

Appendix E Environmental Monitoring Data for Air and Noise

Appendix E
Air Quality Monitoring Results and their Graphical Presentation

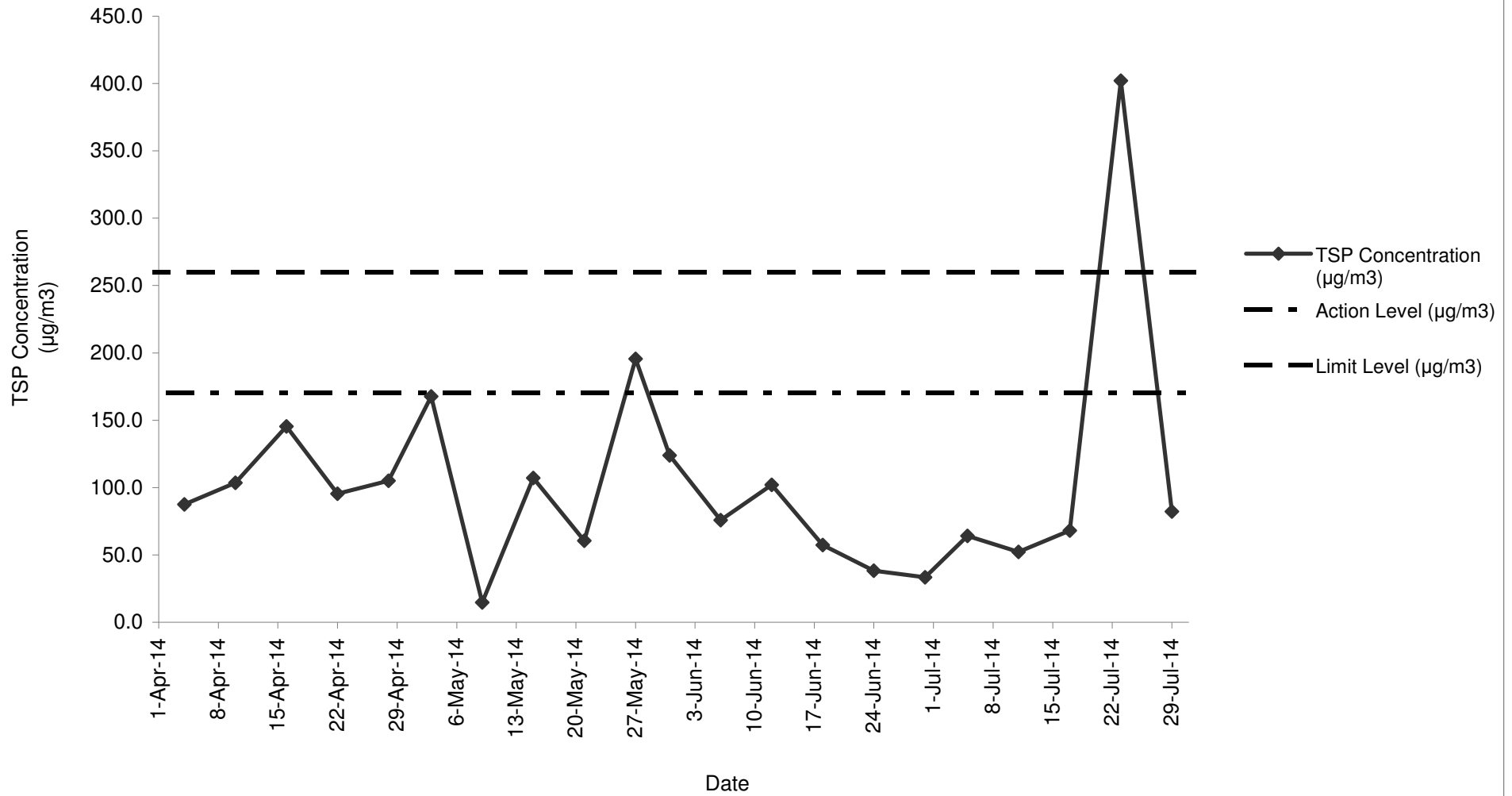
24-Hour TSP Monitoring Result at Station: SR77

Sampling Date	Weather Condition	Paper No.	Wt. of paper (g)			Elapse Time			Flow Rate (CFM)			Flow Rate (m ³ /min)			Total Volume (m ³)	TSP Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Wind speed m/s	Wind direction
			Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate						
4-Apr-14	Cloudy	10	2.6869	2.8690	0.1821	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	87.6	170.3	260.0	<5	N
10-Apr-14	Fine	11	2.6915	2.9070	0.2155	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	103.6	170.3	260.0	<5	N
16-Apr-14	Sunny	12	2.7313	3.0336	0.3023	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	145.4	170.3	260.0	<5	N
22-Apr-14	Sunny	13	2.7088	2.9072	0.1984	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	95.4	170.3	260.0	<5	N
28-Apr-14	Sunny	14	2.6694	2.8877	0.2183	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	105.0	170.3	260.0	<5	N
3-May-14	Fine	15	2.7172	3.0659	0.3487	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	167.7	170.3	260.0	<5	N
9-May-14	Rainy	21	2.7012	2.7317	0.0305	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	14.7	170.3	260.0	<5	N
15-May-14	Cloudy	212	2.7112	2.9339	0.2227	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	107.1	170.3	260.0	<5	N
21-May-14	Rainy	22	2.7506	2.8765	0.1259	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	60.5	170.3	260.0	<5	N
27-May-14	Fine	23	2.7061	3.1128	0.4067	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	195.6	170.3	260.0	<5	N
31-May-14	Fine	24	2.6975	2.9550	0.2575	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	123.8	170.3	260.0	<5	N
6-Jun-14	Cloudy	41	2.6798	2.8375	0.1577	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	75.8	170.3	260.0	<5	N
12-Jun-14	Fine	50	2.6908	2.9028	0.2120	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	101.9	170.3	260.0	<5	N
18-Jun-14	Cloudy	44	2.7198	2.8389	0.1191	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	57.3	170.3	260.0	<5	N
24-Jun-14	Rainy	46	2.6996	2.7792	0.0796	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	38.3	170.3	260.0	<5	N
30-Jun-14	Rainy	47	2.7035	2.7728	0.0693	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	33.3	170.3	260.0	<5	N
5-Jul-14	Rainy	50	2.7048	2.8380	0.1332	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	64.1	170.3	260.0	<5	N
11-Jul-14	Fine	51	2.7072	2.8157	0.1085	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	52.2	170.3	260.0	<5	N
17-Jul-14	Fine	53	2.7005	2.8421	0.1416	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	68.1	170.3	260.0	<5	N
23-Jul-14	Fine	57	2.6795	3.5157	0.8362	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	402.1	170.3	260.0	<5	N
29-Jul-14	Fine	59	2.7073	2.8783	0.1710	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	82.2	170.3	260.0	<5	N

Summary For the Reporting Quarter (May - Jul 2014)	
Average	102.8
Minimum	14.7
Maximum	402.1

Note: No major dust source observed during the monitoring period
Data in **Bold** denotes exceedance of respective Action Level
Data in **Bold Underline** denotes exceedance of respective Limit Level

24-Hour TSP Monitoring Result at Station: SR77 (April - July 2014)



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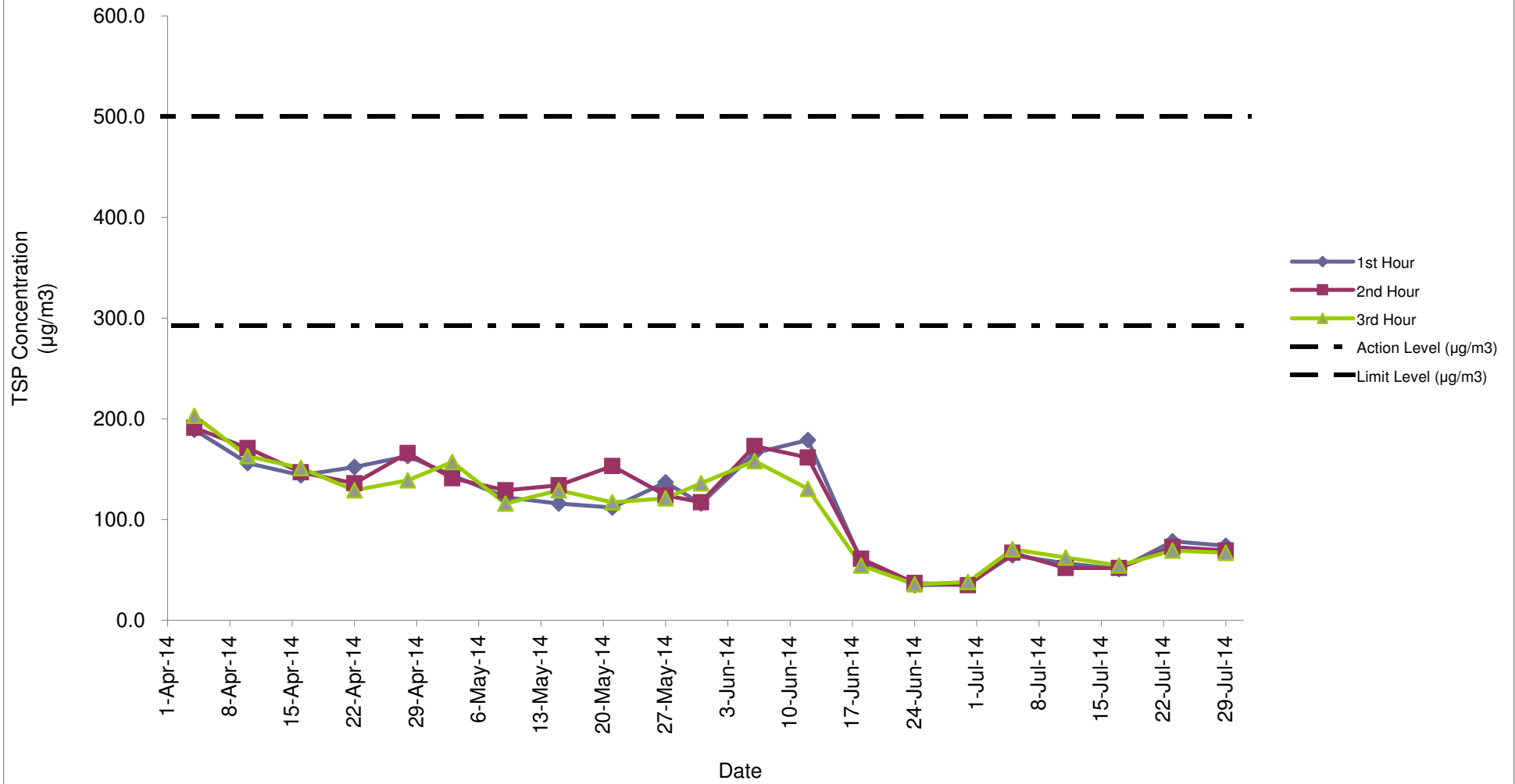
1-Hour TSP Monitoring Result at Station: SR77

Date	Weather Condition	Time	Conc.(µg/m ³)			Action Level (µg/m3)	Limit Level (µg/m3)
			1 st Hour	2 nd Hour	3 rd Hour		
4-Apr-14	Cloudy	8:00 - 11:04	189.0	191.0	203.0	292.7	500.0
10-Apr-14	Fine	10:30 - 13:34	156.0	171.0	163.0	292.7	500.0
16-Apr-14	Sunny	11:01 - 14:05	144.0	147.0	151.0	292.7	500.0
22-Apr-14	Sunny	11:30 - 14:34	152.0	136.0	129.0	292.7	500.0
28-Apr-14	Sunny	11:00 - 14:04	163.0	166.0	139.0	292.7	500.0
3-May-14	Fine	10:30 - 13:34	144.0	141.0	157.0	292.7	500.0
9-May-14	Rainy	10:30 - 13:34	122.0	129.0	116.0	292.7	500.0
15-May-14	Cloudy	9:00 - 12:04	116.0	134.0	129.0	292.7	500.0
21-May-14	Rainy	14:30 - 17:34	112.0	153.0	117.0	292.7	500.0
27-May-14	Fine	10:30 - 13:34	137.0	124.0	121.0	292.7	500.0
31-May-14	Fine	10:30 - 13:34	116.0	117.0	136.0	292.7	500.0
6-Jun-14	Cloudy	14:30 - 17:34	166.0	173.0	158.0	292.7	500.0
12-Jun-14	Fine	9:00 - 12:04	178.9	161.6	130.4	292.7	500.0
18-Jun-14	Cloudy	9:00 - 12:00	58.9	61.2	54.2	292.7	500.0
24-Jun-14	Rainy	9:00 - 12:00	34.6	36.9	35.8	292.7	500.0
30-Jun-14	Rainy	9:00 - 12:00	35.8	34.6	38.1	292.7	500.0
5-Jul-14	Rainy	9:00 - 12:00	64.6	66.9	70.4	292.7	500.0
11-Jul-14	Fine	9:00 - 12:00	56.5	51.9	62.3	292.7	500.0
17-Jul-14	Fine	9:00 - 12:00	50.8	51.9	54.2	292.7	500.0
23-Jul-14	Fine	9:00 - 12:00	78.5	72.7	69.2	292.7	500.0
29-Jul-14	Fine	9:00 - 12:00	73.9	69.2	66.9	292.7	500.0

Summary For the Reporting Quarter (May - Jul 2014)	
Average	96.6
Minimum	34.6
Maximum	178.9

Note: No major dust source observed during the monitoring period

1-Hour TSP Monitoring Result at station: SR77 (April - July 2014)



Project Name: Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3
Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling - Stage 2

Noise Monitoring Result at SR77

Date	Weather Condition	Start Time	End Time	Measured Noise Level (dB(A))*			Baseline Corrected Level, dB(A)**	Baseline Noise Level (dB(A)), Leq(30min)	Limit Level dB(A)	Exceedance (Y / N)
				L10(30min)	L90(30min)	Leq(30min)				
2014/04/04	Cloudy	8:00	8:30	70.5	72.5	63.5	-	67.8	75.0	N
2014/04/09	Fine	10:30	11:00	68.5	71.3	62.1	-	67.8	75.0	N
2014/04/16	Sunny	11:01	11:31	69.3	71.9	61.1	-	67.8	75.0	N
2014/04/22	Sunny	11:30	12:00	70.1	71.8	60.2	-	67.8	75.0	N
2014/04/28	Sunny	11:00	11:30	69.9	72.4	61.5	-	67.8	75.0	N
2014/05/09	Rainy	10:30	11:00	66.6	71.9	60.8	-	67.8	75.0	N
2014/05/15	Cloudy	9:00	9:30	65.5	70.5	58.5	-	67.8	75.0	N
2014/05/21	Rainy	14:30	15:00	63.6	70.1	60.2	-	67.8	75.0	N
2014/05/27	Fine	10:30	11:00	63.3	69.8	59.4	-	67.8	75.0	N
2014/06/06	Cloudy	14:30	15:00	62.5	70.5	59.5	-	67.8	75.0	N
2014/06/12	Fine	9:00	9:30	61.8	69.9	58.5	-	67.8	75.0	N
2014/06/18	Cloudy	13:00	13:30	61.8	68.6	59.8	-	67.8	75.0	N
2014/06/24	Rainy	11:00	11:30	62.4	70.6	58.8	-	67.8	75.0	N
2014/06/30	Rainy	14:30	15:00	63.1	69.3	58.5	-	67.8	75.0	N
2014/07/11	Fine	14:30	15:00	63.3	68.5	59.0	-	67.8	75.0	N
2014/07/17	Fine	9:00	9:30	63.6	68.9	58.9	-	67.8	75.0	N
2014/07/23	Fine	14:00	14:30	67.4	72.5	63.5	-	67.8	75.0	N
2014/07/29	Fine	9:30	10:00	72.1	73.5	64.0	-	67.8	75.0	N

Summary For the Reporting Quarter (May - Jul 2014)	
Average	60.0
Minimum	58.5
Maximum	64.0

Remarks

* +3dB(A) Façade effect correction included

** Baseline corrected level is only calculated when measured noise level (Leq) > limit level.

**Noise monitoring result: SR77
(April - July 2014)**

