PROJECT NO.: TCS/00116/03

ISSUE NO.: 1

HONG KONG DRAINAGE SERVICES DEPARTMENT CONTRACT NO. DC/2000/08 VILLAGE FLOOD PROTECTION WORKS FOR WANG CHAU, MAI PO LO WAI AND MAI PO SAN TSUEN AND DRAINAGE IMPROVEMENT WORKS AT TAN KWAI TSUEN

ENVIRONMENTAL MONITORING & AUDIT (EM&A) REPORT – JULY 2004 (REVISION 0)

PREPARED FOR CHING CHIT CHEUNG CONSTRUCTION CO., LIMITED

Date	Reference No.	Prepared by	Approved By
2 August 2004	TCS/00116/03/600/R0797	Kin Hoo Ho (Environmental Consultant)	Cliff Lam (Environmental Team Leader
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This report has been prepared by Action-United Environmental Services & Consulting with all reasonable skill, care and diligence within the terms of the Agreement with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

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Ove Arup & Partners 奥雅纳工程顧問

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Engineer's Representative Drainage Services Department Drainage Projects Division 45/F Revenue Tower Wan Chai, Hong Kong

Attn: Mr Cheng Pan

ARUP

By Fax & By Post Fax No 2827 8700

Dear Sir.

Agreement No DP 01/2002

Hire of Services for an Independent Environmental Checker for Contract No DC/2000/08 Village Flood Protection Works for Wang Chau, Mai Po Lo Wai and Mai Po San Tsuen and Drainage Improvement Works at Tan Kwai Tsuen

Verification of EM&A Report for July 2004 (Revision 0)

We refer to the ET's letter dated 3 August 2004 (ref. TCS/00116/03/300/L0799) and subsequent discussion regarding the captioned subject.

We hereby verify that the captioned report shall be submitted to the EPD in accordance with the requirement as stipulated in the FEP.

If you require any further information, please do not hesitate to contact the undersigned or our Mr Fredrick Leong at 2268 3639.

Yours faithfully,

Sam Tsoi

Independent Environmental Checker

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Abbreviations

A1 Air Sensitive Receiver

AUES Action United Environmental Services

ET Environmental Team

DSD Drainage Services Department

EAP Event and Action Plan

EIA Environmental Impact Assessment
EM&A Environmental Monitoring and Audit

EP Environmental Permit

EPD Environmental Protection Department

FEP Further Environmental Permit

HOKLAS The Hong Kong Laboratory Accreditation Scheme

HVS High Volume Sampler

IEC Independent Environmental Checker

N1 Noise Sensitive Receiver

QA/QC Quality Assurance and Quality Control

TAT Trigger/ Action/ Target

TSP Total Suspended Particulates

W(D)1 Water Sensitive Receiver (Down Stream)
W(U)1 Water Sensitive Receiver (Up Stream)

Executive Summary

Ching Chit Cheung Construction Co., Ltd. (The Contractor) was awarded the Contract DC/2000/08 by the Drainage Services Department (DSD) to undertake the Village Flood Protection Works for Wang Chau, Mai Po Lo Wai and Mai Po San Tsuen and Drainage Improvement Works at Tan Kwai Tsuen (the Project).

Action-United Environmental Services and Consulting (AUES) was commissioned by the Contractor to undertake an impact Environmental Monitoring and Audit (EM&A) program for this project.

This report presents the findings of the impact EM&A reporting month (No. 22) for the Project from **27 June** to **26 July 2004** in accordance with the Environmental Monitoring & Audit (EM&A) Manual.

Environmental Monitoring and Audit Progress

The impact EM&A program was undertaken in accordance with the EM&A manual. A summary of the monitoring activities in this reporting month is listed below:

•	1-Hr TSP Monitoring	0 Event
•	24-Hr TSP Monitoring	0 Event
•	Noise Monitoring	0 Event

• Water Quality Monitoring 0 Monitoring Day

Site Inspection 0 Time
 Waste Management Audit 1 Time
 Ecological Monitoring 0 Occasion

Air Quality

Construction works have been suspended between April and July 2004. 24-Hr and 1-Hr TSP monitoring will continue when construction work commences at the start of August 2004.

Construction Noise

Construction works have been suspended between April and July 2004. Noise monitoring will continue when construction work commences at the start of August 2004.

Water Quality

Construction works have been suspended between April and July 2004. Water quality monitoring will continue when construction work commences at the start of August 2004.

Ecological Monitoring

Ecological monitoring at the Mai Po Village Egretry this year was completed on 22 May 2004.

Environmental Complaints

No environmental complaint was received in this reporting month.

Environmental Summons

No summon or prosecution related to environmental issue was received in this reporting month.

Site Inspection and Audit

No environmental site inspection is necessary between the start of April and the end of July. The ET undertook a waste management audit on 20 July 2004 at Wang Chau and Tan Kwai Tsuen.

Future Key Issues

The construction works for the box culvert, the pumping station and the flood protection wall has been temporarily suspended at Mai Po Lo Wai and Mai Po San Tsuen from April until the end of July. This is to allow for the breeding season of the egrets and related waterfowl in and around Mai Po village egretry (Site of Special Scientific Interest) to go undisturbed.

No construction noise, air and water quality impacts are envisaged during the suspension of works. Environmental impact monitoring will therefore be suspended and will resume when construction works restarts in August 2004. Ecological monitoring of the Mai Po village egretry commenced on 18 April 2004 and was completed on 22 May 2004.

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Record of Waste Management Audit

Summary of Monitoring Exceedances

Appendix L Appendix M

1.0 INTRODUCTION

1.1 PROJECT BACKGROUND

Ching Chit Cheung Construction Co., Ltd. (the Contractor) was awarded the Contract DC/2000/08 from the Drainage Services Department (DSD) to construct the Village Flood Protection Works for Wang Chau, Mai Po Lo Wai and Mai Po San Tsuen and drainage improvement works at Tan Kwai Tsuen (the Project).

Action-United Environmental Services and Consulting (AUES) was commissioned by the Contractor to implement an environmental monitoring and audit (EM&A) program in compliance with the legal and the contractual requirements of the Project.

The construction works at Mai Po Lo Wai and Mai Po San Tsuen is classified under the section of a Designated Project governed by the Environmental Permit system. A Further Environmental Permit (FEP-01/088/2002) was issued to the Contractor on 22 Aug 2002. According to Condition 4.0 of the FEP, an Environmental Monitoring and Audit (EM&A) program is required for Mai Po Lo Wai and Mai Po San Tsuen of this Project.

This monthly EM&A report (No. 22) presents the results of EM&A works conducted in the reporting month of July 2004 (from 27 June to 26 July 2004).

1.2 STRUCTURE OF THE MONTHLY EM&A REPORT

The structure of this EM&A report is organized into 14 sections as follows:

Section 1	Introduction
Section 2	Project Activities
Section 3	Status of Environmental Permit
Section 4	Summary of Impact EM&A Activities in July 2004
Section 5	Air Quality Monitoring
Section 6	Noise Monitoring
Section 7	Water Quality Monitoring
Section 8	Waste Management
Section 9	Ecological Monitoring
Section 10	Environmental Non-Compliance and Complaint
Section 11	Site Inspection
Section 12	Implementation Status of Mitigation Measures
Section 13	Impact Forecast and Monitoring Schedule for August 2004
Section 14	Conclusions and Recommendations

2.0 PROJECT ACTIVITIES

2.1 Construction Works In July 2004

A summary of the major construction activities undertaken in this reporting month is shown in *Table 2-1*.

Table 2-1 Major Construction Activities in July 2004

Site Area	Construction	Description of Construction Activities	
Boundary Wall E.		External Finishing and RC structure.	
Wang Chau	Pump House	Cat Ladder Installation, Hand railing installation and Checker plate flooring installation.	
	Compound Grassed concrete slab, Drainage and cable ducting and rand kerb.		
	Fenced Off Areas	Pillar box, draw pit and cable ducts.	
Mai Po		Water Diversion and Scaffolding Inspection.	
		Watering access road.	
Tan Kwai Tsuen		Additional ramp construction, slope excavation and trimming, additional footpath and U channel construction and hydro seeding.	

3.0 STATUS OF ENVIRONMENTAL PERMITS

3.1 Environmental Permits

The current status of all environmental permits, licences, and/or notification to EPD for this project as of 26 July 2004 is presented in *Table 3-1*.

Table 3-1 Summary of the Licence/Permit Status

Item	Item Description	Permit Status
1	Further Environmental Permit, FEP-01/088/2002	Issued to Ching Chit Cheung on 29 July 2002
2	Air Pollution Control (Construction Dust) – Mai Po	Notified EPD on 13 Aug 02
3	Air Pollution Control (Construction Dust) – Wang Chau	Notified EPD on 13 Aug 02
4	Air Pollution Control (Construction Dust) – Tan Kwai Tsuen	Notified EPD on 13 Aug 02
5	Water Pollution Control (Discharge Licence) – Septic Tanks, RE and Contractor's Offices No.IS38N/1	Issued on 7 February 03
6	Water Pollution Control (Discharge Licence) – Mai Po No.IS39/1	Valid (27 Nov 02 – 30 Nov 07)
7	Water Pollution Control (Discharge Licence) – Wang Chau, No.IU366/1	Valid (9 Sep 02 – 30 Sept 07)
8	Chemical Waste Producer Registration – Mai Po WPN: 5113-542-C3234-03	Issued on 23 October 02
9	Chemical Waste Producer Registration – Wang Chau WPN: 5113-528-C3234-01	Issued on 10 October 02
10	Chemical Waste Producer Registration – Tan Kwai Tsuen, WPN: 5211-519-C3234-02	Issued on 3 October 02
11	Water Pollution Control (Discharge Licence) - Tan Kwai Tsuen No.IT301/1	Valid (4 Feb 03 – 31 Jan 08)

4.0 SUMMARY OF EM&A ACTIVITIES IN JULY 2004

24-Hr and 1-Hr TSP:

No TSP monitoring was required to be undertaken in this reporting month.

Noise:

No noise monitoring was required to be undertaken in this reporting month.

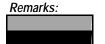
Water Quality:

No water monitoring was required to be undertaken in this reporting month.

The schedule which details all monitoring activities during the reporting month is presented in *Table 4-1*.

Table 4-1 EM&A Activities in July 2004

Date of Mon	itoring	Water Quality	Noise (Leq30)	Air Quality (1-Hr and 24-Hr)	Waste Audit	Ecological Monitoring
27-Jun-04	Sun					
28-Jun-04	Mon					
29-Jun-04	Tue					
30-Jun-04	Wed					
1-Jul-04	Thu					
2-Jul-04	Fri					
3-Jul-04	Sat					
4-Jul-04	Sun					
5-Jul-04	Mon					
6-Jul-04	Tue					
7-Jul-04	Wed					
8-Jul-04	Thu					
9-Jul-04	Fri					
10-Jul-04	Sat					
11-Jul-04	Sun					
12-Jul-04	Mon					
13-Jul-04	Tue					
14-Jul-04	Wed					
15-Jul-04	Thu					
16-Jul-04	Fri					
17-Jul-04	Sat					
18-Jul-04	Sun					
19-Jul-04	Mon					
20-Jul-04	Tue					
21-Jul-04	Wed					
22-Jul-04	Thu					
23-Jul-04	Fri					
24-Jul-04	Sat					
25-Jul-04	Sun					
26-Jul-04	Mon					



Sunday or Public Holiday Monitoring Event

5.0 AIR QUALITY MONITORING

The potential air quality impact arising from the construction is measured in terms of 1-Hr and 24-Hr Total Suspended Particulates (TSP).

5.1 MONITORING EQUIPMENT

24-Hr TSP Monitoring

The impact dust monitoring of 24-Hr TSP was undertaken in accordance with the Code of Federal Regulations Chapter 1 (Part 50) Appendix B. For all monitoring events, the 24-Hr TSP levels were determined by drawing air through a pre-conditioned, pre-weighed glass fiber filter inside a high volume sampler (HVS) at a controlled flow rate for 24 ± 1 hours.

1-Hr TSP Monitoring

The 1-Hr TSP levels were determined by using the 1-Hr TSP portable meter, which is capable of measuring and recording 1-hour time weighted average dust concentration between 0.01 and 100 mg/m³. *Table 5-1* summarises the equipment that was used in the air quality monitoring program.

Table 5-1 Air Quality Monitoring Equipment

Equipment	Model	
24-Hr TSP Monitoring		
HVS	Grasby Anderson GMWS 2310 HVS	
Calibration Kit	TISCH Model 515N Serial # 9833620	
1-Hr TSP Monitoring		
Portable meter	TSI DustTrak Aerosol Monitor	
r ortable filetel	Laser Dust Monitor LD-3	

5.2 Monitoring Location

The air quality monitoring location is presented in *Table 5-2*. The geographic location of the monitoring station is shown in Appendix A:

Table 5-2 Location of Air Monitoring Station

Monitoring Station	Name of Location	Description
A1	Mai Po Lo Wai	An open area close to a village house

5.3 TRIGGER/ACTION/TARGET LEVELS OF AIR QUALITY

The Trigger/Action/Target (TAT) Levels for air quality monitoring were proposed in the baseline monitoring report. The TAT levels for 24-Hr and 1-Hr TSP monitoring are presented in *Table 5-3* and *5-4* respectively.

Table 5-3 Trigger/Action/Target Levels for 24-Hr TSP Monitoring

Monitoring Station	Name of Location	Trigger Level mg/m³	Action Level	Target Level
A1	Mai Po Lo Wai	114	187	260

Table 5-4 Trigger/Action/Target Levels for 1-Hr TSP Monitoring

Air Monitoring Stations	Name of Location	Trigger Level g/m³	Action Level g/m³	Target Level g/m ³
A1	Mai Po Lo Wai	166	333	500

5.4 Monitoring Procedure and Calibration Details

Installation

The HVS was placed at the aforesaid location, which was freestanding with no obstruction. The following criteria were considered in the installation of the HVS.

- A horizontal platform with appropriate support to secure the samplers;
- The distance between the sampler and obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
- A minimum of 2 m separation from walls, parapets and penthouses for rooftop samplers;
- A minimum of 2 m separation from any supporting structure measured horizontally;
- No furnace or incinerator flue nearby;
- Unrestricted airflow around the sampler;
- A minimum separation of 20 m from the drip line; and
- Any wire fence and gate to protect the sampler will not cause any obstruction during monitoring.

Preparation of Filter Papers by HOKLAS-accredited laboratory

- Glass-fibre filters, were labeled and sufficient filters that were clean and without pinholes were selected;
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was <50% and not variable by more than ±5%. A convenient working RH was 40%; and
- ALS Technichem (HK) Pty Ltd has comprehensive quality assurance and quality control programs for TSP analysis and has attained HOKLAS accreditation for a range of other environmental testing. The certificate for the laboratory is shown in Appendix B.

Field Monitoring

- The power supply was checked to ensure that the HVS worked properly;
- The filter holder and the area surrounding the filter were cleaned;
- The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen aligned carefully;
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- Then the shelter lid was closed and secured with the aluminum strip;
- The HVS was warmed-up for about 5 minutes to establish run-temperature conditions;
- A new flow rate record sheet was set into the flow recorder;
- The flow rate of the HVS was checked and adjusted at around 1.1 m³/min. The range specified in the EM&A Manual was between 0.6-1.7 m³/min;
- The programmable timer was set for a sampling period of 24 hrs \pm 1 hr, and the starting time, weather condition and the filter number were recorded;
- The initial elapsed time was recorded;

- At the end of sampling, the sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact;
- It was then placed in a clean plastic envelope and sealed;
- All monitoring information was recorded on a standard data sheet; and
- Filters were sent to ALS Technichem (HK) Pty Ltd for analysis.

Maintenance & Calibration

- The HVSs and their accessories was maintained in good working condition, such as routinely replacing motor brushes and checking electrical wiring to ensure a continuous power supply;
- The HVSs were calibrated at bi-monthly intervals using TE-5025A TISCH Calibration Kit throughout all stages of the air quality monitoring; and
- The portable dust meter was calibrated by the manufacturer before the instrument was shipped to the site. The zero response of the instrument was checked before and after each monitoring event. The schedule of calibration and/or certificates is provided in *Appendix C*.

5.5 IMPACT AIR QUALITY MONITORING RESULTS AND AUDITS

No TSP monitoring was required to be undertaken in this reporting month.

6.0 NOISE MONITORING

6.1 MONITORING EQUIPMENT

An Integrating Sound Level Meter was used for noise monitoring. It is a Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x). It complies with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). A portable electronic wind speed indicator capable of measuring the wind speed in m/s was employed to check the wind speed. *Table 6-1* details the noise monitoring equipment used.

Table 6-1 Noise Monitoring Equipment

Equipment	Model	
Integrating Sound Level Meter	Bruel & Kjaer 2238	
Calibrator	Bruel & Kjaer 4231 Acoustical Calibrator	
Portable Wind Speed Indicator	Testo Anemometer	

6.2 Monitoring Location

The noise monitoring was undertaken at one designated monitoring location as shown in Table 6-2 and geographically in Appendix A.

Table 6-2 Location of Noise Monitoring Station

Monitoring stations	Location	ASR*	Description
N1	Mai Po Lo Wai	А	Village house - Facing the construction site

^{*}ASR refers to Area Sensitivity Rating as defined in the Technical Memorandum under the Noise Control Ordinance.

6.3 TRIGGER/ACTION/TARGET LEVELS OF CONSTRUCTION NOISE

The Trigger/Action/Target (TAT) Levels for noise monitoring were adopted from the baseline monitoring data. *Table 6-3* and *Table 6-4* presents the established TAT levels for the noise monitoring.

Table 6-3 Trigger / Action Levels for Construction Noise

Time Period		Trigger Level	Action Level
Normal hours	07:00-19:00 hrs on normal weekdays	Descript of a single	Receipt of more than one documented complaint of
Restricted hours	07:00-23:00 hrs on public holidays; and 19:00-23:00 hrs on all other days	Receipt of a single documented complaint of construction noise level.	construction noise in any two weeks period on the same event or at the same location.
	23:00-07:00 hrs of next day		

Table 6-4 Target Levels for Construction Noise

Time Period		Target Level
Normal 07:00-19:00 hrs on normal weekdays		Leq (30 min) 75 dB(A) Leq (30 min) 70 dB(A) for schools and 65 dB(A) during examination periods.
Restricted hours	07:00-23:00 hrs on public holidays; and 19:00-23:00 hrs on all other days	60 dB(A) for ASR* "A" Areas
110413	23:00-07:00 hrs of next day	45 dB(A) for ASR* "A" Areas

^{*}ASR refers to Area Sensitivity Rating as defined in the Technical Memorandum of Noise Control Ordinance.

6.4 Monitoring Procedure and Calibration Details

Field Monitoring

- The Sound Level Meter is set on a tripod at a height of 1.2 m above the ground.
- For free field measurement, the meter is positioned away from any nearby reflective surfaces. For reference, a correction of +3dB(A) is made to the free field measurements.
- The battery condition is checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time is set as follows:

Frequency weighting : ATime weighting : Fast

- Time measurement : 30 minutes / 5 minutes

- Prior to noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1000 Hz (if the difference in the calibration level before and after measurement are more than 1 dB(A), the measurement will be considered invalid and repeat of noise measurement will be required after re-calibration or repair of the equipment).
- The wind speed was frequently checked with a portable wind meter.
- During the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- During normal construction working hours (0700-1900 Monday to Saturday), monitoring of $L_{Aeq, 30min}$ noise levels (as six consecutive $L_{Aeq, 5min}$ readings) were carried out.
- Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, human noise or another sources are not come from the construction works) if possible.
 Observations were recorded when intrusive noise was unavoidable.

Maintenance and Calibration

- The microphone head of the sound level meter and calibrator is cleaned with soft cloth at quarterly intervals.
- The meter was sent to a HOKLAS laboratory for calibration at yearly intervals. The schedule of calibration and certificates are provided in *Appendix C*.

6.5 Noise Monitoring Results and Audits

No noise monitoring was required to be undertaken in this reporting month.

7.0 WATER QUALITY MONITORING

7.1 MONITORING EQUIPMENT

The equipment for the water quality monitoring presented in *Table 7-1*.

Table 7-1 Water Quality Monitoring Equipment

Equipment	Model / Description	
Water Depth Detector	Steel Ruler	
Water Sampling Equipment	Telfon bailor	
Thermometer	YSI Model 55	
Sample Container	High density polythene bottles (provided by laboratory)	
Storage Container	Cool box with ice pack	

7.2 MONITORING LOCATIONS

Water quality monitoring was undertaken at the two designated locations as shown in *Table 7-2* and geographically in *Appendix A*. The water samples were analysed for Suspended Solids and Total Zinc.

Table 7-2 Locations of Marine Water Monitoring Stations

Station	Location	
W(U)1	Upstream of site - Control Station	
W(D)1	Downstream of site - Impact Station	

7.3 TRIGGER/ACTION/TARGET LEVELS OF WATER QUALITY

The Trigger/Action/Target (TAT) Levels for water monitoring were proposed in the baseline monitoring report. The TAT levels for water quality monitoring are presented in *Table 7-3*.

Table 7-3 Trigger / Action / Target Levels for Water Quality

Parameter	Trigger Level	Action Level	Target Level
Suspended Solids (mg/L)	Trigger Level is exceeded if Suspended Solids (SS) at water sampling station W(D)1 exceeds 203mg/L and 120% of the SS level at the upstream control water sampling station W(U)1 on the same monitoring day.	Action Level is exceeded if Suspended Solids (SS) at water sampling station W(D)1 exceeds 203mg/L and 130% of the SS level at the upstream control water sampling station W(U)1 on the same monitoring day.	Target Level is exceeded if SS at water sampling station W(D)1 exceeds 203 mg/L and 130% of the SS level at water sampling station W(U)1 for three consecutive monitoring days.
Trigger Level is exceeded if Zinc at water sampling station W(D)1 exceeds 145 ug/L, and 120% of the zinc level at the upstream control water sampling station W(U)1 on the same monitoring day.		Action Level is exceeded if Zinc at water sampling station W(D)1 exceeds 145ug/L and 130% of the zinc level at the upstream water sampling station W(U)1 on the same monitoring day.	Target Level is exceeded if Zinc at water sampling station W(D)1 exceeds 145ug/L and 130% of the zinc level at water sampling station W(U)1 for three consecutive monitoring days.

7.4 MONITORING METHODOLOGY

Sampling

A steel ruler is used for the determination of water depth at each designated monitoring station. As the water column at the monitoring station was less than 1.5 m at the time of sampling, one water sample was taken in the middle of the water column.

Water samples are collected using a telfon bailor and the samples were stored in high-density polythene bottles. Sampling bottles were pre-rinsed with the same water samples. The sample bottles were then packed in cool boxes (cooled at 4°C without being frozen), and delivered to *ALS Technichem (HK) Pty Ltd* for analysis of suspended solids and zinc.

The results of the in-situ measurements were recorded on the field data sheets and subsequently inputted into a computer database for data interpretation.

Laboratory Analysis

All laboratory work was carried out by a local HOKLAS-accredited laboratory. The analyses followed the standard methods according to the APHA Standard Methods for the Examination of Water and Wastewater unless otherwise specified. The analytical methods of the water samples are presented in *Table 7-4* below:

Table 7-4 Analytical Methods of Water Samples

Determinants	Testing Method	Detection Limit
Suspended Solids	APHA 19ed 2540D	2 mg/L
Zinc	APHA 17ed 3111B	10 ug/L

7.5 WATER MONITORING RESULTS AND AUDITS

No water monitoring was required to be undertaken in this reporting month.

8.0 WASTE MANAGEMENT

The ET carried out a waste management audit on 20 July 2004. A summary of the waste audit findings and follow up actions are presented in *Table 8-1*. The waste audit findings are presented in *Appendix L* and some observations are noted as follows:

ET's Waste Audit Findings and recommendations:

- Trip ticket records of any waste disposal were taken;
- Any generator and chemical drums/containers should be provided with a drip tray; and
- Waste skips should be provided onsite to collect waste when necessary and to improve house keeping.

Table 8-1 Summary of Waste Audit Findings and Follow Up Action

Item	Aspects	Key Audit Findings	Date Observed	
Site Ob	servation			
1	Waste	No waste issues to report.	20 July 2004	
Follow	Follow Up Action			
1	Waste	N/A		

Records of Waste Quantities

All types of waste arising from construction works are classified into the following:

- Excavated material;
- Construction & demolition (C&D) material;
- General waste;
- Chemical waste; and
- Dredged materials.

The quantities of waste disposed in this reporting month are summarized in *Table 8-2*.

Table 8-2 Summary of Quantities of Waste for Disposal

Type of Waste	Quantity	Disposal Location
Excavated Material (Contaminated) (m³)	Nil	From Mai Po site to East Sha Chau
Excavated Material (Uncontaminated) (m³)	Nil	From Mai Po site to South Cheung Chau
Soil Material from Wang Chau (m³)	Nil	WENT
Soil and Hard Inert Material from Tan Kwai Tsuen (Tons)	187.76	Fill Bank Tuen Mun Area 38
Construction & Demolition Material (Inert) (m³)	Nil	NA
Construction & Demolition Material (Non-inert) (m³)	Nil	NA
Chemical Waste (m³)	Nil	NA
General Waste (tons)	8.06	NENT and WENT

9.0 ECOLOGICAL MONITORING

The ecological assessment reported in the EIA recommended ecological monitoring and audit to be carried out at Mai Po Village Egretry.

9.1 Monitoring Parameters and Frequency

The monitoring of the egretry is carried out during the construction phase of the project to identify and evaluate any impacts from the village flood protection works. Annual counts and species identification of nesting birds are conducted during the nesting season from April through to July. Nest productivity is estimated from sample numbers of eggs and chicks in nests at each egretry. The nest occupancy and productivity is then determined based on 4 counts at each egretry conducted between 1 April and 31 July. Trends in numbers and species representation at egretries are assessed for any indications of adverse impacts from channel construction. The monitoring results are reported in the relevant monthly report.

9.2 Monitoring Location

The monitoring location of the egretry is at Mai Po Lo Wai and Mai Po San Tsuen in accordance with the EM&A Manual.

MONITORING METHODOLOGY

A combined monitoring methodology is used consisting of nest counting from a distance which determines the nesting population of the study area and egg counting / hatching which determines the breeding success of the egrets. Little Egrets are the target species of this monitoring exercise as they accounted for 40% of the total nests in the Mai Po Village Egretry in 2002. A maximum of 30 Little Egret nests will be studied and where possible the breeding success of other nesting ardeids would also be monitored.

Nests are to be tagged with a red ribbon and marked with a numbered plastic label. Each nest is visited on average once a month with the main focus during the peak-breeding season. The first and second surveys are aimed at investigating clutch size and hatching success. Sufficient time (about 21 days) will be given to allow the eggs to hatch so that the hatching success of the eggs can be estimated. A mirror attached to a pole will be used to view nests high from the ground. A digital camera is used to record contents of each nest during every visit.

The hatching success of a tagged nest is defined as the number of chicks hatched divided by the clutch size. The clutch size is determined as the total number of eggs present before hatching occurs in the monitoring sample under study. Those nests where re-visits are not possible due to the loss of tags or labels will not be considered in the estimation of clutch size and hatching success.

Monitoring Equipment

The main equipment used for the breeding success monitoring and the nesting population count is presented as follows:

Table 9-1 Ecological Monitoring Equipment

Equipment	Model	
Binoculars	Leica 10x42	
Digital Camera	Leica Digilux 4.3	

ECOLOGICAL MONITORING AND AUDIT

Ecological monitoring of the Mai Po village egretry this year commenced on 18 April 2004 and was completed on 22 May 2004.

10.0 ENVIRONMENTAL NON-COMPLIANCE AND COMPLAINT

10.1 Environmental Compliance Requirement

Should there be any work related monitoring exceedance of TAT Levels, the Event and Action Plan (EAP) will be followed. The EAP is as outlined in the EM&A Manual.

SUMMARY OF MONITORING EXCEEDANCES

Air Quality Monitoring

No Monitoring was undertaken in this reporting month.

Construction Noise Monitoring

No Monitoring was undertaken in this reporting month.

Water Quality Monitoring

No Monitoring was undertaken in this reporting month.

10.3 SUMMARY OF ENVIRONMENTAL COMPLAINTS

No environmental complaint was received in this reporting month. A statistical summary of environmental complaints since project commencement is presented in *Table 10-1*.

Table 10-1 Statistical Summary of Environmental Complaints

	Complaint Statistics			
Reporting Month	Frequency	Cumulative	Complaint Nature	
September 2002	0	0	N/A	
October 2002	0	0	N/A	
November 2002	0	0	N/A	
December 2002	0	0	N/A	
January 2003	0	0	N/A	
February 2003	0	0	N/A	
March 2003	0	0	N/A	
April 2003	0	0	N/A	
May 2003	0	0	N/A	
June 2003	0	0	N/A	
July 2003	0	0	N/A	
August 2003	0	0	N/A	
September 2003	0	0	N/A	
October 2003	0	0	N/A	
November 2003	0	0	N/A	
December 2003	0	0	N/A	
January 2004	0	0	N/A	
February 2004	0	0	N/A	
March 2004	0	0	N/A	
April 2004	0	0	N/A	
May 2004	0	0	N/A	
June 2004	0	0	N/A	
July 2004	0	0	N/A	

ENVIRONMENTAL SUMMONS

No summon was received in this reporting month. A statistical summary of legal proceedings since project commencement is presented in *Table 10-2*.

Table 10-2 Statistical Summary of Environmental Summons

Reporting Month	Summon Statistics				
Reporting Month	Frequency	Cumulative	Nature of Summons		
September 2002	0	0	N/A		
October 2002	0	0	N/A		
November 2002	0	0	N/A		
December 2002	0	0	N/A		
January 2003	0	0	N/A		
February 2003	0	0	N/A		
March 2003	0	0	N/A		
April 2003	0	0	N/A		
May 2003	0	0	N/A		
June 2003	0	0	N/A		
July 2003	0	0	N/A		
August 2003	0	0	N/A		
September 2003	0	0	N/A		
October 2003	0	0	N/A		
November 2003	0	0	N/A		
December 2003	0	0	N/A		
January 2004	0	0	N/A		
February 2004	0	0	N/A		
March 2004	0	0	N/A		
April 2004	0	0	N/A		
May 2004	0	0	N/A		
June 2004	0	0	N/A		
July 2004	0	0	N/A		

11.0 SITE INSPECTION

No environmental site inspection is necessary between the start of April and the end of July. The ET undertook a waste management audit on 9 June 2004 at Wang Chau and Tan Kwai Tsuen.

12.0 IMPLEMENTATION STATUS OF MITIGATION MEASURES

The Contractor has been implementing the required environmental mitigation measures according to the Environmental Mitigation Implementation Schedule. A summary of the implementation status of the mitigation measures is presented in *Appendix I*.

13.0 IMPACT FORECAST AND MONITORING SCHEDULE FOR AUGUST 2004

13.1 Key Issues for the Coming Month

Construction works for the box culvert, the pumping station and the flood protection wall will begin again in the coming construction month. Any potential dust, noise and water quality impact due to works will be carefully monitored. Key issues to be considered in the coming month include:

- Construction noise impact due to construction works at Mai Po Lo Wai and Mai Po San Tsuen:
- Air quality impact due to vehicular movement and loading and unloading of stockpiles;
- Water quality impact due to surface water runoff particularly during the rainy season; and
- Follow-up management of chemical and general waste issues if any.

13.2 UPCOMING EM&A SCHEDULE IN AUGUST 2004

The EM&A schedules for the coming reporting month is presented as follows:

Table 13-1 Upcoming EM&A Schedule in August 2004

Date of Mo	nitoring	Water Quality	Noise (Leq30)	Air Quality (1-Hr and 24-Hr)	Site Inspection
27-Jul-04	Tue				
28-Jul-04	Wed				
29-Jul-04	Thu				
30-Jul-04	Fri				
31-Jul-04	Sat				
1-Aug-04	Sun				
2-Aug-04	Mon				
3-Aug-04	Tue				
4-Aug-04	Wed				
5-Aug-04	Thu				
6-Aug-04	Fri				
7-Aug-04	Sat				
8-Aug-04	Sun				
9-Aug-04	Mon				
10-Aug-04	Tue				
11-Aug-04	Wed				
12-Aug-04	Thu				
13-Aug-04	Fri				
14-Aug-04	Sat				
15-Aug-04	Sun				
16-Aug-04	Mon				
17-Aug-04	Tue				
18-Aug-04	Wed				
19-Aug-04	Thu				
20-Aug-04	Fri				
21-Aug-04	Sat				
22-Aug-04	Sun				
23-Aug-04	Mon				
24-Aug-04	Tue				
25-Aug-04	Wed				
26-Aug-04	Thu				

Remarks:
Sunday or Public Holiday
Monitoring Event

13.3 CONSTRUCTION WORKS FOR THE 3 MONTHS ROLLING PROGRAM

The construction works for the 3 months rolling program is included in *Appendix J*.

14.0 CONCLUSIONS AND RECOMMENDATIONS

The EM&A program in July 2004 was undertaken in accordance with the EM&A manual. A summary of environmental exceedances for air, noise and water quality in this reporting month is presented as follows:

Summary of Environmental Compliance

Env. Quality	Parameters	% Exceedance	Investigation & Corrective Actions
Air Quality	1-Hr TSP	0	Not Required for 0% exceedance
	24-Hr TSP	0	Not Required for 0% exceedance
Noise	Leq (30min) Daytime	0	Not Required for 0% exceedance
Water Quality	Suspended Solids	0	Not Required for 0% exceedance
	Total Zinc Level	0	Not Required for 0% exceedance

[#] Details of any monitoring exceedances recorded by the ET are presented in Appendix M.

Air Quality Monitoring

No Monitoring was undertaken in this reporting month.

Construction Noise Monitoring

No Monitoring was undertaken in this reporting month.

Water Quality Monitoring

No Monitoring was undertaken in this reporting month.

Ecology

Ecological monitoring of the Mai Po village egretry this year commenced on 18 April 2004 and was completed on 22 May 2004.

Environmental Complaint/Summons

No environmental complaint or summon was received during the reporting month.

Recommendations

The ET will keep track on the EM&A program to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.