

## Appendix 5.1 Past Environmental Monitoring Data

Date	TSP concentration recorded at PLA
21-Apr-05	98
27-Apr-05	67
4-May-05	120
11-May-05	144
18-May-05	40
24-May-05	78
30-May-05	44
2-Jun-05	39
8-Jun-05	58.1
14-Jun-05	45
20-Jun-05	60.3
29-Jun-05	26.4
11-Jul-05	30.8
20-Jul-05	- <sup>e</sup>
26-Jul-05	43.3
1-Aug-05	55.1
11-Aug-05	85
18-Aug-05	32.1
23-Aug-05	62.5
29-Aug-05	39.8
2-Sep-05	- <sup>e</sup>
8-Sep-05	101.3
15-Sep-05	61.3
21-Sep-05	180.7
27-Sep-05	64.2
12-Oct-05	58.9
18-Oct-05	149.1
24-Oct-05	92.6
28-Oct-05	104
3-Nov-05	57.5
9-Nov-05	104.2
15-Nov-05	60.9
21-Nov-05	122.1
25-Nov-05	168.5
1-Dec-05	106
7-Dec-05	135
13-Dec-05	172
19-Dec-05	98
22-Dec-05	139
28-Dec-05	95
3-Jan-06	93
9-Jan-06	130
12-Jan-06	141
18-Jan-06	70
26-Jan-06	128

Date	TSP concentration recorded at PLA
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
19-Sep-06	131
25-Sep-06	87
29-Sep-06	73
5-Oct-06	65
11-Oct-06	56

## Appendix 5.1 Past Environmental Monitoring Data

Date	TSP concentration recorded at PLA
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>
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

Date	TSP concentration recorded at PLA
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
14-Jan-08	74
18-Jan-08	69
24-Jan-08	93
30-Jan-08	37
5-Feb-08	65
11-Feb-08	109

## Appendix 5.1 Past Environmental Monitoring Data

Date	TSP concentration recorded at PLA
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
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

Date	TSP concentration recorded at PLA
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
26-May-09	54
1-Jun-09	78
5-Jun-09	59
11-Jun-09	49
17-Jun-09	67
23-Jun-09	70

## Appendix 5.1 Past Environmental Monitoring Data

Date	TSP concentration recorded at PLA
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
8-Feb-10	45

Date	TSP concentration recorded at PLA
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>

Year	Average TSP concentration at PLA
Year 1: Apr 05 – Mar 06	96.9
Year 2: Apr 06 – Mar 07	80.2
Year 3: Apr 07 – Mar 08	73.7
Year 4: Apr 08 – Mar 09	70.4
Year 5: Apr 09 – Mar 10	59.7
Yearly Average	76.2

## Appendix 5.1 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 an 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 5.12 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: Apr 05 – Mar 06	53
Year 2: Apr 06 – Mar 07	57
Year 3: Apr 07 – Mar 08	70
Year 4: Apr 08 – Mar 09	66
Year 5: Apr 09 – Mar 10	66

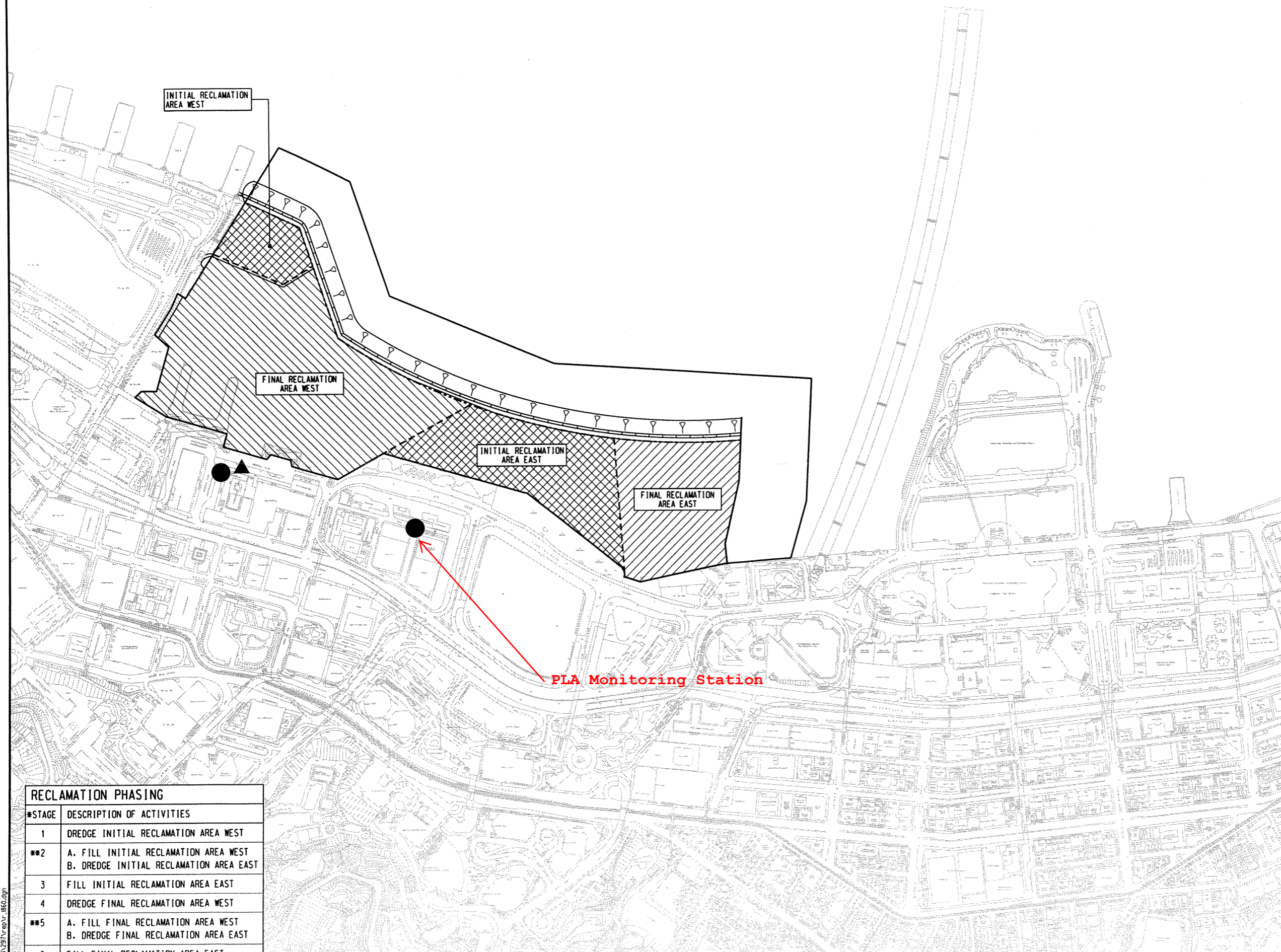
9. After discarding the unusually low TSP concentration, the percentage of valid data which fulfill the minimum data requirements of 66% for number of data monitored within the period as stated in Air Pollution in Hong Kong published by EPD are summarized as below:

Year	Percentage of valid data
Year 1: Apr 05 – Mar 06	96%
Year 2: Apr 06 – Mar 07	86%
Year 3: Apr 07 – Mar 08	73%
Year 4: Apr 08 – Mar 09	85%
Year 5: Apr 09 – Mar 10	71%



**LEGEND:**

- DUST MONITORING STATIONS
- ▲ NOISE MONITORING STATION



RECLAMATION PHASING	
*STAGE	DESCRIPTION OF ACTIVITIES
1	DREDGE INITIAL RECLAMATION AREA WEST
**2	A. FILL INITIAL RECLAMATION AREA WEST B. DREDGE INITIAL RECLAMATION AREA EAST
3	FILL INITIAL RECLAMATION AREA EAST
4	DREDGE FINAL RECLAMATION AREA WEST
**5	A. FILL FINAL RECLAMATION AREA WEST B. DREDGE FINAL RECLAMATION AREA EAST
6	FILL FINAL RECLAMATION AREA EAST

\* ACTIVITIES DESCRIBED IN STAGES 1 TO 6 SHOULD BE CARRIED OUT IN THE SEQUENCE SHOWN IN THIS TABLE AND SHOULD NOT BE IMPLEMENTED CONCURRENTLY.

\*\* BOTH ACTIVITIES (A) AND (B) ARE PERMITTED TO BE CARRIED OUT CONCURRENTLY.

REV	DESCRIPTION	BY	DATE	CHK'D	AUTH


 拓展署 Territory Development Department  
 港島及離島拓展處  
 HONG KONG ISLAND AND ISLANDS DEVELOPMENT OFFICE

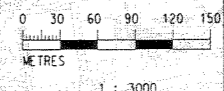
**ATKINS** 安達顧問有限公司  
 Atkins China Ltd

CONTRACT  
**CONTRACT NO. HK 12/02**  
 Central Reclamation Phase III  
 Engineering Works

DRAWING TITLE  
**DUST & NOISE MONITORING STATIONS**

STATUS  
**BASELINE MONITORING REPORT**

SCALE AT A1	DESIGNED VAR	DRAWN MAD	CHECKED JV	AUTHORISED JCN
1:3000	DATE JAN2003	DATE JAN2003	DATE JAN2003	DATE JAN2003



DRAWING NUMBER  
**3128/ACL/FIGURE 2.1**