

## Appendix 8.1 Past Environmental Monitoring Data

Date	TSP concentration recorded at PLA
3-Jan-06	93
9-Jan-06	130
12-Jan-06	141
18-Jan-06	70
26-Jan-06	128
1-Feb-06	76
7-Feb-06	84
15-Feb-06	91
24-Feb-06	- <sup>a</sup>
9-Mar-06	120
15-Mar-06	150
21-Mar-06	354
27-Mar-06	114
30-Mar-06	150
4-Apr-06	- <sup>e</sup>
12-Apr-06	27
18-Apr-06	134
24-Apr-06	- <sup>b</sup>
27-Apr-06	52
4-May-06	81
10-May-06	40
16-May-06	88
22-May-06	52
26-May-06	28
1-Jun-06	- <sup>c</sup>
7-Jun-06	- <sup>c</sup>
13-Jun-06	- <sup>c</sup>
19-Jun-06	- <sup>c</sup>
23-Jun-06	- <sup>c</sup>
27-Jun-06	- <sup>c</sup>
3-Jul-06	- <sup>c</sup>
7-Jul-06	- <sup>c</sup>
13-Jul-06	116
19-Jul-06	56
24-Jul-06	223
27-Jul-06	37
2-Aug-06	- <sup>a</sup>
8-Aug-06	130
14-Aug-06	38
18-Aug-06	73
24-Aug-06	35
28-Aug-06	28
1-Sep-06	65
7-Sep-06	99
13-Sep-06	44

Date	TSP concentration recorded at PLA
19-Sep-06	131
25-Sep-06	87
29-Sep-06	73
5-Oct-06	65
11-Oct-06	56
17-Oct-06	- <sup>e</sup>
23-Oct-06	72
27-Oct-06	- <sup>e</sup>
2-Nov-06	- <sup>e</sup>
7-Nov-06	- <sup>e</sup>
9-Nov-06	104
15-Nov-06	- <sup>e</sup>
21-Nov-06	40
27-Nov-06	78
1-Dec-06	74
7-Dec-06	74
13-Dec-06	- <sup>e</sup>
19-Dec-06	74
22-Dec-06	80
28-Dec-06	128
3-Jan-07	69
9-Jan-07	100
15-Jan-07	98
19-Jan-07	112
25-Jan-07	132
30-Jan-07	114
6-Feb-07	54
12-Feb-07	132
16-Feb-07	121
22-Feb-07	38
28-Feb-07	95
6-Mar-07	- <sup>e</sup>
12-Mar-07	85
16-Mar-07	51
22-Mar-07	67
28-Mar-07	78
3-Apr-07	- <sup>e</sup>
4-Apr-07	65
10-Apr-07	- <sup>e</sup>
16-Apr-07	53
20-Apr-07	68
26-Apr-07	- <sup>e</sup>
2-May-07	90
8-May-07	87
14-May-07	- <sup>e</sup>

## Appendix 8.1 Past Environmental Monitoring Data

Date	TSP concentration recorded at PLA
18-May-07	- <sup>e</sup>
23-May-07	32
29-May-07	- <sup>e</sup>
4-Jun-07	- <sup>e</sup>
8-Jun-07	36
13-Jun-07	23
15-Jun-07	31
21-Jun-07	27
27-Jun-07	24
3-Jul-07	- <sup>e</sup>
9-Jul-07	- <sup>e</sup>
13-Jul-07	33
19-Jul-07	55
25-Jul-07	47
31-Jul-07	44
6-Aug-07	29
9-Aug-07	75
16-Aug-07	- <sup>e</sup>
21-Aug-07	- <sup>e</sup>
27-Aug-07	30
31-Aug-07	51
6-Sep-07	- <sup>e</sup>
11-Sep-07	53
17-Sep-07	133
21-Sep-07	- <sup>e</sup>
27-Sep-07	43
2-Oct-07	- <sup>e</sup>
8-Oct-07	- <sup>e</sup>
12-Oct-07	- <sup>e</sup>
18-Oct-07	97
23-Oct-07	74
29-Oct-07	97
2-Nov-07	77
8-Nov-07	75
14-Nov-07	64
20-Nov-07	80
26-Nov-07	144
29-Nov-07	130
4-Dec-07	146
10-Dec-07	75
14-Dec-07	98
20-Dec-07	- <sup>e</sup>
24-Dec-07	50
27-Dec-07	68
2-Jan-08	112
8-Jan-08	95

Date	TSP concentration recorded at PLA
14-Jan-08	74
18-Jan-08	69
24-Jan-08	93
30-Jan-08	37
5-Feb-08	65
11-Feb-08	109
15-Feb-08	104
21-Feb-08	72
26-Feb-08	92
3-Mar-08	122
7-Mar-08	- <sup>e</sup>
13-Mar-08	111
19-Mar-08	122
25-Mar-08	- <sup>e</sup>
31-Mar-08	77
2-Apr-08	59
9-Apr-08	50
14-Apr-08	90
18-Apr-08	82
24-Apr-08	100
30-Apr-08	- <sup>d</sup>
6-May-08	87
13-May-08	81
16-May-08	- <sup>e</sup>
22-May-08	- <sup>e</sup>
28-May-08	57
2-Jun-08	79
6-Jun-08	29
16-Jun-08	47
19-Jun-08	30
27-Jun-08	40
30-Jun-08	23
4-Jul-08	32
10-Jul-08	54
16-Jul-08	45
22-Jul-08	44
28-Jul-08	- <sup>e</sup>
1-Aug-08	42
7-Aug-08	31
13-Aug-08	48
19-Aug-08	39
25-Aug-08	84
29-Aug-08	51
4-Sep-08	49
10-Sep-08	73
16-Sep-08	129

## Appendix 8.1 Past Environmental Monitoring Data

Date	TSP concentration recorded at PLA
22-Sep-08	104
25-Sep-08	40
2-Oct-08	98
8-Oct-08	67
14-Oct-08	- <sup>e</sup>
20-Oct-08	59
24-Oct-08	82
28-Oct-08	110
3-Nov-08	45
7-Nov-08	64
13-Nov-08	74
19-Nov-08	63
21-Nov-08	- <sup>e</sup>
27-Nov-08	105
3-Dec-08	71
9-Dec-08	76
15-Dec-08	- <sup>e</sup>
19-Dec-08	- <sup>e</sup>
23-Dec-08	71
29-Dec-08	- <sup>e</sup>
2-Jan-09	87
8-Jan-09	93
13-Jan-09	- <sup>e</sup>
19-Jan-09	75
23-Jan-09	- <sup>e</sup>
29-Jan-09	70
4-Feb-09	78
10-Feb-09	90
16-Feb-09	94
20-Feb-09	93
26-Feb-09	56
4-Mar-09	78
10-Mar-09	123
16-Mar-09	93
20-Mar-09	109
26-Mar-09	99
1-Apr-09	- <sup>e</sup>
7-Apr-09	55
9-Apr-09	98
14-Apr-09	62
16-Apr-09	82
22-Apr-09	127
4-May-09	78
8-May-09	72
14-May-09	54
20-May-09	64

Date	TSP concentration recorded at PLA
26-May-09	54
1-Jun-09	78
5-Jun-09	59
11-Jun-09	49
17-Jun-09	67
23-Jun-09	70
29-Jun-09	108
3-Jul-09	113
9-Jul-09	44
15-Jul-09	16
21-Jul-09	22
27-Jul-09	27
31-Jul-09	33
6-Aug-09	42
12-Aug-09	23
18-Aug-09	- <sup>e</sup>
24-Aug-09	- <sup>e</sup>
3-Sep-09	49
9-Sep-09	71
15-Sep-09	- <sup>e</sup>
21-Sep-09	37
25-Sep-09	30
30-Sep-09	- <sup>e</sup>
6-Oct-09	58
12-Oct-09	- <sup>e</sup>
16-Oct-09	- <sup>e</sup>
22-Oct-09	- <sup>e</sup>
28-Oct-09	- <sup>e</sup>
3-Nov-09	- <sup>e</sup>
9-Nov-09	- <sup>e</sup>
13-Nov-09	32
19-Nov-09	61
24-Nov-09	68
30-Nov-09	- <sup>e</sup>
4-Dec-09	80
10-Dec-09	55
16-Dec-09	33
22-Dec-09	- <sup>e</sup>
28-Dec-09	60
31-Dec-09	91
6-Jan-10	- <sup>e</sup>
12-Jan-10	65
18-Jan-10	- <sup>e</sup>
22-Jan-10	44
28-Jan-10	111
2-Feb-10	71

## Appendix 8.1 Past Environmental Monitoring Data

Date	TSP concentration recorded at PLA
8-Feb-10	45
12-Feb-10	27
18-Feb-10	- <sup>e</sup>
24-Feb-10	31
2-Mar-10	- <sup>e</sup>
5-Mar-10	22
11-Mar-10	55
17-Mar-10	111
23-Mar-10	- <sup>e</sup>
29-Mar-10	- <sup>e</sup>
1-Apr-10	57
7-Apr-10	41
13-Apr-10	50
19-Apr-10	65
23-Apr-10	38
29-Apr-10	- <sup>e</sup>
4-May-10	- <sup>e</sup>
10-May-10	31
14-May-10	- <sup>e</sup>
20-May-10	19
26-May-10	- <sup>e</sup>
1-Jun-10	- <sup>e</sup>
7-Jun-10	31
11-Jun-10	79
17-Jun-10	- <sup>e</sup>
26-Jun-10	17
29-Jun-10	19
5-Jul-10	24
9-Jul-10	16
15-Jul-10	- <sup>e</sup>
21-Jul-10	19
27-Jul-10	15
2-Aug-10	19
6-Aug-10	34
12-Aug-10	23
18-Aug-10	22
24-Aug-10	25
30-Aug-10	65
3-Sep-10	- <sup>e</sup>
9-Sep-10	43
14-Sep-10	29
20-Sep-10	- <sup>e</sup>
24-Sep-10	37

Date	TSP concentration recorded at PLA
30-Sep-10	54
6-Oct-10	101
12-Oct-10	54
18-Oct-10	101
22-Oct-10	109
28-Oct-10	95
3-Nov-10	131
9-Nov-10	152
15-Nov-10	140
19-Nov-10	102
25-Nov-10	123
1-Dec-10	102
7-Dec-10	- <sup>e</sup>
13-Dec-10	98
17-Dec-10	86
23-Dec-10	129
29-Dec-10	87

Year	Average TSP concentration at PLA
Year 1: Jan 06 – Dec 06	91.1
Year 2: Jan 07 – Dec 07	73.5
Year 3: Jan 08 – Dec 08	71.2
Year 4: Jan 09 – Dec 09	67.8
Year 5: Jan 10 – Dec 10	61.3
Yearly Average	73.0

## Appendix 8.1 Past Environmental Monitoring Data

Reference: Annex F - Air Quality Monitoring Results, Report No.21 - 80,  
Central Reclamation Phase III Environmental Monitoring & Audit Monthly Report

Remarks:

- a. HVS equipment malfunction at PLA
- b. Data is not available due to failure of power supply
- c. HVS repaired
- d. Access to the PLA Barracks monitoring Station was denied thus the monitoring was cancelled
- e. Data is discarded due to unusually low TSP concentration, see note 7

Notes:

1. Air Quality monitoring commenced on 21 Apr 2005.
2. The TSP samples were analyzed by Atkins China Limited's in-house Laboratory. The methodology and analysis at the laboratory was approved by the Engineer's Representative in consultation with the Independent Environmental Checker (IC(E)). The laboratory had also been inspected and audited by the IC(E) as per the EM&A Manual of CRIII Project to undertake the dust analysis.
3. TSP levels were measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B
4. Initial calibration of dust monitoring equipment was conducted upon installation and thereafter at bi-monthly intervals. The calibration results had been accepted by the IC(E) as per the EM&A Manual of CRIII Project.
5. The transfer standard had been traceable to the internationally recognized primary standard and calibrated annually. The calibration data had also been properly documented to be accepted by the IC(E) of the CRIII Project.
6. Sampling of 24-hour TSP is in principal programmed to be conducted at least once every 6 days. However, due to adverse weather conditions, power/equipment failure or specific requests by the PLA, the sampling duration was slightly extended occasionally.
7. As compared with the RSP concentration monitored at EPD's rural monitoring data at Tap Mun, those TSP concentration monitored at PLA lower than the RSP concentration monitored at Tap Mun at the corresponding date will be discarded. Please refer to Section 8.15 of the Volume I - Main Text.
8. Sampling of 24-hour TSP is programmed to be conducted at least once every 6 days, as such, there are about 60 samples conducted a year. In order to fulfill EPD's minimum data captured requirements of 85%, at least 51 samples should be collected in a year. The numbers of TSP samples which fulfill the minimum data captured requirement are summarized as below:

Year	Number of Samples
Year 1: Jan 06 – Dec 06	54
Year 2: Jan 07 – Dec 07	69
Year 3: Jan 08 – Dec 08	67
Year 4: Jan 09 – Dec 09	66
Year 5: Jan 10 – Dec 10	66

9. After discarding the unusually low TSP concentration, the percentage of valid data which fulfill the minimum data requirements of 66% for number of data monitored within the period as stated in Air Pollution in Hong Kong published by EPD are summarized as below:

Year	Percentage of valid data
Year 1: Jan 06 – Dec 06	87%
Year 2: Jan 07 – Dec 07	74%
Year 3: Jan 08 – Dec 08	85%
Year 4: Jan 09 – Dec 09	77%
Year 5: Jan 10 – Dec 10	76%