in brackets indicate exceedences of the 4-hour NEPM Standard Level and 4-hour NSW goal

2006 Data

TABLE 3

OXIDES OF NITROGEN – NO_x (TOTAL OXIDES OF NITROGEN) & NO (NITRIC OXIDE)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

MONITORING SITE		APR		MAY		JUN	
		NO _x	NO	NO _x	NO	NO _x	NO
Central East Sydney region							
CHULLORA							
Southern Sydney TAFE							
Worth St	ALL HOURS IN MONTH:						
	% Sampling Time	86	86	95	95	95	95
	Average	2.8	1.4	3.9	2.3	5.7	4.0
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	8.5	6.1	11.5	9.0	15.7	13.3
	90-percentile Value	16.7	13.9	19.6	16.6	31.0	28.1
	Maximum 1-hour Value	19.8	14.8	27.2	23.9	49.4	45.6
EARLWOOD							
Beaman Park							
Riverview Rd	ALL HOURS IN MONTH:						
	% Sampling Time	95	95	92	92	91	91
	Average	3.7	2.1	5.5	3.8	7.5	5.7
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	12.0	9.4	16.0	13.7	20.0	17.7
	90-percentile Value	20.0	17.3	24.8	22.8	33.4	30.9
	Maximum 1-hour Value	21.5	19.1	29.7	27.7	46.9	44.3
RANDWICK							
Randwick Barracks							
	ALL HOURS IN MONTH:						
	% Sampling Time	92	92	95	95	95	95
	Average	2.3	1.0	3.1	1.6	4.7	2.9
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	7.7	5.2	9.5	6.9	12.3	9.8
	90-percentile Value	13.1	10.2	15.8	13.1	19.7	16.8
	Maximum 1-hour Value	14.2	11.4	19.5	16.4	26.7	24.0
ROZELLE							
Rozelle Hospital							
Balmain Rd	ALL HOURS IN MONTH:						
	% Sampling Time	95	95	94	94	94	94
	Average	2.2	0.9	3.5	1.8	5.0	3.2
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	6.7	4.2	9.4	7.0	12.8	10.5
	90-percentile Value	10.5	8.0	18.3	15.6	22.7	19.7
	Maximum 1-hour Value	14.3	9.3	21.0	18.1	29.4	26.0
North West Sydney region							
RICHMOND							
University Of Western Sydney							
Vines Rd	ALL HOURS IN MONTH:						
	% Sampling Time	95	95	95	95	89	89
	Average	0.9	0.2	1.4	0.6	1.8	1.0
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	2.6	1.4	4.0	2.7	4.5	3.2
	90-percentile Value	4.8	2.9	5.6	4.5	7.2	5.4
	Maximum 1-hour Value	6.5	4.3	6.5	5.0	8.1	6.2

*** Data not available

2006 Data

TABLE 3 (Cont'd)

OXIDES OF NITROGEN – NO_x (TOTAL OXIDES OF NITROGEN) & NO (NITRIC OXIDE)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

MONITORING SITE	APR		MAY		JUN	
	NO _x	NO	NO _x	NO	NO _x	NO
North West Sydney region (Cont'd)						
ST MARYS						
Mamre Rd						
ALL HOURS IN MONTH:						
% Sampling Time	96	96	93	93	95	95
Average	1.1	0.4	1.8	1.1	2.6	1.8
DAILY 1-HOUR MAXIMA:						
Monthly Average	4.3	3.0	7.7	6.4	10.0	8.9
90-percentile Value	7.9	6.7	15.0	13.0	20.2	18.9
Maximum 1-hour Value	8.8	8.2	16.7	15.6	25.3	23.5
VINEYARD						
Castle Hill STP						
Bandon Rd						
ALL HOURS IN MONTH:						
% Sampling Time	86	86	92	92	79	79
Average	0.9	0.2	1.5	0.5	2.3	1.2
DAILY 1-HOUR MAXIMA:						
Monthly Average	2.5	1.3	3.9	2.4	5.4	3.9
90-percentile Value	4.8	3.3	5.6	4.6	9.6	7.9
Maximum 1-hour Value	6.1	3.8	7.7	6.4	11.4	8.6
South West Sydney region						
BARGO						
Silica Rd						
ALL HOURS IN MONTH:						
% Sampling Time	92	92	83	83	91	91
Average	1.2	0.6	1.2	0.6	1.7	0.9
DAILY 1-HOUR MAXIMA:						
Monthly Average	5.8	4.0	5.0	3.2	5.8	4.1
90-percentile Value	13.0	10.7	16.0	13.2	15.0	12.6
Maximum 1-hour Value	15.2	13.7	20.7	17.2	16.4	14.4
BRINGELLY						
Ramsay Rd						
ALL HOURS IN MONTH:						
% Sampling Time	82	82	95	95	94	94
Average	0.9	0.3	1.2	0.6	1.4	0.8
DAILY 1-HOUR MAXIMA:						
Monthly Average	2.2	1.2	3.3	2.3	3.7	2.7
90-percentile Value	4.2	2.2	5.0	4.1	6.4	4.8
Maximum 1-hour Value	4.6	2.6	5.8	4.3	7.1	6.0
LIVERPOOL						
Rose St						
ALL HOURS IN MONTH:						
% Sampling Time	95	95	95	95	95	95
Average	3.0	1.7	4.4	3.0	5.2	3.8
DAILY 1-HOUR MAXIMA:						
Monthly Average	9.9	7.8	15.3	13.0	16.6	14.5
90-percentile Value	15.5	13.6	25.6	23.0	31.5	28.7
Maximum 1-hour Value	24.5	21.6	29.1	26.5	33.1	30.2

*** Data not available

2006 Data

TABLE 3 (Cont'd)

OXIDES OF NITROGEN – NO_x (TOTAL OXIDES OF NITROGEN) & NO (NITRIC OXIDE)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

MONITORING SITE		APR		MAY		JUN	
		NO _x	NO	NO _x	NO	NO _x	NO
South West Sydney region (Cont'd)							
MACARTHUR							
UWS Campbelltown campus							
	ALL HOURS IN MONTH:						
	% Sampling Time	96	96	95	95	94	94
	Average	2.4	1.3	2.5	1.3	3.0	1.7
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	7.5	5.3	7.7	5.3	7.9	5.7
	90-percentile Value	15.7	13.6	13.7	10.8	15.3	12.9
	Maximum 1-hour Value	21.5	18.1	18.8	15.6	20.0	16.5
OAKDALE							
Ridge Rd							
	ALL HOURS IN MONTH:						
	% Sampling Time	72	72	95	95	96	96
	Average	0.2	0.0	0.2	0.0	0.2	0.0
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	0.6	0.0	0.6	0.1	0.6	0.1
	90-percentile Value	1.3	0.1	1.3	0.2	1.3	0.1
	Maximum 1-hour Value	1.4	0.3	2.2	0.3	2.0	1.0
Illawarra region							
ALBION PARK SOUTH							
Hughes Dr							
	ALL HOURS IN MONTH:						
	% Sampling Time	86	86	63	63	96	96
	Average	0.5	0.1	0.6	0.2	0.8	0.3
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	1.4	0.5	1.9	1.0	2.5	1.5
	90-percentile Value	2.8	1.7	4.3	3.2	5.4	4.0
	Maximum 1-hour Value	3.2	2.0	4.7	3.5	6.2	5.1
KEMBLA GRANGE							
Kembla Grange Racecourse							
Princes Hwy	ALL HOURS IN MONTH:						
	% Sampling Time	96	96	95	95	95	95
	Average	0.8	0.3	0.8	0.3	1.2	0.6
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	2.6	1.6	2.6	1.6	4.7	3.5
	90-percentile Value	4.7	3.7	5.6	4.7	11.2	9.4
	Maximum 1-hour Value	13.4	11.0	8.0	6.6	14.3	12.5
WARRAWONG							
Carlotta Cres							
	ALL HOURS IN MONTH:						
	% Sampling Time	93	93	90	90	***	***
	Average	1.0	0.3	1.0	0.3	***	***
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	3.0	1.5	3.5	1.9	***	***
	90-percentile Value	6.4	4.6	7.1	4.8	***	***
	Maximum 1-hour Value	8.6	5.7	10.6	7.9	***	***

*** Data not available

2006 Data

TABLE 3 (Cont'd)

OXIDES OF NITROGEN – NO_x (TOTAL OXIDES OF NITROGEN) & NO (NITRIC OXIDE)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

MONITORING SITE		APR		MAY		JUN	
		NO _x	NO	NO _x	NO	NO _x	NO
Illawarra region (Cont'd)							
WOLLONGONG							
Gipps St							
	ALL HOURS IN MONTH:						
	% Sampling Time	92	92	95	95	96	96
	Average	1.6	0.7	2.1	1.1	3.1	2.0
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	5.7	3.9	7.4	5.4	11.5	9.6
	90-percentile Value	13.3	9.6	16.4	13.8	27.0	24.9
	Maximum 1-hour Value	21.0	18.1	27.0	24.8	42.3	39.5
Lower Hunter region							
BERESFIELD							
Francis Greenway							
High School							
	ALL HOURS IN MONTH:						
	% Sampling Time	92	92	79	79	95	95
	Average	2.1	0.9	3.0	1.7	3.5	2.2
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	6.6	4.6	9.6	7.6	9.9	7.9
	90-percentile Value	12.6	10.0	15.5	13.7	19.4	17.2
	Maximum 1-hour Value	16.5	14.1	18.7	17.2	25.1	22.8
NEWCASTLE							
Athletics Field							
Smith St							
	ALL HOURS IN MONTH:						
	% Sampling Time	96	96	95	95	71	71
	Average	1.8	0.8	2.7	1.6	3.4	2.3
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	5.5	3.5	9.2	7.3	9.0	7.5
	90-percentile Value	9.1	7.0	13.4	12.0	19.5	17.1
	Maximum 1-hour Value	11.2	9.7	16.1	14.3	32.0	29.4
WALLSEND							
Swimming Pool							
Frances St							
	ALL HOURS IN MONTH:						
	% Sampling Time	95	95	96	96	95	95
	Average	1.6	0.7	2.4	1.4	3.1	1.9
	DAILY 1-HOUR MAXIMA:						
	Monthly Average	4.8	3.2	7.7	6.1	8.0	6.4
	90-percentile Value	7.6	5.9	12.7	10.9	15.6	13.7
	Maximum 1-hour Value	9.9	8.4	15.6	14.2	20.2	19.0

*** Data not available

2006 Data

TABLE 4.1

PARTICULATE MATTER: BY NEPHELOMETER (NEPH)

Coefficient of light scattering by fine particles per 10 km

1-HOUR CLOCK AVERAGE

MONITORING SITE		APR	MAY	JUN
Central East Sydney region				
CHULLORA				
Southern Sydney TAFE				
Worth St				
	% Sampling Time	97	100	100
	Monthly Average	0.2	0.3	0.4
	90-percentile Value	0.4	0.7	0.9
	Maximum 24-hour Average	0.4	0.9	1.0
	Maximum 1-hour Value	1.7	3.0	1.7
EARLWOOD				
Beaman Park				
Riverview Rd				
	% Sampling Time	100	96	100
	Monthly Average	0.2	0.2	0.3
	90-percentile Value	0.4	0.6	0.8
	Maximum 24-hour Average	0.4	0.8	1.0
	Maximum 1-hour Value	1.1	1.6	1.9
RANDWICK				
Randwick Barracks				
	% Sampling Time	96	100	100
	Monthly Average	0.2	0.2	0.3
	90-percentile Value	0.4	0.5	0.6
	Maximum 24-hour Average	0.4	0.7	0.8
	Maximum 1-hour Value	1.0	1.5	1.4
ROZELLE				
Rozelle Hospital				
Balmain Rd				
	% Sampling Time	100	100	100
	Monthly Average	0.1	0.2	0.3
	90-percentile Value	0.3	0.5	0.7
	Maximum 24-hour Average	0.4	0.8	0.8
	Maximum 1-hour Value	1.7	1.5	1.3
North West Sydney region				
RICHMOND				
University Of Western Sydney				
Vines Rd				
	% Sampling Time	100	100	94
	Monthly Average	0.1	0.2	0.3
	90-percentile Value	0.3	0.5	0.6
	Maximum 24-hour Average	0.3	0.6	0.6
	Maximum 1-hour Value	0.7	1.3	1.4

*** Data not available

2006 Data

TABLE 4.1 (Cont'd)

PARTICULATE MATTER: BY NEPHELOMETER (NEPH)

Coefficient of light scattering by fine particles per 10 km

1-HOUR CLOCK AVERAGE

MONITORING SITE		APR	MAY	JUN
North West Sydney region (Cont'd)				
ST MARYS				
Mamre Rd				
	% Sampling Time	100	98	100
	Monthly Average	0.1	0.2	0.2
	90-percentile Value	0.2	0.4	0.4
	Maximum 24-hour Average	0.3	0.5	0.7
	Maximum 1-hour Value	0.7	0.7	1.2
VINEYARD				
Castle Hill STP				
Bandon Rd				
	% Sampling Time	100	99	100
	Monthly Average	0.2	0.2	0.4
	90-percentile Value	0.3	0.5	0.8
	Maximum 24-hour Average	0.4	0.6	0.7
	Maximum 1-hour Value	0.9	1.7	1.7
South West Sydney region				
BARGO				
Silica Rd				
	% Sampling Time	97	87	95
	Monthly Average	0.2	0.2	0.1
	90-percentile Value	0.4	0.5	0.3
	Maximum 24-hour Average	0.4	0.6	0.4
	Maximum 1-hour Value	1.3	1.6	1.7
BRINGELLY				
Ramsay Rd				
	% Sampling Time	87	100	99
	Monthly Average	0.1	0.2	0.2
	90-percentile Value	0.3	0.4	0.5
	Maximum 24-hour Average	0.3	0.5	0.8
	Maximum 1-hour Value	1.0	1.3	1.2
LIVERPOOL				
Rose St				
	% Sampling Time	100	100	99
	Monthly Average	0.2	0.2	0.3
	90-percentile Value	0.3	0.5	0.7
	Maximum 24-hour Average	0.3	0.6	0.8
	Maximum 1-hour Value	0.7	1.0	1.3

*** Data not available

2006 Data

TABLE 4.1 (Cont'd)

PARTICULATE MATTER: BY NEPHELOMETER (NEPH)

Coefficient of light scattering by fine particles per 10 km

1-HOUR CLOCK AVERAGE

MONITORING SITE	APR	MAY	JUN
South West Sydney region (Cont'd)			
MACARTHUR			
UWS Campbelltown campus			
% Sampling Time	100	99	100
Monthly Average	0.2	0.2	0.1
90-percentile Value	0.4	0.5	0.3
Maximum 24-hour Average	0.5	0.6	0.6
Maximum 1-hour Value	1.8	1.0	1.4
OAKDALE			
Ridge Rd			
% Sampling Time	97	99	87
Monthly Average	0.1	0.1	0.1
90-percentile Value	0.2	0.3	0.2
Maximum 24-hour Average	0.2	0.3	0.3
Maximum 1-hour Value	1.0	1.0	1.1
Illawarra region			
ALBION PARK SOUTH			
Hughes Dr			
% Sampling Time	90	67	100
Monthly Average	0.1	0.2	0.1
90-percentile Value	0.3	0.3	0.3
Maximum 24-hour Average	0.3	0.4	0.2
Maximum 1-hour Value	0.9	0.7	1.1
KEMBLA GRANGE			
Kembla Grange Racecourse			
Princes Hwy			
% Sampling Time	90	100	100
Monthly Average	0.1	0.1	0.1
90-percentile Value	0.2	0.3	0.2
Maximum 24-hour Average	0.3	0.4	0.2
Maximum 1-hour Value	1.2	0.7	0.8
WARRAWONG			
Carlotta Cres			
% Sampling Time	100	77	***
Monthly Average	0.1	0.1	***
90-percentile Value	0.3	0.4	***
Maximum 24-hour Average	0.3	0.5	***
Maximum 1-hour Value	1.7	0.8	***

*** Data not available

2006 Data

TABLE 4.1 (Cont'd)

PARTICULATE MATTER: BY NEPHELOMETER (NEPH)

Coefficient of light scattering by fine particles per 10 km

1-HOUR CLOCK AVERAGE

MONITORING SITE		APR	MAY	JUN
Illawarra region (Cont'd)				
WOLLONGONG				
Gipps St				
	% Sampling Time	99	65	100
	Monthly Average	0.1	0.1	0.1
	90-percentile Value	0.2	0.3	0.3
	Maximum 24-hour Average	0.3	0.3	0.3
	Maximum 1-hour Value	0.5	0.6	0.8
Lower Hunter region				
BERESFIELD				
Francis Greenway				
High School				
	% Sampling Time	100	99	100
	Monthly Average	0.1	0.2	0.2
	90-percentile Value	0.3	0.4	0.5
	Maximum 24-hour Average	0.3	0.4	0.5
	Maximum 1-hour Value	0.9	0.9	1.2
NEWCASTLE				
Athletics Field				
Smith St				
	% Sampling Time	100	100	91
	Monthly Average	0.1	0.1	0.2
	90-percentile Value	0.2	0.4	0.4
	Maximum 24-hour Average	0.3	0.4	0.4
	Maximum 1-hour Value	1.8	1.2	1.1
WALLSEND				
Swimming Pool				
Frances St				
	% Sampling Time	100	100	100
	Monthly Average	0.1	0.2	0.2
	90-percentile Value	0.3	0.4	0.6
	Maximum 24-hour Average	0.3	0.5	0.5
	Maximum 1-hour Value	0.6	1.1	1.3

*** Data not available

2006 Data

TABLE 4. 2

PARTICULATE MATTER: BY TAPERED ELEMENT

OSCILLATING MICROBALANCE (TEOM-PM₁₀)

Micrograms per cubic metre at 0° Celsius (µg/m³ at 0°C)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL:

24-hour average = 50 µg/m³

MONITORING SITE		APR	MAY	JUN
Central East Sydney region				
CHULLORA				
Southern Sydney TAFE				
Worth St	ALL HOURS IN MONTH:			
	% Sampling Time	90	95	99
	Average	23	21	17
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	48	47	39
	90-percentile Value	73	71	64
	Maximum 1-hour Value	85	197	113
	Maximum 24-hour Value	39	35	31
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0
EARLWOOD				
Beaman Park				
Riverview Rd	ALL HOURS IN MONTH:			
	% Sampling Time	98	99	98
	Average	29	24	17
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	65	59	33
	90-percentile Value	102	122	50
	Maximum 1-hour Value	110	213	51
	Maximum 24-hour Value	49	58	30
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	1	0
RANDWICK				
Randwick Barracks				
	ALL HOURS IN MONTH:			
	% Sampling Time	98	92	99
	Average	19	15	14
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	37	29	25
	90-percentile Value	58	41	35
	Maximum 1-hour Value	70	84	40
	Maximum 24-hour Value	32	26	21
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0
ROZELLE				
Rozelle Hospital				
Balmain Rd	ALL HOURS IN MONTH:			
	% Sampling Time	90	92	97
	Average	19	18	16
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	40	35	32
	90-percentile Value	65	53	44
	Maximum 1-hour Value	115	107	57
	Maximum 24-hour Value	37	32	27
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0

*** Data not available

2006 Data

TABLE 4. 2 (Cont'd)

PARTICULATE MATTER: BY TAPERED ELEMENT

OSCILLATING MICROBALANCE (TEOM-PM₁₀)Micrograms per cubic metre at 0° Celsius (µg/m³ at 0°C)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL:

24-hour average = 50 µg/m³

MONITORING SITE		APR	MAY	JUN
North West Sydney region				
RICHMOND				
University Of Western Sydney				
Vines Rd	ALL HOURS IN MONTH:			
	% Sampling Time	93	99	93
	Average	18	16	13
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	41	37	24
	90-percentile Value	64	50	37
	Maximum 1-hour Value	104	159	42
	Maximum 24-hour Value	26	32	24
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0
ST MARYS				
Mamre Rd				
	ALL HOURS IN MONTH:			
	% Sampling Time	78	85	88
	Average	19	18	11
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	53	48	27
	90-percentile Value	90	86	41
	Maximum 1-hour Value	161	157	56
	Maximum 24-hour Value	36	31	21
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0
VINEYARD				
Castle Hill STP				
Bandon Rd	ALL HOURS IN MONTH:			
	% Sampling Time	96	98	99
	Average	18	17	15
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	36	35	33
	90-percentile Value	56	50	52
	Maximum 1-hour Value	68	81	62
	Maximum 24-hour Value	28	33	29
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0
South West Sydney region				
BRINGELLY				
Ramsay Rd				
	ALL HOURS IN MONTH:			
	% Sampling Time	79	90	82
	Average	18	18	15
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	42	53	53
	90-percentile Value	59	77	65
	Maximum 1-hour Value	66	100	371
	Maximum 24-hour Value	30	29	23
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0

*** Data not available

2006 Data

TABLE 4.2 (Cont'd)

**PARTICULATE MATTER: BY TAPERED ELEMENT
OSCILLATING MICROBALANCE (TEOM-PM₁₀)**

Micrograms per cubic metre at 0° Celsius (µg/m³ at 0°C)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL:

24-hour average = 50 µg/m³

MONITORING SITE	APR	MAY	JUN
South West Sydney region (Cont'd)			
LIVERPOOL			
Rose St			
ALL HOURS IN MONTH:			
% Sampling Time	93	99	65
Average	21	20	18
DAILY 1-HOUR MAXIMA:			
Monthly Average	45	51	36
90-percentile Value	75	84	58
Maximum 1-hour Value	95	224	72
Maximum 24-hour Value	38	49	29
NEPM STANDARD LEVEL:			
No. Days Above Level	0	0	0
MACARTHUR			
UWS Campbelltown campus			
ALL HOURS IN MONTH:			
% Sampling Time	99	99	99
Average	17	14	10
DAILY 1-HOUR MAXIMA:			
Monthly Average	39	31	18
90-percentile Value	51	50	31
Maximum 1-hour Value	281	142	40
Maximum 24-hour Value	34	28	16
NEPM STANDARD LEVEL:			
No. Days Above Level	0	0	0
OAKDALE			
Ridge Rd			
ALL HOURS IN MONTH:			
% Sampling Time	96	99	98
Average	15	11	6
DAILY 1-HOUR MAXIMA:			
Monthly Average	45	24	13
90-percentile Value	60	39	20
Maximum 1-hour Value	379	51	25
Maximum 24-hour Value	36	20	10
NEPM STANDARD LEVEL:			
No. Days Above Level	0	0	0
Illawarra region			
ALBION PARK SOUTH			
Hughes Dr			
ALL HOURS IN MONTH:			
% Sampling Time	88	65	91
Average	17	13	10
DAILY 1-HOUR MAXIMA:			
Monthly Average	42	34	24
90-percentile Value	70	67	39
Maximum 1-hour Value	98	81	52
Maximum 24-hour Value	29	28	17
NEPM STANDARD LEVEL:			
No. Days Above Level	0	0	0

*** Data not available

2006 Data

TABLE 4. 2 (Cont'd)

PARTICULATE MATTER: BY TAPERED ELEMENT

OSCILLATING MICROBALANCE (TEOM-PM₁₀)Micrograms per cubic metre at 0° Celsius (µg/m³ at 0°C)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL:

24-hour average = 50 µg/m³

MONITORING SITE		APR	MAY	JUN
Illawarra region (Cont'd)				
KEMBLA GRANGE				
Kembla Grange Racecourse				
Princes Hwy	ALL HOURS IN MONTH:			
	% Sampling Time	96	95	96
	Average	21	16	11
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	62	51	32
	90-percentile Value	98	91	75
	Maximum 1-hour Value	205	127	127
	Maximum 24-hour Value	38	31	23
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0
WARRAWONG				
Carlotta Cres				
	ALL HOURS IN MONTH:			
	% Sampling Time	96	96	***
	Average	20	15	***
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	46	33	***
	90-percentile Value	67	49	***
	Maximum 1-hour Value	79	71	***
	Maximum 24-hour Value	39	26	***
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	***
WOLLONGONG				
Gipps St				
	ALL HOURS IN MONTH:			
	% Sampling Time	94	73	99
	Average	18	13	11
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	42	28	24
	90-percentile Value	58	41	36
	Maximum 1-hour Value	137	94	42
	Maximum 24-hour Value	32	23	20
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0
Lower Hunter region				
BERESFIELD				
Francis Greenway				
High School	ALL HOURS IN MONTH:			
	% Sampling Time	71	98	97
	Average	19	23	19
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	40	47	42
	90-percentile Value	61	80	81
	Maximum 1-hour Value	90	113	125
	Maximum 24-hour Value	35	37	45
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0

*** Data not available

2006 Data

TABLE 4. 2 (Cont'd)

PARTICULATE MATTER: BY TAPERED ELEMENT

OSCILLATING MICROBALANCE (TEOM-PM₁₀)

Micrograms per cubic metre at 0° Celsius (µg/m³ at 0°C)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL:

24-hour average = 50 µg/m³

MONITORING SITE		APR	MAY	JUN
Lower Hunter region (Cont'd)				
NEWCASTLE				
Athletics Field				
Smith St	ALL HOURS IN MONTH:			
	% Sampling Time	92	99	89
	Average	17	17	16
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	41	33	33
	90-percentile Value	66	49	49
	Maximum 1-hour Value	78	62	73
	Maximum 24-hour Value	27	28	26
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0
WALLSEND				
Swimming Pool				
Frances St	ALL HOURS IN MONTH:			
	% Sampling Time	97	97	99
	Average	17	16	14
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	37	33	26
	90-percentile Value	62	49	39
	Maximum 1-hour Value	68	55	44
	Maximum 24-hour Value	32	25	21
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0
Central Tablelands region				
BATHURST				
Wastewater Treatment Plant				
Off Morrisset St	ALL HOURS IN MONTH:			
	% Sampling Time	97	94	97
	Average	18	16	11
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	41	32	22
	90-percentile Value	70	44	38
	Maximum 1-hour Value	79	76	41
	Maximum 24-hour Value	35	26	19
	NEPM STANDARD LEVEL:			
	No. Days Above Level	0	0	0
South West Slopes region				
ALBURY				
Jelbart Park				
Cnr Kaylock Rd & Cambourne St	ALL HOURS IN MONTH:			
	% Sampling Time	74	81	94
	Average	21	19	14
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	42	38	33
	90-percentile Value	68	64	43
	Maximum 1-hour Value	123	87	73
	Maximum 24-hour Value	73	41	27
	NEPM STANDARD LEVEL:			
	No. Days Above Level	1	0	0

*** Data not available

2006 Data

TABLE 4. 2 (Cont'd)

PARTICULATE MATTER: BY TAPERED ELEMENT

OSCILLATING MICROBALANCE (TEOM-PM₁₀)Micrograms per cubic metre at 0° Celsius (µg/m³ at 0°C)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL:

24-hour average = 50 µg/m³

MONITORING SITE	APR	MAY	JUN
South West Slopes region (Cont'd)			
WAGGA WAGGA			
Cnr Morgan & Murray Sts			
ALL HOURS IN MONTH:			
% Sampling Time	90	97	99
Average	28	25	16
DAILY 1-HOUR MAXIMA:			
Monthly Average	75	63	40
90-percentile Value	126	132	60
Maximum 1-hour Value	340	247	131
Maximum 24-hour Value	57	50	38
NEPM STANDARD LEVEL:			
No. Days Above Level	1	1	0
North West Slopes region			
TAMWORTH			
Hyman Park			
Off Robert St			
ALL HOURS IN MONTH:			
% Sampling Time	97	86	95
Average	15	23	13
DAILY 1-HOUR MAXIMA:			
Monthly Average	35	69	43
90-percentile Value	56	87	65
Maximum 1-hour Value	66	315	147
Maximum 24-hour Value	26	48	29
NEPM STANDARD LEVEL:			
No. Days Above Level	0	0	0

*** Data not available

2006 Data

TABLE 4.3

PARTICULATE MATTER: BY TAPERED ELEMENT

OSCILLATING MICROBALANCE (TEOM-PM_{2.5})

Micrograms per cubic metre at 0° Celsius (µg/m³ at 0°C)

1-HOUR CLOCK AVERAGE

MONITORING SITE

		APR	MAY	JUN
Central East Sydney region				
CHULLORA				
Beaman Park				
Riverview Rd	ALL HOURS IN MONTH:			
	% Sampling Time	98	100	98
	Average	9	10	11
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	18	18	23
	90-percentile Value	24	26	39
	Maximum 1-hour Value	36	30	39
South West Sydney region				
LIVERPOOL				
Rose St				
	ALL HOURS IN MONTH:			
	% Sampling Time	97	99	99
	Average	11	11	11
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	20	22	23
	90-percentile Value	30	29	36
	Maximum 1-hour Value	35	35	41
Illawarra region				
WARRAWONG				
Carlotta Cres				
	ALL HOURS IN MONTH:			
	% Sampling Time	98	95	***
	Average	9	8	***
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	20	15	***
	90-percentile Value	33	22	***
	Maximum 1-hour Value	45	31	***
WOLLONGONG				
Gipps St				
	ALL HOURS IN MONTH:			
	% Sampling Time	98	99	99
	Average	9	8	7
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	17	14	14
	90-percentile Value	26	21	21
	Maximum 1-hour Value	57	24	26
Lower Hunter region				
BERESFIELD				
Francis Greenway				
High School				
	ALL HOURS IN MONTH:			
	% Sampling Time	96	98	99
	Average	10	11	10
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	27	20	19
	90-percentile Value	27	29	31
	Maximum 1-hour Value	270	35	36
WALLSEND				
Swimming Pool				
Frances St				
	ALL HOURS IN MONTH:			
	% Sampling Time	98	98	99
	Average	9	9	9
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	17	19	17
	90-percentile Value	27	30	27
	Maximum 1-hour Value	31	37	30

*** Data not available

2006 Data

TABLE 5

SULFUR DIOXIDE (SO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL:**1-hour average = 20 pphm****24-hour average = 8 pphm**

MONITORING SITE		APR	MAY	JUN
Central East Sydney region				
CHULLORA				
Southern Sydney TAFE				
Worth St	ALL HOURS IN MONTH:			
	% Sampling Time	86	95	95
	Average	0.2	0.2	0.2
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	0.4	0.4	0.3
	90-percentile Value	0.8	0.5	0.5
	Maximum 1-hour Value	1.3	0.8	0.7
	Maximum 24-hour Value	0.4	0.3	0.3
	NEPM STANDARD LEVEL:			
	No. Events Above Level	0 (0)	0 (0)	0 (0)
RANDWICK				
Randwick Barracks				
	ALL HOURS IN MONTH:			
	% Sampling Time	92	95	95
	Average	0.2	0.1	0.2
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	0.6	0.5	0.6
	90-percentile Value	1.3	1.0	1.1
	Maximum 1-hour Value	1.7	1.7	1.9
	Maximum 24-hour Value	0.4	0.4	0.4
	NEPM STANDARD LEVEL:			
	No. Events Above Level	0 (0)	0 (0)	0 (0)
North West Sydney region				
RICHMOND				
University Of Western Sydney				
Vines Rd	ALL HOURS IN MONTH:			
	% Sampling Time	93	95	89
	Average	0.0	0.0	0.0
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	0.2	0.1	0.1
	90-percentile Value	0.4	0.3	0.2
	Maximum 1-hour Value	0.7	0.4	0.3
	Maximum 24-hour Value	0.2	0.1	0.1
	NEPM STANDARD LEVEL:			
	No. Events Above Level	0 (0)	0 (0)	0 (0)
VINEYARD				
Castle Hill STP				
Bandon Rd	ALL HOURS IN MONTH:			
	% Sampling Time	92	92	66
	Average	0.1	0.0	0.0
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	0.2	0.1	0.1
	90-percentile Value	0.5	0.3	0.2
	Maximum 1-hour Value	1.0	0.7	0.3
	Maximum 24-hour Value	0.2	0.1	0.1
	NEPM STANDARD LEVEL:			
	No. Events Above Level	0 (0)	0 (0)	0 (0)

*** Data not available

() Numbers in brackets indicate exceedences of the 24-hour NEPM Standard Level

2006 Data

TABLE 5 (Cont'd)

SULFUR DIOXIDE (SO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL:**1-hour average = 20 pphm****24-hour average = 8 pphm**

MONITORING SITE	APR	MAY	JUN
South West Sydney region			
BARGO			
Silica Rd			
ALL HOURS IN MONTH:			
% Sampling Time	93	83	91
Average	0.1	0.0	0.0
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.1	0.1	0.2
90-percentile Value	0.3	0.3	0.4
Maximum 1-hour Value	0.4	0.3	0.9
Maximum 24-hour Value	0.2	0.1	0.2
NEPM STANDARD LEVEL:			
No. Events Above Level	0 (0)	0 (0)	0 (0)
BRINGELLY			
Ramsay Rd			
ALL HOURS IN MONTH:			
% Sampling Time	82	95	91
Average	0.0	0.0	0.0
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.1	0.1	0.1
90-percentile Value	0.3	0.3	0.2
Maximum 1-hour Value	0.3	0.6	0.4
Maximum 24-hour Value	0.1	0.1	0.1
NEPM STANDARD LEVEL:			
No. Events Above Level	0 (0)	0 (0)	0 (0)
MACARTHUR			
UWS Campbelltown campus			
ALL HOURS IN MONTH:			
% Sampling Time	96	95	94
Average	0.1	0.0	0.0
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.2	0.1	0.1
90-percentile Value	0.5	0.4	0.2
Maximum 1-hour Value	0.6	0.5	0.6
Maximum 24-hour Value	0.2	0.2	0.1
NEPM STANDARD LEVEL:			
No. Events Above Level	0 (0)	0 (0)	0 (0)
Illawarra region			
ALBION PARK SOUTH			
Hughes Dr			
ALL HOURS IN MONTH:			
% Sampling Time	86	63	96
Average	0.1	0.0	0.0
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.2	0.2	0.1
90-percentile Value	1.0	0.6	0.3
Maximum 1-hour Value	1.2	1.0	0.8
Maximum 24-hour Value	0.4	0.2	0.1
NEPM STANDARD LEVEL:			
No. Events Above Level	0 (0)	0 (0)	0 (0)

*** Data not available

() Numbers in brackets indicate exceedences of the 24-hour NEPM Standard Level

2006 Data

TABLE 5 (Cont'd)

SULFUR DIOXIDE (SO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL:**1-hour average = 20 pphm****24-hour average = 8 pphm**

MONITORING SITE	APR	MAY	JUN
Illawarra region (Cont'd)			
WARRAWONG			
Carlotta Cres			
ALL HOURS IN MONTH:			
% Sampling Time	93	87	***
Average	0.1	0.0	***
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.3	0.1	***
90-percentile Value	0.8	0.4	***
Maximum 1-hour Value	2.1	1.9	***
Maximum 24-hour Value	0.6	0.3	***
NEPM STANDARD LEVEL:			
No. Events Above Level	0 (0)	0 (0)	*** (***)
WOLLONGONG			
Gipps St			
ALL HOURS IN MONTH:			
% Sampling Time	92	95	96
Average	0.1	0.1	0.1
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.4	0.4	0.4
90-percentile Value	0.8	1.0	0.9
Maximum 1-hour Value	1.4	1.1	1.7
Maximum 24-hour Value	0.3	0.2	0.2
NEPM STANDARD LEVEL:			
No. Events Above Level	0 (0)	0 (0)	0 (0)
Lower Hunter region			
BERESFIELD			
Francis Greenway			
High School			
ALL HOURS IN MONTH:			
% Sampling Time	95	91	95
Average	0.2	0.3	0.2
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.9	1.0	0.7
90-percentile Value	1.3	2.0	1.4
Maximum 1-hour Value	2.4	2.7	2.0
Maximum 24-hour Value	0.4	1.0	0.5
NEPM STANDARD LEVEL:			
No. Events Above Level	0 (0)	0 (0)	0 (0)
NEWCASTLE			
Athletics Field			
Smith St			
ALL HOURS IN MONTH:			
% Sampling Time	92	95	87
Average	0.2	0.2	0.1
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.6	0.7	0.5
90-percentile Value	1.2	1.7	1.0
Maximum 1-hour Value	2.8	2.0	2.1
Maximum 24-hour Value	0.5	0.5	0.5
NEPM STANDARD LEVEL:			
No. Events Above Level	0 (0)	0 (0)	0 (0)

*** Data not available

() Numbers in brackets indicate exceedences of the 24-hour NEPM Standard Level

2006 Data

TABLE 5 (Cont'd)

SULFUR DIOXIDE (SO₂)

Parts per hundred million (pphm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL:**1-hour average = 20 pphm****24-hour average = 8 pphm**

MONITORING SITE		APR	MAY	JUN
Lower Hunter region (Cont'd)				
WALLSEND				
Swimming Pool				
Frances St	ALL HOURS IN MONTH:			
	% Sampling Time	95	96	95
	Average	0.1	0.1	0.2
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	0.9	0.7	0.9
	90-percentile Value	2.0	1.2	2.0
	Maximum 1-hour Value	2.6	5.8	2.3
	Maximum 24-hour Value	0.3	0.9	0.6
	NEPM STANDARD LEVEL:			
	No. Events Above Level	0 (0)	0 (0)	0 (0)

*** Data not available

() Numbers in brackets indicate exceedences of the 24-hour NEPM Standard Level

2006 Data

TABLE 6

CARBON MONOXIDE (CO)

Parts per million (ppm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 8-hour average = 9 ppm

MONITORING SITE		APR	MAY	JUN
Central East Sydney region				
CHULLORA				
Southern Sydney TAFE				
Worth St	ALL HOURS IN MONTH:			
	% Sampling Time	85	95	95
	Average	0.2	0.3	0.4
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	0.6	0.9	1.3
	90-percentile Value	1.1	1.4	2.4
	Maximum 1-hour Value	1.6	2.3	3.8
	Maximum 8-hour Value	1.1	1.1	2.3
	NEPM STANDARD LEVEL:			
	No.Events Above Level	0	0	0
	No. Days Above Level	0	0	0
ROZELLE				
Rozelle Hospital				
Balmain Rd	ALL HOURS IN MONTH:			
	% Sampling Time	95	94	94
	Average	0.2	0.3	0.4
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	0.6	0.9	1.2
	90-percentile Value	1.0	1.7	2.3
	Maximum 1-hour Value	1.1	2.2	2.8
	Maximum 8-hour Value	0.9	1.4	2.0
	NEPM STANDARD LEVEL:			
	No.Events Above Level	0	0	0
	No. Days Above Level	0	0	0
South West Sydney region				
LIVERPOOL				
Rose St				
	ALL HOURS IN MONTH:			
	% Sampling Time	95	95	92
	Average	0.2	0.4	0.4
	DAILY 1-HOUR MAXIMA:			
	Monthly Average	0.8	1.3	1.4
	90-percentile Value	1.2	1.8	2.6
	Maximum 1-hour Value	2.1	2.7	3.0
	Maximum 8-hour Value	1.6	1.8	2.0
	NEPM STANDARD LEVEL:			
	No.Events Above Level	0	0	0
	No. Days Above Level	0	0	0

*** Data not available

2006 Data

TABLE 6 (Cont'd)

CARBON MONOXIDE (CO)

Parts per million (ppm)

1-HOUR CLOCK AVERAGE

NEPM STANDARD LEVEL: 8-hour average = 9 ppm

MONITORING SITE	APR	MAY	JUN
South West Sydney region (Cont'd)			
MACARTHUR			
UWS Campbelltown campus			
ALL HOURS IN MONTH:			
% Sampling Time	96	95	94
Average	0.1	0.1	0.1
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.4	0.3	0.4
90-percentile Value	0.7	0.6	0.7
Maximum 1-hour Value	1.1	1.4	1.2
Maximum 8-hour Value	0.5	0.7	0.5
NEPM STANDARD LEVEL:			
No.Events Above Level	0	0	0
No. Days Above Level	0	0	0
Illawarra region			
WOLLONGONG			
Gipps St			
ALL HOURS IN MONTH:			
% Sampling Time	92	95	96
Average	0.2	0.3	0.3
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.6	0.8	1.0
90-percentile Value	1.2	1.5	2.0
Maximum 1-hour Value	1.3	2.1	2.7
Maximum 8-hour Value	1.0	1.2	1.2
NEPM STANDARD LEVEL:			
No.Events Above Level	0	0	0
No. Days Above Level	0	0	0
Lower Hunter region			
NEWCASTLE			
Athletics Field			
Smith St			
ALL HOURS IN MONTH:			
% Sampling Time	96	95	86
Average	0.1	0.2	0.3
DAILY 1-HOUR MAXIMA:			
Monthly Average	0.5	1.0	1.0
90-percentile Value	0.9	1.6	2.4
Maximum 1-hour Value	1.3	1.8	2.9
Maximum 8-hour Value	0.9	1.5	2.2
NEPM STANDARD LEVEL:			
No.Events Above Level	0	0	0
No. Days Above Level	0	0	0

*** Data not available

2006 Data

TABLE 7

REGIONAL POLLUTION INDEX (RPI)

Sydney region

RPI	Low 0 - 24						Medium 25 - 49						High > 49					
D A Y	REGIONS																	
	Eastern Sydney						South Western						North Western					
	APR		MAY		JUN		APR		MAY		JUN		APR		MAY		JUN	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
1	20	12	23	14	13	10	25	13	23	14	15	12	23	12	15	15	14	15
2	12	15	9	14	10	12	14	14	14	14	14	15	14	14	15	14	12	16
3	15	22	16	15	11	12	15	21	30	15	13	14	16	24	15	12	14	14
4	22	29	11	16	12	13	23	20	12	14	14	14	27	22	11	15	14	15
5	33	23	15	19	15	11	22	17	19	20	22	12	21	19	15	22	14	9
6	14	11	25	17	18	21	16	12	20	20	12	13	15	12	24	19	9	13
7	12	12	38	26	34	20	13	12	22	18	13	13	13	16	40	20	11	12
8	12	16	12	13	37	12	13	15	13	13	19	14	14	17	14	13	17	15
9	16	17	11	11	27	11	15	16	13	12	13	11	17	18	13	15	12	9
10	14	15	29	11	25	26	21	18	13	12	12	12	19	21	14	12	15	17
11	21	25	14	13	35	12	19	26	13	14	26	14	15	26	12	13	29	13
12	40	27	13	12	13	14	24	16	13	14	14	15	20	23	11	13	13	14
13	30	15	21	20	29	10	27	17	13	19	29	14	27	17	17	21	40	25
14	22	22	27	16	27	11	22	30	19	17	26	15	16	20	22	21	24	20
15	18	15	13	12	31	13	25	14	16	13	26	15	24	16	22	9	23	25
16	15	16	18	14	25	12	25	18	11	13	15	14	16	17	8	13	21	20
17	15	22	34	18	13	14	28	21	28	16	22	16	22	17	11	14	18	16
18	21	16	50	18	17	14	22	15	26	21	18	16	18	9	31	16	28	26
19	9	18	35	37	22	12	17	18	19	20	25	16	11	19	17	18	29	27
20	16	16	28	19	25	25	17	15	38	16	20	16	16	14	24	22	26	26
21	22	14	13	16	32	14	16	13	15	16	15	14	15	13	12	14	13	9
22	11	25	30	15	15	13	15	26	23	15	14	15	14	14	14	16	11	13
23	15	17	22	10	37	40	42	16	30	14	30	29	16	17	12	14	16	19
24	13	13	19	11	40	20	15	15	14	14	32	15	17	16	14	13	28	21
25	13	13	24	16	11	12	14	13	14	14	26	13	14	13	13	14	22	13
26	11	11	24	28	21	13	13	12	14	14	13	15	13	13	14	14	13	14
27	10	12	71	13	17	13	11	12	20	14	20	16	11	13	13	13	18	18
28	11	15	12	14	32	16	12	16	13	15	30	17	12	18	32	20	23	15
29	15	22	66	19	33	18	15	19	20	28	25	16	18	19	23	25	27	26
30	18	27	14	15	29	30	19	15	14	14	40	15	19	17	14	15	33	26
31			27	10					13	15					13	15		
PERCENTAGE FREQUENCY																		
	Eastern Sydney						South Western						North Western					
	APR		MAY		JUN		APR		MAY		JUN		APR		MAY		JUN	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
	LOW	90	83	61	90	47	87	80	90	84	97	63	97	93	97	90	97	73
MED	10	17	29	10	53	13	20	10	16	3	37	3	7	3	10	3	27	23
HIGH	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*** Data not available

2006 Data

TABLE 7 (Cont'd)
REGIONAL POLLUTION INDEX (RPI)
 Lower Hunter region

RPI	Low 0 - 24						Medium 25 - 49						High > 49					
D A Y	Newcastle						REGIONS Wallsend						Beresfield					
	APR		MAY		JUN		APR		MAY		JUN		APR		MAY		JUN	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
1	15	13	9	5	12	7	14	13	19	14	13	14	14	13	19	14	12	13
2	12	16	6	8	9	6	12	15	15	13	15	11	12	14	14	13	13	11
3	17	14	12	13	6	8	16	16	13	13	14	12	14	18	13	12	12	11
4	16	19	10	15	8	12	16	19	9	14	11	11	20	17	9	15	12	11
5	14	14	14	13	11	5	13	14	12	11	11	8	14	14	12	14	9	6
6	12	13	14	19	5		12	13	9	18	9	6	14	12	9	22	9	7
7	12	16	22	13			12	15	24	18	9	9	12	16	20	13	9	7
8	15	18	13	12		8	16	17	13	12	10	11	14	16	13	13	11	8
9	18	17	13	12	11	5	19	17	25	12	10	9	18	17	12	9	10	9
10	15	14	10	14	5	14	16	13	11	14	9	15	15	15	9	13	10	16
11	23	17	14	11	5	10	13	18	13	10	9	10	14	22	13	8	9	11
12	14	17	10	13	10	8	16	16	10	12	13	11	19	16	7	11	11	12
13	41	23	12	14	12	9	15	22	11	14	20	11	16	19	11	15	17	10
14	14	19	17	15	21	8	8	20	22	19	24	23	11	20	20	15	20	7
15	23	17	13	13	19	10	20	16	14	11	21	28	18	17	14	11	19	7
16	17	17	13	13	8	7	17	16	10	11	18	8	17	16	10	13	10	7
17	17	17	11	13	10	10	16	17	10	13	22	12	16	16	12	13	16	7
18	15	16	12	12	11	8	17	16	11	11	12	12	16	13	13	6	12	8
19	10	16	14	12	11	13	10	18	11	15	22	10	11	20	8	21	17	10
20	14	15	20	10	15	14	17	15	21	13	18	11	17	15	18	10	14	10
21	14	15	11	13	12	9	14	15	16	13	15	9	15	14	12	6	11	9
22	13	13	15	14	5	5	13	12	18	12	11	13	14	15	15	9	10	10
23	21	15	14	12	13	10	12	17	13	13	23	9	11	17	5	5	10	10
24	20	11	12	12	9	10	20	11	13	12	9	11	15	12	4	3	8	5
25	8	7	10	14	15	11	10	12	11	13	24	13	11	12	11	12	14	6
26	7	8	13	12	16	13	12	11	12	9	25	10	12	8	13	13	11	7
27	7	7	10	5	13	10	9	10	11	8	11	11	8	8	9	9	19	7
28	7	10	27	8	25	14	11	14	15	12	31	16	10	13	11	11	21	7
29	10	6	26	13	19	12	16	13	20	15	22	12	15	13	12	14	19	9
30	6	11	12	7	23	10	13	19	14	13	30	12	13	19	12	12	29	10
31			7	7					11	14					10	12		

	PERCENTAGE FREQUENCY																	
	Newcastle						Wallsend						Beresfield					
	APR		MAY		JUN		APR		MAY		JUN		APR		MAY		JUN	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
LOW	97	100	94	100	96	100	100	100	97	100	90	97	100	100	100	100	97	100
MED	3	0	6	0	4	0	0	0	3	0	10	3	0	0	0	0	3	0
HIGH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*** Data not available

2006 Data

TABLE 7 (Cont'd)

REGIONAL POLLUTION INDEX (RPI)

Illawarra region

RPI Low 0 - 24 Medium 25 - 49 High > 49

D A Y	Albion Park						REGIONS Wollongong					
	APR		MAY		JUN		APR		MAY		JUN	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
1	18	11			13	12	18	11	17	12	12	13
2	12	13			14	13	12	12	12	12	14	14
3	13	25		11	14	13	13	25	13	11	14	13
4	26	23			13	14	25	23	12	15	13	14
5	25	14			13	12	25	28	18	20	13	11
6	15	12			13	12	20	12	19	15	11	12
7	12	13			12	13	12	12	16	13	11	13
8	13	15			11	13	12	16	13	13	10	12
9	15	14			12	11	16	13	13	12	17	9
10	14	15			9	7	39	15	13	12	8	7
11	17	24		14	14	14	17	26	12	14	15	14
12	26	25	14	14	14	13	24	28	13	13	14	14
13	27	18	14	15	12	12	28	17	13	17	13	15
14	12	18	17	13	17	13	14	18	17	14	18	14
15	19	15	12	13	13	13	18	14	13	12	13	14
16	15	14	12	12	12	13	14	14	11	14	13	12
17	14	22	13	15	14	14	15	27	14	13	12	14
18	24	11	11	18	13	14	24	12	14	21	14	14
19	13	21	15	14	25	13	13	19	19	17	12	14
20	18	16	13	14	13	14	13	15	18	16	14	14
21	15	13	13	15	12	13	15	14	15	16	11	14
22	15	5	15	13	12	14	14	28	16	15	10	14
23	12	13	14	14	10	10	14	13	14	13	11	12
24	13	14	13	13	11	13	13	13	15	13	11	13
25	14	13	11	13	13	12	13	13	12	13	13	12
26	13	12	11	13	14	14	12	11	12	13	12	14
27	11	11	12	13	13	15	10	11	13	14	14	14
28	12	14	12	12	14	14	11	13	14	14	14	16
29			12	13	13	15	13	19	13	14	15	15
30			14	14	24	11	18	18	14	15	12	13
31			13	13					11	14		

	Albion Park						PERCENTAGE FREQUENCY Wollongong					
	APR		MAY		JUN		APR		MAY		JUN	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
LOW	86	93	100	100	97	100	87	80	100	100	100	100
MED	14	7	0	0	3	0	13	20	0	0	0	0
HIGH	0	0	0	0	0	0	0	0	0	0	0	0

*** Data not available

2006 Data