



Territory Development Department

Contract No. ST77/01

**Sha Tin New Town, Stage II
Road D15 Linking Lok Shun Path
and Tai Po Road**

**Monthly Environmental Monitoring & Audit Report -
February, 2004**

March, 2004




Environmental Management Limited
美華環協管理有限公司

**Sha Tin New Town, Stage II Road D15 Linking Lok Shun Path and
Tai Po Road (Contract No. ST 77/01)**

**Monthly Environmental Monitoring & Audit Report –
February 2004**

Checked in accordance with EML QP22
Environmental Team Leader



EXECUTIVE SUMMARY

This impact environmental monitoring report has been prepared by Environmental Management Limited (EML) for Environmental Monitoring & Audit (EM&A) Services of Sha Tin New Town, Stage II Road D15 Linking Lok Shun Path and Tai Po Road. The EM&A services carried out in February 2004 are included in this report.

The environmental monitoring for this Project included both air quality and noise measurements. The parameters measured for air quality were 24-hour and 1-hour Total Suspended Particulate (TSP) and for noise monitoring were the A-weighted continuous sound pressure level (L_{eq}) and percentile levels (L_{10} and L_{90}).

The major construction activities in this reporting period included:

- Construction of Bridges A, B and C, including abutment walls (Bridge A), and bridge decks (Bridges A, B and C), installation of bridge bearings (Bridges A and B);
- Retaining walls 1, 2, 6, 7 and 12;
- Noise barrier construction for noise barrier No. 1 and noise barrier No. 4B;
- Underground drainage and water pipes at Lok Shun Path Roundabout; and
- Construction of staircases 4, 10 and 11.

Over the reporting period, two exceedances in Action Level were noted for the 24-hour TSP level. The exceedances were measured at Stations A2 and A3 from 09:30 to 09:30 of next day on 17 February 2004. An ad-hoc site inspection was carried out on 26 February 2004 by ET, MCAL and BCCL to investigate the matter. It was noted that at the time of the site inspection, general site work was carried out near Stations A2 and A3. No particular dust issues were observed on site. It is believed that the high measured levels were caused by the dust generated by the haulage and delivery vehicles crossing Bridge C on 17 February during the backfilling works of the abutment between B1 and B2.

The Contractor was reminded that proper dust control measures should be implemented as stated in Environment Monitoring Checklist Item nos. A8, A9 and A10, in particular where a vehicle leaving and entering the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure the dusty materials do not leak from the vehicle, and all dusty materials (except for cement and PFA and for cases where the moisture content is a matter of concern) shall be sprayed with water or a dust suppression chemical immediately prior to loading or unloading or transfer operation so as to maintain the dusty materials wet. Besides, every vehicle immediately before leaving the construction site shall be washed to remove any dusty materials from its body and wheels.

Regular site inspection was conducted in this reporting month and the mitigation measures, as discussed in Section 3.4, were assessed.

In regard to the environmental issues in the last reporting month, it was noted from site inspections that stagnant water near Staircase 2 and within the excavation trench near Lok Lo Ha roundabout was properly pumped out and discharged. In addition, it was noted that the portable toilet near Noise Barrier No. 4C was removed.

In this month, however, it was noted that mud and sand were found accumulated at wheel washing bay and gullies at roundabout. Besides, stagnant water was found on drip-tray and cover sheet at the valley under Bridge B. In addition, disused diesel tanks and construction waste near Noise Barrier No. 4C were found on site. Furthermore, the Wetsep pump sump was not properly maintained as the pump was clogged with silt and the sandbag barriers were loosely packed. The Contractor was reminded to clear off the mud and sand at wheel washing bay and constantly clean the gullies. The Contractor was also asked to remove the disused diesel tanks from site and cover the construction waste near Noise Barrier No. 4C with tarpaulin and remove the waste once the site access is reopen. Besides, the Contractor was again reminded to clear off any stagnant water found on site, especially on drip-tray and cover sheet at the

valley under Bridge B. Furthermore, the Contractor was asked to maintain the Wetsep pump sump properly.

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1. INTRODUCTION

1.1 Background

Environmental Management Limited (EML) was appointed by Maunsell Consultants Asia Ltd. as the Environmental Specialist for the project *Sha Tin New Town, Stage II Road Linking Lok Shun Path and Tai Po Road* (Contract No. ST 77/01).

The responsibilities of the Environmental Team are to:

- Monitor the noise and air quality data as required in the Environmental Monitoring and Audit (EM&A) Manual;
- Analyse the monitoring data and review the success of EM&A program to cost effectively confirm the adequacy of mitigatory measures implemented and validity of the Environmental Impact Assessment Study predictions and to identify any adverse environmental impacts arising;
- Carry out site inspection to investigate and audit the Contractor's site practice, equipment and work methodologies with respect to pollution control and environmental mitigation, and anticipate environmental issues for proactive action before problems arise;
- Review the proposal for mitigation measures submitted by Contractor in accordance with Event and Action Plans;
- Propose any improvement or other alternative mitigation measures should Contractor's proposal be found to be inadequate;
- Adhere to the procedures for carrying out complaint investigation;
- Audit and prepare EM&A reports on environmental monitoring data and site environmental conditions; and
- Report on EM&A results to Engineer, the ER and EPD.

This monthly EM&A report is for the monitoring period in February 2004. In this report, the results of the impact air quality and noise monitoring works in the reporting period as well as the environmental status and issues of Road D15 Construction Site are included. In addition, if required, any remedial/follow-up actions undertaken as a result of non-compliance with relevant environmental criteria or complaints related to Road D15 Construction Site would also be discussed.

The project area of Road D15 Construction Site is shown in **Figure 1.1**.

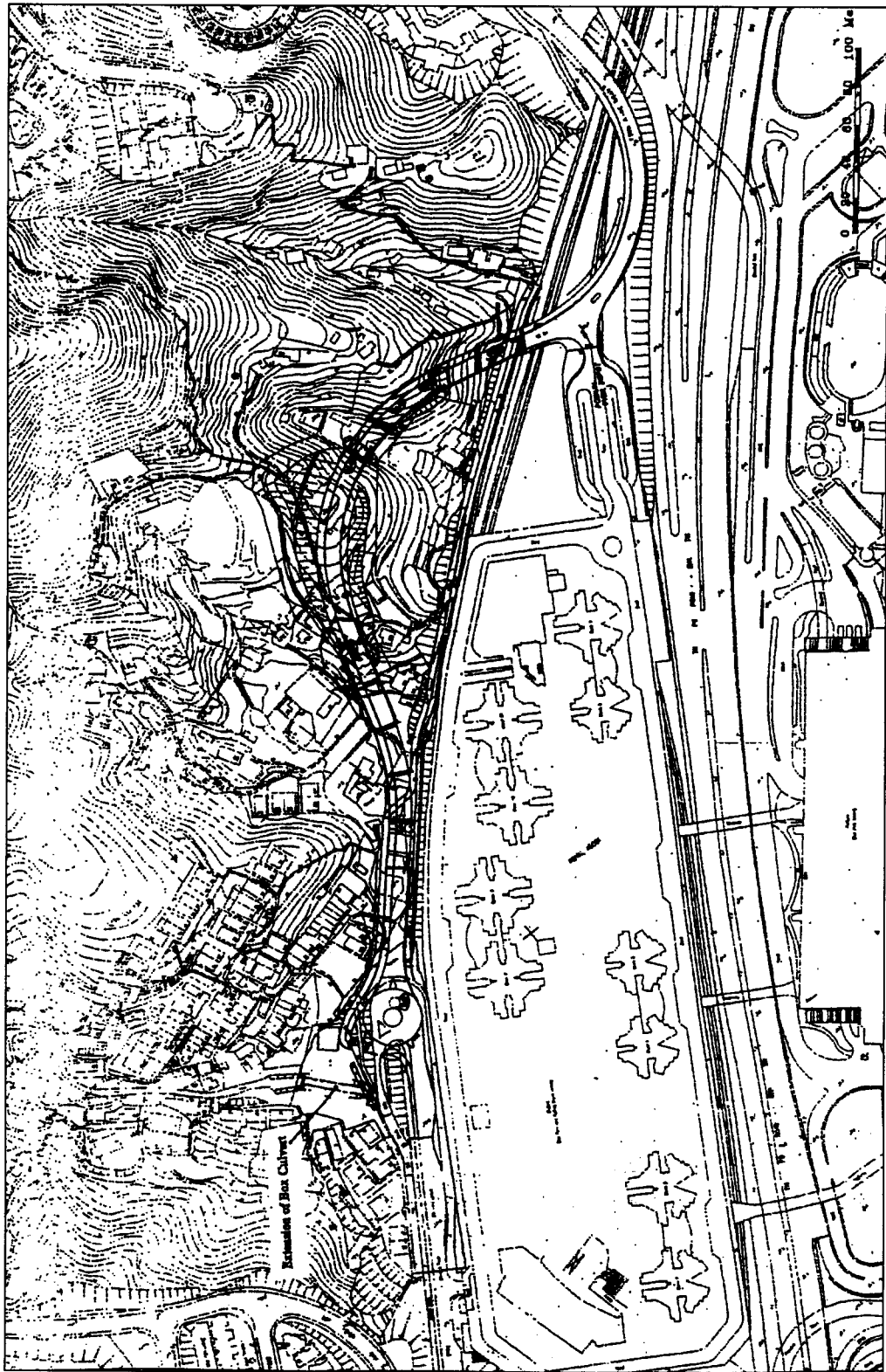


Figure 1.1 Project Area

2. ENVIRONMENTAL STATUS

2.1 Air Quality

2.1.1 Monitoring Requirements

In accordance with the EM&A Manual, air quality impact monitoring was conducted in terms of 1-hour and 24-hour TSP at the designated monitoring locations.

Continuous 24-hour TSP monitoring was performed once in every six days while 1-hour TSP monitoring was performed 3 times in every 6 days. The Action and Limit (AL) levels for air quality are included in **Appendix A** and the tentative monitoring schedules for the current and next reporting months are attached in **Appendix B**.

2.1.2 Monitoring Locations

The designated impact air quality monitoring stations are listed in **Table 2.1** and are shown in **Figure 2.1**.

Table 2.1 Air Quality Monitoring Locations

Monitoring Station	Location
A1	Village house at Lok Lo Ha Village
A2	Lok Lo Ha Village House No. 104
A3	Village House near Tsun King Road

2.1.3 Summary of Monitoring Results

In this report, the results for the impact air quality monitoring conducted in February 2004 at the three designated locations were evaluated. **Table 2.2** summarises the ranges and mean of the 24-hour and 1-hour TSP monitoring results carried out in the reporting period. Detailed results, including graphical plots and relevant field logs, are presented in **Appendices C** and **D**. **Appendix F** shows the meteorological conditions during the monitoring days.

Table 2.2 Summary of 24 and 1-hour TSP Monitoring Results

Parameter	Monitoring Location	Mean TSP Levels ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	No. of Exceedance	
				Action Levels	Limit Levels
24 – hour TSP	A1	116.6	62 – 156	0	0
	A2	108.6	60 – 157	1	0
	A3	108.2	48 – 173	1	0
1 – hour TSP	A1	224.9	162 – 293	0	0
	A2	216.1	146 – 294	0	0
	A3	222.5	105 – 291	0	0

From **Table 2.2** above, two measured 24-hour TSP monitoring data at Stations A2 and A3 had exceeded the relevant Action Levels shown in **Appendix A**. At Stations A2 and A3, the measured levels of $157\mu\text{g}/\text{m}^3$ and $173\mu\text{g}/\text{m}^3$ were $2\mu\text{g}/\text{m}^3$ and $20\mu\text{g}/\text{m}^3$ above the Action Level on 17 February 2004 (Time: 09:30 to 09:30 of next day) respectively. Consequently, the Event and Action Plan for Air Quality as set out in **Appendix G** was triggered. Details are discussed in **Section 3.2** of this report.

Over the reporting period, the local weather conditions during the monitoring were mainly fine or cloudy, except that some precipitations were recorded on 5 February. From field logs, the major dust sources during samplings near the designated stations included road dusts, vehicle emissions from traffic in Lok Shun Path and construction works at Road D15 Site. The major construction works carried out at Road D15 Site over the reporting period included construction of Bridges A, B and C, retaining wall, noise barrier, underground drainage and water pipes and staircases. It was also observed that there were construction activities carried out on the construction sites that were not related to this Project in the vicinity of the monitoring stations.

Comparing with the monitoring results from those of the last month, the calculated mean 24-hour and 1-hour TSP levels at all stations were generally higher in this reporting month except the mean 24-hour TSP at Stations A2 and A3. The highest mean TSP level was recorded at Station A1 (1-hour TSP) with a value of $224.9\mu\text{g}/\text{m}^3$ which was higher than the value of $197.8\mu\text{g}/\text{m}^3$ recorded in January.



Figure 2.1 Air Quality Monitoring Locations

2.2 Noise

2.2.1 Monitoring Requirements

Impact noise monitoring was conducted once in every six days at the five designated monitoring locations in accordance with the specifications in the EM&A Manual. The duration of sampling was 30 minutes. The Action and Limit levels for noise monitoring are attached in **Appendix A** and the tentative monitoring schedules for the current and next reporting months are attached in **Appendix B**.

2.2.2 Monitoring Locations

The impact noise monitoring locations are presented in **Table 2.3** and are shown in **Figure 2.2**.

Table 2.3 Noise Monitoring Locations

Monitoring Location	Measurement	Location
N1	Façade	Lok Lo Ha Village House No. 3B
N2	Façade	Lok Lo Ha Village House No. 32A
N3	Façade	Royal Ascot Block 9, Flat C
N4	Façade	Lok Lo Ha Village House No. 97
N5	Façade	Village near Royal Ascot

2.2.3 Summary of Monitoring Results

In this report, the results for the impact noise monitoring conducted in February 2004 at the five designated locations were evaluated. The monitoring results obtained are summarised in **Table 2.4**. Detailed results, including graphical plots and relevant field logs, are presented in **Appendix E**. **Appendix F** shows the meteorological conditions during the monitoring days.

Table 2.4 Summary of Noise Monitoring Results

Parameter	Monitoring Location	Range of Results dB(A)	No. of Exceedance	
			Action Levels	Limit Levels
30-minute Noise Measurement (Leq)	N1	59.6 – 66.9	0	0
	N2	63.3 – 65.3	0	0
	N3	56.2 – 59.9	0	0
	N4	59.5 – 65.6	0	0
	N5	57.6 – 62.7	0	0

In **Table 2.4**, all the recorded noise monitoring data were below the criteria as set out in the Action and Limit Levels in **Appendix A**.

Over the reporting period, the local weather conditions during the sampling were mainly fine or cloudy except that some precipitations were recorded on 5 February. All the monitoring was conducted with wind speeds of below 1.0 m/s. Traffic and construction activities were the major noise sources identified at the five monitoring locations. It was noted from field log that activities of breaking, excavating and hammering were presented in the vicinity of the monitoring stations during the monitoring period.

Comparing with the monitoring results recorded in the last reporting period, the ranges of measured noise levels during this reporting month at all stations were similar. The highest level

was recorded at Station N1 (66.9 dB(A)) and occurred in the morning of 24 February. According to the field log, the major noise source at that time was excavation as well as traffic noise.



Figure 2.2 Noise Monitoring Locations

3. ENVIRONMENTAL AUDIT

3.1 General

In the last monthly EM&A report, the following two environmental issues were raised:

- Stagnant water should be pumped out and discharged properly from the site.
- The portable toilet should be locked up or removed until reopening of access road.

It was noted from site inspections that stagnant water near Staircase 2 and within the excavation trench near Lok Lo Ha roundabout was properly pumped out and discharged. In addition, it was noted that the portable toilet near Noise Barrier Bo. 4C was removed.

Table 3.1 summarises the date and type of site inspections carried out during the reporting period.

Table 3.1 Summary of Site Inspection during the Reporting Period

Date	Type of Inspection
5 February 2004 (Thursday)	Regular Site Inspection
12 February 2004 (Thursday)	Regular Site Inspection
17 February 2004 (Tuesday)	Regular Site Inspection
26 February 2004 (Thursday)	Regular Site Inspection

Over the reporting period, the major construction work at the Site included:

- Construction of Bridges A, B and C, including abutment walls (Bridge A), and bridge decks (Bridges A, B and C), installation of bridge bearings (Bridges A and B);
- Retaining walls 1, 2, 6, 7 and 12;
- Noise barrier construction for noise barrier No. 1 and noise barrier No. 4B;
- Underground drainage and water pipes at Lok Shun Path Roundabout; and
- Construction of staircases 4, 10 and 11.

3.2 Assessment of Environmental Monitoring Results

In this reporting month, there were two incidents where the monitoring results exceeded the Action Level specified in **Appendix A**. The exceedances occurred for 24-hour TSP were measured at Stations A2 and A3 on 17 February 2004. The monitoring results were discussed in **Section 2** of the report and are summarised in **Tables 3.2** and **3.3**.

Table 3.2 Summary of Environmental Monitoring

Item	Parameter	Monitoring Period	Total No. of Samples Taken (on all stations)	No. of Exceedance	
				Action Levels	Limit Levels
1	24 – hour TSP	01/2/04 to 29/2/04	15	2	0
2	1 – hour TSP	01/2/04 to 29/2/04	45	0	0
3	30-minute Noise Measurement (Leq)	01/2/04 to 29/2/04	25	0	0

Table 3.3 Summary of Non-Compliance with Relevant Criteria

Location	Parameter	Data & Time of Exceedance	Measured Level ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Type of Exceedance
Lok Lo Ha Village House No.104	24 – hour TSP Measurement ($\mu\text{g}/\text{m}^3$)	17 February (09:30 to 09:30 of next day)	157	155.0	Action Level (by $2\mu\text{g}/\text{m}^3$)
Village House near Tsun King Road	24 – hour TSP Measurement ($\mu\text{g}/\text{m}^3$)	17 February (09:30 to 09:30 of next day)	173	153.0	Action Level (by $20\mu\text{g}/\text{m}^3$)

As shown in **Table 3.3**, the measured levels of $157.0 \mu\text{g}/\text{m}^3$ at Station A2 and $173 \mu\text{g}/\text{m}^3$ at Station A3 are $2 \mu\text{g}/\text{m}^3$ and $20 \mu\text{g}/\text{m}^3$ above the Action Levels respectively. Since exceedances in Action Levels had occurred, the Event and Action Plan for Air Quality attached in **Appendix G** was triggered. An ad-hoc site inspection was carried out on 26 February 2004 by ET, MCAL and BCCL to investigate the matter. It was noted that at the time of the site inspection, general site work was carried out near Stations A2 and A3. No particular dust issues were observed on site. It is believed that the high measured levels were caused by the dust generated by the haulage and delivery vehicles crossing bridge C on 17 February during the backfilling works of the abutment between B1 and B2.

The Contractor was reminded that proper dust control measures should be implemented as stated in Environment Monitoring Checklist Item nos. A8, A9 and A10, in particular where a vehicle leaving and entering the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure the dusty materials do not leak from the vehicle, and all dusty materials (except for cement and PFA and for cases where the moisture content is a matter of concern) shall be sprayed with water or a dust suppression chemical immediately prior to loading or unloading or transfer operation so as to maintain the dusty materials wet. Besides, every vehicle immediately before leaving the construction site shall be washed to remove any dusty materials from its body and wheels.

3.3 Environmental Complaints

No environmental complaint was received by the Environmental Team against the construction site in this reporting month. **Table 3.4** shows the summary record for this reporting month. **Table 3.5** summarises the complaint statistics from the commencement of the Project to date. **Appendix I** lists details of all the received complaints relating to the activities carried out on the construction site.

Table 3.4 Environmental Complaints / Enquiry Received in the Reporting Month

Complaint No.	Received date & Time	Description (inc. location/ nature of complaint)	Follow-up Action Taken	Recommended Mitigation Measures	Status/ Remarks
N/a	N/a	N/a	N/a	N/a	N/a

Table 3.5 Summary of Total Number of Complaints Received to date

Total No. of Complaints to date	No. of Complaints in this reporting period	No. of Active Complaints	No. of Inactive/Closed Complaints
2	0	N/a	2

3.4 Assessment of Mitigation Measures

Table 3.6 presents the status of the major mitigation measures identified during site inspection.

Table 3.6 Summary of Major Mitigation Measures at the Site

Type	Mitigation Measure	Comments
Noise	Temporary purposed-built Noise Barrier	No longer required
Water	Wheel Washing Facility	Installed and in operation.
	Sand/Silt Removal Facilities	No longer required
	Measures along stream-banks north-east of Lok Shun Path Roundabout	No longer required
	Diversion of Stream Course via drainage pipe	Installed at the existing channel.
Wastewater	Water reuse at wheel washing facility and site investigation drilling works.	Implemented
Land Contamination	Metal trays are placed underneath stationary machines where there are potential of oil leakage	Implemented
Air	Provide plastic sheeting covers on exposed soils	Implemented
	Regular water spraying on areas where there is likely generation of dust	Implemented
	Impervious sheeting was placed around the working area near monitoring station A1	Implemented

In this month, it was noted that mud and sand were found accumulated at wheel washing bay and gullies at roundabout. Besides, stagnant water was found on drip-tray and cover sheet at the valley under Bridge B. In addition, disused diesel tanks and construction waste near Noise Barrier No. 4C were found on site. Furthermore, the Wetsep pump sump was not properly maintained as the pump was clogged with silt and the sandbag barriers were loosely packed. The Contractor was reminded to clear off the mud and sand at wheel washing bay and constantly clean the gullies. The Contractor was also asked to remove the disused diesel tanks from site and cover the construction waste near Noise Barrier No. 4C with tarpaulin and remove the waste once the site access is reopen. Besides, the Contractor was again reminded to clear off any stagnant water found on site, especially on drip-tray and cover sheet at the valley under Bridge B. Furthermore, the Contractor was asked to maintain the Wetsep pump sump properly.

4. FUTURE KEY ISSUE AND RECOMMENDATION

There are six environmental issues that need to be addressed in the next reporting month:

- Mud and sand accumulated at wheel washing bay should be cleared off.
- Gullies at roundabout should be constantly cleaned.
- Disused diesel tanks should be removed from site.
- Construction waste near Noise Barrier No. 4C should be covered with tarpaulin and removed once the site access is reopen.
- Stagnant water found on site, especially on drip-tray and cover sheet at the valley under Bridge B, should be cleared off.
- Wetsep pump sump should be maintained properly, for example, pump should function well and sandbag barriers should be packed tighter.

The updated work program for the following months is attached in **Appendix J**. The monitoring tentative schedule for the next reporting month is attached in **Appendix B**.

APPENDIX A:

Action and Limit Levels

Action and Limit Levels for 24-hour TSP

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
A1	156	260
A2	155	
A3	153	

Action and Limit Levels for 1-hour TSP

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
A1	371	500
A2	378	
A3	368	

Action / Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hours on normal weekdays	When one documented complaint is received	75* dB(A)
0700-2300 hours on holidays; and 1900-2300 hours on all other days		60/65/70** dB(A)
2300- 0700 hours of next day		45/50/55** dB(A)

** to be selected based on Area Sensitivity Rating

Note: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

APPENDIX B:

**Tentative Schedule for Impact
Air Quality and Noise
Monitoring**

1. Time Schedule for the Current Reporting Month – February 2004

Contract No. ST77/01
 Sha Tin New Town, Stage II
 Road D15 Linking Lok Shun Path and Tai Po Road

Time Schedule for Construction Phase Dust Monitoring for Feb 2004

Feb-04	Day	Start Time	
		24-hr TSP	1-hr TSP
1	Sun	X	X
2	Mon	X	09:00,11:00
3	Tue	X	X
4	Wed	X	X
5	Thu	09:30	08:00
6	Fri	X	09:50,11:00
7	Sat	X	X
8	Sun	X	X
9	Mon	X	X
10	Tue	X	X
11	Wed	09:30	08:00
12	Thu	X	09:50,11:00
13	Fri	X	X
14	Sat	X	X
15	Sun	X	X
16	Mon	X	X
17	Tue	09:30	08:00
18	Wed	X	09:50,11:00
19	Thu	X	X
20	Fri	X	X
21	Sat	X	X
22	Sun	X	X
23	Mon	09:30	08:00
24	Tue	X	09:50,11:00
25	Wed	X	X
26	Thu	X	X
27	Fri	09:30	08:00
28	Sat	X	X
29	Sun	X	X

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Sha Tin New Town, Stage II

Road D15 Linking Lok Shun Path and Tai Po Road

Time Schedule for Construction Phase Noise Monitoring for Feb 2004

Feb-04	Day	Start Time				
		N1	N2	N3	N4	N5
1	Sun	x	x	x	x	x
2	Mon	09:50	11:15	13:00	10:25	09:00
3	Tue	x	x	x	x	x
4	Wed	x	x	x	x	x
5	Thu	x	x	x	x	x
6	Fri	09:50	11:15	13:00	10:25	09:00
7	Sat	x	x	x	x	x
8	Sun	x	x	x	x	x
9	Mon	x	x	x	x	x
10	Tue	x	x	x	x	x
11	Wed	x	x	x	x	x
12	Thu	09:50	11:15	13:00	10:25	09:00
13	Fri	x	x	x	x	x
14	Sat	x	x	x	x	x
15	Sun	x	x	x	x	x
16	Mon	x	x	x	x	x
17	Tue	x	x	x	x	x
18	Wed	09:50	11:15	13:00	10:25	09:00
19	Thu	x	x	x	x	x
20	Fri	x	x	x	x	x
21	Sat	x	x	x	x	x
22	Sun	x	x	x	x	x
23	Mon	x	x	x	x	x
24	Tue	09:50	11:15	13:00	10:25	09:00
25	Wed	x	x	x	x	x
26	Thu	x	x	x	x	x
27	Fri	x	x	x	x	x
28	Sat	x	x	x	x	x
29	Sun	x	x	x	x	x

2. Tentative Schedule for the Next Reporting Month – March 2004

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Sha Tin New Town, Stage II

Road D15 Linking Lok Shun Path and Tai Po Road

Tentative Time Schedule for Construction Phase Dust Monitoring for March 2004

Mar-04	Day	Start Time	
		24-hr TSP	1-hr TSP
1	Mon	x	09:00,11:00
2	Tue	x	x
3	Wed	x	x
4	Thu	09:30	08:00
5	Fri	x	09:00,11:00
6	Sat	x	x
7	Sun	x	x
8	Mon	x	x
9	Tue	x	x
10	Wed	09:30	08:00
11	Thu	x	09:00,11:00
12	Fri	x	x
13	Sat	x	x
14	Sun	x	x
15	Mon	x	x
16	Tue	09:30	08:00
17	Wed	x	09:00,11:00
18	Thu	x	x
19	Fri	x	x
20	Sat	x	x
21	Sun	x	x
22	Mon	09:30	08:00
23	Tue	x	09:00,11:00
24	Wed	x	x
25	Thu	x	x
26	Fri	09:30	08:00
27	Sat	x	x
28	Sun	x	x
29	Mon	x	09:00,11:00
30	Tue	x	x
31	Wed	x	x

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Tentative Time Schedule for Construction Phase Noise Monitoring for March 2004

Mar-02	Day	Start Time				
		N1	N2	N3	N4	N5
1	Wed	09:50	11:15	13:00	10:25	09:00
2	Thu	x	x	x	x	x
3	Fri	x	x	x	x	x
4	Sat	x	x	x	x	x
5	Sun	09:50	11:15	13:00	10:25	09:00
6	Mon	x	x	x	x	x
7	Tue	x	x	x	x	x
8	Wed	x	x	x	x	x
9	Thu	x	x	x	x	x
10	Fri	x	x	x	x	x
11	Sat	09:50	11:15	13:00	10:25	09:00
12	Sun	x	x	x	x	x
13	Mon	x	x	x	x	x
14	Tue	x	x	x	x	x
15	Wed	x	x	x	x	x
16	Thu	x	x	x	x	x
17	Fri	09:50	11:15	13:00	10:25	09:00
18	Sat	x	x	x	x	x
19	Sun	x	x	x	x	x
20	Mon	x	x	x	x	x
21	Tue	x	x	x	x	x
22	Wed	x	x	x	x	x
23	Thu	09:50	11:15	13:00	10:25	09:00
24	Fri	x	x	x	x	x
25	Sat	x	x	x	x	x
26	Sun	x	x	x	x	x
27	Mon	x	x	x	x	x
28	Tue	x	x	x	x	x
29	Wed	09:50	11:15	13:00	10:25	09:00
30	Thu	x	x	x	x	x
31	Fri	x	x	x	x	x

APPENDIX C:

**24-Hour TSP Impact
Monitoring Results and Plots**

1. 24-hour TSP Monitoring Results

Monitoring Station A1 (Lok Lo Ha Village House No. 3B)

Date	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Total Sampling Time (min.)	Conc. (µg/m ³)	Weather Condition
	Initial	Final	Initial	Final	Initial	Final			
5-Feb-03	2.7786	2.8776	1.11	1.11	12788.17	12812.17	1440	62	Rainy
11-Feb-03	2.8152	2.9351	1.11	1.11	12815.17	12839.17	1440	75	Fine
17-Feb-03	2.8047	3.0202	1.11	1.11	12842.17	12866.17	1440	135	Fine
23-Feb-03	2.8151	3.0626	1.11	1.11	12869.17	12893.17	1440	155	Fine
27-Feb-03	2.8340	3.0840	1.11	1.11	12896.17	12920.17	1440	156	Sunny
							Min	62	
							Max	156	
							Average	116.6	

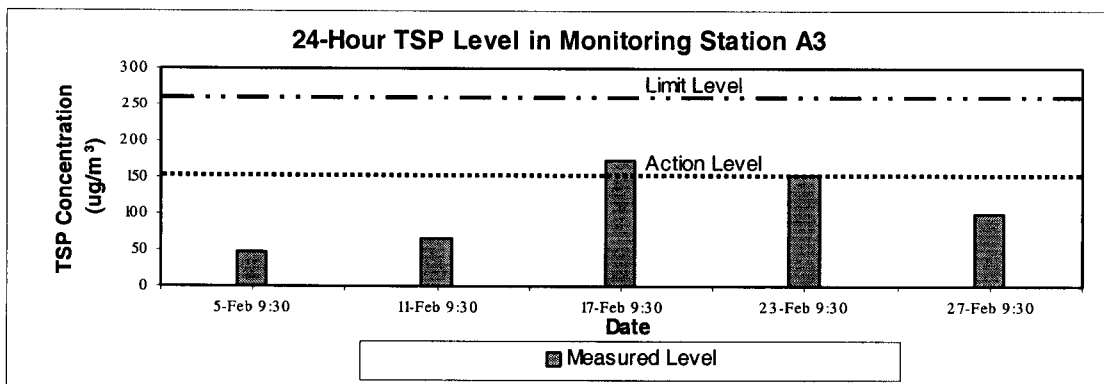
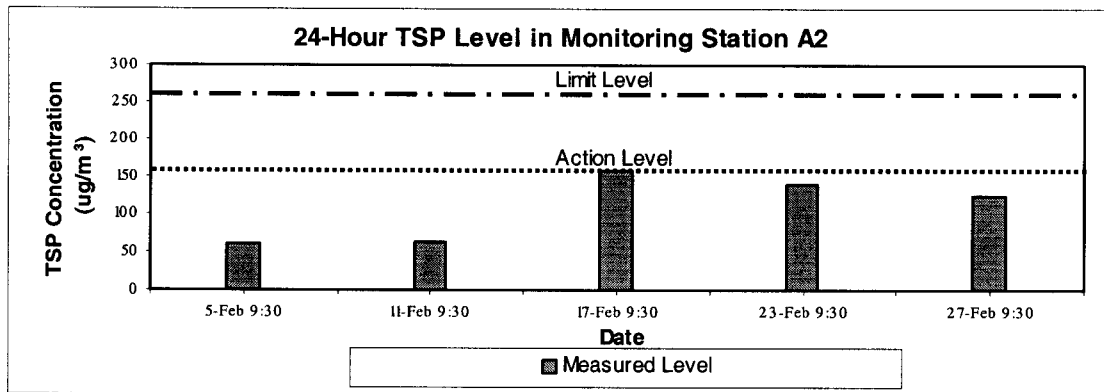
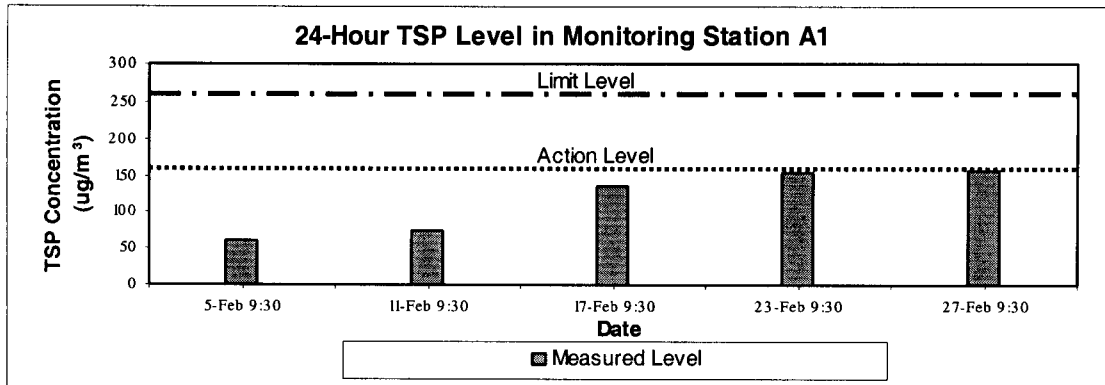
Monitoring Station A2 (Lok Lo Ha Village House No. 104)

Date	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapse Time		Total Sampling Time (min.)	Conc. (µg/m ³)	Weather Condition
	Initial	Final	Initial	Final	Initial	Final			
5-Feb-03	2.8124	2.9086	1.11	1.11	3461.75	3485.75	1440	60	Rainy
11-Feb-03	2.8155	2.9165	1.11	1.11	3488.75	3512.75	1440	63	Fine
17-Feb-03	2.8052	3.0554	1.11	1.11	3515.75	3539.75	1440	157	Fine
23-Feb-03	2.8321	3.0538	1.11	1.11	3542.75	3566.75	1440	139	Fine
27-Feb-03	2.8374	3.0360	1.11	1.11	3569.75	3593.75	1440	124	Sunny
							Min	60	
							Max	157	
							Average	108.6	

Monitoring Station A3 (Village House near Tsun King Road)

Date	Filter Weight (g)		Flow Rate (m ³ /min.)		Elapsed Time		Total Sampling Time (min.)	Conc. (µg/m ³)	Weather Condition
	Initial	Final	Initial	Final	Initial	Final			
5-Feb-03	2.8366	2.9128	1.11	1.11	11976.07	12000.07	1440	48	Rainy
11-Feb-03	2.8334	2.9394	1.11	1.11	12003.07	12027.07	1440	66	Fine
17-Feb-03	2.7819	3.0589	1.11	1.11	12030.07	12054.07	1440	173	Fine
23-Feb-03	2.8182	3.0629	1.11	1.11	12057.07	12081.07	1440	153	Fine
27-Feb-03	2.7611	2.9230	1.11	1.11	12084.07	12108.07	1440	101	Sunny
							Min	48	
							Max	173	
							Average	108.2	

2. Plots for 24-hour Monitoring Results



APPENDIX D:

**1-Hour TSP Impact
Monitoring Results and Plots**

1. 1-hour TSP Monitoring Results

Station A1 (Lok Lo Ha Village House No. 3B)

Date	Time of sampling	Concentration, $\mu\text{g}/\text{m}^3$
2-Feb-04	0950 – 1050	279
2-Feb-04	1110 – 1210	293
5-Feb-04	0800 – 0900	162
6-Feb-04	0950 – 1050	182
6-Feb-04	1110 – 1210	248
11-Feb-04	0800 – 0900	173
12-Feb-04	0932 – 1032	173
12-Feb-04	1300 – 1400	222
17-Feb-04	0800 – 0900	276
18-Feb-04	0950 – 1050	258
18-Feb-04	1100 – 1200	278
23-Feb-04	0800 – 0900	168
24-Feb-04	0950 – 1050	212
24-Feb-04	1100 – 1200	188
27-Feb-04	0800 – 0900	261
	Average	224.9
	Min	162
	Max	293

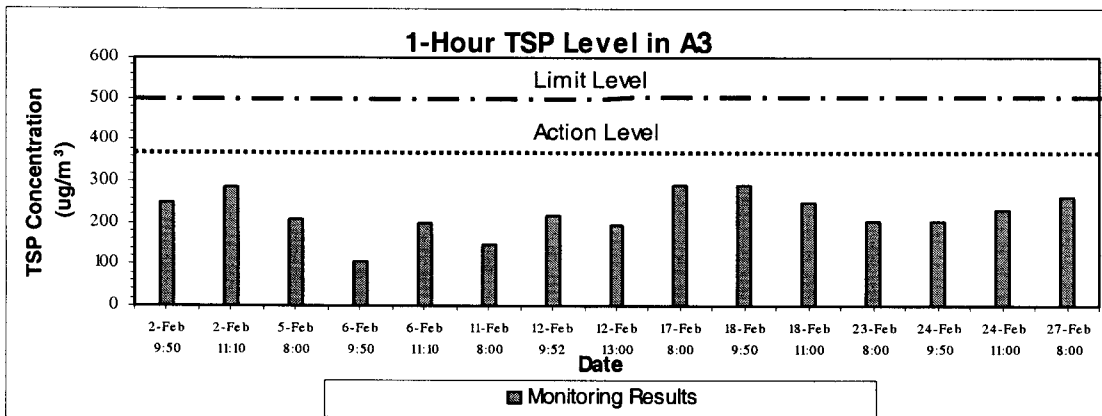
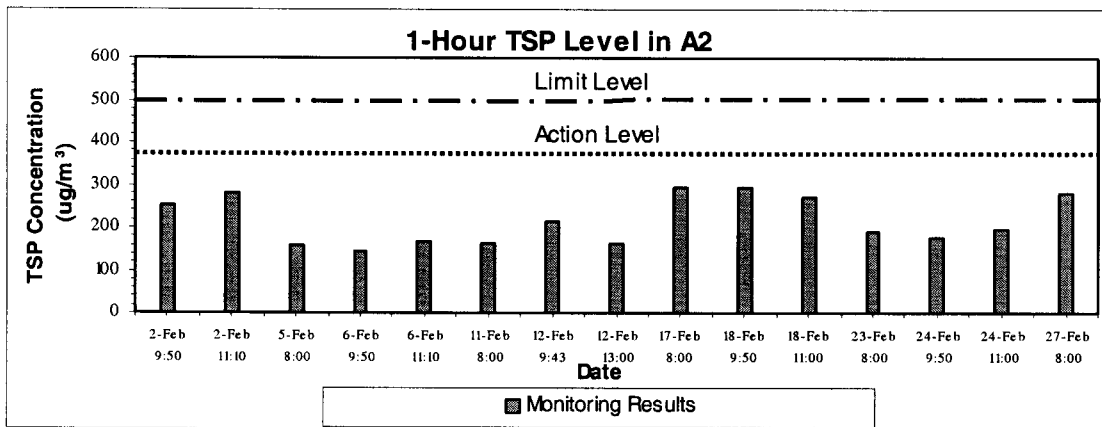
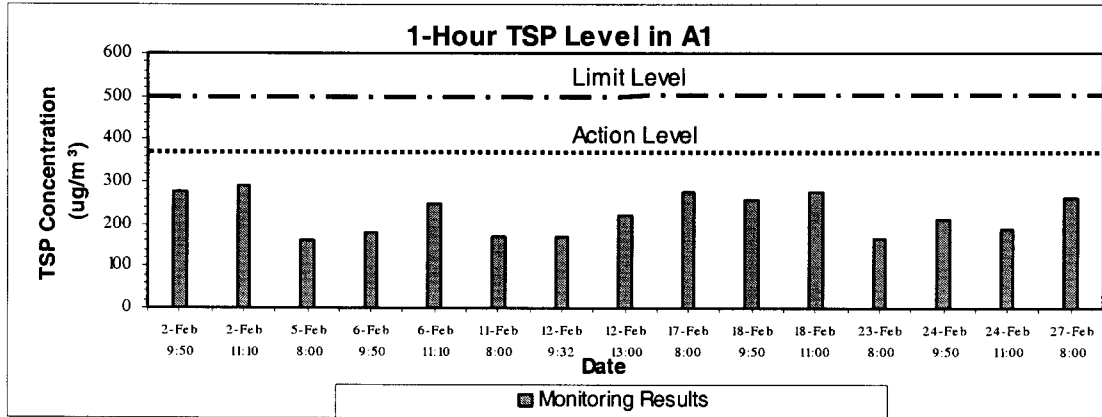
Station A2 (Lok Lo Ha Village House No. 104)

Date	Time of sampling	Concentration, $\mu\text{g}/\text{m}^3$
2-Feb-04	0950 – 1050	252
2-Feb-04	1110 – 1210	278
5-Feb-04	0800 – 0900	159
6-Feb-04	0950 – 1050	146
6-Feb-04	1110 – 1210	168
11-Feb-04	0800 – 0900	162
12-Feb-04	0943 – 1043	216
12-Feb-04	1300 – 1400	165
17-Feb-04	0800 – 0900	294
18-Feb-04	0950 – 1050	291
18-Feb-04	1100 – 1200	269
23-Feb-04	0800 – 0900	192
24-Feb-04	0950 – 1050	177
24-Feb-04	1100 – 1200	194
27-Feb-04	0800 – 0900	279
	Average	216.1
	Min	146
	Max	294

Station A3 (Village House near Tsun King Road)

Date	Time of sampling	Concentration, $\mu\text{g}/\text{m}^3$
2-Feb-04	0950 – 1050	249
2-Feb-04	1110 – 1210	285
5-Feb-04	0800 – 0900	209
6-Feb-04	0950 – 1050	105
6-Feb-04	1110 – 1210	200
11-Feb-04	0800 – 0900	147
12-Feb-04	0952 – 1052	219
12-Feb-04	1300 – 1400	192
17-Feb-04	0800 – 0900	290
18-Feb-04	0950 – 1050	291
18-Feb-04	1100 – 1200	251
23-Feb-04	0800 – 0900	204
24-Feb-04	0950 – 1050	201
24-Feb-04	1100 – 1200	230
27-Feb-04	0800 – 0900	264
	Average	222.5
	Min	105
	Max	291

2. Plots of 1-hour TSP Monitoring Results



APPENDIX E:

**Daytime 07:00 -19:00Hrs
Impact Noise Monitoring
Results and Plots**

1. Noise Monitoring Results

Monitoring Station N1 (Lok Lo Ha Village House No.3B)

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L _{eq}	L ₁₀	L ₉₀
2 -Feb-03	0930 – 1000	64.3	68.8	55.3
6-Feb-03	0930 – 1000	61.3	64.1	56.6
12-Feb-03	0857 – 0927	63.2	65.7	57.5
18-Feb-03	0927 – 0957	59.6	62.0	56.8
24-Feb-03	0902 – 0932	66.9	69.0	61.1

Min	59.6	62.0	55.3
Max	66.9	69.0	61.1

Monitoring Station N2 (Lok Lo Ha Village House No.32A)

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L _{eq}	L ₁₀	L ₉₀
2 -Feb-03	1050 – 1120	64.5	67.8	58.7
6-Feb-03	1050 – 1120	64.8	68.9	60.3
12-Feb-03	1130 – 1200	65.3	67.7	58.5
18-Feb-03	1048 – 1118	64.2	66.5	58.7
24-Feb-03	1022 – 1052	63.3	65.5	58.6

Min	63.3	65.5	58.5
Max	65.3	68.9	60.3

Monitoring Station N3 (Royal Ascot Block 9, Flat C)

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L _{eq}	L ₁₀	L ₉₀
2 -Feb-03	1300 – 1330	56.5	60.0	52.9
6-Feb-03	1300 – 1330	59.9	62.6	52.9
12-Feb-03	1300 – 1330	56.2	57.7	53.9
18-Feb-03	1300 – 1330	56.7	58.4	53.9
24-Feb-03	1119 – 1149	56.2	58.0	51.6

Min	56.2	57.7	51.6
Max	59.9	62.6	53.9

Monitoring Station N4 (Lok Lo Ha Village House No.97)

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L _{eq}	L ₁₀	L ₉₀
2 -Feb-03	1125 – 1155	65.6	66.9	59.7
6-Feb-03	1125 – 1155	61.5	64.6	54.6
12-Feb-03	1053 – 1123	59.6	60.8	56.7
18-Feb-03	1012 – 1142	59.9	62.9	57.3
24-Feb-03	0947 – 1017	59.5	61.6	56.8

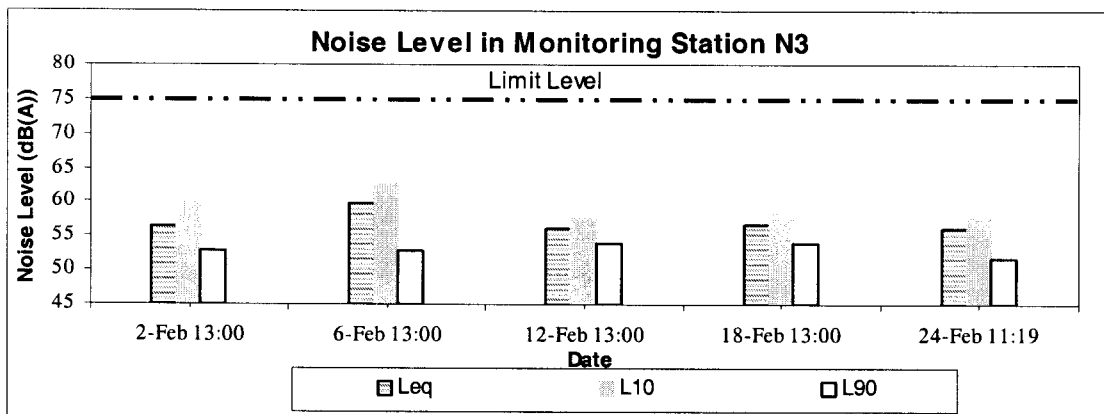
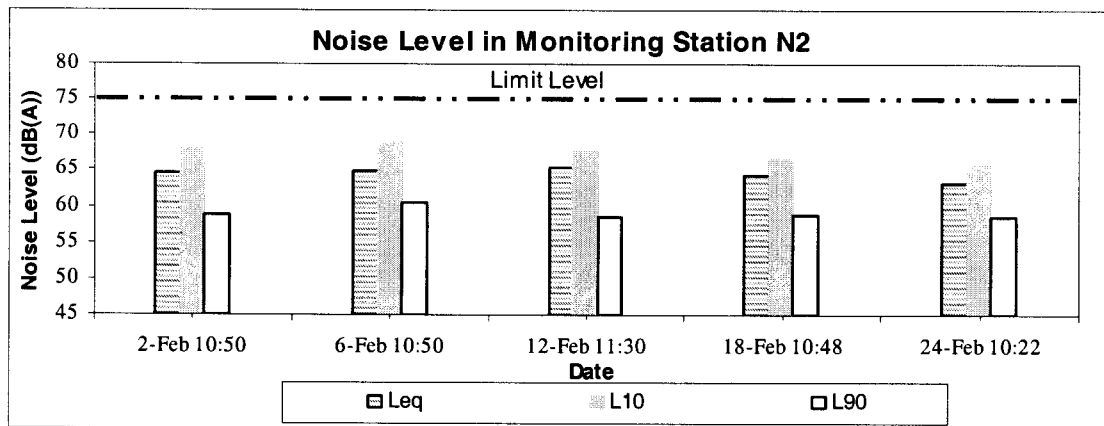
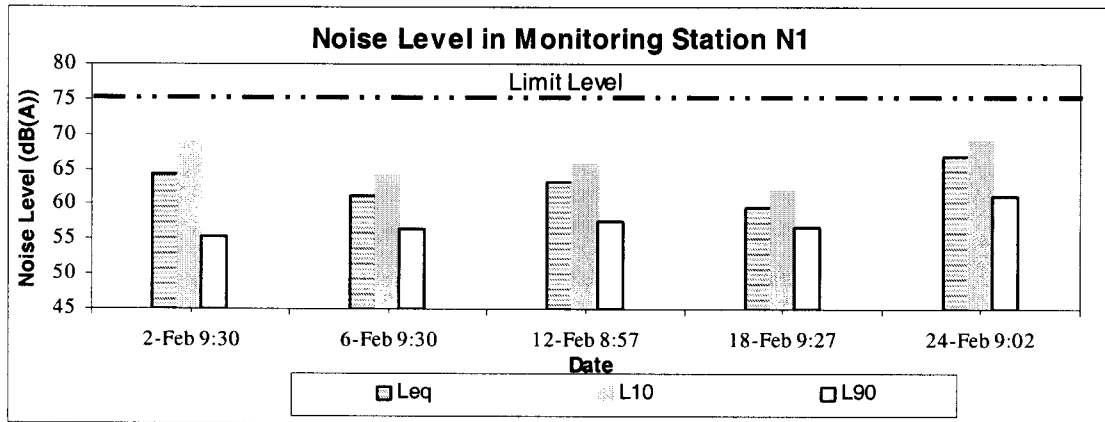
Min	59.5	60.8	54.6
Max	65.6	66.9	59.7

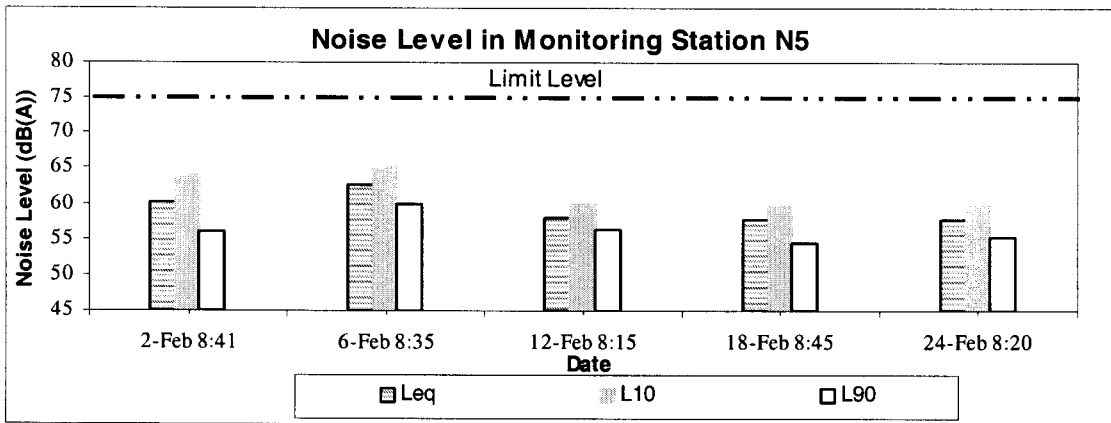
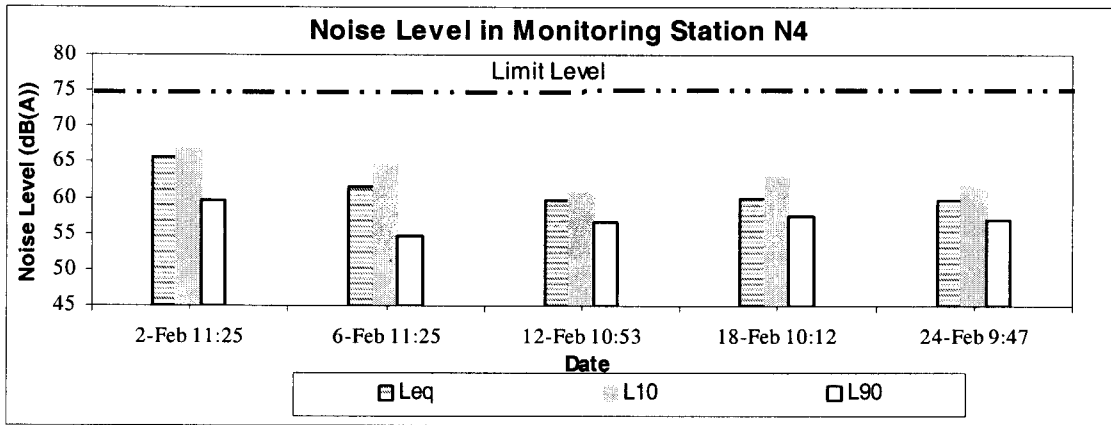
Monitoring Station N5 (Village House near Royal Ascot)

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L _{eq}	L ₁₀	L ₉₀
2 -Feb-03	0841 – 0911	60.2	63.9	56.0
6-Feb-03	0835 – 0905	62.7	65.0	60.0
12-Feb-03	0815 – 0845	58.0	59.8	56.3
18-Feb-03	0845 – 0915	57.6	59.6	54.5
24-Feb-03	0820 – 0850	57.8	59.5	55.3

Min	57.6	59.5	54.5
Max	62.7	65.0	60.0

2. Plots of Noise Monitoring Results





APPENDIX F:

**Weather Conditions During
Monitoring Periods**

**Weather Condition during Monitoring Period
(From 1 to 29 February 2004)**

Date	Weather	Mean Air Temperature (°C)	Wind Speed (m/s)	Mean Relative Humidity (%)
2-Feb-03	Fine	19.7	1.0	87
5-Feb-03	Rainy	9.5	1.0	90
6-Feb-03	Cloudy	12.1	1.0	74
11-Feb-03	Fine	15.8	1.0	70
12-Feb-03	Sunny	17.8	0.0 – 0.5	74
17-Feb-03	Fine	20.0	0.0	75
18-Feb-03	Cloudy / Fine	19.0	0.0 – 0.5	85
23-Feb-03	Fine	19.4	0.5	72
24-Feb-03	Cloudy	18.4	0.5 – 0.9	79
27-Feb-03	Fine	19.9	0.5	75

APPENDIX G:

**Event and Action Plan for Air
Quality and Noise**

Event / Action Plan for Air Quality

EVENT	ACTION		
	ET	Engineer	CONTRACTOR
ACTION LEVEL			
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source; 2. Inform the Engineer and Contractor; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Notify Contractor; and 2. Check monitoring data and Contractor's working methods. 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice, if any; and 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform the Engineer and Contractor; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily. 5. Discuss with Engineer for remedial actions required; 6. If exceedance continues, arrange meeting with the engineer; and 7. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Check monitoring data and Contractor's working methods; 4. Discuss with ET and Contractor on potential remedial actions; and 5. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for mitigation measures to the Engineer within 3 working days of notification; 2. Implement the agreed proposals; and 3. Amend proposal if appropriate.
LIMIT LEVEL			
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source; 2. Inform the Engineer and Contractor; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep EPD and the Engineer informed of results. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Check monitoring data and Contractor's working methods; 4. Discuss with ET and Contractor on potential remedial actions; and 5. Ensure remedial action properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to the Engineer within 3 working days of notification; 3. Implement the agreed proposals; and 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform the Engineer and Contractor; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily. 5. Investigate the causes of exceedance; 6. Arrange meeting with EPD and the Engineer to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep EPD and the Engineer informed of the results; and 8. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 4. Discuss among ET and Contractor on potential remedial actions; 5. Review Contractor's remedial action whenever necessary to assure their effectiveness; and 6. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to the Engineer within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the Engineer until the exceedance is abated.

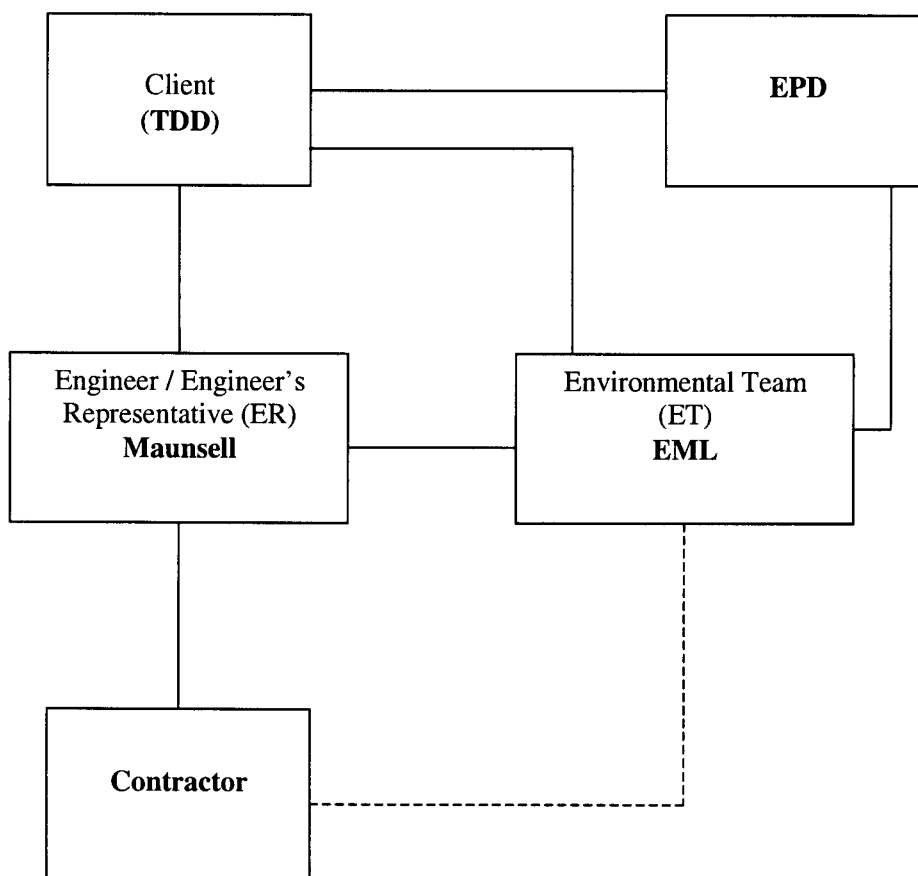
Event / Action Plan for Construction Noise

EVENT	ACTION	
	ET	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify the Engineer and Contractor; 2. Analyze investigation; 3. Require Contractor to propose measures for the analyzed noise problem; and 4. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to Environmental Team and the Engineer; and 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Notify the Engineer and Contractor; 2. Notify EPD; and 3. Require Contractor to implement mitigation measures; and increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Implement mitigation measures; and 2. Prove to Environmental Team and the Engineer effectiveness of measures applied.

APPENDIX H:

**Project Organisation and
Contacts of Key Personnel**

Figure H.1: Project Management Structure



Contacts of Key Personnel:

Organisation	Nature of Duty	Contact Personnel	Contact Number	
			Telephone	Fax
Territory Development Department (TDD)	Client	Mr. Stephen Wong	2301-1376	2721-8630
Maunsell Consultants Asia Ltd. (MCAL)	Engineer	Mr. Alan Kwong	2602-3433	2691-2649
Environmental Management Ltd. (EML)	Environmental Team	Mr. W. K. Ng	2839-2800	2890-6901

APPENDIX I:

**Summary Records of
Complaints Received**

Complaint No.	Received date & Time	Description (inc. location/ nature of complaint)	Follow-up Action Taken	Recommended Measures	Status/ Remarks
C02-N1	Morning, 29/7/2002	<p>Around 9:30am on 29/7/02, police came on site to investigate a complaint of noise pollution emitted during rock breaking which carried out by the Contractor near the Site Office (near the box culvert and north Lok Shun Path Roundabout). The Contractor immediately halted the activity in response to police's advice</p> <ul style="list-style-type: none"> Nearby residents complained to police that a generator in Road D15 Site was operating in night-time near Lok Lo Ha Village. Police came to the site to investigate the complaint and inform watchmen to turn off the operating generator at around 8:30pm. The complaint was valid as it concerned with construction noise during the restricted hours. 	<ul style="list-style-type: none"> Ad hoc site inspection was carried out on 31/7/02, jointly with the Engineer and Contractor The complaint log sheet, the investigation findings and recommendations on mitigation measures were submitted to the Engineer and Contractor. A letter, addressing to the complainant, had been sent to the police. 	<p>Mitigation actions:</p> <ul style="list-style-type: none"> Excavator-mounted breaker shall not be carried out within 125m from any nearby noise sensitive receivers and; Temporary purposed built barrier should be installed whenever there are high noise level construction activities. 	<p>The complaint was considered as ad hoc rather than continuous. It was therefore considered not necessary to increase the noise monitoring frequency</p> <p>File Closed.</p>
C02-N2	Night-time, 7 February, 2002	<ul style="list-style-type: none"> Nearby residents complained to police that a generator in Road D15 Site was operating in night-time near Lok Lo Ha Village. Police came to the site to investigate the complaint and inform watchmen to turn off the operating generator at around 8:30pm. The complaint was valid as it concerned with construction noise during the restricted hours. 	<ul style="list-style-type: none"> Ad hoc site inspection was carried out on 8 February 02, jointly with the Engineer and Contractor and ET. The complaint log sheet, the investigation findings and recommendations on mitigation measures were submitted to the Engineer and Contractor. A letter in both English and Chinese, addressing to the complainant, had been sent to the police. 	<p>Mitigation actions:</p> <ul style="list-style-type: none"> Under the Noise Control Ordinance, the carrying out of general construction work using powered mechanical equipment (including generators) during the restricted hours (between 7 p.m. and 7 a.m. or at any time on a general holiday (including Sunday) is prohibited unless a valid Construction Noise Permit is in force; A watchmen or site staff should be employed to check daily that all generators and plats are switched off after the permissible working hours. 	<p>File Closed.</p>

APPENDIX J:

**Updated Construction
Program**

MASTER PROGRAMME (ST7701/MP/13B)

Sha Tin New Town Stage II Contract No. ST7701, Road D15 Linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration	Start	Oct	Nov	Dec	Jan	Feb
0	Road D15 Acceleration Programme	1077 days	Wed 12/12/01					
1	1.0 Original Contract Period	1187 days	Wed 12/12/01					
2	1.1 Works in Section I (345 days)	345 days	Wed 12/12/01					
3	1.2 Works in Section IA (475 Days)	475 days	Wed 12/12/01					
4	1.3 Works in Section II (822 days)	822 days	Wed 12/12/01					
5	1.4 Landscape Work in Section III (1187 Days)	1187 days	Wed 12/12/01					
6	2.0 Anticipated Dates	988 days	Fri 22/11/02					
7	2.1 Anticipated EOT for Section I	249.5 days	Fri 23/11/02					
8	2.2 Anticipated Completion Date for Section IA	0 days	Mon 31/07/03					
9	2.3 Anticipated Completion Date for Section II	141 days	Sat 13/07/04					
10	2.4 Anticipated Completion Date for Section III	365 days	Sun 01/08/04					
11	3 Preliminary & Site Establishment	626 days	Wed 12/12/01					
29	4 Earthworks	445 days	Thu 13/06/02					
35	5 Embankment Works (Section I & 1A)	455 days	Tue 15/01/02					
45	6 Bridge A & B General	761 days	Wed 12/12/01					
46	6.1 Design Submission of Alternative Design (1 Beam)	189 days	Wed 12/12/01					
47	6.2 Procurement, manufacturing and testing of bridge beams	63.2 days	Tue 14/05/02					
48	6.3 Engineer's Approval of Off Site Casting Yard	180 days	Mon 04/02/02					
49	6.4 Fabrication of precast beams	150 days	Wed 13/11/02					
50	6.5 Fabrication PC panel permanent formwork	200 days	Fri 24/01/03					
51	6.6 Ground Investigation	62 days	Fri 17/05/02					
52	6.7 Piling Works at A1 to A5	76 days	Fri 10/05/02					
58	6.8 Pile Caps Construction A1 to A5	389 days	Sat 19/10/02					
59	6.8.1 A1 Pile Cap	50 days	Thu 13/01/03					
60	6.8.2 A2 Pile Cap	24 days	Thu 12/12/02					
61	6.8.3 A3 Pile Cap	22 days	Sat 19/10/02					
62	6.8.4 A4 Pile Cap	24 days	Fri 25/10/02					
63	6.8.5 A5 Pile Cap	247 days	Mon 17/03/03					
64	6.8.5.1 A5 Pile Cap (1st Pontoon)	110 days	Mon 17/03/03					
65	6.8.5.2 A5 Pile Cap (2nd Pontoon)	22 days	Tue 16/12/02					
66	6.9 Abutment Wall A1 to A5	359 days	Fri 20/11/02					
67	6.9.1 A1 Abutment Wall	162 days	Mon 14/04/03					
68	6.9.1.2 A1 (1st pontoon to allow site access to C2)	30 days	Mon 14/04/03					
69	6.9.1.2 A1 (Upper Pontoon)	55 days	Mon 25/08/03					
70	6.9.2 A2 Pier & Cross Head	197 days	Wed 26/01/03					
71	6.9.2.1 Pier only To allow access to C2	22 days	Wed 26/01/03					
72	6.9.2.2 A2 Crosshead	29 days	Mon 25/08/03					
73	6.9.3 A3 Pier & Cross Head	30 days	Fri 20/11/02					
74	6.9.4 A4 Pier & Cross Head	12 days	Thu 02/01/03					
75	6.9.5 A5 Abutment Wall	148 days	Mon 18/03/03					
76	6.9.5.1 A5 Abutment wall (Pontoon 1 to allow site access)	50 days	Mon 18/03/03					
77	6.9.5.2 A5 Abutment wall (Pontoon 2)	25 days	Wed 14/01/04					
78	6.10 Install bridge bearings A1 to A5	328 days	Thu 23/01/03					
79	6.10.1 A1 - A2 Bridge Bearings	6 days	Wed 05/11/03					
80	6.10.2 A2 - A3 Bridge Bearings	6 days	Wed 05/11/03					
81	6.10.3 A3 - A4 Bridge Bearings	6 days	Thu 24/01/03					
82	6.10.4 A4 - A5 Bridge Bearings	6 days	Fri 30/01/04					
83	6.11 Install Precast Beams A1 to A5	349 days	Fri 14/02/03					
84	6.11.1 A1 to A2 PC Beams	6 days	Thu 30/11/03					

Date: 18/10/2003

Task Progress:

Task Progress Summary:

Milestone Summary:

Roll Up Milestone:

Roll Up Critical Task:

Roll Up Progress:

External Tasks:

Split:

Project Summary:

Page 1

MASTER PROGRAMME (ST7701/MP/13B)
Sha Tin New Town Stage II Contract No. ST7701, Road D15, Linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration	Start	2004	2004	2004	2004	2004	2004	2004
85	6.11.2 A1 to A1 PC Beams	3 days	Tue 13/02/04							
86	6.11.3 A3 to A4 PC Beams	3 days	Fri 14/02/04							
87	6.11.4 A4 to A5 PC Beams (Storage on Span A3 to A4)	6 days	Mon 29/02/04							
88	6.11.4 A4 to A5 PC Beams	6 days	Tue 02/03/04							
89	6.12 Bridge Deck Construction A1 to A5	375 days	Mon 24/02/04							
90	6.12.1 A1 to A2 Bridge Deck	50 days	Fri 27/1/03							
91	6.12.2 A3 to A3 Bridge Deck	32 days	Fri 16/03/04							
92	6.12.3 A3 to A4 Bridge Deck	95 days	Mon 24/02/04							
93	6.12.4 A4 to A5 Bridge Deck	50 days	Wed 10/03/04							
94	6.13 Bridge Deck Drainage	104 days	Fri 20/02/04							
95	6.13.1 A1 to A2 Drainage Pipe, MH cover & Gully	18 days	Fri 20/02/04							
96	6.13.2 A3 to A3 Drainage Pipe, MH cover & Gully	18 days	Fri 14/03/04							
97	6.13.3 A3 to A4 Drainage Pipe, MH cover & Gully	18 days	Wed 03/03/04							
98	6.13.4 A4 to A5 Drainage Pipe, MH cover & Gully	18 days	Thu 09/03/04							
99	6.14 Bridge deck parapet & curb	240 days	Mon 15/02/03							
100	6.14.1 A1 to A2 Parapet & Curb	30 days	Fri 06/02/04							
101	6.14.2 A2 to A3 Parapet & Curb	27 days	Tue 01/06/04							
102	6.14.3 A3 to A4 Parapet & Curb	60 days	Mon 15/09/03							
103	6.14.4 A4 to A5 Parapet & Curb	30 days	Wed 19/05/04							
104	7 Bridge B	527 days	Wed 11/09/02							
105	7.1 Ground Investigation	16 days	Wed 11/09/02							
106	7.2 Pre Bore H-Piles	230 days	Fri 13/12/02							
107	7.2.1 B1 H Piles	29 days	Fri 19/12/02							
108	7.2.2 B2 H Piles	27 days	Mon 11/03/03							
109	7.2.3 Loading test on Pile	12 days	Tue 09/09/03							
110	7.3 Pile Cap & Abutment Wall B1 & B2	51 days	Wed 24/09/03							
111	7.3.1 Temp. works for B1 Pile Cap	35 days	Wed 24/09/03							
112	7.3.2 Construct B1 Pile Cap	16 days	Wed 05/11/03							
113	7.3.3 B1 Abutment	19 days	Mon 24/11/03							
115	Remove temp work and backfilling at B1 Abutment	10 days	Tue 16/12/03							
116	7.3.4 Temp. works for B2 Pile Cap	94 days	Wed 15/10/03							
119	7.4 Install Bridge Bearings	8 days	Fri 06/02/04							
169	7.4.1 B1 Bridge Bearings	6 days	Fri 06/02/04							
170	7.4.2 B2 Bridge Bearings	6 days	Mon 09/02/04							
171	7.5 Install Precast Beams B1 to B2	6 days	Wed 18/02/04							
172	7.6 Bridge Deck Construction B1 to B2	50 days	Wed 25/02/04							
173	7.7 Bridge deck Drainage B1 to B2	25 days	Wed 25/02/04							
174	7.8 Bridge Deck Parapet & Curb B1 to B2	20 days	Sat 20/02/04							
175	7.9 Remove Temp Platform(Underneath Bridge Deck)	30 days	Wed 25/02/04							
176	7.10 Reinstatue Eng Valley	60 days	Sat 27/02/04							
177	8 Bridge C	382 days	Thu 01/06/02							
178	8.1 Ground Investigation	62 days	Thu 01/06/02							
179	8.2 Pre Bore H-Piles	234 days	Mon 18/11/02							
180	8.2.1 C1 H Piles	35 days	Fri 11/07/03							
181	8.2.2 C2 H Piles	52 days	Mon 18/11/02							
182	8.3 Pile Cap & Abutment Wall C1 & C2	260 days	Tue 25/02/03							
183	8.3.1 Temp. works and Construct C1 Pile Cap	39 days	Mon 20/09/03							

Date: 18/10/2003

Task: Critical Task Milestone Summary

Task Progress: Critical Task Progress Milestone Progress Summary Progress

Task: Rollover Task Rollover Critical Task Rollover Milestone Rollover Summary

Task: Split External Tasks

Project Summary:

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Sha Tin New Town Stage II Contract No. ST77/01, Road D15 Linking Lok Shun Path and Tai Po Road

MASTER PROGRAMME (ST77/01/MP/13B)

ID	Task Name	Duration	Start	End	Notes
205	8.3.2 C1 Abutment Wall	25 days	Fri 14/10/03		
212	Remove temp work and backfilling at Abutment C1	30 days	Sat 13/11/03		
213	8.3.3 C2 Pile Cap & Pier	50 days	Tue 25/02/03		
214	8.4 Install Bridge Bearings	415.8 days	Fri 02/04/03		
215	8.4.1 C1 Bridge Bearings	6 days	Sat 13/11/03		
216	8.4.2 C2 Bridge Bearings	6 days	Sat 03/05/03		
217	8.4.3 C3 Bridge Bearings	234.8 days	Fri 02/04/03		
218	8.5 Install Precast Beams C1 to C2	151 days	Fri 20/05/03		
219	8.5.1 C1 to C2 PC Beams	3 days	Sat 30/11/03		
220	8.5.2 C2 to C3 PC Beams	3 days	Thu 22/05/03		
221	8.6 Bridge Deck Construction C1 to C3	275 days	Mon 24/05/03		
222	8.6.1 C1 to C2 Bridge Deck (1st portion)	32 days	Wed 24/12/03		
229	8.6.2 C1 to C2 Bridge Deck (2nd portion)	65 days	Fri 06/02/04		
238	8.6.3 C2 to C3 Bridge Deck (1st portion)	66 days	Mon 20/05/03		
239	8.6.3 C2 to C3 Bridge Deck (2nd portion)	40 days	Wed 13/06/03		
240	8.7 Bridge deck Drainage C1 to C3	38 days	Fri 06/02/04		
241	8.7.1 C1 to C2 Drainage Pipe, MH cover & Gully	18 days	Fri 06/02/04		
242	8.7.2 C2 to C3 Drainage Pipe, MH cover & Gully	18 days	Fri 27/02/04		
243	8.8 Bridge Deck Parapet & Curb C1 to C3	193 days	Tue 30/05/03		
244	8.8.1 C1 to C2 Parapet & Curb	24 days	Tue 27/04/04		
245	8.8.2 C2 to C3 Parapet & Curb	24 days	Tue 30/05/03		
246	8.9 Road works, Pavement & Cycle Track	13 days	Wed 30/06/04		
247	9 Road works, Pavement & Cycle Track	107 days	Sat 20/03/04		
248	9.1 Drainage to on Grade Road	40 days	Sat 20/03/04		
249	9.2 Utilities at on Grade Road	40 days	Fri 02/04/04		
250	9.3 Carriageway Flexible Pavement	49 days	Mon 20/05/04		
251	9.3.1 Sub base & DBM Course	30 days	Mon 24/05/04		
252	9.3.2 Bituminous Base Course	30 days	Sat 05/06/04		
253	9.3.3 Wearing Course to On grade road	20 days	Sat 12/06/04		
254	9.3.4 Base Course & Wearing Course to Bridges A, B & C	6 days	Fri 16/07/04		
255	9.4 Road Marking & road furniture	3 days	Fri 13/07/04		
256	9.5 Foot path	30 days	Mon 07/06/04		
257	9.6 Cycle Track	60 days	Fri 02/04/04		
258	9.7 Light Poles	40 days	Wed 02/06/04		
259	9.8 Road Work Finishings	21 days	Thu 08/07/04		
260	10 Retaining Walls	755 days	Wed 12/12/01		
261	10.1 RW1	173 days	Fri 01/06/03		
262	10.1 Temp diversion of 150mm dia water main	30 days	Fri 01/06/03		
263	10.1.1 RW1 Bay 1	48 days	Sat 27/09/03		
274	10.1.2 RW1 Bay 2	36 days	Wed 26/11/03		
285	10.1.3 RW1 Bay 3	21 days	Tue 10/11/03		
286	10.1.4 RW1 Bay 4	35 days	Fri 07/11/03		
308	10.1.5 RW1 Bay 5	50 days	Sat 27/12/03		
309	10.1.6 RW1 Bay 6	19 days	Thu 05/02/04		
320	10.2 RW2	174 days	Fri 22/04/03		
321	10.2.1 RW2 Bay 1	60 days	Wed 10/09/03		
333	10.2.2 RW2 Bay 2	25 days	Wed 26/11/03		
344	10.2.3 RW2 Bay 3	17 days	Tue 10/11/03		
355	10.2.4 RW2 Bay 4	23 days	Thu 20/11/03		
366	10.2.5 RW2 Bay 5	20 days	Fri 22/04/03		

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Task Progress: Critical Task Progress: Milestone Summary: Rolled Up Task: Rolled Up Milestone: External Tasks: Project Summary:

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MASTER PROGRAMME (ST77/01/MP/13B)

Sha Tin New Town Stage II Contract No. ST77/01, Road D15 Linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration	Start	Oct	Nov	Dec	Jan	Feb
367	10.2.6 RW2 Bay 6	149 days	Mon 22/09/03					
378	10.2.7 RW2 Bay 7	121 days	Sat 25/10/03					
390	10.3 RW3	244 days	Mon 16/12/02					
397	10.4 RW4	127 days	Wed 15/01/03					
401	10.5 RW5	115 days	Fri 01/08/03					
402	10.6 RW6	48 days	Sat 13/11/03					
403	10.6.1 Install temporary work	3 days	Sat 13/11/03					
404	10.6.2 Excavation to -16.5	5 days	Wed 17/11/03					
405	10.6.3 Bay 1	24 days	Tue 23/11/03					
406	10.6.4 Bay 2	24 days	Mon 09/12/03					
407	10.6.5 Backfill to -12	6 days	Thu 05/01/04					
408	10.6.6 Remove temporary work	2 days	Thu 12/01/04					
409	10.7 RW7	528 days	Mon 16/09/02					
410	10.7.1 Pre-drill holes (2 nos)	47 days	Tue 22/04/03					
411	10.7.2 Forming working platform	24 days	Mon 05/09/03					
412	10.7.3 Install bored pile (21 nos)	507 days	Tue 15/10/02					
413	10.7.3.0 Completed Bore Piles	183 days	Tue 15/10/02					
414	10.7.3.1 B4 Bore Pile	6 days	Mon 14/01/03					
415	10.7.3.2 B10,B11,B13,B14	61 days	Mon 31/03/03					
416	10.7.4 Bore Pile Sonic Test	14 days	Mon 18/05/03					
417	10.7.5 Bore Pile Coc Test	28 days	Wed 03/06/03					
418	10.7.5 Continued Inspection/concrete decorative wall	30 days	Sat 14/01/04					
419	10.7.6 Continued extension section above bored pile	56 days	Sat 30/01/04					
420	10.7.7 Continued Capping Beam	24 days	Tue 01/06/04					
421	10.8 RW8	295 days	Tue 05/10/02					
427	10.9 RW11	222 days	Wed 12/01/03					
430	10.10 RW12	220 days	Mon 21/07/03					
431	Temp. diversion of 150mm dia water main	107 days	Fri 01/08/03					
432	10.10.1 RW12 Bay 1	30 days	Wed 12/01/03					
433	10.10.2 RW12 Bay 2	20 days	Wed 24/01/03					
434	10.10.3 RW12 Bay 3	35 days	Mon 21/07/03					
435	10.10.4 Drainage works in vicinity of pier C2 of Bridge C	25 days	Tue 10/01/04					
436	10.10.5 Water works in vicinity of RW 12	30 days	Wed 24/01/03					
437	10.10.6 Laying new utilities	30 days	Wed 14/01/04					
438	10.10.7 Drainage & Roadworks	28 days	Wed 09/01/04					
439	11.0 Noise Barriers Preliminary	777 days	Wed 12/01/01					
440	11.1 Temporary Work Submission & Approval	300 days	Mon 02/09/02					
441	11.2 Noise Barrier Structures	480 days	Fri 11/01/02					
442	11.2.1 Noise Barrier No. 1	419 days	Fri 11/01/02					
443	11.2.1.1 Site investigation	30 days	Fri 11/01/02					
444	11.2.1.2 Traffic Diversion at Lok Shun Path	1 day	Wed 21/05/03					
445	11.2.1.3 Demolish Existing Retaining Wall Footings	60 days	Mon 17/03/03					
446	11.2.1.4 Temporary earth platform for Bore Pile Equipment	6 days	Thu 22/09/03					
447	11.2.1.5 Bore Pile SPI to SP4	35 days	Mon 19/05/03					
448	11.2.1.6 Bore Pile Coring Test (4nos)	10 days	Thu 11/08/03					
449	11.2.1.8 RW Panel 1	60 days	Wed 26/11/03					
457	11.2.1.9 RW Panel 2	80 days	Sat 28/11/03					
469	11.2.1.10 RW Panel 3	34 days	Fri 28/11/03					
484	11.2.1.11 RW Panel 4	65 days	Thu 09/01/04					
500	11.2.1.12 RW Panel 5	48 days	Sat 27/09/03					

Date: 18/10/2003

Task Progress: Critical Task Progress: Milestone Summary: Rolled Up Milestone: Rolled Up Progress: Split: External Tasks:

Project Summary:

MASTER PROGRAMME (ST7701/MP/13B)
Sha Tin New Town Stage II Contract No. ST7701, Road D15 Linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration	Start	End	Notes	Dependencies
515	11.2.1.13 RW Panel 6	49 days	Mon 27/10/03	Mon 27/10/03		
530	11.2.1.14 RW Panel 7	46 days	Thu 27/11/03	Thu 27/11/03		
545	11.2.2 Additional Bore Piles	69 days	Thu 10/07/03	Thu 10/07/03		
546	11.2.2.1 Mobilisation of RCD	9 days	Thu 10/07/03	Thu 10/07/03		
547	11.2.2.1 ABP1	11 days	Mon 21/07/03	Mon 21/07/03		
559	11.2.2.2 ABP2	16.5 days	Sat 02/08/03	Sat 02/08/03		
571	11.2.3 Bore Piles Tests	12 days	Tue 16/09/03	Tue 16/09/03		
572	11.2.3.1 Sonic Test	1 day	Tue 16/09/03	Tue 16/09/03		
573	11.2.3.2 Core Test (2bbs)	7 days	Fri 19/09/03	Fri 19/09/03		
574	11.2.3.3 Grouting Some Tubes and core holes	2 days	Sat 27/09/03	Sat 27/09/03		
575	11.2.3 Noise Barrier No. 4B	120 days	Thu 02/07/04	Thu 02/07/04		
581	11.2.3 Concrete Footing for Noise Barrier 4C	45 days	Mon 05/10/03	Mon 05/10/03		
582	11.2.4 Noise Barrier No. 5	69 days	Mon 05/10/03	Mon 05/10/03		
583	11.2.4.1 Excavation	12 days	Mon 05/10/03	Mon 05/10/03		
584	11.2.4.2 Concrete Footing and Walls	45 days	Mon 30/10/03	Mon 30/10/03		
585	11.2.4.3 Backfill to Foundation of Noise Barrier No 5	12 days	Thu 11/11/03	Thu 11/11/03		
586	11.3 Noise Barrier Steel Post & Panels	777 days	Wed 12/12/01	Wed 12/12/01		
587	11.3.1 Procurement and Fabrication of Noise barrier	150 days	Wed 12/12/01	Wed 12/12/01		
588	11.4.1 Design, Submission for approval	250 days	Wed 19/06/03	Wed 19/06/03		
589	11.4.2 Fabrication and Delivery	200 days	Thu 17/07/03	Thu 17/07/03		
590	11.4.3 Noise Barrier Installation	112 days	Tue 09/09/04	Tue 09/09/04		
591	11.4.3.1 Noise Barrier No.1	60 days	Tue 09/09/04	Tue 09/09/04		
592	11.4.3.2 Noise Barrier No.2	40 days	Fri 30/09/04	Fri 30/09/04		
593	11.4.3.3 Noise Barrier No.3	40 days	Mon 07/10/04	Mon 07/10/04		
594	11.4.3.4 Noise Barrier No.4A	18 days	Wed 23/09/04	Wed 23/09/04		
595	11.4.3.5 Noise Barrier No.4B	30 days	Mon 07/10/04	Mon 07/10/04		
596	11.4.3.6 Noise Barrier No.4B at Bridge A..A2 to A3	10 days	Thu 08/07/04	Thu 08/07/04		
597	11.4.3.6 Noise Barrier No.4C	30 days	Mon 03/09/04	Mon 03/09/04		
598	11.4.3.7 Noise Barrier No.5	40 days	Tue 09/09/04	Tue 09/09/04		
599	12 Box Culvert Extension	474 days	Thu 27/06/02	Thu 27/06/02		
600	12.1 Remove existing inlet, water diversion	155 days	Thu 27/06/02	Thu 27/06/02		
601	12.2 Box culvert	156 days	Sat 19/10/02	Sat 19/10/02		
602	12.3 Flood Wall	29 days	Mon 21/10/02	Mon 21/10/02		
603	12.4 Construct 1400 box culvert (5 bays)	166 days	Thu 24/04/03	Thu 24/04/03		
604	12.5 Construct 1500 pipe	228 days	Thu 24/04/03	Thu 24/04/03		
605	12.5.1 Construct 1500 pipe CH 0 to CH 30 MILLA64 to MH31	100 days	Thu 24/04/03	Thu 24/04/03		
606	12.5.2 Construct 1500 pipe CH 30 to CH 60	44 days	Sat 11/10/03	Sat 11/10/03		
607	12.5.3 Construct 1500 pipe CH 60 to CH R2	44 days	Tue 02/12/03	Tue 02/12/03		
608	12.6 Construct CP15 (D-lets)	0 days	Fri 21/03/03	Fri 21/03/03		
609	12.7 Construct M/R1	60 days	Sat 13/03/03	Sat 13/03/03		
610	12.8 Construct 1400 Box Culvert Extension (bay A, B & manhole)	90 days	Mon 02/09/03	Mon 02/09/03		
611						
612	13.0 Underground Drainage & Utilities	458 days	Wed 15/01/03	Wed 15/01/03		
613	13.1 Drainage & Roadworks at Lok Ho roundabout	458 days	Wed 15/01/03	Wed 15/01/03		
614	13.1.1 Drainage & roadworks at stage 2 & 2A of TTM	263 days	Wed 15/01/03	Wed 15/01/03		
615	13.1.2 Drainage and roadworks at stage 3b of TTM	95 days	Tue 02/12/03	Tue 02/12/03		
616	13.1.3 Drainage and roadworks at stage 4 of TTM (Deleted)	0 days	Mon 29/03/04	Mon 29/03/04		
617	13.1.3 Drainage and roadworks at stage 5 of TTM	54 days	Tue 30/03/04	Tue 30/03/04		
618	13.1.4 Drainage and roadworks at stage 6 of TTM	46 days	Mon 07/04/04	Mon 07/04/04		
619	13.2 New Utilities and Drainage Near Noise Barrier NO 1	50 days	Tue 27/01/04	Tue 27/01/04		

MASTER PROGRAMME (S177/01/MP/13B)

Sha Tin New Town Stage II Contract No. S177/01 - Road D1/S Linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration	Start	End	Notes
620	13.2.1 Construct MH124 pipe 225 dia and MH110 at stage 2b T	19 days	Tue 27/01/04	Dec	13.2.1 Construct MH124 pipe 225 dia and MH110 at stage 2b TTM
621	13.2.2 Construct MH 12.4 2nd porting pipe 450 dia at stage 2	19 days	Tue 27/01/04	Dec	13.2.2 Construct MH 12.4 2nd porting pipe 450 dia at stage 2b of TTM
622	13.2.1 PCCW -At Stage 2b TTM Lay cable duct near Noise Ba	7 days	Wed 18/02/04	Jan	13.2.1 PCCW -At Stage 2b TTM Lay cable duct near Noise Barrier No 1 Panel 7 & 4
623	13.2.2 CABLE TV -At Stage 2b TTM Lay cable duct near Nois	7 days	Thu 26/02/04	Jan	13.2.2 CABLE TV -At Stage 2b TTM Lay cable duct near Noise Barrier No 6 & 7
624	13.2.3 CABLE TV -After Completion of Noise Barrier No 1 p	14 days	Tue 09/03/04	Jan	13.2.3 CABLE TV -After Completion of Noise Barrier
625	13.3 Water pipes and associated works	229 days	Sat 16/06/03	Nov	13.3.1 Water Mains for Irrigation system
626	13.3.1 Water Mains for irrigation system	120 days	Fri 14/1/03	Nov	13.3.1 Water Mains for irrigation system
627	13.3.2 Fire Service Pipe & Hydrant	50 days	Mon 22/03/04	Nov	13.3.2 Fire Service Pipe & Hydrant
628	13.3.3 Water Main Diversion (400 Box Culvert)	45 days	Wed 17/1/03	Nov	13.3.3 Water Main Diversion (400 Box Culvert)
629	13.3.4 Along stair 8	25 days	Sat 06/03/03	Nov	13.3.4 Along Stair 8
630	13.4 Telephone Ducts	40 days	Fri 21/1/03	Nov	13.4 Telephone Ducts
631	13.5 Existing Utilities Diversion	175 days	Sat 06/06/03	Nov	13.5.1 RWH, RW2 and 400 Box Culvert
632	13.5.1 RWH, RW2 and 400 Box Culvert	90 days	Wed 17/1/03	Nov	13.5.1 RWH, RW2 and 400 Box Culvert
633	13.5.2 Abutment A1 to RW11	130 days	Sat 06/06/03	Nov	13.5.2 Abutment A1 to RW11
634	13.5.3 RW11 to C2	100 days	Wed 10/09/03	Nov	13.5.3 RW11 to C2
635	13.5.4 A1 Lok King Street	100 days	Wed 03/12/03	Nov	13.5.4 A1 Lok King Street
636	14 Staircases	447 days	Tue 26/01/03	Nov	14.1 Stair 1 (RWS-4C)
637	14.1 Stair 1 (RWS-4C)	12 days	Fri 07/01/03	Nov	14.1 Stair 1 (RWS-4C)
638	14.2 Stair 2 (RWS)	50 days	Sun 29/06/03	Nov	14.2 Stair 2 (RWS)
639	14.3 Stair 3 (RWS)	90 days	Thu 15/05/03	Nov	14.3 Stair 3 (RWS)
640	14.4 Stair 4 (RWH)	117 days	Thu 04/09/03	Nov	14.4 Stair 4 Bay 2
641	14.4.1 Stair 4 Bay 1 (to allow access Bridge C PC beams)	24 days	Thu 04/09/03	Nov	14.4.1 Stair 4 Bay 1 (to allow access Bridge C PC beams)
642	14.4.2 Stair 4 Bay 2	24 days	Wed 24/12/03	Nov	14.4.2 Stair 4 Bay 2
643	14.5 Stair 5 (RWS)	69 days	Fri 05/09/03	Nov	14.5 Stair 5 (RWS)
644	14.6 Stair 6 (Abutment B1)	24 days	Mon 05/07/03	Nov	14.6 Stair 6 (Abutment B1)
645	14.7 Stair 7 (RWS)	24 days	Wed 26/04/04	Nov	14.7 Stair 7 (RWS)
646	14.8 Stair 8 (Level +3)	30 days	Tue 16/09/03	Nov	14.8 Stair 8 (Level +3)
647	14.9 Stair 9 (CH300) (detech)	12 days	Sat 10/01/04	Nov	14.9 Stair 9 (CH300) (detech)
648	14.10 Stair 10 (RW12)	20 days	Tue 10/07/04	Nov	14.10 Stair 10 (RW12)
649	14.11 Stair 11 (Abutment A3)	30 days	Fri 20/02/04	Nov	14.11 Stair 11 (Abutment A3)
650	14.12 Stair 12 (Hours: 102)	24 days	Tue 13/04/04	Nov	14.12 Stair 12 (Hours: 102)
651	14.13 Stair 13 (Slope CH300 - 40)	18 days	Tue 28/01/03	Nov	14.13 Stair 13 (Slope CH300 - 40)
652	15 Standard Refuse Collection Point	45 days	Wed 12/05/04	Nov	15 Standard Refuse Collection Point
653	16 Rain Shelter no.1 & 2	60 days	Mon 01/03/04	Nov	16 Rain Shelter no.1 & 2
654	17 Landscaping	68 days	Tue 13/04/04	Nov	17 Landscaping
655	17.1 Tree Planting	42 days	Thu 07/06/04	Nov	17.1 Tree Planting
656	17.2 Turfing	42 days	Fri 11/05/04	Nov	17.2 Turfing
657	17.3 Tree Planting in the vicinity of RW 12	25 days	Tue 13/04/04	Nov	17.3 Tree Planting in the vicinity of RW 12
658	17.4 Turfing in the vicinity of RW12	15 days	Mon 17/05/04	Nov	17.4 Turfing in the vicinity of RW12
659	17.5 Hard Landscaping	30 days	Tue 13/04/04	Nov	17.5 Hard Landscaping
660	18 Project Completion & Handover	563 days	Wed 12/12/01	Nov	18 Project Completion & Handover
661	18.1 Section I Completion	0 days	Fri 25/07/03	Nov	18.1 Section I Completion
662	18.2 Section IA Completion	0 days	Thu 26/06/03	Nov	18.2 Section IA Completion
663	18.3 Section II Completion	0 days	Sat 31/07/03	Nov	18.3 Section II Completion
664	18.4 Section III Completion	0 days	Wed 12/12/01	Nov	18.4 Section III Completion

Date: 18/10/2003

Task Progress: Critical Task Progress: Milestone Summary: Rolled Up Task: Rolled Up Critical Task: Rolled Up Milestone: Project Summary:

Split: External Tasks:

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