

**Appendix B**  
**Baseline Air Quality Monitoring Results**

**1-hour TSP Monitoring Results at Station AM1**  
**(13 Ha Wun Yiu G/F)**

Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )
20-Oct-09	15:19	85.7	87.4	85.3
21-Oct-09	10:05	88.9	87.8	86.7
22-Oct-09	10:09	89.2	87.0	86.5
23-Oct-09	10:03	81.8	82.8	83.4
24-Oct-09	10:05	87.5	84.1	86.2
25-Oct-09	11:00	74.5	76.7	75.2
26-Oct-09	11:05	85.3	86.1	84.1
27-Oct-09	15:08	73.8	74.9	72.9
28-Oct-09	9:05	74.3	77.1	76.7
29-Oct-09	10:05	75.9	76.6	73.1
30-Oct-09	11:00	80.0	80.3	82.7
31-Oct-09	16:12	71.3	72.9	73.8
1-Nov-09	13:34	75.3	80.8	73.6
2-Nov-09	11:35	74.2	77.1	79.5
Average				80.2
Min				71.3
Max				89.2

**1-hour TSP Monitoring Results at Station AM2**  
**(12 Shan Tong New Village G/F)**

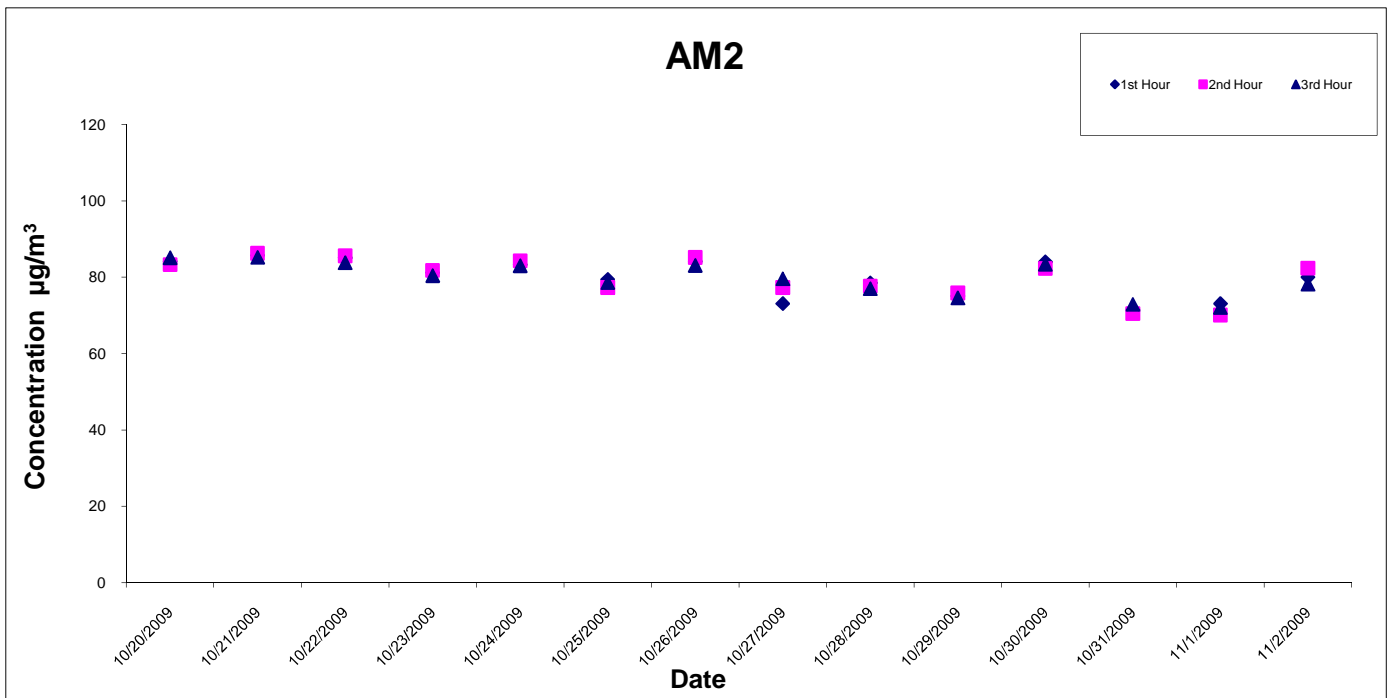
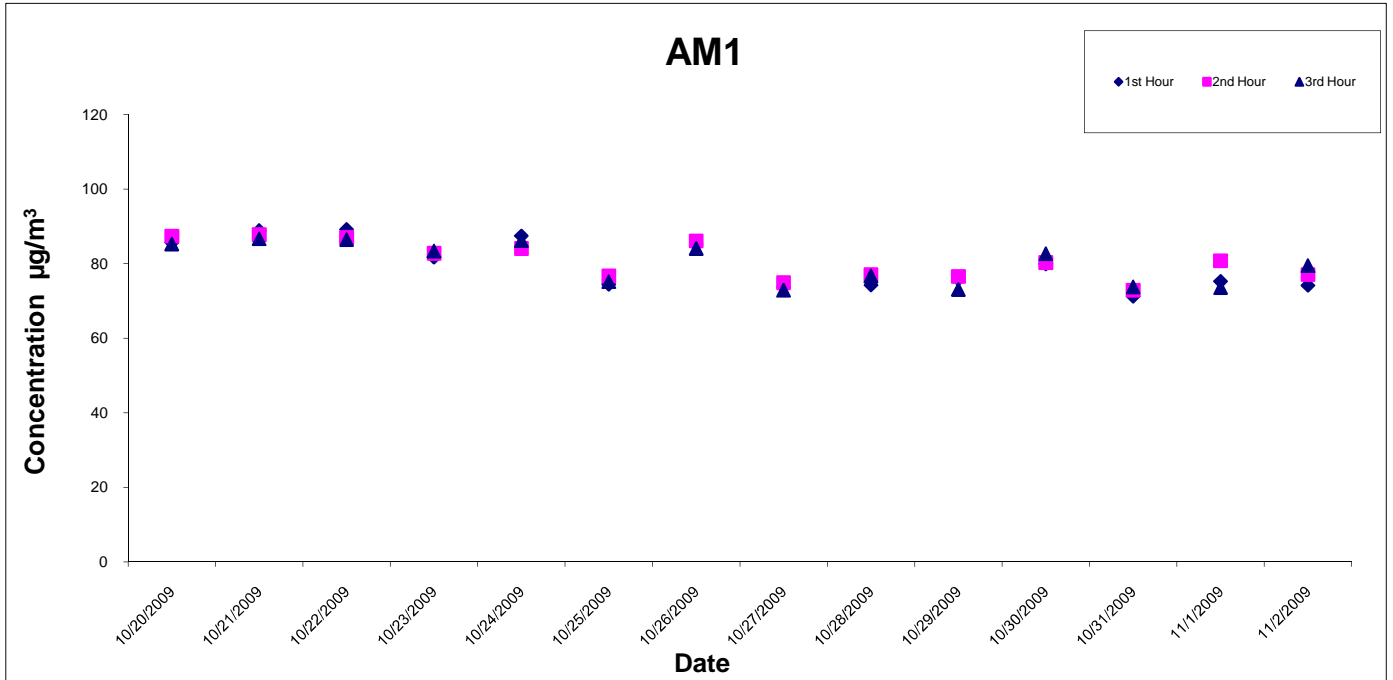
Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )
20-Oct-09	15:37	84.1	83.3	85.1
21-Oct-09	9:50	85.7	86.3	85.2
22-Oct-09	9:54	85.1	85.6	83.8
23-Oct-09	9:49	81.2	81.8	80.4
24-Oct-09	13:35	83.3	84.3	83.0
25-Oct-09	11:25	79.4	77.3	78.6
26-Oct-09	10:49	84.1	85.2	83.1
27-Oct-09	15:21	73.1	77.3	79.6
28-Oct-09	10:00	78.5	77.7	77.0
29-Oct-09	10:31	75.1	75.9	74.6
30-Oct-09	11:30	84.0	82.3	83.4
31-Oct-09	15:39	71.6	70.5	72.9
1-Nov-09	13:40	73.1	70.1	72.1
2-Nov-09	10:19	80.0	82.4	78.2
Average				79.9
Min				70.1
Max				86.3

**1-hour TSP Monitoring Results at Station AM3  
(Roof of Switch Room at Riverain Bayside)**

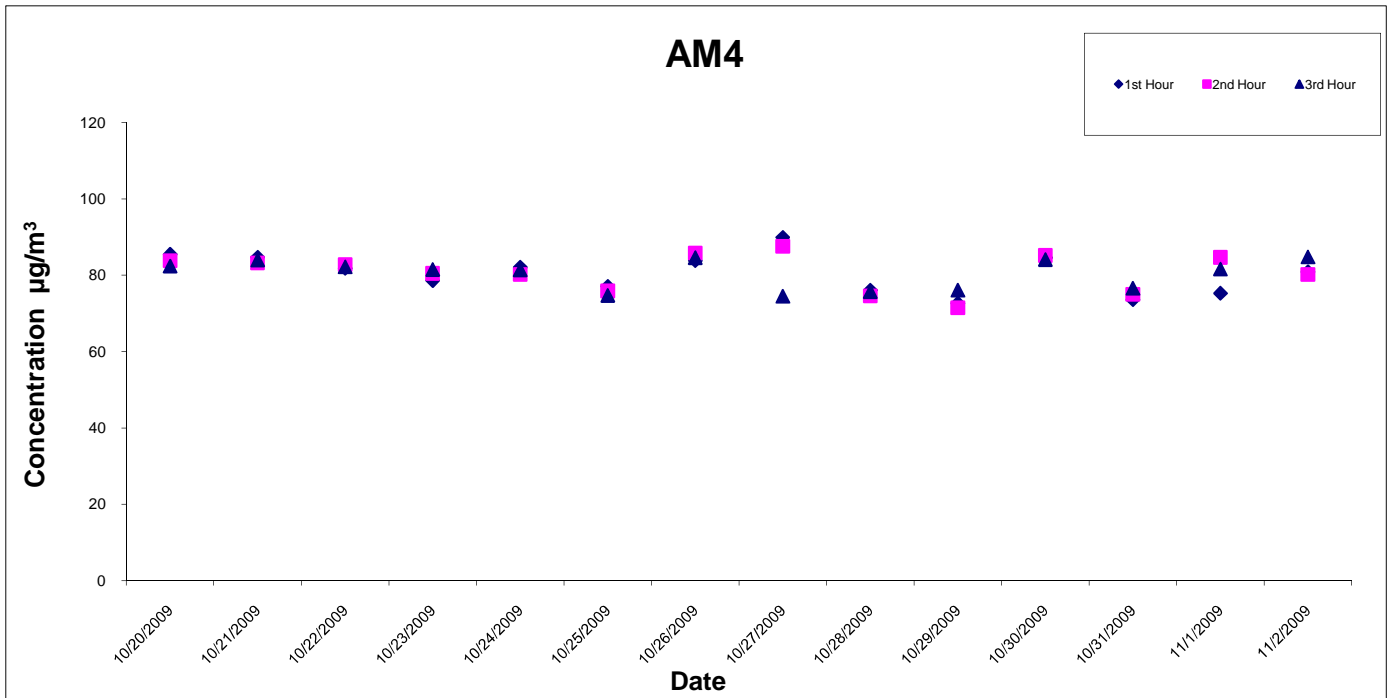
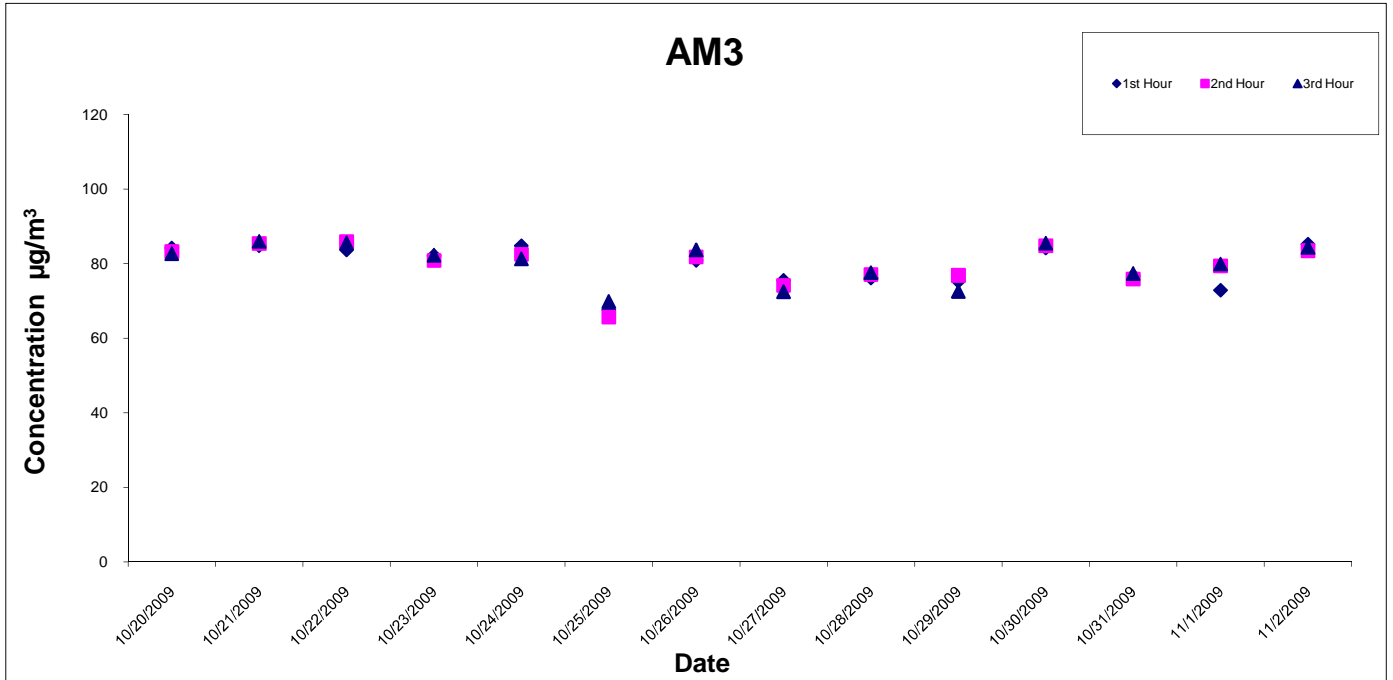
Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )
20-Oct-09	16:05	84.2	83.3	82.7
21-Oct-09	9:30	84.8	85.4	86.0
22-Oct-09	9:34	83.7	85.9	85.6
23-Oct-09	9:30	82.1	80.9	82.3
24-Oct-09	9:40	84.8	82.5	81.3
25-Oct-09	11:50	67.7	65.7	69.9
26-Oct-09	10:00	80.9	81.8	83.7
27-Oct-09	15:44	75.5	74.2	72.5
28-Oct-09	13:36	76.2	77.1	77.6
29-Oct-09	14:15	75.3	76.9	72.6
30-Oct-09	16:35	84.2	84.8	85.5
31-Oct-09	15:54	76.7	75.9	77.4
1-Nov-09	13:54	72.9	79.4	79.9
2-Nov-09	9:43	85.2	83.5	84.4
Average				79.8
Min				65.7
Max				86.0

**1-hour TSP Monitoring Results at Station AM4  
(Roof of Tai Kwong Secondary School)**

Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )	Conc. ( $\mu\text{g}/\text{m}^3$ )
20-Oct-09	16:30	85.5	83.8	82.4
21-Oct-09	10:35	84.7	83.2	84.0
22-Oct-09	10:35	81.8	82.8	82.2
23-Oct-09	10:30	78.6	80.5	81.5
24-Oct-09	13:50	82.1	80.2	81.4
25-Oct-09	10:30	77.1	75.9	74.7
26-Oct-09	10:30	83.8	85.8	84.6
27-Oct-09	15:34	89.9	87.6	74.5
28-Oct-09	15:08	76.1	74.6	75.7
29-Oct-09	14:33	72.7	71.5	76.1
30-Oct-09	15:30	84.6	85.2	84.1
31-Oct-09	15:36	73.6	75.0	76.6
1-Nov-09	14:15	75.3	84.7	81.6
2-Nov-09	9:59	80.9	80.2	84.8
Average				80.5
Min				71.5
Max				89.9



	<b>Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation</b>	SCALE	N.T.S.	DATE	Nov-09
		CHECK	ENFL	DRAWN	RWHW
	<b>Graphical Presentation of baseline 1-hour TSP Monitoring Results</b>	JOB NO.	60102979	APPENDIX No.	Rev.
			B	-	



	<b>Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation</b>	SCALE	N.T.S.	DATE	Nov-09
		CHECK	ENFL	DRAWN	RWHW
	<b>Graphical Presentation of baseline 1-hour TSP Monitoring Results</b>	JOB NO.	60102979	<b>APPENDIX No.</b> B	Rev. -

**Appendix B**  
**Baseline Air Quality Monitoring Results**

**24-hour TSP Monitoring Results at Station AM1 (13 Ha Wun Yiu G/F)**

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m <sup>3</sup> /min.)		Av. flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m <sup>3</sup> )
				Initial	Final			Initial	Final		Initial	Final		
20-Oct-09	Sunny	24.5	1013.4	1.34	1.34	1.34	1933.9	3.5714	3.7490	0.1776	14020.18	14044.18	24.00	91.8
21-Oct-09	Sunny	24.9	1014.9	1.34	1.34	1.34	1933.9	3.5897	3.7561	0.1664	14044.18	14068.18	24.00	86.0
22-Oct-09	Sunny	25.7	1013.7	1.34	1.34	1.34	1933.9	3.5741	3.7554	0.1813	14068.18	14092.18	24.00	93.7
23-Oct-09	Sunny	25.7	1011.3	1.34	1.34	1.34	1933.9	3.5867	3.7592	0.1725	14092.18	14116.18	24.00	89.2
24-Oct-09	Sunny	26.2	1010.6	1.34	1.34	1.34	1933.9	3.5820	3.7569	0.1749	14116.18	14140.18	24.00	90.4
25-Oct-09	Sunny	26.0	1012.8	1.34	1.34	1.34	1933.9	3.5761	3.6787	0.1026	14140.18	14164.18	24.00	53.1
26-Oct-09	Sunny	25.2	1015.0	1.34	1.34	1.34	1933.9	3.5722	3.7130	0.1408	14164.18	14188.18	24.00	72.8
27-Oct-09	Sunny	24.4	1016.5	1.34	1.34	1.34	1933.9	3.5701	3.6989	0.1288	14188.18	14212.18	24.00	66.6
28-Oct-09	Sunny	24.5	1017.9	1.34	1.34	1.34	1933.9	3.5360	3.6233	0.0873	14212.18	14236.18	24.00	45.1
29-Oct-09	Sunny	24.8	1017.2	1.34	1.34	1.34	1933.9	3.5471	3.6008	0.0537	14236.18	14260.18	24.00	27.8
30-Oct-09	Sunny	24.8	1016.0	1.34	1.34	1.34	1933.9	3.5941	3.6638	0.0697	14260.18	14284.18	24.00	36.0
31-Oct-09	Sunny	25.7	1014.0	1.34	1.34	1.34	1933.9	3.6250	3.7243	0.0993	14284.18	14308.18	24.00	51.3
1-Nov-09	Sunny	26.3	1015.5	1.34	1.34	1.34	1933.9	3.6532	3.8073	0.1541	14308.18	14332.18	24.00	79.7
2-Nov-09	Sunny	22.9	1022.8	1.34	1.34	1.34	1933.9	3.5751	3.8060	0.2309	14332.18	14356.18	24.00	119.4
													Average	71.6
													Min	27.8
													Max	119.4

**24-hour TSP Monitoring Results at Station AM2 (12 Shan Tong New Village G/F)**

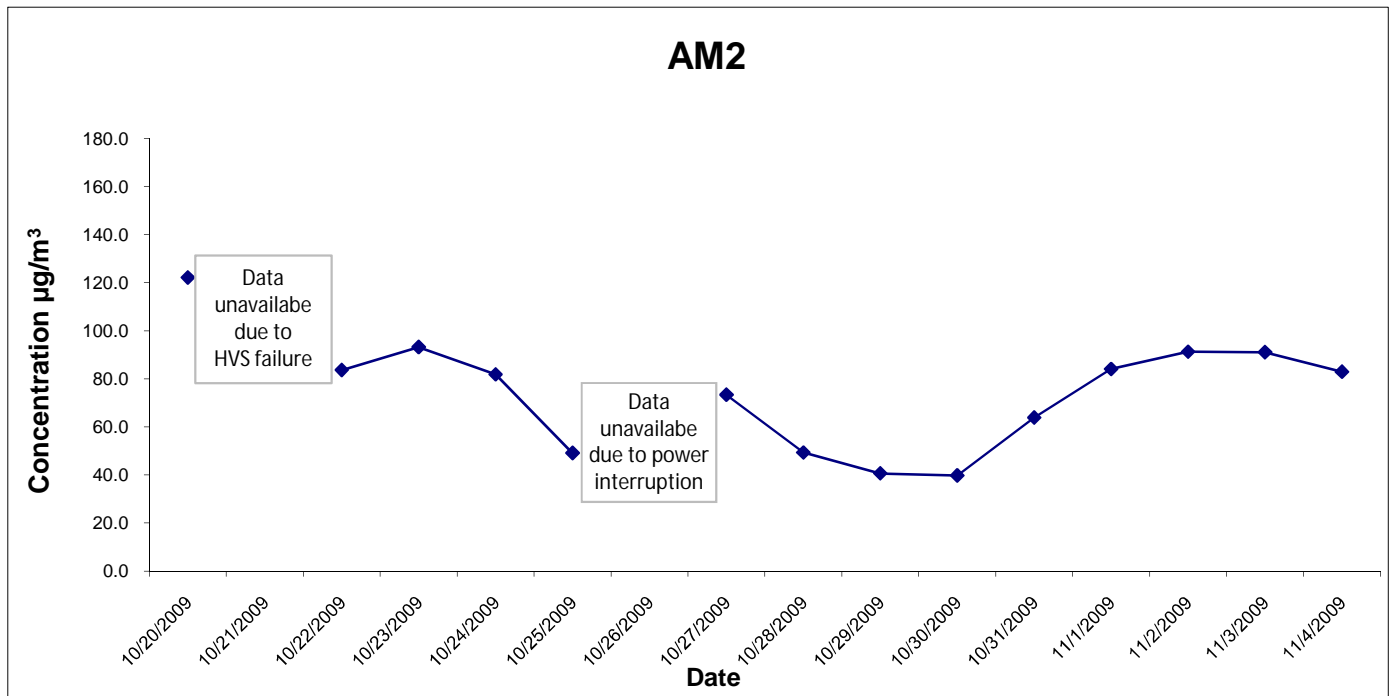
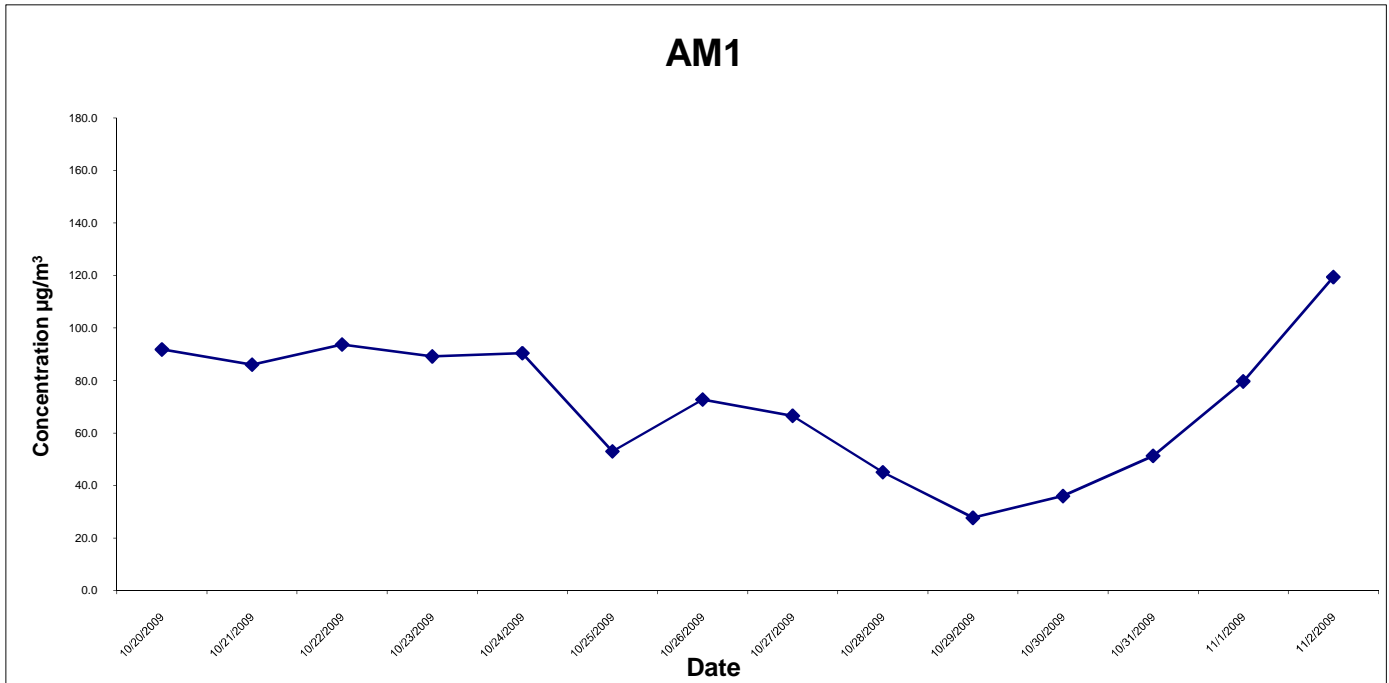
Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m <sup>3</sup> /min.)		Av. flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m <sup>3</sup> )
				Initial	Final			Initial	Final		Initial	Final		
20-Oct-09	Sunny	24.5	1013.4	1.32	1.32	1.32	1905.1	3.5668	3.7994	0.2326	10323.04	10347.04	24.00	122.1
21-Oct-09	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22-Oct-09	Sunny	25.7	1013.7	1.32	1.32	1.32	1905.1	3.5780	3.7373	0.1593	10349.17	10373.17	24.00	83.6
23-Oct-09	Sunny	25.7	1011.3	1.32	1.32	1.32	1905.1	3.5875	3.7650	0.1775	10373.17	10397.17	24.00	93.2
24-Oct-09	Sunny	26.2	1010.6	1.32	1.32	1.32	1905.1	3.5894	3.7452	0.1558	10397.17	10421.17	24.00	81.8
25-Oct-09	Sunny	26.0	1012.8	1.32	1.32	1.32	1905.1	3.5810	3.6745	0.0935	10421.17	10445.17	24.00	49.1
26-Oct-09	#	#	#	#	#	#	#	#	#	#	#	#	#	#
27-Oct-09	Sunny	24.4	1016.5	1.32	1.32	1.32	1905.1	3.5726	3.7123	0.1397	10445.17	10469.17	24.00	73.3
28-Oct-09	Sunny	24.5	1017.9	1.32	1.32	1.32	1905.1	3.5320	3.6259	0.0939	10469.17	10493.17	24.00	49.3
29-Oct-09	Sunny	24.8	1017.2	1.32	1.32	1.32	1905.1	3.5536	3.6310	0.0774	10493.17	10517.17	24.00	40.6
30-Oct-09	Sunny	24.8	1016.0	1.32	1.32	1.32	1905.1	3.6037	3.6794	0.0757	10517.17	10541.17	24.00	39.7
31-Oct-09	Sunny	25.7	1014.0	1.32	1.32	1.32	1905.1	3.6340	3.7556	0.1216	10541.17	10565.17	24.00	63.8
1-Nov-09	Sunny	26.3	1015.5	1.32	1.32	1.32	1905.1	3.5701	3.7302	0.1601	10565.17	10589.17	24.00	84.0
2-Nov-09	Sunny	22.9	1022.8	1.32	1.32	1.32	1905.1	3.5731	3.7469	0.1738	10589.17	10613.17	24.00	91.2
3-Nov-09	Sunny	18.5	1025.8	1.32	1.32	1.32	1905.1	3.5630	3.7364	0.1734	10613.17	10637.17	24.00	91.0
4-Nov-09	Sunny	21.0	1022.9	1.32	1.32	1.32	1905.1	3.5609	3.7188	0.1579	10637.17	10661.17	24.00	82.9
Remark * Data unavailable due to HVS failure													Average	74.7
# Data unavailable due to power interruption													Min	39.7
													Max	122.1

**24-hour TSP Monitoring Results at Station AM3 (Roof of Switch Room at Riverain Bayside)**

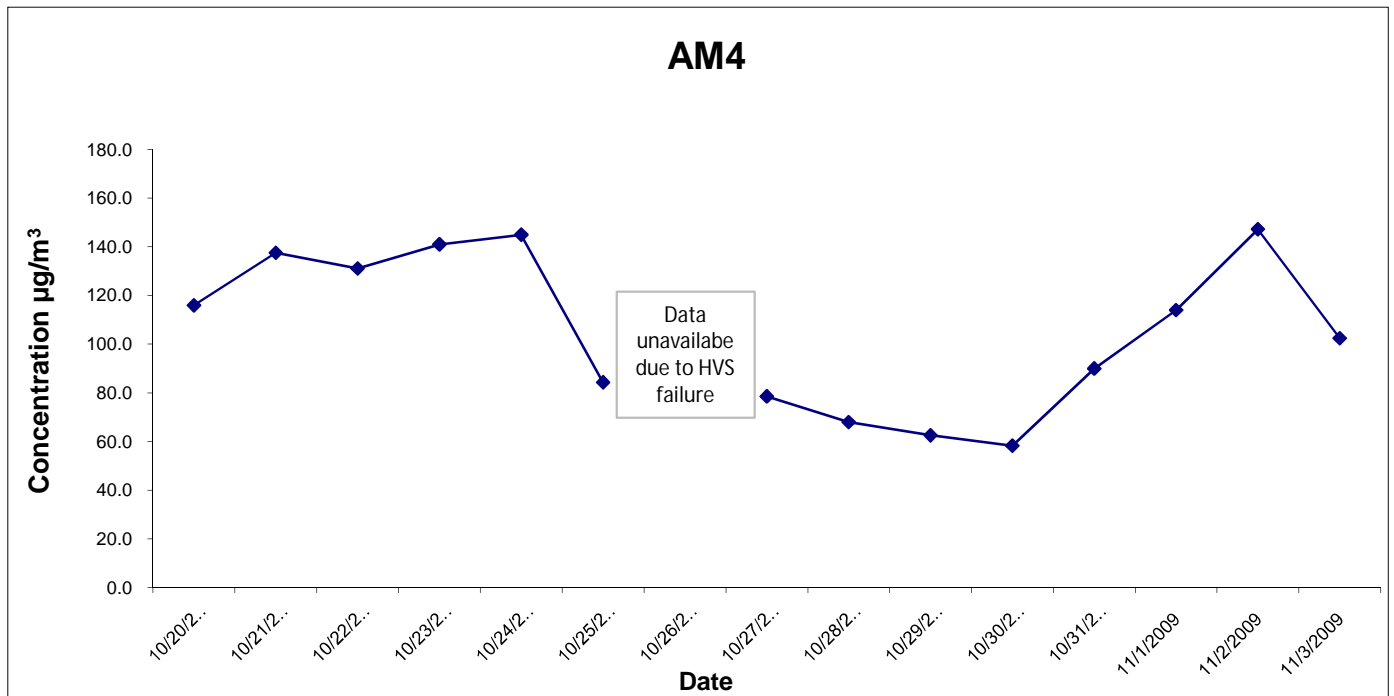
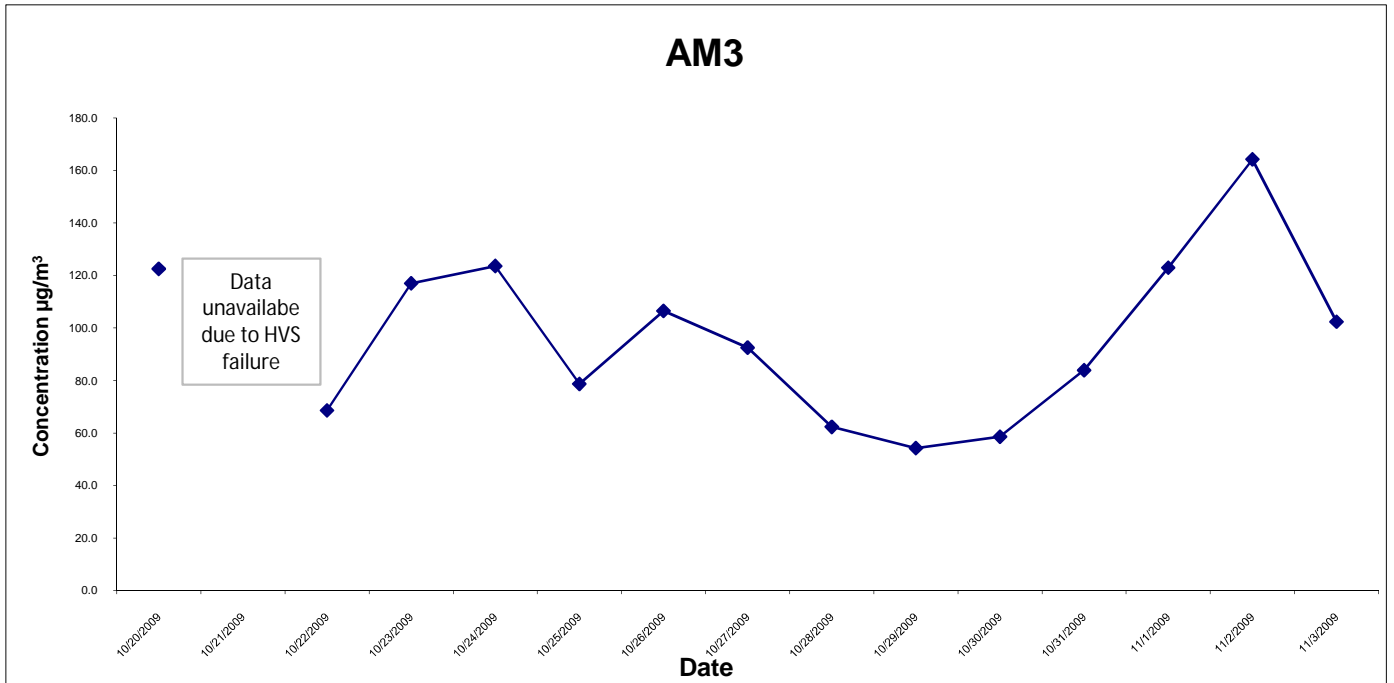
Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m <sup>3</sup> /min.)		Av. flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m <sup>3</sup> )
				Initial	Final			Initial	Final		Initial	Final		
20-Oct-09	Sunny	24.5	1013.4	1.35	1.35	1.35	1941.1	3.5605	3.7983	0.2378	14031.39	14055.39	24.00	122.5
21-Oct-09	#	#	#	#	#	#	#	#	#	#	#	#	#	#
22-Oct-09	Sunny	25.7	1013.7	1.35	1.35	1.35	1941.1	3.5851	3.7183	0.1332	14056.59	14080.59	24.00	68.6
23-Oct-09	Sunny	25.7	1011.3	1.35	1.35	1.35	1941.1	3.5851	3.8122	0.2271	14080.59	14104.59	24.00	117.0
24-Oct-09	Sunny	26.2	1010.6	1.35	1.35	1.35	1941.1	3.5861	3.8260	0.2399	14104.59	14128.59	24.00	123.6
25-Oct-09	Sunny	26.0	1012.8	1.35	1.35	1.35	1941.1	3.5820	3.7348	0.1528	14128.59	14152.59	24.00	78.7
26-Oct-09	Sunny	25.2	1015.0	1.35	1.35	1.35	1941.1	3.5691	3.7758	0.2067	14152.59	14176.59	24.00	106.5
27-Oct-09	Sunny	24.4	1016.5	1.35	1.35	1.35	1941.1	3.5618	3.7414	0.1796	14176.59	14200.59	24.00	92.5
28-Oct-09	Sunny	24.5	1017.9	1.35	1.35	1.35	1941.1	3.5427	3.6638	0.1211	14200.59	14224.59	24.00	62.4
29-Oct-09	Sunny	24.8	1017.2	1.35	1.35	1.35	1941.1	3.5656	3.6710	0.1054	14224.59	14248.59	24.00	54.3
30-Oct-09	Sunny	24.8	1016.0	1.35	1.35	1.35	1941.1	3.6208	3.7346	0.1138	14248.59	14272.59	24.00	58.6
31-Oct-09	Sunny	25.7	1014.0	1.35	1.35	1.35	1941.1	3.6440	3.8069	0.1629	14272.59	14296.59	24.00	83.9
1-Nov-09	Sunny	26.3	1015.5	1.35	1.35	1.35	1941.1	3.5756	3.8142	0.2386	14296.59	14320.59	24.00	122.9
2-Nov-09	Sunny	22.9	1022.8	1.35	1.35	1.35	1941.1	3.5738	3.8925	0.3187	14320.59	14344.59	24.00	164.2
3-Nov-09	Sunny	18.5	1025.8	1.35	1.35	1.35	1941.1	3.5681	3.7668	0.1987	14344.59	14368.59	24.00	102.4
Remark # Data unavailable due to power interruption												Average	97.0	
												Min	54.3	
												Max	164.2	

**24-hour TSP Monitoring Results at Station AM4 (Roof of Tai Kwong Secondary School)**

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m <sup>3</sup> /min.)		Av. flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m <sup>3</sup> )
				Initial	Final			Initial	Final		Initial	Final		
20-Oct-09	Sunny	24.5	1013.4	1.37	1.37	1.37	1971.4	3.5628	3.7913	0.2285	10198.81	10222.81	24.00	115.9
21-Oct-09	Sunny	24.9	1014.9	1.37	1.37	1.37	1971.4	3.5702	3.8412	0.2710	10222.81	10246.81	24.00	137.5
22-Oct-09	Sunny	25.7	1013.7	1.37	1.37	1.37	1971.4	3.5750	3.8333	0.2583	10246.81	10270.81	24.00	131.0
23-Oct-09	Sunny	25.7	1011.3	1.37	1.37	1.37	1971.4	3.5748	3.8527	0.2779	10270.81	10294.81	24.00	141.0
24-Oct-09	Sunny	26.2	1010.6	1.37	1.37	1.37	1971.4	3.5818	3.8675	0.2857	10294.81	10318.81	24.00	144.9
25-Oct-09	Sunny	26.0	1012.8	1.37	1.37	1.37	1971.4	3.5850	3.7512	0.1662	10318.81	10342.81	24.00	84.3
26-Oct-09	*	*	*	*	*	*	*	*	*	*	*	*	*	*
27-Oct-09	Sunny	24.4	1016.5	1.35	1.35	1.35	1941.1	3.5595	3.7119	0.1524	10363.55	10387.55	24.00	78.5
28-Oct-09	Sunny	24.5	1017.9	1.35	1.35	1.35	1941.1	3.5416	3.6735	0.1319	10387.55	10411.55	24.00	68.0
29-Oct-09	Sunny	24.8	1017.2	1.35	1.35	1.35	1941.1	3.5702	3.6916	0.1214	10411.55	10435.55	24.00	62.5
30-Oct-09	Sunny	24.8	1016.0	1.35	1.35	1.35	1941.1	3.5861	3.6992	0.1131	10435.55	10459.55	24.00	58.3
31-Oct-09	Sunny	25.7	1014.0	1.35	1.35	1.35	1941.1	3.5790	3.7536	0.1746	10459.55	10483.55	24.00	89.9
1-Nov-09	Sunny	26.3	1015.5	1.35	1.35	1.35	1941.1	3.5801	3.8013	0.2212	10483.55	10507.55	24.00	114.0
2-Nov-09	Sunny	22.9	1022.8	1.35	1.35	1.35	1941.1	3.5730	3.8587	0.2857	10509.55	10533.55	24.00	147.2
3-Nov-09	Sunny	18.5	1025.8	1.35	1.35	1.35	1941.1	3.5581	3.7569	0.1988	10533.55	10557.55	24.00	102.4
Remark * Data unavailable due to HVS failure												Average	105.4	
												Min	58.3	
												Max	147.2	



	<b>Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation</b>	SCALE	N.T.S.	DATE	Nov-09
		CHECK	ENFL	DRAWN	RWHW
	<b>Graphical Presentation of baseline 24-hour TSP Monitoring Results</b>	JOB NO.	60102979	<b>APPENDIX No.</b>	B
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	<b>Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation</b>	SCALE	N.T.S.	DATE	Nov-09
		CHECK	ENFL	DRAWN	RWHW
	<b>Graphical Presentation of baseline 24-hour TSP Monitoring Results</b>	JOB NO.	60102979	<b>APPENDIX No.</b> B	Rev. -