

MONTHLY  
ENVIRONMENTAL MONITORING AND AUDIT REPORT  
FOR  
CONTRACT No. HY/99/15  
IMPROVEMENTS TO EASTERN ISLAND CORRIDOR  
SECTION BETWEEN NORTH POINT INTERCHANGE AND SAI WAN HO  
JULY 2002  
REPORT No.: ET11065

**Commissioned by:**

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**Our Job No.: 2.423**

**Report Date: 07 August 2002**

CONTENTS

	<u>Page</u>
<b>EXECUTIVE SUMMARY.</b>	1-2
<b>1. INTRODUCTION.</b>	
1.1 Background to Project	3
1.2 Report Structure	3
1.3 Management Structure	4
<b>2. PROGRESS.</b>	
2.1 Completed Monitoring Works	4
2.2 Air Quality Monitoring	5
2.3 Noise Monitoring	5
2.4 Site Inspections	5
2.5 Waste Management	5
2.6 Progress of Relevant Works	7
<b>3. RESULTS.</b>	
3.1 Air Quality Monitoring	8
3.2 Noise Monitoring	9
3.3 Meteorological Data	9
<b>4. AUDIT REPORT.</b>	
4.1 Air Quality Monitoring	10
4.2 Noise Monitoring	11
4.3 Site Inspections	11-12
4.4 Waste Management	12
<b>5. EXCEEDANCES TO ACTION AND LIMIT LEVELS.</b>	13
<b>6. REVIEW OF NON-COMPLIANCE TO ACTION AND LIMIT LEVELS INCLUDING FOLLOW-UP PROCEDURES.</b>	13
<b>7. COMPLAINTS INCLUDING REVIEW AND FOLLOW-UP ACTIONS.</b>	13-14
<b>8. WASTE MANAGEMENT.</b>	14
<b>9. SCHEDULED CONSTRUCTION ACTIVITIES FOR THE FOLLOWING MONTH.</b>	14-15
<b>10. SCHEDULED MONITORING ACTIVITIES FOR THE FOLLOWING MONTH</b>	15

<b>11. PROPOSED MITIGATION MEASURES.</b>	16
<b>12. CONCLUSION.</b>	17

### LIST OF FIGURES.

1. Air and Noise Monitoring Stations	6
2. 24-Hour Average TSP Concentrations at Sensitive Receivers ASR1, ASR2 and ASR3	8
3. 1-Hour Average TSP Concentrations at Sensitive Receivers ASR1, ASR2 and ASR3.	8
4. Noise Levels at Sensitive Receivers NSR1, NSR2 and NSR3.	9

### TABLES.

I Completed Monitoring Works	4
II Meteorological Data	9
III Summary of the construction noise permits.	11
IV Summary of exceedances to Action and Limit levels	13
V Proposed Monitoring Schedule for August 2002	15

### APPENDICES.

I General Works Timetable	
II Action / Limit levels and Action Plans for Exceedances to Action / Limit levels.	
III Calibration Certificates for Air and Noise Quality Monitoring Equipment	
IV Air Quality Monitoring Results	
V Noise Monitoring Results	
VI Environmental Mitigation Measures Implementation Status Report	
VII Organization Chart for Environmental Team	
VIII Wind Speed and Direction Data	
IX Current Environmental Permits and Licenses	[File 1]   [File2]   [File 3]   [File 4]
X Site Inspection Reports	
XI Complaint Report and Log Record	

## **EXECUTIVE SUMMARY.**

This is the 21<sup>st</sup> environmental impact monitoring and audit report produced for the project of Improvements to Island Eastern Corridor Section Between North Point Interchange and Sai Wan Ho, Contract No.HY/99/15 and it covers the monitoring works conducted for July 2002.

### **Works Progress**

Works conducted this month included:

#### Construction of Bridge A

- Bridge Surface formation.

#### Construction of Bridge B

- Formation of bridge beams. Construction retaining wall.

#### Construction of Bridge C

- Bridge Surface formation.

#### Quarry Bay Park

- Quarry Bay Park East - Construction of support for noise barrier, formation of columns for Bridge D.
- Quarry Bay Park North – Carriageway improvements, road surfacing.
- Quarry Bay Park West – construction of retaining wall and noise barrier No.2, underpass and drainage works. Construction of noise barrier, footbridge A & B.

#### Hoi Yu Street

- Bridge Column formation for Bridge A.

#### Aldrich Bay

- Excavation, trenching for installation of pipe works, concrete wall formation.

### **Air Quality Monitoring**

Monitoring for 24-hour TSP was carried out on five occasions with the monitoring of 1-hour TSP being carried out on fourteen occasions at each monitoring location ASR1, ASR2 and ASR3. There were no exceedances to set Action or Limit levels for either 24 or 1-hour TSP monitoring during this reported period.

### **Noise Monitoring**

Noise monitoring for the period was carried out on five occasions at monitoring locations NSR1, NSR2 and NSR3, giving a total of fifteen records for normal working hours (07:00 – 19:00) in accordance with the contract requirements. There were no exceedances to the set Limit level for noise at any station during this reported period.

### **Waste**

1089 m<sup>3</sup> C&D waste was generated in this reported period. All of them were transported to barging point at Quarry Bay. 25 m<sup>3</sup> general refuse was transported away from site.

**Site Inspections**

Five site inspections were carried out by the environmental team this month, no major problems noted.

**Complaints and Notifications**

No complaints or notification of summonses received in this reported period.

## 1. INTRODUCTION.

### 1.1 Background

Stanger Asia has been commissioned by Gammon Skanska Ltd. to provide an Environmental Team (ET) to monitor air, noise, waste management, and to conduct regular site inspections for the construction phase of Contract No.HY/99/15. The team is to take a pro-active role in all issues that may be of environmental concern.

In this report, the air, noise, waste management monitoring and site inspections conducted in July 2002 will be detailed and reviewed. All environmental works were carried out in accordance to the specifications given in the contract documents for this project.

### 1.2 Report Structure

The purpose of this report is to detail and review air, noise, and waste management monitoring works carried out for the month of July 2002. The schedule for monitoring works for August 2002 is also given.

The report follows the format given below:

- Section 1: Introduction and background information to the content and purpose of this report.
- Section 2: This section reviews the progress of monitoring and construction works.
- Section 3: The results of air, noise, waste management, site inspections and meteorological data are presented.
- Section 4: This section audits the environmental monitoring data.
- Section 5: Exceedances to Action and Limit levels are summarized.
- Section 6: Details the review procedures and follow-up actions to any exceedances to Action and Limit levels.
- Section 7: Gives details of any complaints received, with their associated review and follow-up actions.
- Section 8: The status for solid and liquid waste management for the site is overviewed.
- Section 9: This section gives the details of the main construction activities for the forth-coming month.
- Section 10: This section gives the timetable for monitoring works for the coming month.
- Section 11: This section details proposed mitigation measures.
- Section 12: This section gives a conclusion in relation to all monitoring activities.

## 1.3 Management Structure

The Project was commissioned by the Highways Department of the HKSAR.

Mr. Allen Chiu is the Senior Project Manager for Gammon Skanska Ltd., the main contractor for the project. (Tel: 2516 8823, Fax: 2516 6260).

Mr. Gault Rice is the Senior Resident Engineer of Maunsell Consultants Asia Limited, Consulting Engineers for the project. (Tel: 2564 1621, Fax: 2856 2460).

The Environmental Team is headed by Mr. Chris Shenfield of Stanger Asia Ltd. (Tel: 2682 1203, Fax: 2682 0046).

An organization chart detailing the responsibility of the Environmental Team is given in Appendix VII of this report.

## 2. PROGRESS.

### 2.1 Completed Monitoring Works.

Table I gives the completed monitoring works for the reported period.

**Table I Completed Monitoring Works for July 2002**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	July 1	2	3	4	5	6
		1 - hr TSP Site Inspection	Noise 1 - hr TSP 24 - hr TSP		1 - hr TSP	
7	8	9	10	11	12	13
	1 - hr TSP	24 - hr TSP Site Inspection	Noise 1 - hr TSP		1 - hr TSP	
14	15	16	17	18	19	20
	24 - hr TSP 1 - hr TSP	Site Inspection	Noise 1 - hr TSP		1 - hr TSP	
21	22	23	24	25	26	27
24 - hr TSP	1 - hr TSP	Site Inspection	Noise 1 - hr TSP		1 - hr TSP	24 - hr TSP
28	29	30	31			
	1 - hr TSP	Site Inspection	Noise 1 - hr TSP			

Notes:

- 1-hr: 1 hour TSP (3 times in every 6 days) conducted at stations SR1, SR2 and SR3.
- 24-hr: 24 hours TSP (once in every 6 days) conducted at stations SR1, SR2 and SR3.
- Noise: daytime noise conducted at stations SR1, SR2 and SR3 (LAeq(30 min)) once a week.
- SR1: Primrose Mansion; SR2: Juniper Mansion; SR3: North Point Police Station
- Site inspection: once a week

## 2.2. Air Quality Monitoring

Impact monitoring of 24-Hour TSP was conducted on five occasions with the monitoring of 1-Hour TSP being conducted on fourteen occasions at monitoring location ASR1 in accordance with contract specifications and required frequency.

Impact monitoring of 24-Hour TSP was conducted on five occasions with the monitoring of 1-Hour TSP being conducted on fourteen occasions at monitoring location ASR2 in accordance with contract specifications and required frequency.

Impact monitoring of 24-Hour TSP was conducted on five occasions with the monitoring of 1-Hour TSP being conducted on fourteen occasions at monitoring location ASR3 in accordance with contract specifications and required frequency.

Monitoring was carried out at the stations given in Figure 1 of this report.

## 2.3 Noise Monitoring

Fifteen impact monitoring records were recorded this month, five each at station NSR1, NSR2 and NSR3 in line with the contract specifications and frequency for normal working hours.

Monitoring was carried out at the stations given in Figure 1 of this report.

## 2.4 Site Inspections.

Weekly site inspections by the environmental team were carried out on five occasions in this reported month.

Site inspection reports are given in appendix X of this report.

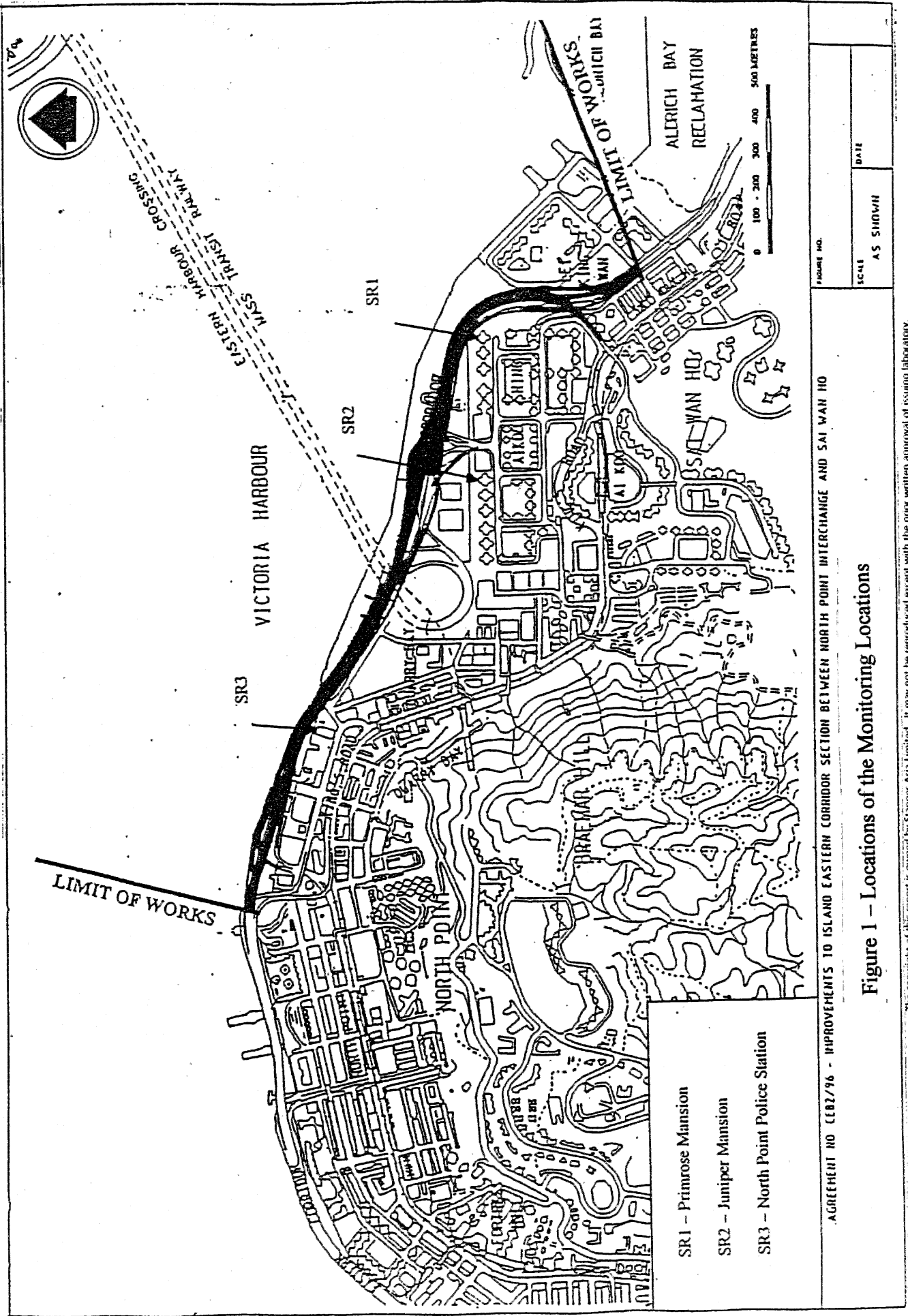
## 2.5 Waste Management

The chemical waste produced on site was collected regularly by a licensed chemical waste collector (lubricating and hydraulic oil).

The discharge license for compliance to the Water Pollution Control Ordinance for the site discharge (Aldrich Bay, Hoi Yu Street, Quarry Bay Park area, Retaining Wall No.5 and Tai Koo Shing area) have been issued. Chemical toilets have been established as temporary measures, these are emptied regularly by a licensed contractor.

1089 m<sup>3</sup> C&D waste was generated in this reported period. All of them were transported to barging point at Quarry Bay. 25m<sup>3</sup> general refuse was transported away from site.





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## 2.6 Progress of Relevant Works

Works undertaken in July 2002 included:

### Construction of Bridge A

- Bridge Surface formation.

### Construction of Bridge B

- Formation of bridge beams. Construction retaining wall.

### Construction of Bridge C

- Bridge Surface formation.

### Quarry Bay Park

- Quarry Bay Park East - Construction of support for noise barrier, formation of columns for Bridge D.
- Quarry Bay Park North – Carriageway improvements, road surfacing.
- Quarry Bay Park West – construction of retaining wall and noise barrier No.2, underpass and drainage works. Construction of noise barrier, footbridge A & B.

### Hoi Yu Street

- Bridge Column Formation for Bridge A.

### Aldrich Bay

- Excavation, trenching for installation of pipe works, concrete wall formation.