PROJECT NO.: TCS/00280/05

ISSUE NO.: 1

DRAINAGE SERVICES DEPARTMENT (DSD) CONTRACT NO. DC/2004/08

PENG CHAU SEWAGE TREATMENT WORKS UPGRADE

ENVIRONMENTAL MONITORING AND AUDIT (EM&A) MONTHLY EM&A REPORT MAY 2006

PREPARED FOR

Acciona-ATAL Joint Venture (AAJV)

Date	Reference No.	Prepared by	Certified By
8 June 2006	TCS/00280/05/600/R0135	Ben Tam (Project Supervisor)	Cliff Lam (Project ET 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.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.



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14 June 2006 Ou: Ref: 8251/0248

By Post/email

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CDM International Inc., 4305-12 Metroplaza Tower 1, 223 Hing Fong Road, Kwai Fong, Hong Kong

For the attention of Mr. / fired Cheung/Mr. Stephen Ng.

Dear Sirs,

RE: EM&A MONTHLY REPORT - MAY 2006 Contract No. DC/2004/08 Upgrading of Peng Chau Sewage Treatment Works

With reference to the final version of the EM&A monthly report for May 2006 provided by ET on 14th June 2008 (ET's ref.: 'TCS/00260/05/600/R0135 issue 1), we have no critical comments on the mentioned report.

Thank you for your kind attention and should you require any further information, please do not besitate to contact the undersigned at 2241 9807

Yours sincerely

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Project Independent Environmental Checker RBR/srw

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TABLE OF CONTENTS

1.0	Introduction	1
2.0	Project Organisation and Construction Progress	2
3.0	Summary of Monitoring Requirements	3
4.0	Impact Monitoring Methodology	5
5.0	Impact Monitoring Results	9
6.0	Waste Management	11
7.0	Site Inspection	12
8.0	Environmental Complaint and Non-Compliance	12
9.0	Implementation Status Of Mitigation Measures	13
10.0	Impact Forecast	14
11.0	Conclusions	15

List of Tables

- Table 2-1
 Major Construction Activities in this Reporting Month
- Table 2-2
 Summary of Valid Environmental Approval Documents
- Table 3-1Summary of EM&A Requirements
- Table 3-2
 Action and Limit Levels for Air Quality
- Table 3-3 Action and Limit Levels for Noise
- Table 3-4
 Action and Limit Levels for Marine Water Quality
- Table 4-1
 Locations of Air Quality and Noise Monitoring Stations
- Table 4-2
 Locations of Marine Water Monitoring Stations
- Table 4-3 Monitoring Equipment Used in EM&A Program
- Table 4-4
 Analytical Methods Applied to Marine Water Quality Samples
- Table 5-1
 Summary of 24-Hr and 1-Hr TSP Monitoring Results
- Table 5-2Summary of Noise Monitoring Results
- Table 5-3
 Summary of Exceedances for Marine Water Monitoring Results
- Table 6-1
 Summary of Quantities for Waste Disposal
- Table 6-2Summary of Quantities for Recycling Materials
- Table 8-1
 Statistical Summary of Environmental Complaints

List of Appendices

- Appendix A Project Site Layout
- Appendix B Environmental Organisation Structure
- Appendix C Locations of Monitoring Stations
- Appendix D Equipment Calibration Certificates
- Appendix E Impact Monitoring Schedule
- Appendix F Graphical Plots of Air Quality and Noise Monitoring Results
- Appendix G Meteorological Data
- Appendix H Marine Water Quality Results
- Appendix I Graphical Plots of Marine Water Quality
- Appendix J Three-Month Rolling Program

Executive Summary

Acciona-ATAL Joint Venture (AAJV) has been awarded the DSD Contract DC/2004/08 (Project) for the Peng Chau Sewage Treatment Works Upgrade in May 2005. The Project requires an Environmental Monitoring & Audit (EM&A) program to be implemented by an Environmental Team (ET) throughout the contract period in compliance with the requirements as stated in the project Environmental Permit (EP-203/2004) and the Project EM&A manual.

Action-United Environmental Services and Consulting (AUES) has been commissioned by AAJV to be an independent environmental team (ET) to implement the EM&A program in compliance with the EP and the project EM&A Manual.

This report presents the results of the project EM&A program for the reporting month **May 2006** during the period from 26 April to 25 May 2006.

EM&A Activities in this Reporting Month

A summary of the monitoring activities in this reporting month is listed below:

- 1-Hr TSP Monitoring
- 24-Hr TSP Monitoring
- 18 Events 6 Events
- Noise Monitoring
- 6 Events13 Monitoring Days
- Water Quality MonitoringSite Inspection Audit
- 5 Times

Air Quality

No exceedance in 1-Hr TSP and 24-Hr TSP measurements was recorded in this reporting month.

Construction Noise

No exceedance in construction noise measurements was recorded and no noise complaint was received in this reporting month.

Water Quality

There were 8 limit and 10 action level exceedances in Ammonia and TIN recorded in this reporting month.

All limit level exceedances in Ammonia and TIN were recorded on 6 May 2006 at W1 & W2 during ebb tide & flood tide.

There were totally five action-level exceedances in Ammonia measured at W1: three exceedances during ebb tide on 29 April, 2 and 4 May 2006 and two exceedances during flood tide on 29 April, and 24 May 2006.

There were totally four action-level exceedances in Ammonia measured at W2: three exceedances during ebb tide on 29 April, 2 May and 24 May 2006, and one exceedance during flood tide on 24 May 2006.

There was one action-level exceedance in TIN measured at W2 during ebb tide on 11 May 2006.

According to the site construction dairy provided by contractor, there were no marine works carried out on those concerned dates. The Ammonia and TIN levels measured at the control stations (C1 & C2) were also comparatively high. The ET Leader therefore considered that the exceedances were unlikely due to the project.

Summary of Monitoring Exceedances

A summary of monitoring exceedances for air, noise and water quality monitoring is presented below:

Env. Quality	Parameters	Compliance %	Investigation & Corrective Actions
Air Quality	1-hour TSP	100	Not Required for 100% Compliance
All Quality	24-hour TSP	100	Not Required for 100% Compliance
Noise	Leq (30min) Daytime	100	Not Required for 100% Compliance
	Suspended Solids	100	Not Required for 100% Compliance
	Turbidity	100	Not Required for 100% Compliance
Water Quality	Dissolved Oxygen	100	Not Required for 100% Compliance
	Ammonia	100	Not Required for Non Project-Related Exceedances
	TIN	100	Not Required for Non Project-Related Exceedances

Environmental Complaints

No environmental complaint was received in this reporting month.

Environmental Summon

No environmental summon was received in this reporting month.

Future Key Issues

The potential environmental impacts for this project generally include air quality, noise, water quality and construction waste. The contractor is to properly implement the required environmental mitigation measures as per the Implementation Schedule in the EM&A manual to ensure no significant adverse environmental impact arises from the construction works.

1.0 INTRODUCTION

- 1.01 Acciona-ATAL Joint Venture (AAJV) has been awarded the DSD Contract DC/2004/08 (Project) for the upgrading of Peng Chau Sewage Treatment Works in May 2005. The Project requires an Environmental Monitoring & Audit (EM&A) program to be implemented by an Environmental Team (ET) throughout the contract period in compliance with the requirements as stated in the project Environmental Permit (EP-203/2004) and the project EM&A manual. The location of the project site is presented in Appendix A.
- 1.02 The works to be executed under the Project mainly comprise the following:
 - Upgrade and reconstruct the existing Peng Chau Sewage Treatment Works (STW);
 - Construct an emergency overflow, storm tanks and submarine outfall;
 - Provide de-odourization facilities and associated sludge treatment facilities, and extend inlet pumping mains and construct an equalization tank;
 - Demolish the existing treatment facilities;
 - Construct sludge drying bed; and
 - Construct remaining works.
- 1.03 Action-United Environmental Services and Consulting (AUES) has been commissioned by AAJV to be the independent environmental team (ET) for implementation of the EM&A program in accordance with the requirements as set out in the EP and the project EM&A manual.
- 1.04 This report presents the results of the project EM&A program for the reporting month **May 2006** during the period from 26 April to 25 May 2006.

Report Structure

- 1.05 The EM&A report is structured into the following sections:
 - Section 1 Introduction
 - **Section 2** Project Organization and Construction Progress
 - Section 3 Summary of Monitoring Requirements
 - Section 4 Monitoring Methodology
 - Section 5 Monitoring Results
 - Section 6 Waste Management
 - Section 7 Site Inspection
 - Section 8 Environmental Complaint and Non-Compliance
 - Section 9 Implementation Status of Mitigation Measures
 - Section 10 Impact Forecast and Monitoring Schedule
 - Section 11 Conclusions

2.0 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

2.1 Project Organization and Management Structure

The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in *Appendix B*.

2.2 Construction Progress

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 this Reporting Month	
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Location	Description of Construction Activities
Portion P	 Removal of the existing twin D.I. 150 drainage pipe
Portion Q	Nil
Portion R	 Excavating for the footing of NSTC and deliver excavated material to PCTF; Dismantling formwork and removal of the working platform at ESC; Concreting of the blinding concrete for NSTC; Erecting formwork and bar fixing for NSTC; Concreting of the base slab of NSTC; Sheetpile installation for construction of chlorine tank; and Filling Grade 200 rock fill for the NSTC foundation.
Area A	NA
Area B	 Reinforcement bar bending for NSTC and ESC
Area C	Nil

2.3 Summary of Environmental Submissions

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project in this reporting month is presented in *Table 2-2*.

 Table 2-2
 Status of Environmental Licenses and Permits

ltem	Item Description	Permit Status
1	Environmental Permit No.: EP-203/2004	Issued at 30-Nov-04
2	Air Pollution Control (Construction Dust)	Notified EPD on 17-Jun-05
3	Water Pollution Control (Discharge Licence) EP890/W2/XE005	Valid to 30-Sep-10
4	Chemical Waste Producer Registration WPN:5213-976-N2449-01	Registration on 3-Jun-05
5	Exemption for site concrete batching plant licence	Issued at 21-Oct-05
6	Exemption Account for Disposal of Construction Waste (Account Number : 5000577)	Valid until 27-Sep-08
7	Construction Noise Permit(No. GW-RS0038-06)	Valid (2-Feb-06 to 1-Aug-06)

3.0 SUMMARY OF IMPACT MONITORING REQUIREMENTS

- 3.01 Environmental monitoring and audit requirements are set out in the project EM&A manual. Air, marine water and construction noise have been identified to be the key environmental issues during the impact phase of the project.
- 3.02 A summary of the EM&A requirements for air quality, marine water quality and construction noise monitoring are shown in *Table 3-1*. The designated locations of the air quality, noise and marine water monitoring stations are shown in *Appendix C*.

Environmental Aspect	Monitoring Parameters
Air Quality	1-Hr TSP
	24-Hr TSP
Construction Noise	Leq 30min during normal working hours
	Supplementary L10 and L90 for reference.
Marine Water Quality	 Dissolved Oxygen (DO);
	Temperature;
	Turbidity;
	• pH;
	Salinity;
	 Suspended Solids (SS);
	Ammonia Nitrogen; and
	Total Inorganic Nitrogen.

	Table 3-1	Summary of EM&A Requirements
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- 3.03 Air monitoring is carried out once every six days for 24-Hr TSP and 3 times every six days for 1-Hr TSP at one designated monitoring station.
- 3.04 Noise monitoring is conducted once every six days at one designated monitoring station. Measurements of Leq 30min shall be taken between 0700 and 1900 with supplementary L10 and L90 data collected.
- 3.05 Marine water monitoring is carried out 3 times every week at 4 designated monitoring stations (2 Control stations and 2 Impact stations) in the course of marine work.
- 3.06 The Impact monitoring program shall be conducted throughout the construction of the Project.
- 3.07 A summary of the Action/Limit (A/L) Levels for air quality, marine water quality and construction noise is shown in *Tables 3-2, 3-3* and *3-4.*

Table 3-2Action and Limit Levels for Air Quality

Monitoring Location	Action Level (μg /m³)		Limit Level (µg/m ³)	
	1-Hr TSP	24-Hr TSP	1-Hr TSP	24-Hr TSP
AN1	346	163	500	260

Table 3-3 Action and Limit Levels for Construction Noise

Parameter	Action Level in dB(A)	Limit Level in dB(A)
0700-1900 hrs on normal weekdays	When one or more documented complaints are received	75 dB(A)

Table 3-4	Action and Limit Levels for Marine Water Quality
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Parameter		Action	Limit
DO mg/L Surface &		4.1	3.9
Bottom		3.3	2.0
Turbidity, NTU		6.2 or 120% of upstream control station's SS at the same tide of the same day.	7.5 or 130% of upstream control station's SS at the same tide of the same day.
SS, mg/L		17.6 or 120% of upstream control station's SS at the same tide of the same day.	20.2 or 130% of upstream control station's SS at the same tide of the same day.
NH3-N, mg/L		0.16	0.22
TIN, mg/L		0.91	0.94
E.Coli, cfu/100mL		374	610

3.08 An Event Action Plan for air, noise and water quality has been implemented for this project. Details of the Event Action Plan are presented in the First Impact EM&A report.

4.0 IMPACT MONITORING METHDOLOGY

MONITORING LOCATIONS

- 4.01 There is one designated air and noise monitoring location and four (4) designated water monitoring stations. Their locations are shown in *Tables 4-1 and 4-2* and geographically in *Appendix C*.
- 4.02 Owing to the residents' refusal of providing access to the designated air and noise locations, an alternative air and noise monitoring station was proposed and was approved by EPD (Ref: (2) EP2/N9/F/93 IV) on 14 July 2005. The approved alternative air and noise station is located at the abutment (Portion P) within the site boundary next to the sensitive receiver Sea Crest Villa.

Table 4-1	Location of Air Q	uality and Noise	Monitoring Station
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Station ID	Description
AN1	Abutment at Portion P next to Sea Crest Villa

 Table 4-2
 Locations of Water Quality Monitoring Stations

	Station	Description	Easting	Northing
ſ	W1	Predicted Dredging Non-Impact Zone	821279.0	816452.1
	W2	Live Coral Area	821573.2	816769.7
	C1	Control Station	821919.0	817155.0
	C2	Control Station	821443.2	816257.4

4.03 The installation of a wind monitoring station at the sensitive receivers or site offices was confirmed impractical. Use of meteorological data provided by the Peng Chau Station of the Hong Kong Observatory (HKO) has been adopted in this project since September 2005.

MONITORING FREQUENCY AND PERIOD

1-Hr TSP Monitoring

4.04 All 1-Hr TSP monitoring was conducted at the EPD-approved alternative station three times every 6 days. A total of 18 monitoring events were carried out in this reporting month.

24-Hr TSP Monitoring

4.05 All 24-Hr TSP monitoring was conducted at the EPD-approved alternative station once every six days. A total of 6 monitoring events were carried out in this reporting month.

Noise Monitoring

4.06 Impact noise monitoring was undertaken at the EPD-approved alternative station weekly. A total of 6 monitoring events were carried out in this reporting month.

Marine Water Quality Monitoring

4.07 The marine water quality monitoring was undertaken at the designated stations 3 days a week during mid ebb and mid flood tides. A total of 13 monitoring days were undertaken in this reporting month.

MONITORING EQUIPMENT

4.08 The monitoring equipment used by the ET in the EM&A program is presented in the following table:

Table 4-3	Monitoring Equipment Used in EM&A Program
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Parameters		Monitoring Equipment					
	Dissolved Oxygen	YSI 85					
Marine Quality	Temperature	YSI 85					
	Turbidity	HACH 2100P					
Air Quality	1-Hr TSP	Sibata LD-3					
All Quality	24-Hr TSP	Tisch High Volume Sampler 515N					
Noise	Leq30	B&K Type 2238					
NOISE	On-site Calibration	B&K Type 4231					

24-Hr TSP Monitoring

- 4.09 24-Hr TSP monitoring was carried out by a High volume sampler (HVS) in compliance with the project EM&A Manual. The HVS employed complied with the PS specifications including.
 - Power supply of 220v/50 hz for 24-hour continuous operation;
 - 0.6-1.7 m³/min (20-60 SCFM) adjustable flow rate;
 - A 7-day mechanical timer for 24-hour operation;
 - An elapsed time indicator with ± 2 minutes accuracy for 24-Hr operation;
 - Minimum exposed area of 63 in²;
 - Flow control accuracy of ±2.5% deviation over 24-Hr operation;
 - An anodized aluminum shelter to protect the filter and sampler;
 - A motor speed-voltage control to control mass flow rate with accuracy of ±2.5% deviation over 24-hr sampling period;
 - Provision of a flow recorder for continuous monitoring;
 - Provision of a peaked roof inlet;
 - Incorporation with a manometer; and
 - An 8"x10" stainless steel filter holder to hold, seal and easy to change the filter paper.
- 4.10 The filter papers used in 24-Hr TSP monitoring were of size 8"x10" and provided by a local HOKLAS-accredited laboratory, ALS Techichem Pty (HK) Limited (HOKLAS No. 66). The filters papers after measurements were returned to the laboratory for the required treatment and analysis.

1-Hr TSP Monitoring

4.11 Measurements of 1-Hr TSP monitoring were taken by a Sibata LD-3 Laser Dust Meter that is a portable and battery-operated laser photometer capable of performing real time 1-Hr TSP measurements. A comparison test with HVS was carried out prior to baseline monitoring in compliance with the EM&A requirements and a conversion factor for direct reading of the dust meter has been established.

WIND DATA MONITORING

4.12 The installation of a wind monitoring station at the sensitive receivers or site offices was confirmed impractical. The meteorological data for this project has been provided by the Hong Kong Observatory (HKO) Peng Chau Station upon IEC & EPD approval.

Noise Monitoring

- 4.13 Noise measurements were taken in terms of the A-weighted equivalent sound pressure level (Leq) measured in decibels (dB). Supplementary statistical results such as L_{10} and L_{90} were also obtained for reference.
- 4.14 Hand-held sound level meters (B&K Model 2238) and associated acoustical calibrators in compliance with the International Electrotechnical Commission (IEC) Publication 651:1979 (Type 1) and 804:1985 (Type 1) specification were used for taking the baseline noise measurements.
- 4.15 Windshield was fitted in all measurements. All noise measurements were made with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq).
- 4.16 No noise measurement was made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s.

Marine Water Quality Monitoring

- 4.17 The marine water quality monitoring was carried out in compliance with the project EM&A requirements. Monitored parameters include Dissolved Oxygen (DO), Temperature, Turbidity, Salinity, pH, Suspended Solids (SS) and Total Inorganic Nitrogen (TIN).
- 4.18 DO, temperature, turbidity, pH and salinity were measured in-situ whereas SS and TIN were determined in a HOKLAS accredited laboratory.
- 4.19 Marine water quality monitoring was conducted during mid-ebb and mid-flood at specified depths in compliance with the project EM&A Manual. Duplicate in-situ measurements were taken and duplicate samples were collected in accordance with HOKLAS requirements for QA/QC purposes.

LABORATORY MEASUREMENT/ANALYSIS

4.20 Analyses of SS, TIN and ammonia nitrogen were carried out by a local HOKLAS- accredited laboratory, ALS Techichem Pty (HK) Limited (HOKLAS No. 66). The specified testing services provided by ALS as shown in Table 4-4 are accredited under the HOKLAS Scheme.

Table 4-4	Analytical Methods applied to Marine Water Quality Samples
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Determinant	Standard Method	Detection Limit
Suspended solids (mg/L)	ALS Method EA-025	2.0 mg/L
Total Inorganic Nitrogen (mg/L)	ALS Method EK-055A	0.01 mg/L
Ammonia Nitrogen (mg/L)	ALS Method EK-055A	0.01 mg/L

EQUIPMENT CALIBRATION

- 4.21 Initial calibration of the HVS was performed upon installation and thereafter at bi-monthly intervals in accordance with the manufacturer's instruction using the NIST-certified standard calibrator. The calibration data are properly documented and the records are maintained by ET for future reference.
- 4.22 The 1-Hr TSP meter was calibrated by the supplier prior to purchase. Zero response of the equipment is checked before and after each monitoring event. A comparison test was carried out with a HVS. A conversion factor (K) of 4.0 was generated in accordance with the equipment manufacturer's instruction. The meter counts in minutes multiplied by the conversion factor will generate the equivalent dust concentration by HVS.
- 4.23 The sound level meters are calibrated using an acoustic calibrator prior to and after measurements. The meters are regularly calibrated in accordance with the manufacturer's instructions. Prior to and following each noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements are considered valid only if the calibration levels before and after the noise measurement agree to within 1.0 dB.
- 4.24 All in-situ water monitoring instruments are checked, calibrated and certified by a HOKLAS accredited laboratory before use and subsequently re-calibrated at 3-monthly intervals. Responses of sensors and electrodes are checked with standard solutions before each use.
- 4.25 The calibration certificates of the monitoring equipment used during the impact monitoring program are attached in *Appendix D*.

DATA MANAGEMENT AND DATA QA/QC CONTROL

- 4.26 The impact monitoring data are handled by the ET's systematic data recording and management, which complies with in-house certified (ISO 9001:2000) Quality Management System. Standard Field Data Sheets (FDS) are used in the impact monitoring program.
- 4.27 The monitoring data recorded in the equipment eg. 1-Hr TSP meters and noise meters are downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data are input into a computerized database properly maintained by the ET. The laboratory results are input directly into the computerized database and QA/QC checked by personnel other than those who input the data.
- 4.28 For monitoring activities require laboratory analysis, the local laboratory follows the QA/QC requirements as set out under the HOKLAS scheme for all laboratory testing.

5.0 IMPACT MONITORING RESULTS

5.01 The impact EM&A program was carried out by the ET in compliance with the project EM&A Manual in this reporting month. The impact monitoring schedules are presented in *Appendix E* and the monitoring results are detailed in the following sub-sections.

AIR QUALITY

5.02 The impact air quality monitoring data is summarized in *Tables 5-1*. Graphical plots of the 24-Hr TSP and 1-Hr TSP results are shown in *Appendix F* respectively.

	24-Hr TSP	1-Hr TSP (ug/m³)						
Date	(ug/m ³)	Start Time	1 st TSP Measurement	2 nd TSP Measurement	3 rd TSP Measurement			
29-Apr-06	56	29-Apr-06	09:49	187	140			
4-May-06	111	4-May-06	09:51	187	176			
8-May-06	19	8-May-06	13:02	56	48			
13-May-06	93	13-May-06	09:52	237	279			
18-May-06	53	18-May-06	10:08	53	60			
24-May-06	34	24-May-06	13:09	331	228			
Action Level	163	-	346					
Limit Level	260	-	500					

 Table 5-1
 Summary of 24-Hr and 1-Hr TSP Monitoring Results

* Exceedances are in bold.

- 5.03 No exceedance in 1-Hr TSP and 24-Hr TSP measurements was recorded in this reporting month.
- 5.04 The meteorological data during the monitoring period are summarized in *Appendix G*.

Noise

5.05 The impact noise monitoring results are summarized in *Table 5-2*. Graphical plots of the monitoring data are presented in *Appendix F*.

Table 5-2 Summary of Noise Monitoring Results

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	Leq30	Corrected* Leq30
29-Apr-06	09:48	53.2	54.7	50.1	52.2	50.6	48.9	52.1	55.1
4-May-06	09:50	49.1	77.1	71.3	56.6	61.2	59.8	70.5	73.5
8-May-06	11:06	50.3	64.7	63.8	54.8	59.9	61.2	61.3	64.3
13-May-06	09:52	50.1	49.9	49.5	50.3	54.3	56.2	52.6	55.6
18-May-06	10:07	59.6	63.1	64.2	60.3	61.2	60.9	61.9	64.9
24-May-06	11:13	52.7	54.6	56.0	55.7	53.2	54.2	54.6	57.6
Limit Level -					-	75			

* A façade correction of +3 dB(A) has been added according to acoustical principles and EPD guidelines.

MARINE WATER QUALITY

5.06 The impact water monitoring results are presented in *Appendix H* and the graphical plots of are presented in *Appendix I*. *Table 5-3* presents the total number of exceedance for dissolved oxygen, turbidity, suspended solids and TIN at each sensitive receiver for the month.

Station	Exceedance	ſ	00	Tur	bidity	9	SS	Ν	IH ₃	٦	ΓΙΝ
	Level	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
W1	Action	0	0	0	0	0	0	3	2	0	0
VVI	Limit	0	0	0	0	0	0	1	1	1	1
W2	Action	0	0	0	0	0	0	3	1	1	0
VVZ	Limit	0	0	0	0	0	0	1	1	1	1
Total	Action	0	0	0	0	0	0	6	3	1	0
Total	Limit	0	0	0	0	0	0	2	2	2	2

 Table 5-3
 Summary of Exceedances for Marine Water Quality

* Exceedances are in bold.

- 5.07 There were 8 limit and 10 action level exceedances in Ammonia and TIN recorded in this reporting month.
- 5.08 All limit level exceedances in Ammonia and TIN were recorded on 6 May 2006 at W1 & W2 during ebb tide & flood tide.
- 5.09 There were totally five action-level exceedances in Ammonia measured at W1: three exceedances during ebb tide on 29 April, 2 and 4 May 2006 and two exceedances during flood tide on 29 April, and 24 May 2006.
- 5.10 There were totally four action-level exceedances in Ammonia measured at W2: three exceedances during ebb tide on 29 April, 2 May and 24 May 2006, and one exceedance during flood tide on 24 May 2006.
- 5.11 There was one action-level exceedance in TIN measured at W2 during ebb tide on 11 May 2006.
- 5.12 According to the site construction dairy provided by contractor, there were no marine works carried out on those concerned dates. The Ammonia and TIN levels measured at the control stations (C1 & C2) were also comparatively high. The ET Leader therefore considered that the exceedances were unlikely not due to the project.

6.0 WASTE MANAGEMENT

6.01 A joint site audit with IEC was performed on 19 May 2006 in this reporting month. The results and findings for the audit are presented below.

RECORDS OF WASTE QUANTITIES

- 6.02 All types of waste arising from the construction work are classified into the following:
 - Excavated material;
 - Construction & demolition (C&D) material;
 - Chemical waste; and
 - General refuse.
- 6.03 The quantities of waste for disposal in this reporting month are summarized in **Tables 6-1** and **6-2.** Whenever possible, materials were reused on-site as far as practicable.

 Table 6-1
 Summary of Quantities of Waste for Disposal

Type of Waste	Quantity	Disposal Location
Excavated Material (Spent lube oil) (Liters)	-	N/A
Empty Site Vehicle Batteries (Nos.)	-	N/A
Excavated material (Uncontaminated) (m ³)	334.31	Peng Chau Transfer Facility
Broken Rock (m ³)	-	Peng Chau Transfer Facility
Construction & Demolition Material (Inert) (tons)	5.20	Peng Chau Transfer Facility
Construction & Demolition Material (Non-Inert) (tons)	-	N/A
Asbestos C&D Materials (m ³)	-	N/A
Chemical Waste (Liters)	-	N/A
Wastewater Collected for Off-site Treatment (m ³)	-	N/A
General Refuse (tons)	-	Peng Chau Transfer Facility
Dredged Materials (m ³)	-	N/A

Table 6-2 Summary of Quantities of Recycling Materials

Type of Waste	Quantity	Disposal Location
Recycled Metal (kg)	-	NA
Recycled Paper (kg)	-	NA
Recycled Plastic (kg)	-	NA

7.0 SITE INSPECTION

- 7.01 Representatives of the Engineer and the Contractor carried out joint site inspection every week to evaluate the site environmental performance. A monthly audit with representatives of RE, Contractor, IEC and ET was carried out on 19 May 2006. No non-compliance was noted and some observations were made on general site housekeeping.
- 7.02 The following presents the observations and recommendations made during the audit:
 - The contractor was reminded to fit a copy of Noise Emission Label on the hand-held breaker of weight larger than 10 kg under Noise Control Ordinance.
 - The contractor was reminded to install the shelter for the concrete mixers when they are in-use;
 - The Contractor was reminded to properly treat the wastewater satisfying the discharge standards before discharging.
 - As advised by the Contractor, no truck would go outside the site boundary and the trucks would be well washed before running on the paved road on site.
 - The Contractor was reminded to provide impervious sheeting or spraying for the soil/rock stockpiles.

8.0 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

ENVIRONMENTAL COMPLAINT AND PROSECUTION

- 8.01 No environmental complaint was received in this reporting month. A statistical summary table of any complaint details is presented in *Table 8-1*.
- 8.02 No prosecution and summon was received in this reporting month.

Table 8-1	Statistical Summary	y of Environmental Complaints
-----------	---------------------	-------------------------------

Reporting Month	Complaint Statistics					
Reporting Month	Frequency	Cumulative	Complaint Nature			
August – December 2005	0	0	NA			
January 2006	0	0	NA			
February 2006	0	0	NA			
March 2006	0	0	NA			
April 2006	0	0	NA			
May 2006	0	0	NA			

9.0 IMPLEMENTATION STATUS OF MITIGATION MEASURES

- 9.01 AAJV has been implementing the required environmental mitigation measures according to the project Mitigation Implementation Schedule. The implementation schedule with mitigation measures is presented in the First Impact EM&A report.
- 9.02 A summary of environmental mitigation measures generally implemented by AAJV in this reporting month is presented as follows;

Water Quality

- Wastewater were appropriately treated by treatment facilities;
- Drainage channels were provided to convey run-off into the treatment facilities;
- Drainage systems were regularly and adequately maintained.

Landscaping

- Tree protection measures were provided to existing trees;
- No tree was unnecessarily lopped or felled.

Air Quality

- Vehicles were cleaned of mud and debris before leaving the site;
- Site vehicles were limited to within 15 km/hr;
- Public roads around the site entrance/exit had been kept clean and free from dust;
- There were no dark/black smoke emissions from any equipments including site vehicles and generators;
- Dust suppression measures were properly provided to reduce dust emission from stockpile.

<u>Noise</u>

- Works and equipment were located to minimise noise nuisance from the nearest sensitive receiver;
- Idle equipments were either turned off or throttled down;
- Some of the Powered Mechanical Equipments were covered or shielded by appropriate acoustic materials if practicable.

Waste and Chemical Management

- Wastes were properly segregated into inert and non-inert in appropriate containers/areas;
- Excavated materials were reused where practicable.
- A chemical waste storage area had been provided on site;

<u>General</u>

• The site was generally kept tidy and clean.

10.0 IMPACT FORECAST

KEY ISSUES FOR THE COMING MONTH

- 10.01 Key issues to be considered in the coming month include:
 - Implementation of dust suppression measures at all times;
 - Potential marine water quality impact due to construction works near the seafront;
 - Potential marine water quality impact due to rainy season (April to October) for avoiding untreated runoff discharging to the sea;
 - Disposal of empty engine oil containers within site area;
 - Ensure dust suppression measures are implemented properly;
 - Sediment catch-pits and silt removal facilities should be regularly maintained;
 - Management of chemical wastes;
 - Follow-up of improvement on general waste management issues; and
 - Implementation of construction noise preventative control measures.
- 10.02 A 3-month rolling program is presented in *Appendix J*.

11.0 CONCLUSION

11.01 The EM&A program in May 2006 was undertaken in compliance with the EM&A manual for the Peng Chau Sewage Treatment Works Upgrade. A summary of environmental compliance for air, noise and water quality in this reporting month is presented as follows:

Env. Quality	Parameters	Compliance %	Investigation & Corrective Actions	
Air Quality	1-hour TSP	100	Not Required for 100% Compliance	
All Quality	24-hour TSP	100	Not Required for 100% Compliance	
Noise	Leq (30min) Daytime	100	Not Required for 100% Compliance	
	Suspended Solids	100	Not Required for 100% Compliance	
	Turbidity	100	Not Required for 100% Compliance	
	Dissolved Oxygen	100	Not Required for 100% Compliance	
Water Quality	Ammonia	100	Not Required for Non Project-Related	
			Exceedances	
	TIN	100	Not Required for Non Project-Related	
			Exceedances	

Summary of Monitoring Exceedances

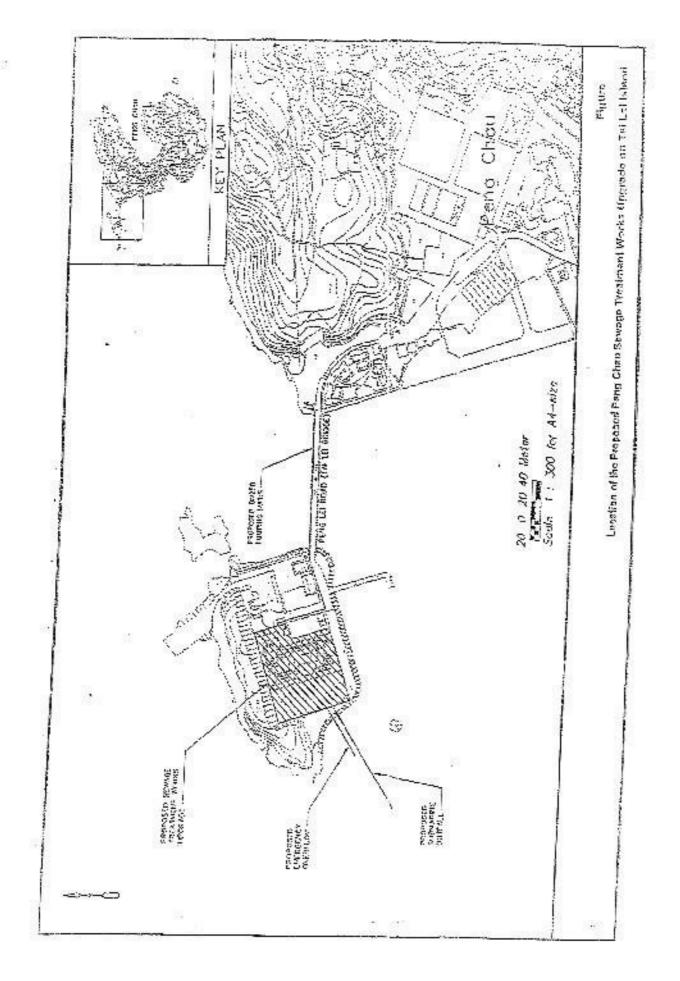
- 11.02 No exceedance in 1-Hr TSP and 24-Hr TSP measurements was recorded in this reporting month.
- 11.03 All noise levels measured at AN1 were below the Limit level and no complaint was received in this reporting month.
- 11.04 There were 8 limit and 10 action level exceedances in Ammonia and TIN recorded in this reporting month.
- 11.05 According to the site construction dairy provided by contractor, there were no marine works carried out on those concerned dates. The Ammonia and TIN levels measured at the control stations (C1 & C2) were also comparatively high. The ET Leader therefore considered that the exceedances were unlikely not due to the project.
- 11.06 No environmental complaint or summon was received in this reporting month.

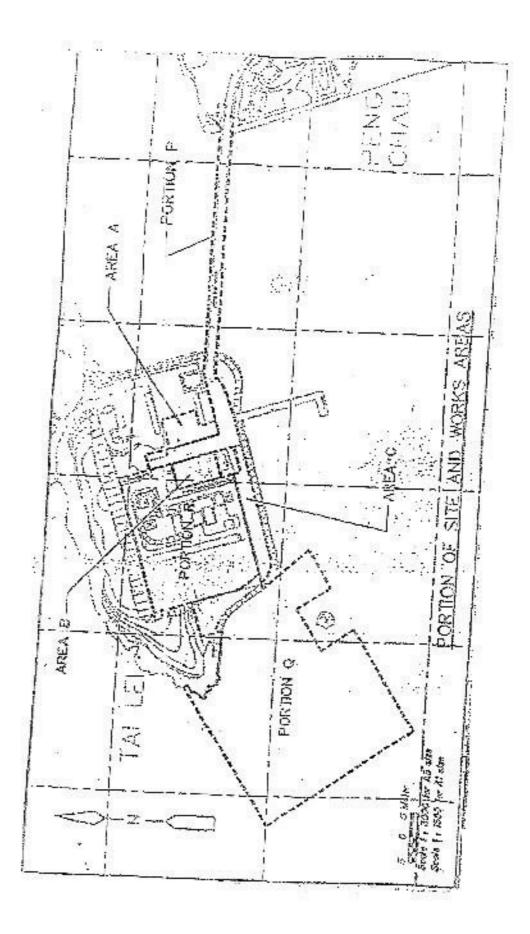
RECOMMENDATIONS

- 11.07 Based on the joint site inspection records on 19 May 2006, the following key recommendations are pertinent:
 - The contractor was reminded to fit a copy of Noise Emission Label on the hand-held breaker of weight larger than 10 kg under Noise Control Ordinance.
 - The contractor was reminded to install the shelter for the concrete mixers when they are in-use;
 - The Contractor was reminded to properly treat the wastewater satisfying the discharge standards before discharging.
 - As advised by the Contractor, no truck would go outside the site boundary and the trucks would be well washed before running on the paved road on site.
 - The Contractor was reminded to provide impervious sheeting or spraying for the soil/rock stockpiles.
- 11.08 The ET will continue to implement the EM&A program and audit the implementation of the environmental mitigation measures.

Appendix A

Project Site Layout





Appendix B

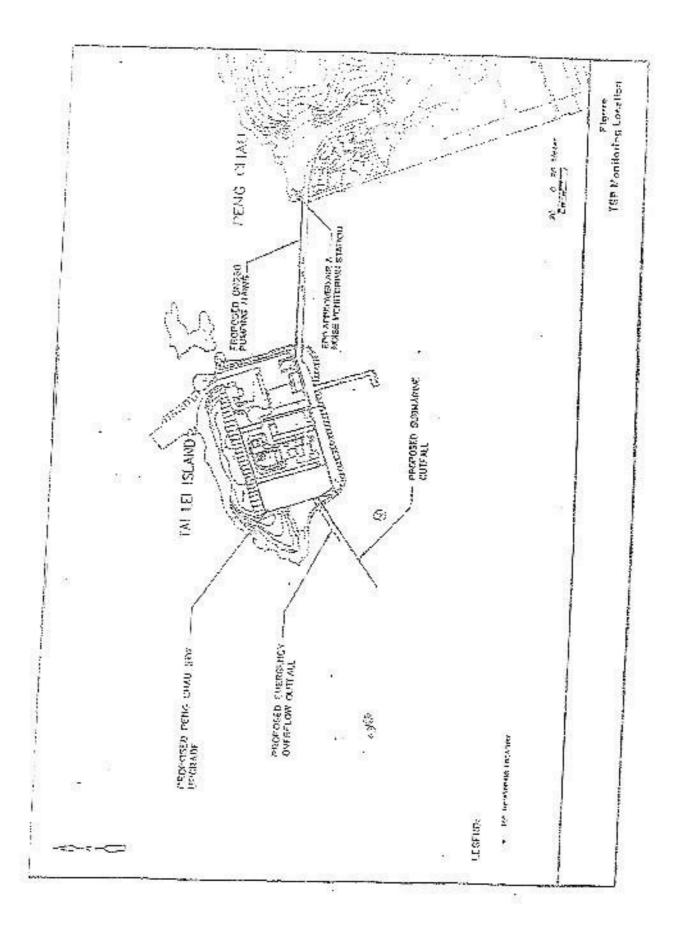
Environmental Organization Structure

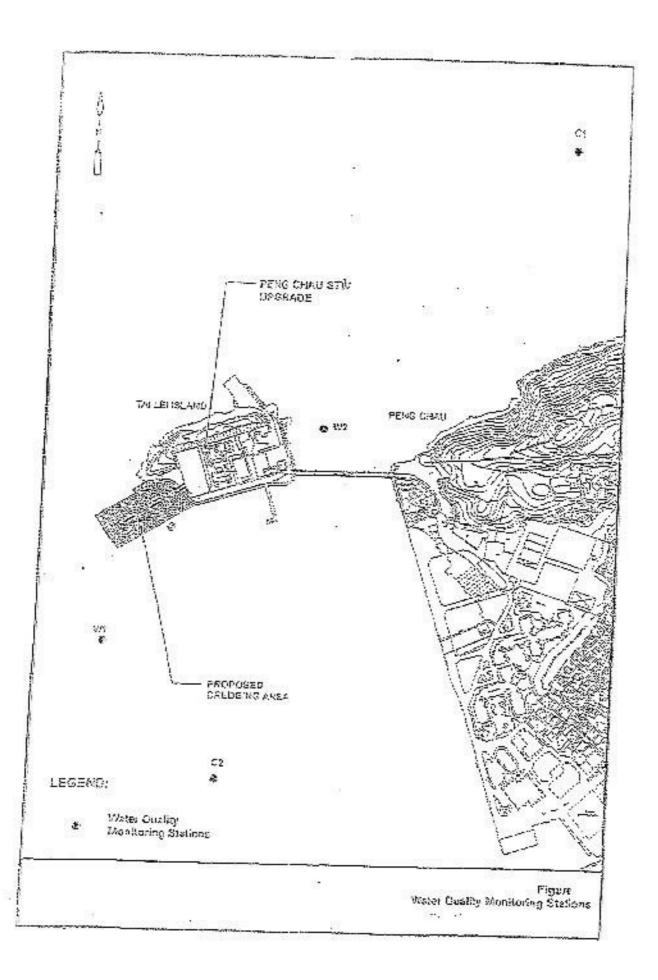
Organization	Project Role	Designation	Name of Key Staff	Tel No.	Fax No.
DSD	Employer	Permit Holder	Ir David Leung	2594-7281	2827-8526
		Project Engineer	Mr. Stephen Ng	2428-2332	2424-9114
CDM	Engineer's Representative	Resident Engineer	Mr. Alfred Cheung	2983-9303	2983-9843
		ARE	Mr. Alex Yeung	2983-9303	2983-9843
DMT Asia	BMT Asia Independent Environmental Checker	IEC Mr. Antony Wong		2815-2221	2815-3377
BMT Asia		IEC'S Representative	Mr. Benny Ng	2815-2221	2815-3377
Acciona-ATAL	Main Contractor	Project Manager	Mr. William Chan	2983-0092	2983-0381
ACCIONA-ATAL	Main Contractor	Site Agent	Mr. Mingo Li	2983-0092	2983-0381
AUES	Contractor's	Environmental Team Leader (ETL)	Mr. Cliff Lam	2959-6059	2959-6079
AUES	Environmental Team	Project Supervisor	Mr. Benjamin Tam	2959-6059	2959-6079

Contact Details of Key Personnel

Appendix C

Locations of Designated Monitoring Stations





Appendix D

Equipment Calibration Certificates

Equipment Calibration List for Peng Chau Sewage Treatment Works Upgrade Project

Note: Calibration certificates will only be provided if monitoring equipment is re-calibrated or new.

Item	Aspect	Description of Equipment	Serial No.	Date of Calibration	Date of Next Calibration
1*	Greasby Anderson GMWS2310 High Volume Sampler		AN1	8 May 06	7 Aug 06
2	All	Sibata LD-3	362337	22 Jun 05	21 Jun 06
3	Noico	Bruel & Kjaer 4231 Acoustical Calibrator	2292167	13 Apr 06	12 Apr 07
4	Noise	Bruel & Kjaer 2238 Integrating Sound Level Meter	2285762	8 Jul 05	7 Jul 06
5*	Mator	YSI Model 550A	05F2063AZ	8 May 06	7 Aug 06
6	Water	Hach Turbidimeter 2100P	981200020015	27 Feb 06	26 May 06

* Calibration done in this reporting month, see calibration certificate attached.

** The equipment is borrowed from ALS Laboratory

eference:	
Calibration of DO System	
Item : YSI DO Meter	ether E
Model No. ; SAZET	
Serial No. : 97/F0037AM	
Celipration Method : This moter	This metiar was califorated in accordance with standard method. AFNA (faith Figh Figh Cal) Actor.c.s. c
Date of Calibration : 08 May, 2006	900
Testing Results ;	
Expected Reading	Recording Reading
0.00 mgA. 4.97 mgA. 6.23 mgA. 7.73 mgA	0.00 mg/L 1.00 mg/L 1.01 mg/L 7.71 mon
Allowing Deviction	-'080 2.0tc

5301 : 1

FAK NO. :

May. 18 2026 05:10PM P4/10

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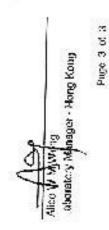
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HK61864 0 ACTIOM-UNITED ENVIPO SERVICES Batch: Sub Batch ; Date of Issue: Client: Client Reference:

Calibration of Thermometer

llern :	YSI DO Meter
More' No. ;	5/12/FT
Señal No. ;	9/F0337AM
Ca tration Method ;	In-house Method

Recorded Temperaturo (*C)	20.1 °C 30.1 °C
Rolerence Yonparature (*C)	20.3 °C 28.9 °C



ALS Technichem (HK) Pty Ltd

• :

ALS Environmental

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location I Location I	Feng Ch D :	au AN1				Next Calib	Calibration: 8-May-06 ration Date: 7-Aug-06 Technician: Mr. Ben Tam	
					CONDI	TIONS		232
Sea Lovel Pressure (hPa) Temperature (°C)					1011.3 28.5		Corrected Pressure Temperature	
1				C	ALIBRATIC	N ORIFICE		
				Make-> Model-> Seria: # ->	TISCH 515N]	Qstd Siope -⇒ Ostd Intercept ->	1.94872 0.00202
					CALIBR	ATION		
Piate	H20 (L)	H2O (R)	H20	Qstd	1	IC	LINEA	P
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRES	
18	4.7	47	S.4	4.552	53	55.29		47.9706
13	4.2	4.Z	8.4	1.476	48	47.40	Intercept =	
10	3.6	3.8	7.2	1.357	43	42.48	Corr. cceff. =	
7	2.5	2.5	5	1.139	33	32.58	controdent.	0 3000
5	1.1	1.1	2.2	0.755	15	14.81	19 December 19	
Calculatio Qstd = 1/n C = i[Sert		(Pa/Pstd)(Tstd/Ta)]	Tstd/Ta))-b]	80 30	,	FLOW RATE CHART	
Qstd = sta C = correc = actual :	ndard flow cted chart chart respo ator Gstd s	rate respones			50 00 오 로 40.00	51.	y = 47.07 1x - 21.9	12
	tor Ostd in							
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and Mor	1.10				10(420)	9		
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n = sampl s = sampl = chart re	er intercep sponso	it emperaturi	e) L 2.020	0.500 1.000 Standard Flow Rete (m3/m	1.500 2.000

Calibration Sheet

Appendix E

Impact Monitoring Schedules

Date		Dust Mo	onitoring	Noise	Marine Monitoring		
Date		1-Hr TSP	24-Hr TSP	Monitoring	Mid Ebb	Mid Flood	
26-Apr-06	Wed				17:00(17:38)	09:00(05:25)	
27-Apr-06	Thu						
28-Apr-06	Fri						
29-Apr-06	Sat				17:00(20:05)	09:00(06:55)	
30-Apr-06	Sun						
1-May-06	Mon						
2-May-06	Tue				15:40(15:40)	09:00(07:59)	
3-May-06	Wed						
4-May-06	Thu				17:00(17:26)	09:00(04:54)	
5-May-06	Fri						
6-May-06	Sat				17:00(19:40)	09:00(07:13)	
7-May-06	Sun						
8-May-06	Mon				10:19(10:19)	15:37(15:37)	
9-May-06	Tue						
10-May-06	Wed						
11-May-06	Thu				11:34(11:34)	09:00(05:09)	
12-May-06	Fri						
13-May-06	Sat				12:29(12:29)	09:00(05:51)	
14-May-06	Sun						
15-May-06	Mon				13:35(13:35)	09:00(06:39)	
16-May-06	Tue						
17-May-06	Wed						
18-May-06	Thu				16:02(16:02)	09:00(08:10)	
19-May-06	Fri						
20-May-06	Sat				17:00(18:07)	09:00(05:38)	
21-May-06	Sun						
22-May-06	Mon				09:00(08:53)	14:07(14:07)	
23-May-06	Tue						
24-May-06	Wed				10:26(10:26)	16:34(16:34)	
25-May-06	Thu						

Impact Monitoring Schedules – May 06

** Time in bracket denotes the mid-ebb and mid-flood time according to tides at Chi Ma Wan

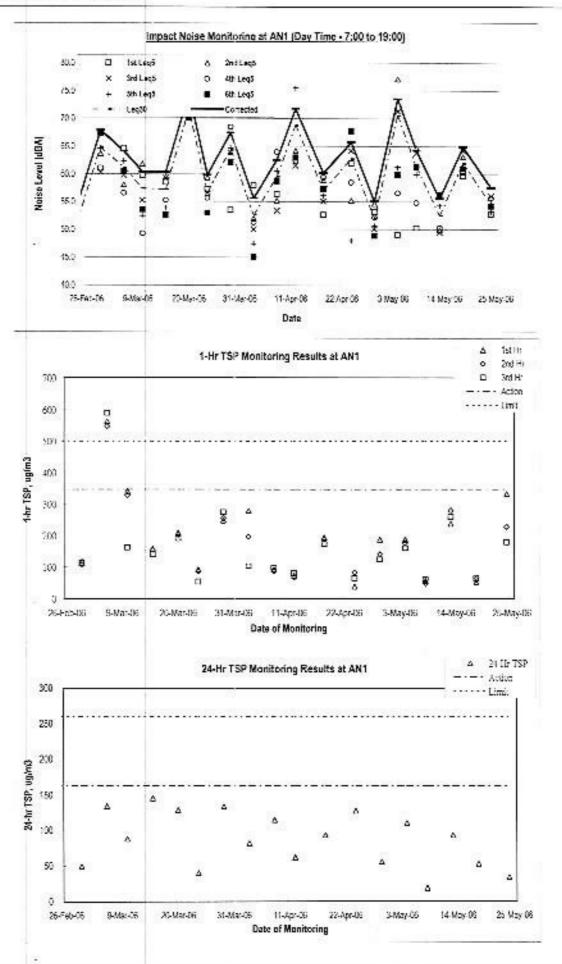
Date		Dust Mo	onitoring	Noise	Marine Monitoring		
Date		1-Hr TSP	24-Hr TSP	Monitoring	Mid Ebb	Mid Flood	
26-May-06	Fri				11:44(11:44)	09:00(05:05)	
27-May-06	Sat						
28-May-06	Sun						
29-May-06	Mon				13:50(13:50)	09:00(06:35)	
30-May-06	Tue						
31-May-06	Wed						
1-Jun-06	Thu				15:04(16:04)	09:00(07:57)	
2-Jun-06	Fri						
3-Jun-06	Sat				16:23(17:23)	09:00(05:04)	
4-Jun-06	Sun						
5-Jun-06	Mon				09:00(08:13)	12:05(13:05)	
6-Jun-06	Tue						
7-Jun-06	Wed				09:53(09:53)	15:02(16:02)	
8-Jun-06	Thu						
9-Jun-06	Fri				10:51(10:51)	09:00(03:55)	
10-Jun-06	Sat						
11-Jun-06	Sun						
12-Jun-06	Mon				12:38(12:38)	09:00(05:24)	
13-Jun-06	Tue						
14-Jun-06	Wed				13:17(14:17)	09:00(06:51)	
15-Jun-06	Thu						
16-Jun-06	Fri				14:59(15:59)	09:00(08:42)	
17-Jun-06	Sat						
18-Jun-06	Sun						
19-Jun-06	Mon				09:00(07:07)	11:20(12:20)	
20-Jun-06	Tue						
21-Jun-06	Wed				09:11(09:11)	14:20(15:20)	
22-Jun-06	Thu						
23-Jun-06	Fri				10:44(10:44)	09:00(03:40)	
24-Jun-06	Sat						
25-Jun-06	Sun						

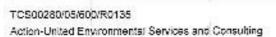
Impact Monitoring Schedules – June 06

** Time in bracket denotes the mid-ebb and mid-flood time according to tides at Chi Ma Wan

Appendix F

Graphical Plots of Air and Noise Monitoring Results





Appendix G

Monthly Meteorological Data

				F	eng Chau We	ather Station	
Date		Weather	Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
26-Apr-06	Wed	cloudy/ moderate/ sunny/ showers	8	25.7	15	95	S
27-Apr-06	Thu	cloudy/ showers/ moderate/ thunderstorms	11.9	25.9	15	95	S/SW
28-Apr-06	Fri	cloudy/ rain/ moderate	66	23.3	20	95	E
29-Apr-06	Sat	cloudy/ rain/ moderate	1.6	21.3	5	95	NW/N
30-Apr-06	Sun	sunny/ showers	-	-	-	-	-
1-May-06	Mon	sunny/ showers	-	27.9	14	90	SW
2-May-06	Tue	cloudy/ showers/ moderate	70.1	26	8	95	S/SW
3-May-06	Wed	cloudy/ rain/ moderate/ thunderstorms	108.2	22.2	35	95	Е
4-May-06	Thu	cloudy/ misty/ bright/ moderate	0.2	24	35	90	Е
5-May-06	Fri	sunny/ showers	1.3	26.4	16	95	SE/S
6-May-06	Sat	fine/ hot/ moderate	-	26.9	10	95	S/SE
7-May-06	Sun	fine/ hot/ showers	-	27.8	10	80	SE/S
8-May-06	Mon	moderate/ fine/ hot/ showers	-	28	12	95	S
9-May-06	Tue	fine/ hot/ moderate	-	27.3	12	90	S/SW
10-May-06	Wed	fine/ hot/ moderate	-	28.2	10	90	S/SW
11-May-06	Thu	cloudy/ moderate/ sunny/ showers	Trace	27.8	35	90	E
12-May-06	Fri	cloudy/ sunny/ moderate	Trace	26.5	35	85	E
13-May-06	Sat	cloudy/ haze/ moderate	Trace	27.8	6	90	W/NW
14-May-06	Sun	sunny	Trace	25.3	18	60	E
15-May-06	Mon	cloudy/ moderate/ showers/ sunny	Trace	24.2	21	60	NW/N
16-May-06	Tue	moderate/ cloudy/ showers	1.6	23.4	21	65	NW/N
17-May-06	Wed	gale/ cloudy/ showers	15	21.5	55	90	NW/N
18-May-06	Thu	fine/ moderate	Trace	25.2	55	65	NW/N
19-May-06	Fri	sunny/ dry/ fine/ moderate	-	25	12	85	S
20-May-06	Sat	cloudy/ rain/ moderate	1.0	24.8	15	85	Е
21-May-06	Sun	cloudy/ rain	69.7	23.9	25	95	E/SE
22-May-06	Mon	showers/ cloudy/ thunderstorms	22.9	25.1	9	95	S
23-May-06	Tue	cloudy/ showers/ thunderstorms	30.9	24.7	6	95	W/NW
24-May-06	Wed	cloudy/ mist/ rain/ moderate	0.5	25.4	10	95	SE/S
25-May-06	Thu	cloudy/ sunny/ moderate	-	26.3	9	90	SE

Appendix H

Marine Water Quality Monitoring Results

Metric Increase (0)	12.50		Ì		and the second second		ŀ							t				ŀ							I				ŀ	l			ŀ	l	l	
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0 1^{0} 0^{0}	5	LESC /RC	Star Line	-Surface	-		222	-	1.1	H.	-		28	- 14	30	24 - 24	33	813	1000	22	:	9	ş	32	1	ð	- 100	8		X 35 L	3	(2) L3	100	1	ä	27
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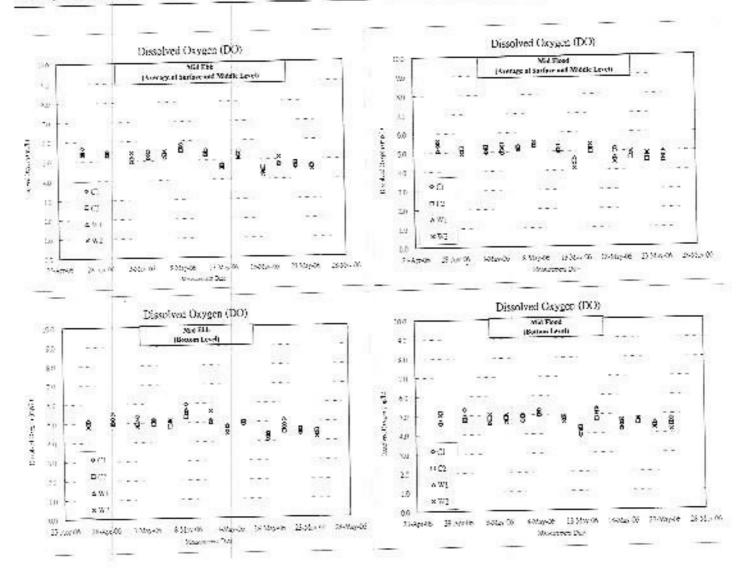
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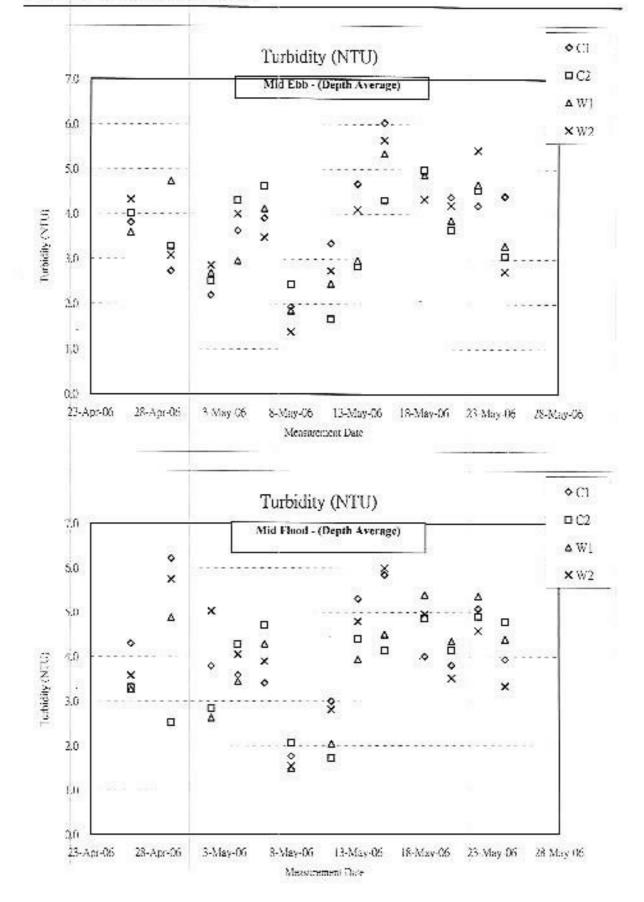
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Appendix I

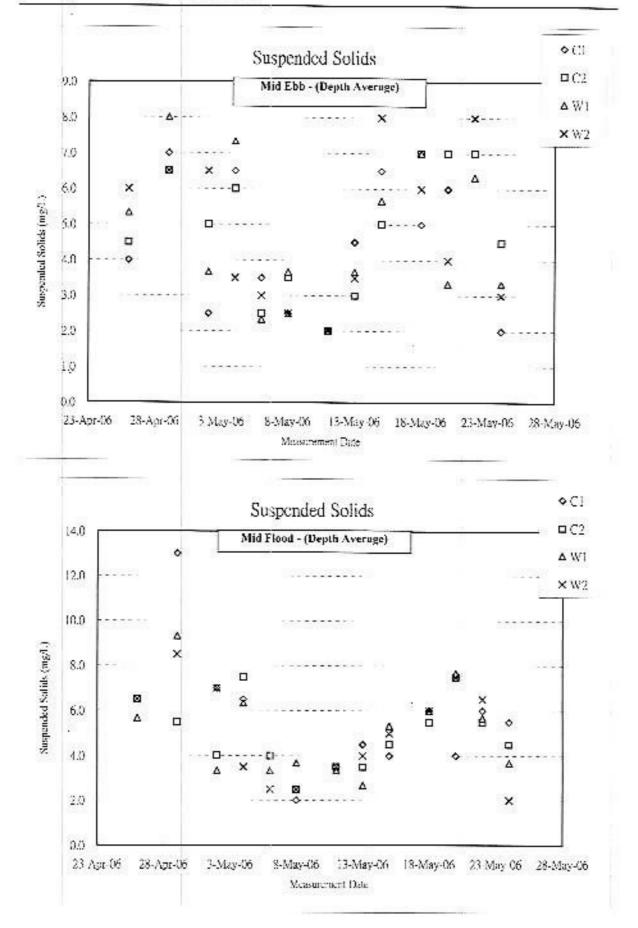
Graphical Plots of Water Monitoring Results

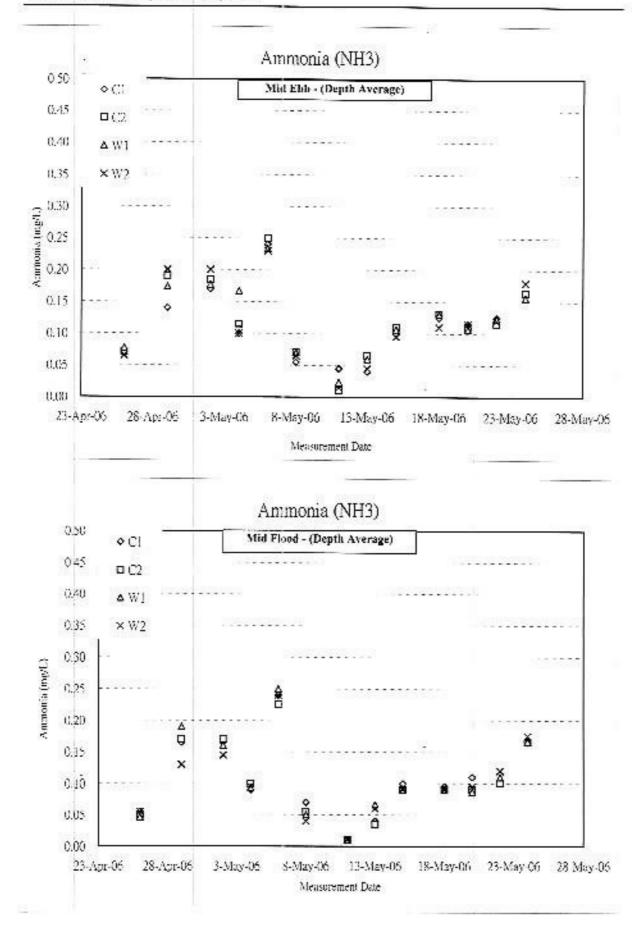


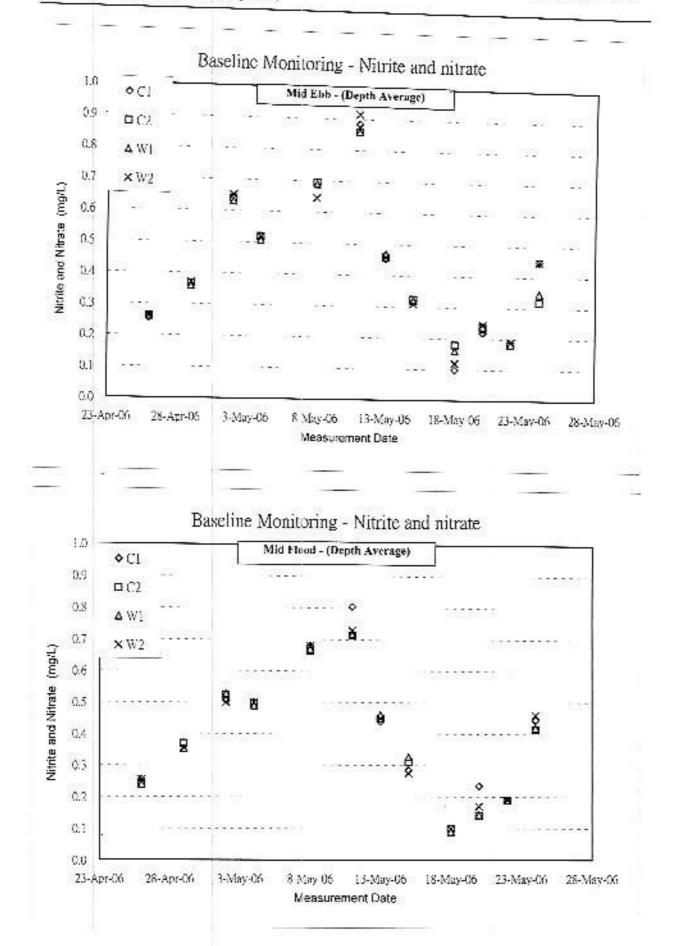


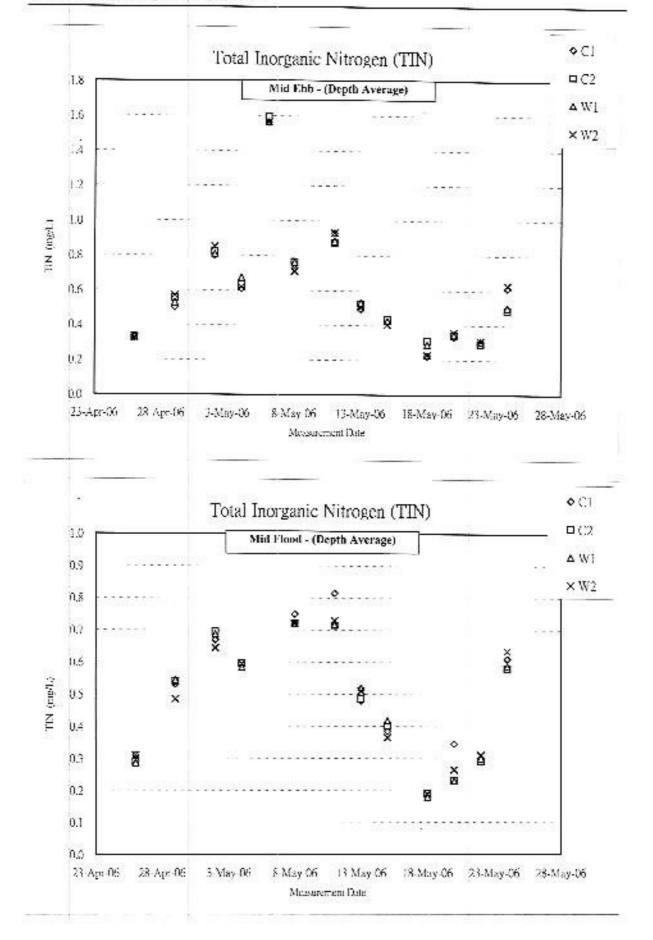






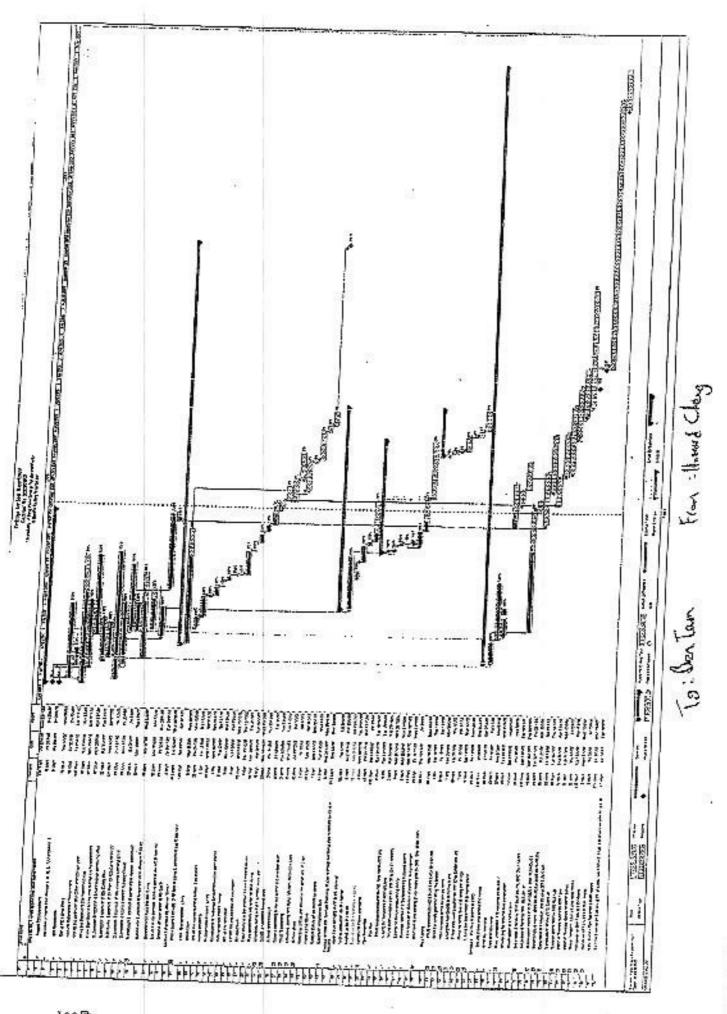






Appendix J

Three-Month Rolling Program



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