CWE-ZHEC Joint Venture

Contract No. CV/2004/03 – Maintenance and Repairs to Franchised and Licensed Ferry Pier (2005-2008) Construction of Yung Shue Wan Helipad – Works Order No. YSW/01/03

Environmental Monitoring and Audit Monthly Report (Version 1)

February 2008

Certified By	Environment	al Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

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ABBREVIATION AND ACRONYM

AL Levels	Action and Limit Levels
CEDD	Civil Engineering & Development Department
E / ER	Engineer/Engineer's Representative
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring and Audit
EMIS	Environmental Mitigation Implementation Schedule
EP	Environmental Permit
EPD	Environmental Protection Department
ET	Environmental Team
HVS	High Volume Sampler
IEC	Independent Environmental Checker
RE	Resident Engineer
RH	Relative Humidity
TSP	Total Suspended Particulates
QA/QC	Quality Assurance / Quality Control
SLM	Sound Level Meter
WMP	Waste Management Plan

EXECUTIVE SUMMARY

Introduction

- 1. This is the 6th Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Construction of Yung Shue Wan Helipad Works order No. YSW/01/03 under Contract No. CV/2004/03" (the Project). This report documents the findings of EM&A Works conducted in February 2008.
- 2. The site activities undertaken in the reporting month included:
 - Erection of Steel Bracing
 - Setup pile load test platform

Environmental Monitoring Works

3. Environmental monitoring for the Project was performed in accordance with the updated EM&A Manual and the monitoring results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

4. Summary of the non-compliance of the reporting month is tabulated in Table I.

Table I Summary Table for Non-compliance Recorded in the Reporting Month

Parameter	No. of Ex	ceedance	No. of Exceedance Due to the Project		Action Taken	
	Action Level	Limit Level	Action Level	Limit Level	Такеп	
Noise	0	0	0	0	N/A	
Water	0	0	0	0	N/A	

Construction Noise

5. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Water Quality

6. All water quality monitoring was conducted as scheduled in the reporting month. No Action/Limit level exceedance was recorded.

Environmental Licenses and Permits

7. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, An Environmental Permit No. EP-242/2006 was issued on 13 March 2006 for this Project (EP) to the CEDD as Permit Holder.

Key Information in the Reporting Month

8. Summary of key information in the reporting month is tabulated in Table II.

Table II Summary Table for Key Information in the Reporting Month

Event	Even	nt Details Action Taken		Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A	
Status of submissions under EP	0		N/A.	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

Future Key Issues:

Major site activities for the coming two months include:

- Erection of Bracing;
- Setup Pile load test platform; and
- Pile Cap Construction.

1. INTRODUCTION

Background

- 1.1 The Project "Construction of Yung Shue Wan Helipad" (Works order No.YSWH/01/03) under Contract No. CV/2004/03 was awarded to CWE-ZHEC Joint Venture (hereinafter called the "Contractor") by the Civil Engineering and Development Department (CEDD) of the Hong Kong Special Administrative Region (HKSAR).
- 1.2 The Project has been planned and managed in-house by the Land Works Division of CEDD on behalf of the Home Affairs Department (HAD). The Project mainly comprises the construction works of a helipad used solely for emergency purpose with diameter of 25 metres and an Emergency Vehicular Access of about 25 metres long and 3.5 metres wide connecting the helipad with existing road. The general layout of the Project is shown in Figure 1.1.
- 1.3 The Project is a 'designated project' under Item B.2, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) by virtue of being: "*A helipad within 300m of existing or planned residential development*". An environmental impact assessment (EIA) report has been prepared in 2005 for the Project to consider the key issues of noise, air quality, water quality, construction waste, ecological and cultural impacts, and identify possible mitigation measures.
- 1.4 An Environmental Permit No. EP-242/2006 was issued on 13 March 2006 for this Project (EP) to the CEDD as the Permit Holder. An updated Environmental Monitoring and Audit Manual (the EM&A Manual) was prepared to fulfill requirements stipulated in Condition 2.4 of the EP.
- 1.5 Cinotech Consultants Limited was commissioned by the CWE-ZHEC Joint Venture (the Contractor) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The Updated EM&A Manual was prepared by Cinotech to fulfill the requirements of the EP. This is the 6th monthly EM&A report summarizing the EM&A works for the Project in February 2008.

Project Organizations

- 1.6 Different parties with different levels of involvement in the project organization include:
 - Project Proponent –Civil Engineering and Development Department (CEDD)
 - The Engineer of the Engineer's Representative (ER) –Civil Engineering and Development Department (CEDD)
 - Environmental Team (ET) Cinotech Consultants Limited.
 - Independent Environmental Checker (IEC) Mannings (Asia) Company Limited
 - Environmental Protection Department (EPD) Environmental Regulations Enforcer
 - Contractor CWE-ZHEC Joint Venture

- 1.7 The responsibilities of respective parties are detailed in Sections 1.21 to 1.38 of the Updated EM&A Manual of the Project.
- 1.8 The key contacts of the Project are shown in Table 1.1 and the organization chart of ET is shown in Figure 2.1.

Party	Role	Name	Position	Phone No.	Fax No.
CEDD	Permit Holder	Mr. K.S Cheng	Engineer	2762 5455	2714 2054
CEDD		Mr. M.O Chiu	Senior Inspector of Works	2762 5552	2714 2034
		Mr. Fung Ping Lun	Engineer	2762 5068	
CEDD	Engineer	Mr. K.S Cheng	Engineer	2762 5455	27142054
		Dr. Priscilla Choy	ET Leader	2151 2089	
Cinotech	Environmental Team	Mr. Robert Tsang	Project Coordinator & Audit Team Leader	2151 2095	3107 1388
		Mr. Henry Leung	Monitoring Team Leader	2151 2087	
Mannings	Independent Environmental	Mr. Mark Cheung	Independent Environmental Checker	31682028	31682022
(Asia)	Checker	Mr. Simon Ng	Assistant Independent Environmental Checker	51082028	31082022
CWE-ZHEC	Contractor	Mr. Alan Mong	Site Agent	2727 0128	2379 5931
Joint Venture		Mr. Y.F. Chao	Project Manager	2727 0128	2379 5931

Table 1.1Key Project Contacts

Construction Programme

- 1.9 The site activities undertaken in the reporting month included:
 - Erection of Steel Bracing
 - Setup pile load test platform

Summary of EM&A Requirements

- 1.10 The EM&A programme requires construction phase monitoring construction noise and water quality and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the project EIA study final report; and
 - Environmental requirements in contract documents.
- 1.11 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 4 of this report.
- 1.12 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely water and noise levels and audit works for the Project in February 2008.

2. NOISE

Monitoring Requirements

2.1 Two noise monitoring stations, namely N3 and N5 were designated in the Updated EM&A Manual for impact monitoring. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 Noise monitoring was conducted at two designated monitoring stations as listed in Table 2.1. Figure 3.1 shows the locations of these stations.

Table 2.1Noise Monitoring Stations

Monitoring Stations	Locations	
N3	North Lamma Clinic	
N5	No. 105 Yung Shue Wan Main Street	

Monitoring Equipment

2.3 Table 2.2 summarizes the noise monitoring equipment. Copies of calibration certificates are provided in Appendix B.

Table 2.2Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	B&K Model 2238	3
Calibrator	B&K 4231	2

Monitoring Parameters, Frequency and Duration

2.4 Table 2.3 summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in Appendix D.

Monitoring Stations	Parameter	Period	Frequency	Measurement
N3 N5	$\begin{array}{c} L_{10}(30 \text{ min.}) \\ dB(A) \\ L_{90}(30 \text{ min.}) \\ dB(A) \\ L_{eq}(30 \text{ min.}) \\ dB(A) \end{array}$	0700-1900 hrs on normal weekdays	Once per week	Façade

Table 2.3	Noise Monitoring Parameters, Frequency and Duration
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Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2 m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting : A
 - time weighting : Fast
 - time measurement : 30 minutes / 5 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of 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.
- Noise measurement was paused temporarily during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

Maintenance and Calibration

- 2.5 The microphone head of the sound level meter and calibrator was cleaned with soft cloth regularly.
- 2.6 The meters were sent to the supplier to check and calibrate on a yearly interval.

Results and Observations

- 2.7 Noise monitoring at the two designated locations was conducted as scheduled in the reporting month.
- 2.8 All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured Leq Baseline Leq = Measured CNL), in order to facilitate the interpretation of the noise exceedance. The baseline noise level and the allowed CNL at each designated noise monitoring station are presented at Table 3.4.
- 2.9 No Action/Limit Level exceedance was recorded.
- 2.10 Noise monitoring results and graphical presentations are shown in Appendix E. In accordance with Condition 5.2 of the EP, all environmental monitoring data was made available to the public via internet access at the website http://nteema.cedd.gov.hk/YSWHelipad/.
- 2.11 The major noise source identified at the designated noise monitoring stations was the activities around Yung Shue Wan Playground.

Table 2.4	Baseline Noise Level and Allowed Construction Noise Level for Monitoring
Stations	

Station	Baseline Noise Level, dB (A)	Allowed CNL, dB (A)
N3 – North Lamma Clinic	60.8 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
	59.7 (at 1900 – 2300 hrs on all days & 0700 – 1900 hrs on holidays)	
	59.4 (at 2300 – 0700 hrs of the next day)	
N4 – Yung Shue Wan Playground	63.8 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
	61.4 (at 1900 – 2300 hrs on all days & 0700 – 1900 hrs on holidays)	
	63.6 (at 2300 – 0700 hrs of the next day)	

3. WATER QUALITY

Monitoring Requirements

3.1 Dissolved oxygen (DO concentration in mg/L and DO saturation in percentage), Turbidity (Tby in NTU), Suspended Solid (SS in mg/L), pH, salinity and both water and ambient temperature monitoring were conducted to monitor the water quality. Appendix A shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

3.2 Locations of designated Water Quality Monitoring Stations are shown in **Figure 3.1** and described in Table 3.1. Samples shall be taken at all designated Monitoring and Control Stations.

Monitoring Stations	Coordinates		
Women ing Stations	Northing (m)	Easting (m)	
Control Station			
C1	809 608.0	829 207.7	
Impact Stations			
M1	809 544.0	829 213.0	
M2	809 559.2	829 243.0	

Table 3.1Locations for Water Quality Monitoring

Monitoring Equipment

3.3 Table 3.2 summarizes the equipment used in the water quality monitoring program. All the monitoring equipment complied with the specifications is stipulated in the Updated EM&A Manual. Copies of the calibration certificates of the equipment are shown in Appendix B.

Table 3.2Water Quality Monitoring Equipment

Equipment	Model and Make	Qty.
Multi-parameter Water Quality System	YSI 6820-C-M	2
Monitoring Position Equipment	"Magellan" Handheld GPS Model GPS-320	1

Monitoring Parameters, Frequency and Duration

3.4 Table 3.3 summarizes the monitoring parameters, monitoring period and frequencies of water quality monitoring.

Station	Parameters	Frequency
C1	DO, SS, turbidity,	1 day per week during the marine work and
M1	salinity, pH &	3 days per week during the piling work, at
M2	temperature	mid-flood and mid-ebb

Table 3.3Frequency and Parameters of Water Quality Monitoring

Monitoring Methodology, Calibration Details and QA/QC Procedures

Instrumentation

3.5 A multi-parameter meter (Model YSI 6820 C-M) was used to measure DO, DO saturation, turbidity, salinity and temperature.

Operating/Analytical Procedures

- 3.6 At each measurement, two consecutive measurements of DO concentration, DO saturation, salinity, turbidity and temperature were taken. Where the difference in the value between the first and second readings of each set was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.
- 3.7 For SS measurement, duplicate water samples for SS were taken and analysed at each monitoring station at each sample depth. The sample bottles were then packed in coolboxes (without being frozen), and delivered to a HOKLAS accredited laboratory for analysis of suspended solids concentrations within 24 hours.

Maintenance and Calibration

- 3.8 Before each round of monitoring, a zero check in distilled water was performed with the turbidity probe of YSI 6820-C-M. The probe was then calibrated with a solution of known NTU.
- 3.9 QA/QC procedures as attached in Appendix C are available for the SS analyzed in the HOKLAS-accredited laboratory, WELLAB Ltd.

Results and Observations

- 3.10 Water quality monitoring was conducted as scheduled in the reporting month. The monitoring data and graphical presentations of the monitoring results are shown in Appendix F. Details of the Exceedance Report are shown in **Appendix G**.
- 3.11 In accordance with Condition 5.2 of the EP, all environmental monitoring data was made available to the public via internet access at the website <u>http://nteema.cedd.gov.hk/YSWHelipad/</u>.
- 3.12 No Action/Limit Level exceedance was recorded in the reporting month.

4. ENVIRONMENTAL AUDIT

Site Audits

- 4.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in Appendix H.
- 4.2 Site audits were conducted on 6th, 13th, 20th and 27th February 2008. No non-compliance was observed during the site audits.

Review of Environmental Monitoring Procedures

4.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Water Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- The monitoring team recorded the weather condition on the monitoring day.

Status of Environmental Licensing and Permitting

4.4 All permits/licenses obtained for the Project are summarized in Table 4.1.

Status of Waste Management

4.5 The amount of wastes generated by the activities of the Project in February 2008 is shown in Appendix I.

Permit No.	Valid Period		Section	Status	
	From To		Section		
Environmental	Permit (EP)				
EP-242/2006	13/3/2006	N/A	A helipad used solely for emergency purpose with diameter of 25 metres and an Emergency Vehicular Access of about 25 metres long and 3.5 metres wide connecting the helipad with existing road.	Valid	

Table 4.1Summary of Environmental Licensing and Permit Status

Implementation Status of Environmental Mitigation Measures

4.6 According to the *EIAO Guidance Note No. 14/2003*, the key information in the EIA Report is summarized in Table 4.2. According to the EIA Report, air quality, noise and water quality would be the key issues during the construction and operation of the Yung Shue Wan Helipad. Details of the implementation of mitigation measures are provided in the Appendix K.

Table 4.2	Key Information in the EIA Report and the Status of EMIS

	Issues	Assumptions and Assessment	Recommended Mitigation Measures
Air Noise O Water	Air	With the implementation of dust suppression mitigation measures, the level of construction dust would comply with the relevant AQO.	 Restricting heights from which material are dropped Covering the materials on truck with tarpaulin sheet Watering of the dusty areas, at least twice a day Provide wheel-washing facilities at site exit(s) Traveling speeds should be controlled
	Noise	Noise level at most of NSRs would exceed the noise criteria without mitigation measures.	Good site practice, adoption of quiet construction plant, reduction of on-time operation of plant, movable noise barrier and avoid simultaneous noisy activities.
Con	Water	Adverse impacts on the water quality	Good site practice, adoption of use holding tank that should be fitted with a tight fitting seal, excavator grab seal is tightly closed and the hoist speed is suitably low, large objects should be removed from the excavator grab and use small diameter pre-bored piling instead of dredging and reclamation for construction of helipad

	Issues	Assumptions and Assessment	Recommended Mitigation Measures
	Ecology	Ecology concentration, if unmitigated, it would not comply with the Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586). [Replaced the animals & Plants Ordinance (Protection of Endangered Species) (Cap. 187) in December 2006]	 Silt curtain should be installed Good site practice measures: Particular care should be taken when demolishing the existing concrete planter and decommissioning the silt curtain Materials storage areas should be located well away from the seawall and covered during the works. Holding tank that should be fitted with a tight fitting seal Excavator seal is tightly closed and the hoist speed is suitably low Large objects should be removed from the excavator grab and use small diameter pre- bored piling instead of dredging and reclamation for construction of helipad
	Waste	Potential for environmental impacts (Visual impacts and nuisance)	Good site practice, adoption of proper on-site handling and storage (covered containers), reuse (of inert C&D materials) and off-site disposal (via approved waste collectors to approved waste facilities and/or disposal grounds) the generation.
Operation	Noise	NSRs along the alignment would be exposed to noise level exceeding the noise limit without mitigation measures.	 Use of quieter helicopter type EC155B1 in priority Reduce the angle of the helicopter flights path The helipad will be solely for emergency use
Ope	Waste	Potential for environmental impacts without mitigation measures.	 The helipad will only be used for emergency purposes. No equipment will be placed on the landing pad or along the EVA

4.7 During the weekly environmental site inspections in the reporting period, no nonconformance was identified. There are no observations and recommendations.

Implementation Status of Event Action Plans

4.8 The Event Action Plans for noise and water quality are presented in Appendix J.

Construction Noise

4.9 No Action/Limit Level exceedance was recorded for construction noise.

Water Quality

4.10 No Action/Limit Level exceedance was recorded for water quality.

Summary of Complaints and Prosecutions

- 4.11 No environmental prosecution and complaint was received in the reporting month.
- 4.12 No environmental prosecution was received in the reporting month.
- 4.13 There were no environmental complaint and no prosecution received since the commencement of the Project. The Complaint Log is attached in Appendix M.

5. FUTURE KEY ISSUES

Key Issues for the Coming Month

- 5.1 Key environmental issues in the coming month include:
 - Generation of dust from operation of equipment.
 - Noise from operation equipment and machinery on-site.
 - Storage of chemicals/fuel and chemical waste/waste oil on site.
 - Contamination of marine water.

Monitoring Schedule for the Next Month

5.2 The tentative environmental monitoring schedules for the next month are shown in Appendix D.

Construction Program for the Next Month

5.3 The tentative construction program for the Project is provided in Appendix L.

6. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

6.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

Construction Noise Monitoring

6.2 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Water Quality Monitoring

6.3 All water quality monitoring was performed as scheduled. No Action/Limit Level exceedance was recorded.

Complaint and Prosecution

6.4 No environmental prosecution and complaint was received in the reporting month.

Recommendations

6.5 According to the environmental audit performed in the reporting month, the following recommendations were made:

Dust Impact

- To prohibit any open burning on site.
- To regularly maintain the machinery and vehicles on site.
- To follow up any exceedance caused by the construction works.
- To implement dust suppression measures on all haul roads, stockpiles, dry surfaces and excavation works.
- To provide hoarding

Noise Impact

- To inspect the noise sources inside the site.
- To follow up any exceedance caused by the construction works.
- To space out noisy equipment and position the equipment as far away as possible from sensitive receivers.
- To provide temporary noise barriers for operations of noisy equipment near the noise sensitive receivers in an appropriate location.

Water Impact

- To identify any wastewater discharges from site.
- To provide silt curtain surrounding the whole of the piling site.
- To check the holding tank should be fitted with a tight fitting seal.
- To ensure the excavator grab seal is tightly closed.

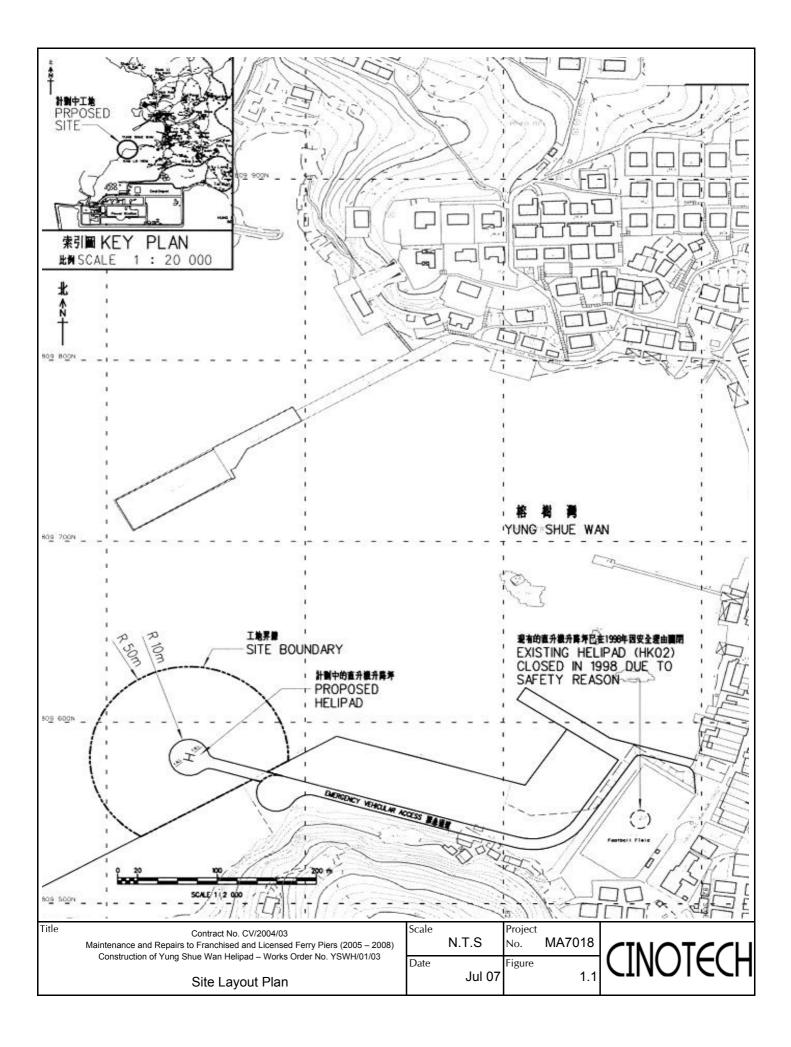
Waste/Chemical Management

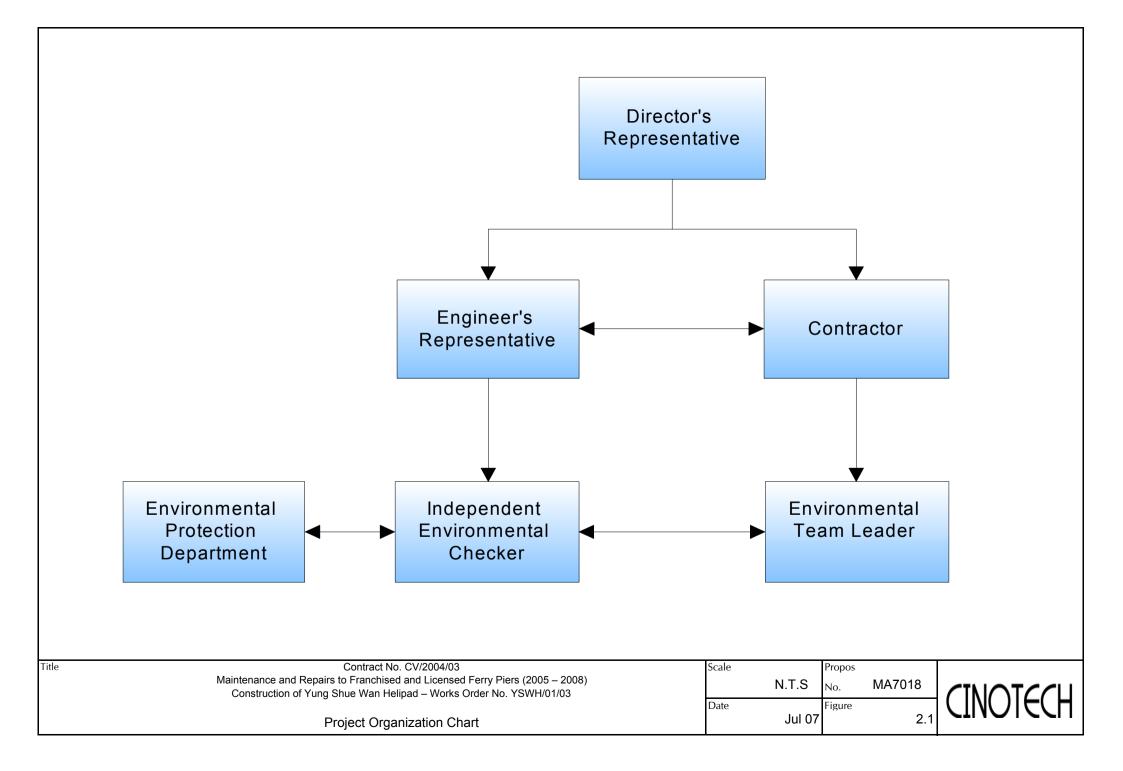
- To check for any accumulation of waste materials or rubbish on site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To avoid improper handling or storage of oil drum on site.

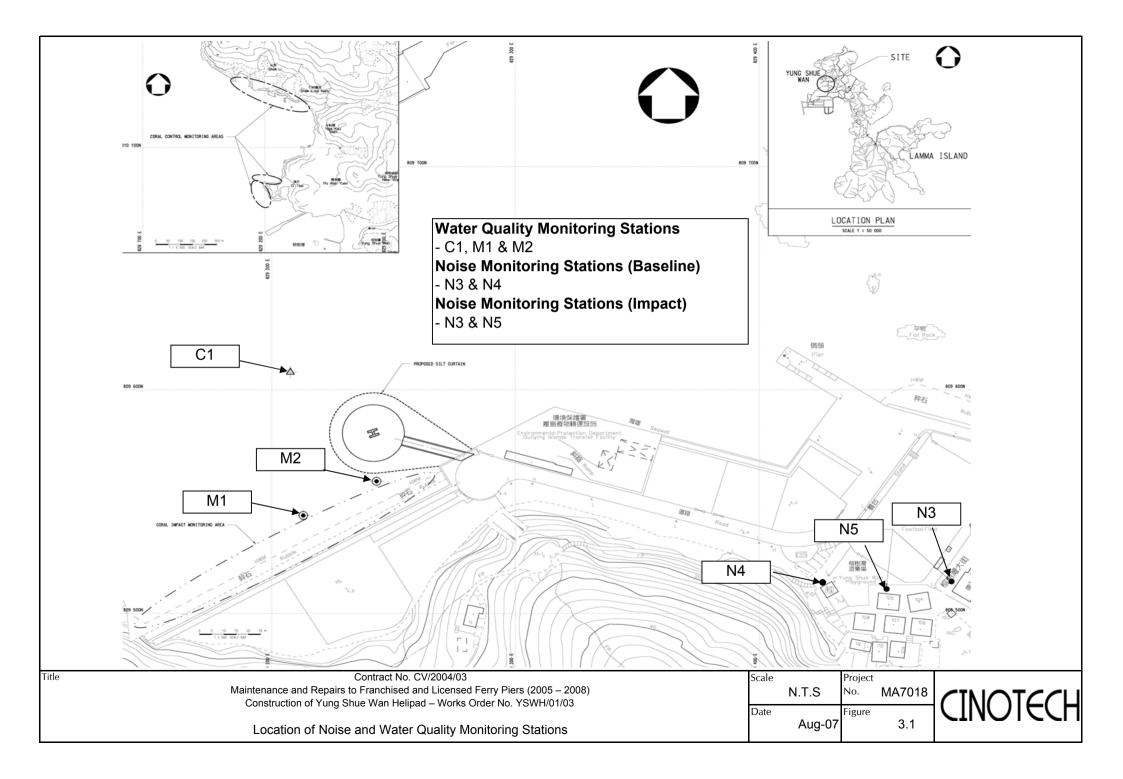
Ecology

• To provide silt curtain, checked and maintenance throughout the construction period

FIGURES







APPENDIX A ACTION AND LIMIT LEVELS Contract No. CV/2004/03 Maintenance and Repairs to Franchised and Licensed Ferry Piers (2005 – 2008) Construction of Yung Shue Wan Helipad – Works order No. YSWH/01/03 Monthly EM&A Report

Action and Limit Levels

Table A-1 Action and Limit Level for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)

Table A-2 Action and Limit Level for Water Quality

Parameter (unit)	Action	Limit
Dissolved Oxygen (mg/L) (surface, middle, bottom)	<i>Surface and middle</i> 5%-ile of baseline for surface and	<i>Surface and middle</i> 4 mg/L or 1%-ile of baseline
	middle layers	for surface and middle layers
	Bottom	Bottom
	5%-ile of baseline for bottom	2 mg/L or 1%-ile of baseline
	layer	for bottom layer
SS (mg/L)	95%-ile of baseline data or 120%	99%-ile of baseline or 130%
Depth average	of upstream control station's SS at the same tide of the same day.	of SS readings at the upstream control station at the same tide of same day and specific sensitive receiver water quality requirements.
Turbidity (NTU)	95%-ile of baseline data or 120	99%-ile of baseline or 130%
(depth average)	% of upstream control station's	of turbidity at the upstream
	turbidity at the same tide of the	control station at the same tide
	same day.	of same day.

Notes:

- "Depth-averaged" is calculated by taking the arithmetic means of reading all three depths.

- For DO, non-compliance of the water quality limit occurs when monitoring result is lower than the limit.

For SS & turbidity non-compliance of the water quality limits occur when monitoring result is higher than the limits.
 All the figures given in the table are used for reference only and the Engineer may amend the figures whenever it is

- All the figures given in the table are used for reference only and the Engineer may amend the figures whenever it is considered as necessary

APPENDIX B COPIES OF CALIBRATION CERTIFCATES ATTN:

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/70903-1
	1601-1610 Delta House,	Date of Issue:	2007-09-03
	3 On Yiu Street,	Date Received:	2007-09-01
	Shatin, N.T.	Date Tested:	2007-09-03
		Date Completed:	2007-09-03
		Next Due Date:	2008-09-02

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1 of 1

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No. : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2359311 : 2346382 : N-01-03

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 62%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

atahlse

PATRICK TSE Senior Chemist

1 of 1

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/71015/1	
	Room 1710, Technology Park,	Date of Issue:	2007-10-15	
	18 On Lai Street,	Date Received:	2007-10-13	
	Shatin, NT, Hong Kong	Date Tested:	2007-10-13	
		Date Completed:	2007-10-15	
		Next Due Date:	2008-10-14	

ATTN:

Mr. Henry Leung

. .

Certificate of Calibration

Item for calibration:

. .

: Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2394976 : 2407349 : N-01-05

Page:

Test conditions:

Room Temperatre Relative Humidity : 21 degree Celsius : 60%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Senior Chemist

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WELLAB 匯 Testing and Research 力 Unit C, 1/F., Goldlion Holdings Center, 13-15 Yuen Shun Circuit, Shatin, NT, HK. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

1 of 1

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/71116/2
	Room 1710, Technology Park,	Date of Issue:	2007-11-16
	18 On Lai Street,	Date Received:	2007-11-15
	Shatin, NT, Hong Kong	Date Tested:	2007-11-15
	50 (2007) (2007) (200	Date Completed:	2007-11-16
		Next Due Date:	2008-11-15

Page:

ATTN: Mr. Henry Leung

Item for calibration:

Description	: Acoustical Calibrato	
Manufacturer	: Brüel & Kjær	
Model No.	: 4231	
Serial No.	: 2326353	
Project No.	: C13	
Equipment No.	: N-02-01	

Test conditions:

Room Temperatre	: 20 degree Celsius	
Relative Humidity	: 59%	
Pressure	: 1015.2 hPa	

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level	Measured SPL	Tolerance
At 94 dB SPL	94.0	$94.0 \pm 0.1 \text{ dB}$

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PATRICK TSE Senior Chemist

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1 of 1

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/70903-3
	1602-1610 Delta House,	Date of Issue:	2007-09-03
	3 On Yiu Street,	Date Received:	2007-09-01
	Shatin, N.T.	Date Tested:	2007-09-03
		Date Completed:	2007-09-03
		Next Due Date:	2008-09-02

ATTN: Mr. Henry Leung

Item for calibration:

	Description	: Acoustical Calibrator
	Manufacturer	: Brüel & Kjær
	Model No.	: 4231
	Serial No.	: 2412367
	Equipment No.	: N-02-03
Test condi	tions:	
	Room Temperatre	: 22 degree Celsius
		(

Relative Humidity

: 62%

Page:

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	$114.0 \pm 0.1 \text{ dB}$

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TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Date Completed: Next Due Date:	2007-11-10 2008-02-09	
Date Tested:	2007-11-10	
Date Received:	2007-11-09	
Date of Issue:	2007-11-10	
Test Report No .:	C/W/71110-1	

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No. Project No.

: Sonde Environmental Monitoring System : YSI : 6820-C-M :02D0126AA : W.03.01 : C013

Test conditions:

Room Temperature **Relative Humidity**

: 21 degree Celsius : 62%

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 05A1209

1. Conductivity performance check with Potassium Chloride standard solution

2. Salinity performance check with Sodium Chloride standard solution

Dissolved Oxygen Sensor, Model: 6562, S/N: 04A0145

1. Performance check against Winkler titration

Turbidity Sensor, Model: 6136, S/N: 05A1610AJ

1. Calibration check with Formazin standard solution

pH Meter, Model: 6561, S/N: 01J

1. Calibration check with standard pH buffer

Depth Meter

1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual 2. In-house method with reference to APHA and ISO standards

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PATRICK TSE Senior Chemist



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TEST REPORT

Test Report No .:	C/W/71110-1
Date of Issue:	2007-11-10
Date Received:	2007-11-09
Date Tested:	2007-11-10
Date Completed:	2007-11-10
Next Due Date:	2008-02-09
Page:	2 of 2

Results:

1. Conductivity performance check

Specific Conductivity, µS/cm		Correction, µS/cm	Acceptable range
Salinity Meter (C1)	Theoretical Value (C2)	D = C1 - C2	
1421	1420	2	1420 ± 20

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range
Instrument Reading	Theoretical Value		
30.0	30.0	0.0	30.0 ± 3

3. Dissolved Oxygen check

Oxygen level in	n level in Dissolved Oxygen, mg O ₂ /L		Correction, mg	Acceptable
water at 20°C	D.O. Meter	Winkler Titration	O ₂ /L	range
Saturated	9.1	9.1	0.0	± 0.2
Half-saturated	5.6	5.6	0.0	± 0.2
Zero	0.0	0.0	0.0	± 0.2

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range	
Liquid junction error ΔpH_i , pH unit	0.01	Less than 0.05	
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02	
Noise ΔpH_n , pH unit	0.00	Less than 0.02	

6. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05



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TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Dagat	1 of 2
Next Due Date:	2008-05-05
Date Completed:	2008-02-06
Date Tested:	2008-02-06
Date Received:	2008-02-06
Date of Issue:	2008-02-06
Test Report No .:	C/W/80206-1

ATTN: Mr. Henry Leung

Page:

1 of 2

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No. Project No. : Sonde Environmental Monitoring System : YSI : 6820-C-M : 02D0126AA : W.03.01 : C013

Test conditions:

Room Temperature Relative Humidity : 21 degree Celsius : 62%

Certificate of Calibration

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 05A1209

1. Conductivity performance check with Potassium Chloride standard solution

2. Salinity performance check with Sodium Chloride standard solution

Dissolved Oxygen Sensor, Model: 6562, S/N: 04A0145

1. Performance check against Winkler titration

Turbidity Sensor, Model: 6136, S/N: 05A1610AJ

1. Calibration check with Formazin standard solution

pH Meter, Model: 6561, S/N: 01J

1. Calibration check with standard pH buffer

Depth Meter

1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual 2. In-house method with reference to APHA and ISO standards

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PA'TRICK TSE Laboratory Manager



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TEST REPORT

Test Report No .:	C/W/80206-1
Date of Issue:	2008-02-06
Date Received:	2008-02-06
Date Tested:	2008-02-06
Date Completed:	2008-02-06
Next Due Date:	2008-05-05
Page:	2 of 2

Results:

1. Conductivity performance check

Specific Conductivity, µS/cm		Correction, µS/cm	Acceptable range
Salinity Meter (C1)	Theoretical Value (C2)	D = C1 - C2	
1421	1420	2	1420 ± 20

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range
Instrument Reading	Theoretical Value		
30.0	30.0	0.0	30.0 ± 3

3. Dissolved Oxygen check

Oxygen level in	Dissolved O	xygen, mg O ₂ /L	Correction, mg	Acceptable
water at 20°C	D.O. Meter	Winkler Titration	O ₂ /L	range
Saturated	9.1	9.1	0.0	± 0.2
Half-saturated	5.6	5.6	0.0	± 0.2
Zero	0.0	0.0	0.0	± 0.2

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_1 , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.00	Less than 0.02

6. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05



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TEST REPORT

Certificate of Calibration

APPLICANT:	Cinotech Consultants Limited
	Room 1710, Technology Park,
	18 On Lai Street,
	Shatin, NT, Hong Kong

Test Report No .:	C/W/71110-2
Date of Issue:	2007-11-10
Date Received:	2007-11-09
Date Tested:	2007-11-10
Date Completed:	2007-11-10
Next Due Date:	2008-02-09
Page:	1 of 2

ATTN: Mr. Henry Leung

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0I 2

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No. Project No.

: Sonde Environmental Monitoring System : YSI : 6820-C-M :02D0293AA : W.03.02 : C013

Test conditions:

Room Temperature : 21 degree Celsius **Relative Humidity** : 62%

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 02C0886

1. Conductivity performance check with Potassium Chloride standard solution

2. Salinity performance check with Sodium Chloride standard solution

Dissolved Oxygen Sensor, Model: 6562, S/N: 0261137

1. Performance check against Winkler titration

Turbidity Sensor, Model: 6136, S/N: 05F2030AO

1. Calibration check with Formazin standard solution

pH Meter, Model: 6561, S/N: 02A

1. Calibration check with standard pH buffer

Depth Meter

1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual

2. In-house method with reference to APHA and ISO standards

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PATRICK TSE Senior Chemist



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TEST REPORT

Test Report No .:	C/W/71110-2
Date of Issue:	2007-11-10
Date Received:	2007-11-09
Date Tested:	2007-11-10
Date Completed:	2007-11-10
Next Due Date:	2008-02-09
Page:	2 of 2

Results:

1. Conductivity performance check

Specific Conductivity, µS/cm		Correction, µS/cm	Acceptable range
Salinity Meter (C1) Theoretical Value (C2)		D = C1 - C2	
1420	1420	0	1420 ± 20

2. Salinity Performance check

Salini	Salinity, ppt		Acceptable range	
Instrument Reading	Theoretical Value			
30.1	30.0	0.1	30.0 ± 3	

3. Dissolved Oxygen check

Oxygen level in	Dissolved O	xygen, mg O ₂ /L	Correction, mg	Acceptable
water at 20°C	D.O. Meter	Winkler Titration	O ₂ /L	range
Saturated	9.0	9.0	0.0	± 0.2
Half-saturated	5.8	5.8	0.0	± 0.2
Zero	0.0	0.0	0.0	± 0.2

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_1 , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.01	Less than 0.02

6. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05



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TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/W/80206-2	
	Room 1710, Technology Park,	Date of Issue:	2008-02-06	
	18 On Lai Street,	Date Received:	2008-02-06	
	Shatin, NT, Hong Kong	Date Tested:	2008-02-06	
		Date Completed:	2008-02-06	

Certificate of Calibration

ATTN: Mr. Henry Leung

Page:

Next Due Date:

1 of 2

2008-05-05

Item for calibration:

Description	
Manufacturer	
Model No.	
Serial No.	
Equipment No.	
Project No.	

: Sonde Environmental Monitoring System : YSI : 6820-C-M : 02D0293AA : W.03.02 : C013

Test conditions:

Room Temperature Relative Humidity : 21 degree Celsius : 62%

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 02C0886

1. Conductivity performance check with Potassium Chloride standard solution

2. Salinity performance check with Sodium Chloride standard solution

Dissolved Oxygen Sensor, Model: 6562, S/N: 0261137

1. Performance check against Winkler titration

Turbidity Sensor, Model: 6136, S/N: 05F2030AQ

1. Calibration check with Formazin standard solution

pH Meter, Model: 6561, S/N: 02A

1. Calibration check with standard pH buffer

Depth Meter

1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual

2. In-house method with reference to APHA and ISO standards

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PATRICK TSE Laboratory Manager



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TEST REPORT

C/W/80206-2
2008-02-06
2008-02-06
2008-02-06
2008-02-06
2008-05-05
2 of 2

Results:

1. Conductivity performance check

Specific Conductivity, µS/cm		Correction, µS/cm	Acceptable range	
Salinity Meter (C1)	Theoretical Value (C2)	D = C1 - C2		
1420	1420	0	1420 ± 20	

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range	
Instrument Reading	Theoretical Value			
30.1	30.0	0.1	30.0 ± 3	

3. Dissolved Oxygen check

Oxygen level in	Dissolved Oxygen, mg O ₂ /L		Correction, mg	Acceptable
water at 20°C	D.O. Meter	Winkler Titration	O ₂ /L	range
Saturated	9.0	9.0	0.0	± 0.2
Half-saturated	5.8	5.8	0.0	± 0.2
Zero	0.0	0.0	0.0	± 0.2

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_i , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.01	Less than 0.02

6. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05

APPENDIX C QUALITY CONTROL REPORTS FOR SS LABORATORY ANALYSIS



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06170
RM 1710, Te	echnology Park,	Date of Issue:	2008/02/04
18 On Lai St	treet,	Date Received:	2008/02/01
Shatin, N.T.	, Hong Kong	Date Tested:	2008/02/01
		Date Completed:	2008/02/04
ATTN: Mr. Henry Leung		Page:	1 of 1
Sampling Site:	Construction of Yung Shue Wan He	elipad	
Project No.:	MA7018		
Sampling Date:	2008/02/01		
Number of Sample:	14		
Custody No.:	MA7018/80201		
******	*****	*****	************************

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
M2SF	11	10	6	98

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

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PATRICK TSE Laboratory Manager



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06179
RM 1710, Te	echnology Park,	Date of Issue:	2008/02/05
18 On Lai St	treet,	Date Received:	2008/02/04
Shatin, N.T.	, Hong Kong	Date Tested:	2008/02/04
		Date Completed:	2008/02/05
ATTN: Mr. Henry Leung		Page:	1 of 1
Sampling Site:	Construction of Yung Shue Wan He	elipad	
Project No.:	MA7018		
Sampling Date:	2008/02/04		
Number of Sample:	14		
Custody No.:	MA7018/80204		
******	******	*****	*****

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
M2BF	10	11	10	91

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PATRICK TSE Laboratory Manager



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06194
RM 1710, Te	echnology Park,	Date of Issue:	2008/02/11
18 On Lai Street,		Date Received:	2008/02/06
Shatin, N.T.	, Hong Kong	Date Tested:	2008/02/06
		Date Completed:	2008/02/11
ATTN: Mr. Henry Leung		Page:	1 of 1
Sampling Site:	Construction of Yung Shue Wan He	elipad	
Project No.:	MA7018		
Sampling Date:	2008/02/06		
Number of Sample:	28		
Custody No.:	MA7018/80206		
******	******	*****	*****

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
C1bf	11	11	1	93

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PATRICK TSE Laboratory Manager



P.

APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06203	
RM 1710, Te	echnology Park,	Date of Issue:	2008/02/12	
18 On Lai St	reet,	Date Received:	2008/02/11	
Shatin, N.T.,	, Hong Kong	Date Tested:	2008/02/11	
		Date Completed:	2008/02/12	
ATTN: Mr. Henry Leung		Page:	1 of 1	
Sampling Site:	Construction of Yung Shue Wan He	elipad		
Project No.:	MA7018			
Sampling Date:	2008/02/11			
Number of Sample:	28			
Custody No.:	MA7018/80211			
******	**********	******	******	*****

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
C1bf	15	15	2	90

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PATRICK TSE Laboratory Manager



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06212	
RM 1710, Te	echnology Park,	Date of Issue:	2008/02/14	
18 On Lai St	reet,	Date Received:	2008/02/13	
Shatin, N.T.,	, Hong Kong	Date Tested:	2008/02/13	
		Date Completed:	2008/02/14	
ATTN: Mr. Henry Leung		Page:	1 of 1	
Sampling Site:	Construction of Yung Shue Wan H	elipad		
Project No.:	MA7018			
Sampling Date:	2008/02/13			
Number of Sample:	28			
Custody No.:	MA7018/80213			
*************************	******	******	******	******

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
M2bf	14	14	4	94

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PATRICK TSE Laboratory Manager



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06236	
RM 1710, To	echnology Park,	Date of Issue:	2008/02/18	
18 On Lai St	treet,	Date Received:	2008/02/15	
Shatin, N.T.	, Hong Kong	Date Tested:	2008/02/15	
		Date Completed:	2008/02/18	
ATTN: Mr. Henry Leung		Page:	1 of 1	
Sampling Site:	Construction of Yung Shue Wan H	elipad		
Project No.:	MA7018			
Sampling Date:	2008/02/15			
Number of Sample:	28			
Custody No.:	MA7018/80218			
******	***************************************	******	***************************************	ķ

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
C1BF	19	21	7	87

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PATRICK TSE Laboratory Manager



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06250	
RM 1710, Te	echnology Park,	Date of Issue:	2008/02/19	
18 On Lai St	reet,	Date Received:	2008/02/18	
Shatin, N.T.,	, Hong Kong	Date Tested:	2008/02/18	
		Date Completed:	2008/02/19	
ATTN: Mr. Henry Leung		Page:	1 of 1	
Sampling Site:	Construction of Yung Shue Wan He	elipad		
Project No.:	MA7018			
Sampling Date:	2008/02/18			
Number of Sample:	28			
Custody No.:	MA7018/80218			
***************************************	*****	*****	******	**

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
M2sf	4	4	16	92

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PATRICK TSE Laboratory Manager



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06266
RM 1710, T	echnology Park,	Date of Issue:	2008/02/21
18 On Lai S	treet,	Date Received:	2008/02/20
Shatin, N.T.	, Hong Kong	Date Tested:	2008/02/20
		Date Completed:	2008/02/21
ATTN: Mr. Henry Leung		Page:	1 of 1
Sampling Site:	Construction of Yung Shue Wan He	elipad	
Project No.:	MA7018		
Sampling Date:	2008/02/20		
Number of Sample:	28		
Custody No.:	MA7018/80220		
******	******	*****	*****

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
M2bf	6	6	3	91

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PATRICK TSE Laboratory Manager



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06283	
RM 1710, Te	echnology Park,	Date of Issue:	2008/02/25	
18 On Lai St	reet,	Date Received:	2008/02/22	
Shatin, N.T.,	Hong Kong	Date Tested:	2008/02/22	
		Date Completed:	2008/02/25	
ATTN: Mr. Henry Leung		Page:	1 of 1	
Sampling Site:	Construction of Yung Shue Wan H	elipad		
Project No.:	MA7018			
Sampling Date:	2008/02/22			
Number of Sample:	28			
Custody No.:	MA7018/80222			
***************************************	******	*******	******	******

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
M2bf	16	16	2	99

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

0 atillese

PATRICK TSE Laboratory Manager



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06299	
RM 1710, Te	echnology Park,	Date of Issue:	2008/02/26	
18 On Lai St	reet,	Date Received:	2008/02/25	
Shatin, N.T.,	Hong Kong	Date Tested:	2008/02/25	
		Date Completed:	2008/02/26	
ATTN: Mr. Henry Leung		Page:	1 of 1	
Sampling Site:	Construction of Yung Shue Wan H	elipad		
Project No.:	MA7018			
Sampling Date:	2008/02/25			
Number of Sample:	28			
Custody No.:	MA7018/80225			
************************	******	******	******	*****

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
C1BE	18	17	6	96

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

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PATRICK TSE Laboratory Manager



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06316	
RM 1710, Te	echnology Park,	Date of Issue:	2008/02/28	
18 On Lai St	reet,	Date Received:	2008/02/27	
Shatin, N.T.,	, Hong Kong	Date Tested:	2008/02/27	
		Date Completed:	2008/02/28	
ATTN: Mr. Henry Leung		Page:	1 of 1	
Sampling Site:	Construction of Yung Shue Wan	Helipad		
Project No.:	MA7018			
Sampling Date:	2008/02/27			
Number of Sample:	28			
Custody No.:	MA7018/80227			
************************	*****	*******	*****	:

Total Suspended Solids	Duplicate Analysis			QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
M2BF	18	17	8	99

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

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PATRICK TSE Laboratory Manager



APPLICANT: Cinotech Co	nsultants Limited	Laboratory No.:	06324
RM 1710, Te	echnology Park,	Date of Issue:	2008/03/03
18 On Lai St	treet,	Date Received:	2008/02/29
Shatin, N.T.	, Hong Kong	Date Tested:	2008/02/29
		Date Completed:	2008/03/03
ATTN: Mr. Henry Leung		Page:	1 of 1
Sampling Site:	Construction of Yung Shue Wan He	elipad	
Project No.:	MA7018		
Sampling Date:	2008/02/29		
Number of Sample:	28		
Custody No.:	MA7018/80229		
*******	******	*****	*****

Total Suspended Solids	Du	plicate Analy	ysis	QC Recovery, %
Sampling Point	Trial 1,	Trial 2,	Difference,	
	mg/L	mg/L	%	
C1ME	5	5	13	91

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

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PATRICK TSE Laboratory Manager

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULE

Contract No. CV/2004/03 - Maintenance and Repairs to Franchised and Licensed Ferry Piers (2005 – 2008) Construction of Yung Shue Wan Helipad – Works Order No. YSWH/01/03 Tentative Impact Noise Monitoring Schedule for February 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb	2-Feb
			Noise Monitoring at N3 and N5			
3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb
			Noise Monitoring at N3 and N5			
10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb
			Noise Monitoring at N3 and N5			
17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb
			Noise Monitoring at N3 and N5			
24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	29-Feb	1-Mar
			Noise Monitoring at N3 and N5			

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Contract No. CV/2004/03 - Maintenance and Repairs to Franchised and Licensed Ferry Piers (2005 – 2008) Construction of Yung Shue Wan Helipad – Works Order No. YSWH/01/03 **Tentative Impact Water Quality Monitoring Schedule for February 2008**

Sunday	Monda		Tuesday	Wednes		Thursday	Frida		Saturday
27-Jan		28-Jan	29-Jan		30-Jan	31-Jan		1-Feb	2-Feb
	Mid-Flood Mid-Ebb	10:01 15:59		Mid-Flood Mid-Ebb	11:02 18:00		Mid-Flood Mid-Ebb	09:24 N/A	
3-Feb		4-Feb	5-Feb		6-Feb	7-Feb		8-Feb	9-Feb
	Mid-Flood Mid-Ebb	09:07 N/A		Mid-Ebb Mid-Flood	12:23 17:17				
10-Feb		11-Feb	12-Feb		13-Feb	14-Feb		15-Feb	16-Feb
	Mid-Flood Mid-Ebb	09:07 15:09		Mid-Flood Mid-Ebb	10:05 16:44		Mid-Flood Mid-Ebb	11:23 18:00	
17-Feb		18-Feb	19-Feb		20-Feb	21-Feb		22-Feb	23-Feb
	Mid-Ebb Mid-Flood	11:02 15:43		Mid-Ebb Mid-Flood	12:23 17:40		Mid-Flood Mid-Ebb	07:37 13:16	
24-Feb		25-Feb	26-Feb		27-Feb	28-Feb		29-Feb	1-Mar
	Mid-Flood Mid-Ebb	08:42 14:47		Mid-Flood Mid-Ebb	09:17 15:52		Mid-Flood Mid-Ebb	09:30 17:00	

The schedule may be changed due to unforeseen circumstances (adverse weather, etc) NA indicated favourable tide occurs during non-working hours

Contract No. CV/2004/03 - Maintenance and Repairs to Franchised and Licensed Ferry Piers (2005 – 2008) Construction of Yung Shue Wan Helipad – Works Order No. YSWH/01/03 Tentative Impact Noise Monitoring Schedule for March 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar
			Noise Monitoring at N3 and N5			
9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar
			Noise Monitoring at N3 and N5			
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar
			Noise Monitoring at N3 and N5			
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar
			Noise Monitoring at N3 and N5			
30-Mar	31-Mar	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Contract No. CV/2004/03 - Maintenance and Repairs to Franchised and Licensed Ferry Piers (2005 – 2008) Construction of Yung Shue Wan Helipad – Works Order No. YSWH/01/03 Tentative Impact Water Quality Monitoring Schedule for March 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2-Mar	3-N	far 4-Mar	5-Mai	6-Mar	7-Mar	8-Mar
	Mid-Flood 09: Mid-Ebb N	54 /A	Mid-Ebb 11:40 Mid-Flood 16:33		Mid-Ebb 12:33 Mid-Flood 18:00	
9-Mar	10-M	ar 11-Mar	12-Mai	13-Mar	14-Mar	15-Mar
	Mid-Flood 08: Mid-Ebb 14:		Mid-Flood 08:56 Mid-Ebb 15:33		Mid-Flood 09:07 Mid-Ebb 09:44 17:47	
16-Mar	17-N	ar 18-Mar	19-Mai	20-Mar	21-Mar	22-Mar
	Mid-Ebb 10: Mid-Flood 14:			Mid-Ebb 12:05 Mid-Flood 17:47		
23-Mar	24-M	ar 25-Mai	26-Mai	27-Mar	28-Mar	29-Mar
			Mid-Flood 08:11 Mid-Ebb 14:45		Mid-Flood 08:22 Mid-Ebb 16:02	
30-Mar	31-N	ar 1-Apr	2-Apr	3-Apr	4-Apr	5-Apr
	Mid-Flood 08: Mid-Ebb N	00 /A				

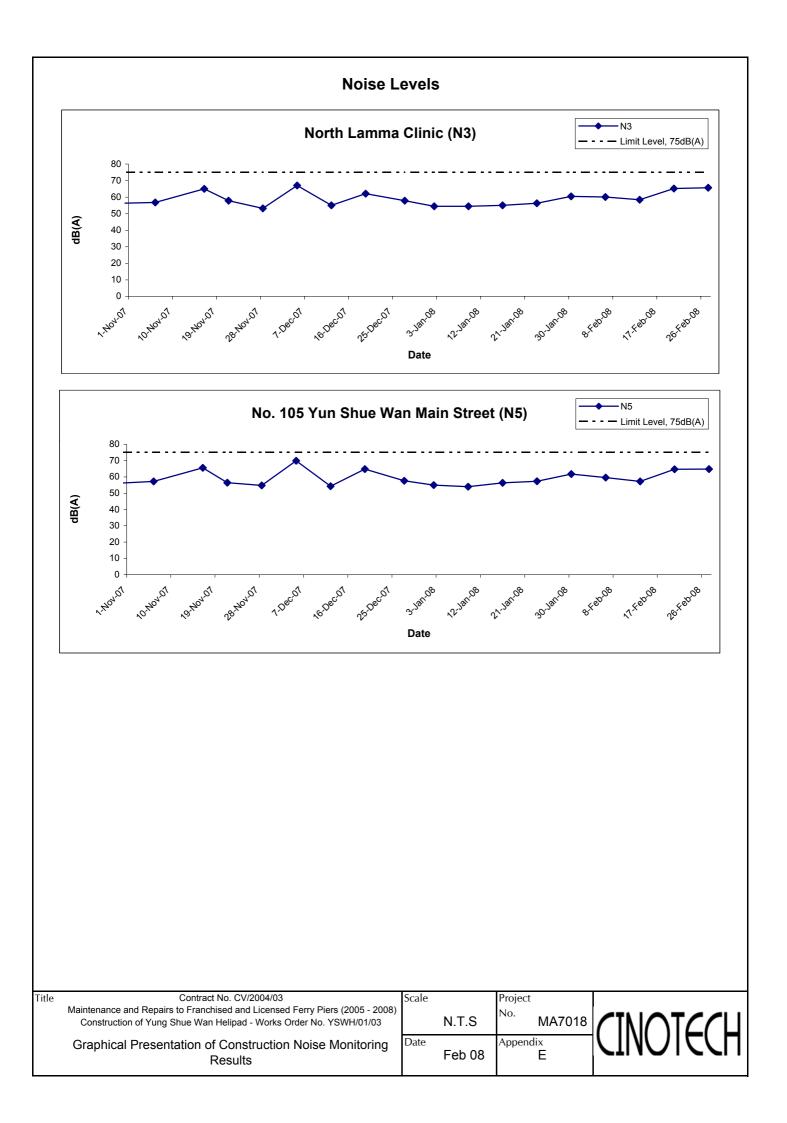
The schedule may be changed due to unforeseen circumstances (adverse weather, etc) NA indicated favourable tide occurs during non-working hours

APPENDIX E NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix E - Noise Monitoring Results

Location N3 - I	North Lamm	a Clinic			
Dete	Time	Weather	dE	3 (A) (30-min)
Date	Time	Weather	L _{eq}	L ₁₀	L ₉₀
6-Feb-08	10:00	Sunny	60.1	64.5	56.0
13-Feb-08	10:00	Sunny	58.4	60.0	54.5
20-Feb-08	10:45	Sunny	65.2	67.5	57.5
27-Feb-08	10:15	Sunny	65.7	68.0	62.5
		Average	63.4	66.0	58.8
		Minimum	58.4	60.0	54.5
		Maximum	65.7	68.0	62.5

Location N5 -	No. 105 Yun	Shue Wan Ma	in Street		
Dete	Time	\\/e ath ar	dE	3 (A) (30-min))
Date	Time	Weather	L _{eq}	L ₁₀	L ₉₀
6-Feb-08	13:00	Sunny	59.6	63.0	55.5
13-Feb-08	13:00	Sunny	57.2	61.5	54.0
20-Feb-08	11:20	Sunny	64.7	67.0	59.0
27-Feb-08	10:55	Sunny	64.8	67.5	62.0
		Average	62.7	65.5	58.7
		Minimum	57.2	61.5	54.0
		Maximum	64.8	67.5	62.0



APPENDIX F WATER QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATION

Water Quality Monitoring Results at C1 - Mid-Ebb Tide

Data	Weather	Sea	Sampling	Durt	- ()	Water Tem	perature (°C)	Ambient Ter	nperature (°C)	F	рН	Salin	ity ppt	DO Satu	uration (%)	Dissol	ved Oxygen	(mg/L)	1	Furbidity(NTL	J)	Suspe	ended Solids	(mg/L)
Date	Condition	Condition**	Time	Dept	n (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
				Surface	1	20.5 20.5	20.5	13.8 13.8	13.8	7.2 7.2	7.2	30.6 30.6	30.6	79.2 78.2	78.7	7.5 7.5	7.5		4.5 4.7	4.6		7.0 7.0	7.0	
6-Feb-08	Cloudy	Moderate	12:31	Middle	3	20.1 20.1	20.1	13.8 13.8	13.8	7.1	7.1	30.9 30.8	30.9	87.1 85.3	86.2	6.9 7.7	7.3	7.4	5.4 5.5	5.5	5.2	7.0	7.0	8.0
				Bottom	5	18.8	18.5	13.8	13.8	7.1	7.1	31.0 31.1	31.1	72.3	73.5	6.5	6.6	6.6	5.7	5.6		10.0	10.0	
				Surface	1	15.2 15.2	15.2	11.0 11.0	11.0	7.3	7.2	33.0 33.0	33.0	94.7 94.4	94.6	7.2 7.1	7.2		5.9 5.6	5.8		19.0 19.0	19.0	
11-Feb-08	Sunny	Moderate	14:27	Middle	3	15.2	15.3	11.0	11.0	7.0	7.0	33.0 33.0	33.0	93.8 94.0	93.9	7.1	7.1	7.2	6.7	6.8	6.5	13.0 13.0	13.0	12.7
				Bottom	5	15.3 15.2	15.3	11.0 11.0 11.0	11.0	7.2	7.2	33.0 33.0	33.0	94.0 94.6 94.9	94.8	7.1	7.2	7.2	6.8 7.0	6.9		6.0	6.0	
				Surface	1	18.4	18.5	13.2 13.2	13.2	7.2	7.2	32.6 32.7	32.7	77.3	76.8	7.4	7.4		4.5	4.4		11.0 11.0	11.0	
13-Feb-08	Fine	Moderate	16:32	Middle	3	18.1 18.1	18.1	13.2 13.2 13.2	13.2	7.2	7.2	32.9 32.9	32.9	85.1 83.4	84.3	6.7 7.5	7.1	7.3	4.2	5.0	5.3	7.0	7.0	9.0
				Bottom	5	16.7 16.2	16.5	13.2 13.2 13.2	13.2	7.2	7.2	33.1 33.2	33.2	70.4 72.8	71.6	6.3 6.5	6.4	6.4	6.2 6.5	6.4		9.0	9.0	
				Surface	1	15.4 15.4	15.4	14.2 14.2	14.2	7.3	7.3	33.4 33.4	33.4	98.0 97.6	97.8	6.7 6.6	6.7		4.9	4.8		8.0 8.0	8.0	
15-Feb-08	Fine	Moderate	18:33	Middle	3	15.5 15.5	15.5	14.2 14.2 14.2	14.2	7.0 7.1	7.1	33.4 33.4 33.4	33.4	96.5 95.9	96.2	6.7 6.7	6.7	6.7	4.8	4.8	4.9	8.0 8.0 8.0	8.0	7.3
				Bottom	5	15.5 15.5	15.5	14.2	14.2	7.2	7.2	33.4 33.5	33.5	95.1 94.5	94.8	6.6 6.6	6.6	6.6	5.1 4.9	5.0		6.0 6.0	6.0	
				Surface	1	22.5	22.5	18.6	18.6	7.3	7.3	29.1 29.1	29.1	72.3 72.3	72.3	5.6 5.5	5.6		3.8 4.3	4.1		5.0 5.0	5.0	
18-Feb-08	Sunny	Moderate	11:02	Middle	3	22.3 22.3	22.3	18.6 18.6	18.6	7.1 7.1	7.1	29.4 29.4	29.4	70.7	70.5	5.7 5.6	5.7	5.7	4.7	4.8	5.1	4.0	4.0	5.7
				Bottom	5	23.0	23.0	18.6 18.6	18.6	7.2	7.2	30.7 30.7	30.7	68.7 68.8	68.8	5.4 5.4	5.4	5.4	6.4 6.3	6.4		8.0	8.0	
				Surface	1	17.0	17.0	19.2 19.2	19.2	7.2	7.2	32.9 32.9	32.9	94.6 94.7	94.7	7.4 7.4	7.4		4.9 4.6	4.8		10.0 10.0	10.0	
20-Feb-08	Fine	Moderate	12:25	Middle	3	16.9 16.9	16.9	19.2 19.2	19.2	7.2	7.2	32.9 32.9	32.9	94.9 94.7	94.8	7.4	7.4	7.4	5.7	5.8	5.5	15.0 15.0	15.0	14.7
				Bottom	5	16.8 16.8	16.8	19.2 19.2	19.2	7.2	7.2	32.9 32.9	32.9	93.9 93.7	93.8	7.4	7.4	7.4	5.8 5.7	5.8		19.0 19.0	19.0	
				Surface	1	19.6 19.6	19.6	18.0 18.0	18.0	7.2 7.2	7.2	33.0 33.0	33.0	99.6 98.7	99.2	6.8 6.7	6.8		6.8 6.9	6.9		15.0 15.0	15.0	
22-Feb-08	Rainy	Moderate	13:35	Middle	3	19.6 19.6	19.6	18.0	18.0	7.4	7.4	33.0 33.0	33.0	98.4 98.1	98.3	6.7	6.7	6.8	6.2 6.3	6.3	6.4	16.0 15.0	15.5	14.8
				Bottom	5	19.6 19.6	19.6	18.0 18.0	18.0	7.2 7.2	7.2	33.0 33.0	33.0	96.8 96.8	96.8	6.6 6.6	6.6	6.6	6.1 6.1	6.1		14.0 14.0	14.0	
				Surface	1	20.6 20.6	20.6	15.6 15.6	15.6	7.3 7.3	7.3	32.6 32.6	32.6	83.2 82.7	83.0	6.5 6.5	6.5		9.6 9.6	9.6		5.0 5.0	5.0	
25-Feb-08	Sunny	Moderate	14:31	Middle	3	20.5 20.5	20.5	15.6 15.6	15.6	7.1 7.1	7.1	32.8 32.8	32.8	84.6 84.5	84.6	7.4 7.2	7.3	6.9	9.6 9.6	9.6	9.4	13.0 13.0	13.0	12.0
				Bottom	5	20.4 20.4	20.4	15.6 15.6	15.6	7.2 7.2	7.2	33.0 33.0	33.0	89.7 89.3	89.5	7.0 7.0	7.0	7.0	9.0 9.0	9.0		18.0 18.0	18.0	
				Surface	1	13.9 13.9	13.9	16.2 16.2	16.2	7.2 7.2	7.2	33.0 33.0	33.0	99.1 99.1	99.1	6.7 6.7	6.7	0.7	8.3 8.3	8.3		15.0 15.0	15.0	
27-Feb-08	Fine	Moderate	15:56	Middle	3	13.9 13.9	13.9	16.2 16.2	16.2	7.2 7.2	7.2	33.1 33.1	33.1	97.7 96.8	97.3	6.6 6.5	6.6	6.7	8.5 8.5	8.5	8.3	5.0 6.0	5.5	10.8
				Bottom	5	13.7 13.7	13.7	16.2 16.2	16.2	7.1 7.1	7.1	33.1 33.1	33.1	98.7 96.9	97.8	6.7 6.6	6.7	6.7	8.1 8.1	8.1		12.0 12.0	12.0	
				Surface	1	17.2 17.2	17.2	17.1 17.1	17.1	7.2 7.2	7.2	28.9 28.9	28.9	78.5 78.2	78.4	5.3 5.3	5.3	5.3	4.4 4.5	4.5		4.0 5.0	4.5	
29-Feb-08	Fine	Moderate	17:02	Middle	3	18.6 18.6	18.6	17.1 17.1	17.1	7.2 7.2	7.2	29.1 29.5	29.3	77.7 75.4	76.6	5.3 5.1	5.2	5.3	4.9 5.3	5.1	5.4	5.0 5.0	5.0	8.2
				Bottom	5	18.0 18.0	18.0	17.1 17.1	17.1	7.1 7.1	7.1	29.8 29.6	29.7	69.1 69.8	69.5	4.7 4.7	4.7	4.7	6.6 6.5	6.6		15.0 15.0	15.0	1

Water Quality Monitoring Results at C1 - Mid-Flood Tide

Date	Weather	Sea	Sampling	Dent	h (m)	Water Tem	perature (°C)	Ambient Ten	nperature (°C)		рН	Salin	ity ppt	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTU	J)	Suspe	nded Solids	(mg/L)
Dale	Condition	Condition**	Time	Dept	n (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
				Surface	1	14.1 14.1 14.1	14.1	10.5 10.5 10.5	10.5	7.3 7.3 7.3	7.3	32.8 32.9 32.9	32.9	101.2 101.1 98.5	101.2	6.8 6.8 6.7	6.8	6.8	6.3 6.6 6.2	6.5		8.0 8.0 8.0	8.0	
1-Feb-08	Cloudy	Moderate	09:43	Middle	3	14.1 14.1 14.1	14.1	10.5 10.5 10.5	10.5	7.3 7.3	7.3	32.9 32.9 32.9	32.9	97.9 89.1	98.2	6.6 6.0	6.7		6.5 6.6	6.4	6.5	8.0 8.0 15.0	8.0	10.3
				Bottom	5	14.1 16.2	14.1	10.5	10.5	7.2	7.3	32.9 29.1	32.9	89.1 66.4	89.1	6.0 4.9	6.0	6.0	6.6 5.2	6.6		15.0	15.0	<u> </u>
4-Feb-08	Claudu	Madazata	11:00	Surface	1	16.0 16.4	16.1 16.4	13.0 13.0	13.0 13.0	7.1 7.1	7.1	29.1 30.0	29.1 30.0	65.2 66.5	65.8 65.5	4.8 4.9	4.9	4.9	5.2 3.6	5.2	4.3	14.0 15.0	14.0 14.5	12.3
4-Feb-06	Cloudy	Moderate	11:02	Middle Bottom	5	16.3 15.8	15.8	13.0 13.0	13.0	7.1 7.1	7.1	30.0 30.5	30.0	64.4 56.5	56.1	4.7 4.8	4.0	4.9	3.4 4.2	3.5 4.3	4.3	14.0 8.0	8.5	12.3
				Surface	1	15.8 19.6	19.6	13.0 13.6	13.6	7.1	7.0	30.6 30.0	30.0	55.7 76.7	75.9	4.9 5.5	5.5		4.4	4.6		9.0 11.0	11.0	<u> </u>
6-Feb-08	Cloudy	Moderate	17:02	Middle	3	19.6 19.6	19.7	13.6 13.6	13.6	7.0	7.2	30.0 30.2	30.4	75.1 73.1	73.7	5.5 6.4	6.6	6.1	4.5 5.6 5.7	5.7	5.9	11.0	10.0	10.7
	-			Bottom	5	19.7 19.7 19.7	19.7	13.6 13.6 13.6	13.6	7.2 7.1 7.0	7.1	30.5 30.9 30.7	30.8	74.3 73.1 73.3	73.2	6.8 6.4 6.4	6.4	6.4	5.7 7.4 7.3	7.4		10.0 11.0 11.0	11.0	
				Surface	1	15.2 15.2	15.2	11.0 11.0	11.0	7.2 7.2	7.2	33.0 33.0	33.0	96.3 95.9	96.1	7.3	7.3		5.9 6.0	6.0		7.0	7.0	
11-Feb-08	Sunny	Moderate	08:43	Middle	3	15.2 15.2 15.2	15.2	11.0 11.0 11.0	11.0	7.2	7.2	33.0 33.0	33.0	95.5 95.5	95.5	7.2 7.2 7.2	7.2	7.3	5.8 6.4	6.1	6.0	12.0 12.0	12.0	7.3
				Bottom	5	15.1 15.1	15.1	11.0 11.0	11.0	7.3 7.3	7.3	33.0 33.0	33.0	95.9 96.1	96.0	7.2 7.3	7.3	7.3	5.8 5.9	5.9		15.0 16.0	15.5	
				Surface	1	17.6 17.6	17.6	13.0 13.0	13.0	7.3 7.3	7.3	32.1 32.1	32.1	78.6 77.4	78.0	5.6 5.6	5.6	6.2	4.2 4.1	4.2		13.0 13.0	13.0	
13-Feb-08	Fine	Moderate	10:01	Middle	3	17.6 17.7	17.7	13.0 13.0	13.0	7.2 7.2	7.2	32.3 32.7	32.5	75.3 76.2	75.8	6.5 6.9	6.7	0.2	5.1 6.2	5.7	5.8	3.0 4.0	3.5	9.5
				Bottom	5	17.7 17.7	17.7	13.0 13.0	13.0	7.3 7.2	7.3	33.0 32.8	32.9	75.4 75.2	75.3	6.5 6.5	6.5	6.5	7.5 7.4	7.5		12.0 12.0	12.0	
				Surface	1	15.2 15.2 14.7	15.2	13.8 13.8 13.8	13.8	7.1 7.1 7.2	7.1	33.7 33.6 33.4	33.7	96.5 95.9 93.9	96.2	6.7 6.7 6.4	6.7	6.6	4.2 4.1 4.8	4.2		6.0 6.0 9.0	6.0	_
15-Feb-08	Fine	Moderate	11:47	Middle	3	14.9	14.8	13.8 13.8	13.8	7.2	7.2	33.3 33.3	33.4	92.4 89.7	93.2	6.3 6.1	6.4		4.6	4.7	4.4	9.0 19.0	9.0	11.3
				Bottom	5	15.2	15.2	13.8	13.8	7.1	7.1	33.3 29.1	33.3	90.6 71.4	90.2	6.2	6.2	6.2	4.4	4.3		19.0	19.0	<u> </u>
18-Feb-08	Sunnv	Moderate	15:32	Surface Middle	1	21.7 22.1	21.7 22.1	18.4 18.4	18.4 18.4	7.2 7.2	7.2	29.1 30.0	29.1 30.0	70.2 71.5	70.8	5.9 6.0	6.0 5.9	6.0	3.8 4.9	4.0 5.5	5.6	7.0 9.0	7.0 8.5	8.8
10-1 60-00	Sunny	Woderate	10.52	Bottom	5	22.0 21.5	21.5	18.4 18.4	18.4	7.2	7.2	30.0 30.5	30.6	69.4 61.5	61.1	5.8 5.3	5.3	5.3	6.1 7.3	7.3	5.0	8.0 11.0	11.0	0.0
				Surface	1	21.5	16.8	18.4	17.0	7.1	7.2	30.6 32.9	32.9	60.7 90.2	90.4	5.3 7.1	7.1		7.2 6.3	5.8		7.0	7.0	<u> </u>
20-Feb-08	Fine	Moderate	17:43	Middle	3	16.8 16.8 16.9	16.9	17.0 17.0 17.0	17.0	7.2 7.1 7.1	7.1	32.9 32.9 32.9	32.9	90.5 91.0 90.8	90.9	7.1 7.1 7.1	7.1	7.1	5.3 4.9 4.8	4.9	5.3	7.0 12.0 12.0	12.0	12.0
				Bottom	5	17.0 17.0	17.0	17.0 17.0	17.0	7.2	7.2	32.9 32.9	32.9	90.6 90.4	90.5	7.1	7.1	7.1	5.1 5.1	5.1		17.0	17.0	
				Surface	1	19.6 19.6	19.6	15.7 15.7	15.7	7.2 7.2	7.2	33.0 33.0	33.0	94.6 93.9	94.3	6.5 6.4	6.5		6.4 6.4	6.4		19.0 18.0	18.5	
22-Feb-08	Rainy	Moderate	08:47	Middle	3	19.6 19.6	19.6	15.7 15.7	15.7	7.2 7.2	7.2	33.0 33.0	33.0	91.3 91.2	91.3	6.2 6.2	6.2	6.4	6.8 6.7	6.8	6.6	7.0 7.0	7.0	11.5
				Bottom	5	19.6 19.6	19.6	15.7 15.7	15.7	7.1 7.1	7.1	33.0 33.0	33.0	90.6 90.6	90.6	6.2 6.2	6.2	6.2	6.4 6.6	6.5		9.0 9.0	9.0	
				Surface	1	20.9 20.8	20.9	13.9 13.9	13.9	7.1 7.1	7.1	32.1 32.1	32.1	88.1 85.3	86.7	6.8 6.6	6.7	6.7	9.1 9.0	9.1		13.0 12.0	12.5	_
25-Feb-08	Sunny	Moderate	08:37	Middle	3	20.7 20.7 20.6	20.7	13.9 13.9 13.9	13.9	7.2 7.2 7.2	7.2	32.4 32.4 32.7	32.4	85.7 85.8 87.6	85.8	6.7 6.7 6.9	6.7		9.8 9.8 9.8	9.8	9.6	7.0 7.0 16.0	7.0	11.8
				Bottom	5	20.6	20.6	13.9 13.9 11.1	13.9	7.1	7.2	32.7 32.7 33.0	32.7	87.9 93.4	87.8	6.9 6.3	6.9	6.9	9.8 9.8 8.6	9.8		16.0 16.0 7.0	16.0	
				Surface	1	13.7 13.7 13.7	13.7	11.1	11.1	7.1	7.1	33.0 33.0	33.0	92.3 92.4	92.9	6.3 6.3	6.3	6.3	8.5 8.5	8.6		7.0	7.0	-
27-Feb-08	Fine	Moderate	09:46	Middle	3	13.7 13.7	13.7	11.1 11.1	11.1	7.2	7.2	33.0 33.0	33.0	91.9 90.9	92.2	6.3 6.2	6.3		8.3 8.9	8.4	8.5	14.0	14.0	13.0
				Bottom	5	13.7 17.8	13.7	11.1 16.9	11.1	7.1 7.1	7.1	33.0 29.5	33.0	90.9 107.1	90.9	6.2 7.1	6.2	6.2	8.3 4.4	8.6		18.0 15.0	18.0	<u> </u>
00 E : 02			00.00	Surface	1	17.8	17.6	16.9 16.9 16.9	16.9	7.1	7.1	29.5 29.6 29.8	29.6	107.1 108.1 96.9	107.6	7.1 6.5	7.1	6.8	4.4 4.1 5.1	4.3		15.0 15.0 11.0	15.0	
29-Feb-08	Fine	Moderate	08:32	Middle	3	17.1	17.1	16.9 16.9	16.9	7.2	7.2	29.8 32.5	29.8	95.2 72.3	96.1	6.3 4.9	6.4	47	6.3 7.5	5.7	5.8	11.0	11.0	12.0
				Bottom	5	17.2	17.2	16.9	16.9	7.1	7.1	32.6	32.6	64.5	68.4	4.4	4.7	4.7	7.4	7.5		10.0	10.0	

Water Quality Monitoring Results at M1 - Mid-Ebb Tide

Data	Weather	Sea	Sampling	Denth	(m)	Water Tem	perature (°C)	Ambient Ter	nperature (°C)	ţ	рН	Salin	ity ppt	DO Satu	iration (%)	Disso	ved Oxygen	(mg/L)	1	Furbidity(NT	J)	Suspe	ended Solids	(mg/L)
Date	Condition	Condition**	Time	Depth	n (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
				Surface	1	20.1 20.4	20.3	13.8 13.8	13.8	7.0 7.1	7.1	30.5 30.6	30.6	83.5 87.2	85.4	6.7 6.8	6.8		4.7 4.5	4.6		8.0 8.0	8.0	
6-Feb-08	Cloudy	Moderate	12:41	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	5.1	-	-	9.3
				Bottom	3	20.2 20.2	20.2	13.8 13.8	13.8	7.2 7.2	7.2	30.9 30.9	30.9	81.2 83.7	82.5	6.4 6.6	6.5	6.5	5.5	5.6		11.0 10.0	10.5	
				Surface	1	15.2 15.2	15.2	11.0 11.0	11.0	7.1	7.1	33.0 33.0	33.0	96.5 96.0	96.3	7.3 7.2	7.3		5.9 5.9	5.9		8.0 8.0	8.0	
11-Feb-08	Sunny	Moderate	14:38	Middle	-	-	-	-	-	-	-	-	-		-	-	-	7.3	-	-	6.2	-	-	11.3
				Bottom	3	15.2 15.2	15.2	11.0 11.0	11.0	7.3 7.3	7.3	33.0 33.0	33.0	95.2 95.0	95.1	7.2	7.2	7.2	6.3 6.4	6.4		15.0 14.0	14.5	
				Surface	1	18.1 18.4	18.3	13.2 13.2	13.2	7.3 7.3	7.3	32.6 32.7	32.7	81.6 85.3	83.5	6.5 6.6	6.6		4.2	4.2		5.0	5.0	
13-Feb-08	Fine	Moderate	16:41	Middle	-	- 10.4	-	-	-	-	-		-		-	-	-	6.6	- 4.2	-	4.8	-	-	6.8
				Bottom	3	18.2	18.2	- 13.2 13.2	13.2	7.3	7.3	33.0	33.2	81.8	80.6	6.4	6.4	6.4	5.2	5.3		9.0	8.5	
				Surface	1	18.2	15.5	14.2	14.2	7.1	7.2	33.4 33.4	33.4	79.3 93.4	92.9	6.3 6.3	6.3		5.3 4.2	4.2		9.0	9.0	
15-Feb-08	Fine	Moderate	18:06	Middle	-	- 15.5	-	- 14.2	-	7.2	-	- 33.4	-	92.3	-	6.3	-	6.3	4.2	-	4.2	9.0	-	7.0
				Bottom	3	15.4	15.4	14.2	14.2	7.3	7.3	33.4	33.4	90.9	90.8	6.2	6.2	6.2	4.0	4.2		5.0	5.0	
				Surface	1	15.4 22.5	22.5	14.2 18.6	18.6	7.3	7.2	33.4 29.2	29.2	90.7 70.0	70.3	6.2 5.5	5.5		4.3	4.2		5.0 5.0	5.0	
18-Feb-08	Sunny	Moderate	11:11	Middle	-	- 22.4	-	- 18.6	-	7.2	-	- 29.2	-	- 70.5	-	5.5	-	5.5	3.8	-	4.7	5.0	-	6.0
				Bottom	3	22.2	22.2	- 18.6 18.6	18.6	7.3	7.3	29.3 29.4	29.4	72.5	72.5	5.7 5.6	5.7	5.7	5.6 4.8	5.2		7.0	7.0	
				Surface	1	16.8	16.8	19.2	19.2	7.2	7.2	32.9	32.9	72.5 85.5	85.5	6.7	6.7		5.2	5.2		9.0	9.0	
20-Feb-08	Fine	Moderate	12:13	Middle	-	16.8 -	-	19.2	-	7.2	-	32.9	-	- 85.4	-	6.7	-	6.7	5.2	-	5.2	9.0	-	11.0
				Bottom	3	16.8 16.8	16.8	- 19.2 19.2	19.2	7.3 7.3	7.3	32.9 32.9	32.9	84.6 84.3	84.5	6.6 6.6	6.6	6.6	5.0 5.3	5.2		13.0 13.0	13.0	
				Surface	1	19.6	19.6	18.0	18.0	7.2	7.2	33.0	33.0	92.8	92.7	7.0	7.0		6.1	6.5		6.0	6.0	
22-Feb-08	Rainy	Moderate	13:17	Middle	-	19.6 -	-	- 18.0	-	7.2	-	33.0	-	92.6	-	7.0	-	7.0	6.9	-	6.4	6.0	-	10.3
	-			Bottom	3	19.6 19.6	19.6	- 18.0 18.0	18.0	7.3	7.3	33.0 33.0	33.0	92.4 91.8	92.1	6.8 6.8	6.8	6.8	6.3 6.2	6.3		15.0 14.0	14.5	
				Surface	1	20.7	20.7	15.6	15.6	7.2	7.2	32.2	32.2	87.6	87.6	6.9	6.9		9.7	9.7		10.0	10.0	
25-Feb-08	Sunny	Moderate	14:15	Middle	-	- 20.7	-	- 15.6	-	7.2	-	32.2	-	87.5	-	6.9	-	6.9	9.7	-	9.8	- 10.0	-	12.0
				Bottom	3	20.7	20.7	15.6	15.6	7.3	7.3	32.5 32.5	32.5	88.8	88.9	7.0	7.0	7.0	9.8	9.8		14.0	14.0	
				Surface	1	20.7	13.7	15.6 16.2	16.2	7.3	7.1	33.1	33.1	88.9 92.8	92.7	6.9 6.3	6.3		9.8 9.3	9.2		14.0 7.0	7.0	
27-Feb-08	Fine	Moderate	15:40	Middle	-	13.7	-	16.2	-	7.1	-	33.1	-	92.6	-	6.3	-	6.3	9.1	-	9.1	7.0	-	10.3
				Bottom	3	13.6	13.7	- 16.2	16.2	7.2	7.2	33.1	33.1	92.4	92.1	6.3	6.3	6.3	8.9	9.0		13.0	13.5	
				Surface	1	13.7 16.2	16.2	16.2 17.1	17.1	7.2	7.1	33.1 29.1	29.2	91.8 72.8	73.0	6.2 4.9	5.0		9.0 4.7	4.5		14.0 3.0	3.0	
29-Feb-08	Fine	Moderate	17:11	Middle	-	- 16.2	-	17.1	-	7.1	-	- 29.2	-	73.2	-	5.0	-	5.0	4.2	-	5.1	3.0	-	7.0
				Bottom	3	18.2	18.3	17.1	17.1	7.2	7.2	- 29.2	29.3	73.4	72.9	5.0	5.0	5.0	5.8	5.6		- 11.0	11.0	
				20110111	2	18.3		17.1		7.2		29.3	20.0	72.3		4.9	0.0	0.0	5.3	0.0		11.0		

Water Quality Monitoring Results at M1 - Mid-Flood Ti M1

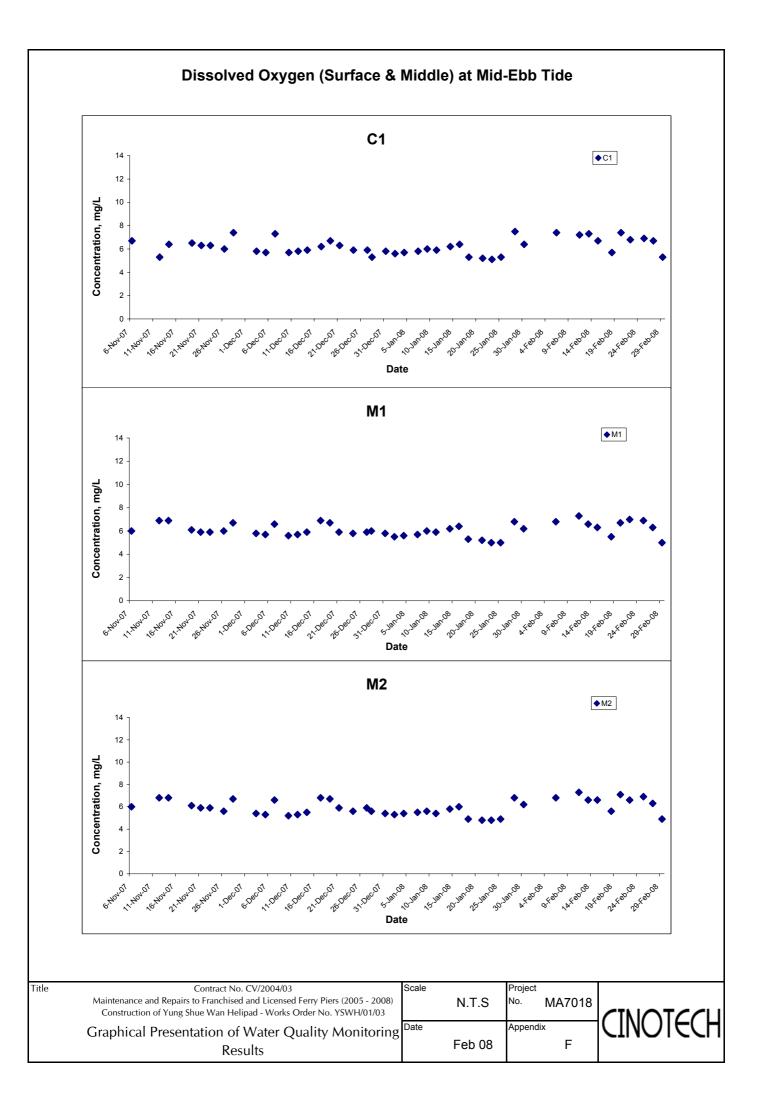
Date	Weather	Sea	Sampling	Dept	n (m)		perature (°C)	Ambient Ten			bН		ty ppt		ration (%)		ved Oxygen			urbidity(NTU			nded Solids	
50.0	Condition	Condition**	Time	Dopt		Value 13.9	Average	Value 10.5	Average	Value 7.3	Average	Value 32.9	Average	Value 102.1	Average	Value 6.9	Average	DA*	Value 6.8	Average	DA*	Value 10.0	Average	DA*
				Surface	1	13.9	13.9	10.5	10.5	7.3	7.3	32.9	32.9	102.1	102.2	6.9 -	6.9	6.9	6.9	6.9		10.0	10.0	
1-Feb-08	Cloudy	Moderate	09:36	Middle Bottom	- 3	- 13.8	- 13.8	- 10.5	- 10.5	7.4	- 7.4	32.9	- 32.9	93.5	93.5	6.4	- 6.4	6.4	6.9	- 6.8	6.9	- 14.0	- 14.5	12.3
				Surface	1	13.8 15.9	15.9	10.5	13.0	7.4	7.2	32.9 29.1	29.1	93.5 71.7	72.3	6.4 5.3	5.4		6.6 3.3	3.3		15.0 7.0	7.0	
4-Feb-08	Cloudy	Moderate	11:11	Middle	-	- 15.9	-	13.0	-	7.2	-	29.1	-	72.8	-	5.4	-	5.4	3.3	-	3.4	7.0	-	10.8
				Bottom	3	16.1 16.3	16.2	13.0 13.0	13.0	7.2 7.2	7.2	29.9 29.9	29.9	73.1 69.8	71.5	5.3 5.1	5.2	5.2	3.3 3.4	3.4		15.0 14.0	14.5	
				Surface	1	19.6 19.6	19.6	13.6 13.6	13.6	7.2 7.2	7.2	30.2 30.1	30.2	76.1 76.3	76.2	6.6 6.7	6.7	6.7	6.8 6.5	6.7		5.0 5.0	5.0	
6-Feb-08	Cloudy	Moderate	17:11	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	6.7	-	-	4.5
				Bottom	4	19.7 19.7	19.7	13.6 13.6	13.6	7.2 7.1	7.2	30.3 30.3	30.3	76.8 76.3	76.6	6.4 6.6	6.5	6.5	6.4 6.8	6.6		4.0 4.0	4.0	
				Surface	1	15.3 15.3	15.3	11.0 11.0	11.0	7.1 7.1	7.1	33.0 33.0	33.0	94.6 94.3	94.5	7.1 7.1	7.1	7.1	6.0 5.8	5.9		7.0 7.0	7.0	
11-Feb-08	Sunny	Moderate	08:36	Middle	-	15.2	-	11.0	-	7.2	-	33.0	-	94.4	-	7.1	-		6.1	-	6.0	- 8.0	-	7.0
				Bottom	3	15.2	15.2	11.0	11.0	7.2	7.2	33.0 32.3	33.0	94.9 78.1	94.7	7.2	7.2	7.2	6.0 6.3	6.1		7.0	7.5	
13-Feb-08	Fine	Moderate	10:11	Surface Middle	1	17.6	17.6	13.0	13.0	7.2	7.2	32.2	32.3	78.2	78.2	6.8	6.8	6.8	6.1	6.2	6.3	7.0	7.0	10.0
13-1 60-00	TINC	Moderate	10.11	Bottom	4	17.6	17.7	13.0	13.0	7.2	7.2	32.4	32.4	78.7	78.3	6.6	6.7	6.7	6.5	6.4	0.0	- 13.0	13.0	10.0
				Surface	1	17.7 15.2	15.2	13.0 13.8	13.8	7.2 7.2 7.2	7.2	32.4 33.0 33.1	33.1	77.9 95.3	95.1	6.7 6.5	6.5		6.3 5.0	4.6		13.0 4.0	4.0	
15-Feb-08	Fine	Moderate	11:29	Middle	-	- 15.2	-	13.8 -	-	- 1.2	-	- 33.1	-	94.9	-	6.5 -	-	6.5	4.2	-	4.8	4.0	-	5.0
				Bottom	3	15.2 15.2	15.2	13.8 13.8	13.8	7.2 7.2	7.2	33.1 33.2	33.2	94.3 94.2	94.3	6.4 6.4	6.4	6.4	4.9 4.9	4.9		6.0 6.0	6.0	1
				Surface	1	21.6 21.6	21.6	18.4 18.4	18.4	7.2 7.2	7.2	29.1 29.1	29.1	76.7 77.8	77.3	6.4 6.5	6.5	6.5	6.1 5.8	6.0		8.0 8.0	8.0	
18-Feb-08	Sunny	Moderate	15:41	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	6.1	-	-	7.0
				Bottom	4	21.8 21.7	21.8	18.4 18.4	18.4	7.2 7.2	7.2	29.9 29.9	29.9	78.1 74.8	76.5	6.4 6.2	6.3	6.3	6.3 6.1	6.2		6.0 6.0	6.0	
				Surface	1	16.9 16.9	16.9	17.0 17.0	17.0	7.2 7.2	7.2	32.9 32.9	32.9	93.0 93.1	93.1	7.3 7.3	7.3	7.3	3.8 3.8	3.8		8.0 9.0	8.5	_
20-Feb-08	Fine	Moderate	17:25	Middle	-	- 16.9	-	- 17.0	-	7.2	-	32.9	-	92.3	-	7.2	-		6.3	-	5.1	- 12.0	-	10.3
				Bottom	3	16.9 19.6	16.9	17.0	17.0	7.2	7.2	32.9 33.0	32.9	92.0 92.7	92.2	7.2	7.2	7.2	6.2 6.6	6.3		12.0	12.0	
22-Feb-08	Rainy	Moderate	08:30	Surface Middle	1	19.6	19.6	15.7	15.7	7.2	7.2	33.0	33.0	92.4	92.6	6.3	6.3	6.3	6.3	6.5 -	6.5	10.0	- 10.0	13.5
22-Feb-06	Rainy	woderate	08.30	Bottom	3	- 19.6	- 19.6	- 15.7	15.7	- 7.1	7.1	- 33.0	33.0	- 91.2	91.1	6.2	6.2	6.2	6.7	6.5	0.5	- 17.0	17.0	13.5
				Surface	1	19.6 20.6	20.6	15.7 13.9	13.9	7.1	7.3	33.0 32.7	32.7	91.0 85.9	86.6	6.2 6.7	6.8		6.3 9.8	9.8		17.0 5.0	5.5	
25-Feb-08	Sunny	Moderate	08:23	Middle	-	20.6	-	13.9	-	7.2	-	32.7	-	87.3	-	6.8	-	6.8	9.8	-	9.8	6.0	-	8.8
				Bottom	3	20.5 20.5	20.5	13.9 13.9	13.9	7.3 7.3	7.3	32.9 32.9	32.9	88.9 89.0	89.0	7.0 7.0	7.0	7.0	9.7 9.7	9.7		12.0 12.0	12.0	1
				Surface	1	13.9 13.9	13.9	11.1 11.1	11.1	7.2 7.2	7.2	33.2 33.2	33.2	94.9 95.7	95.3	6.4 6.5	6.5	6.5	8.6 9.1	8.9		6.0 6.0	6.0	
27-Feb-08	Fine	Moderate	09:31	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	8.5	-	-	12.0
				Bottom	3	13.4 13.4	13.4	11.1 11.1	11.1	7.1 7.1	7.1	33.2 33.2	33.2	91.7 91.6	91.7	6.3 6.2	6.3	6.3	8.1 8.1	8.1		18.0 18.0	18.0	
				Surface	1	17.2 17.2	17.2	16.9 16.9	16.9	7.2 7.2	7.2	29.4 29.5	29.5	93.4 96.7	95.1	6.2 6.4	6.3	6.3	6.3 6.2	6.3		4.0 4.0	4.0	
29-Feb-08	Fine	Moderate	08:41	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	-	-	6.4	-	-	6.3
				Bottom	4	17.2 17.2	17.2	16.9 16.9	16.9	7.1 7.1	7.1	29.8 29.8	29.8	93.6 91.1	92.4	6.2 6.1	6.2	6.2	6.5 6.3	6.4		9.0 8.0	8.5	

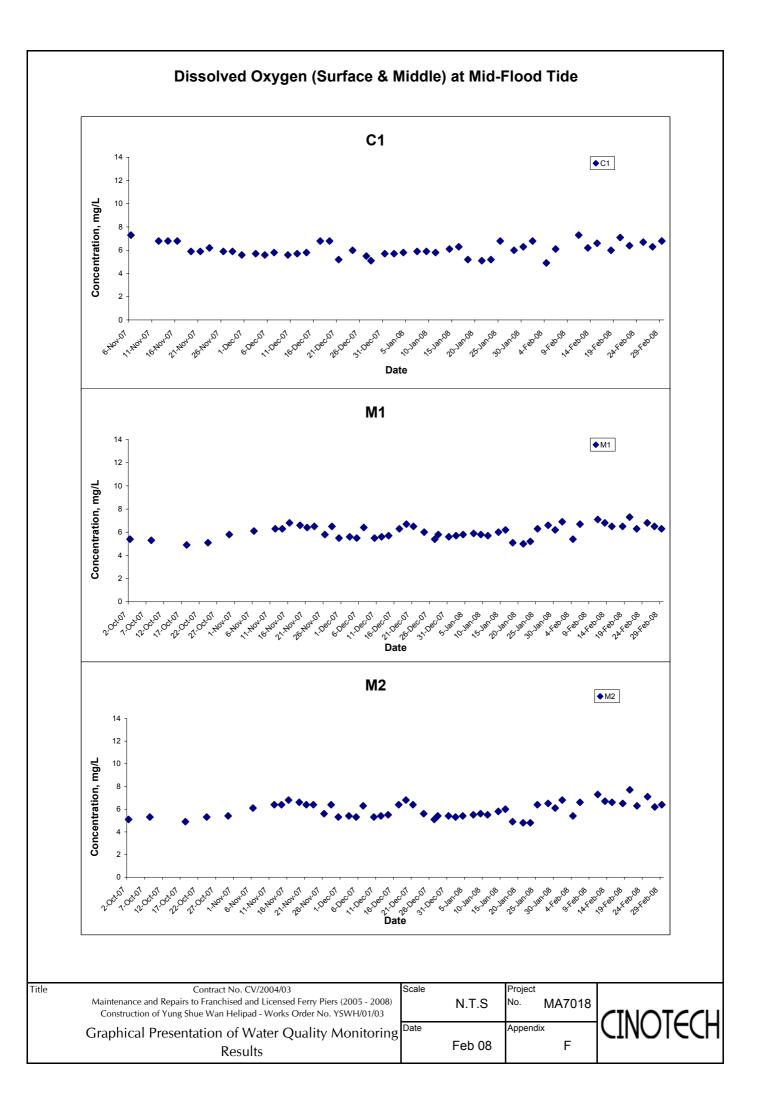
Water Quality Monitoring Results at M2 - Mid-Ebb Tide

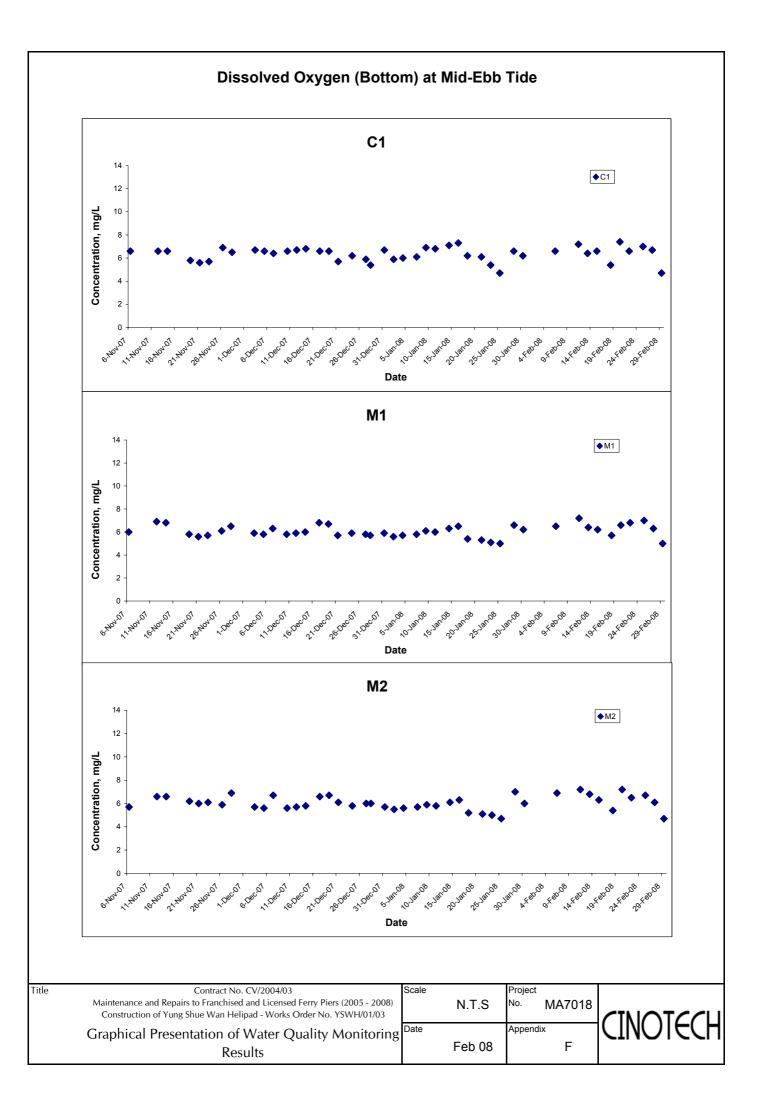
Data	Weather	Sea Condition**	Sampling	Depth (m)		Water Tem	perature (°C)	Ambient Temperature (°C)		pН		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
Date	Condition		Time			Value	Average	Value Average		Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
6-Feb-08 Cl				Surface	1	20.5 20.0	20.3	13.8 13.8	13.8	7.1 7.2	7.2	30.5 30.8	30.7	85.9 86.9	86.4	6.7 6.8	6.8	6.8	4.2 4.6	4.4	5.4	3.0 4.0	3.5	
	Cloudy	Moderate	12:52	Middle	-	-	-	-	-		-	-	-	-	-	-	-		-	-		-	-	3.8
				Bottom	3	19.9 19.6	19.8	13.8 13.8	13.8	7.1 7.1	7.1	31.4 31.8	31.6	85.5 88.4	87.0	6.7 7.0	6.9	6.9	6.1	6.4		4.0	4.0	
11-Feb-08		Moderate		Surface	1	15.2 15.2	15.2	11.0 11.0	11.0	7.2	7.2	33.0 33.0	33.0	97.2 96.5	96.9	7.3 7.3	7.3	7.3	6.5 6.8	6.7	6.8	16.0 15.0	15.5	
	Sunny		14:52	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	11.0
				Bottom	3	15.2 15.2	15.2	11.0 11.0	11.0	7.2 7.2	7.2	33.0 33.0	33.0	95.4 95.5	95.5	7.2 7.2	7.2	7.2	6.9 6.6	6.8		6.0 7.0	6.5	
				Surface	1	18.5 18.0	18.3	13.2 13.2	13.2	7.3	7.3	32.6 32.9	32.8	84.9 85.1	85.0	6.5 6.6	6.6		3.7	3.9		5.0 5.0	5.0	
13-Feb-08	Fine	Moderate	16:52	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	5.4	-	-	8.5
				Bottom	3	17.8 17.6	17.7	13.2 13.2	13.2	7.4 7.4	7.4	33.6 33.9	33.8	83.6 86.1	84.9	6.6 6.9	6.8	6.8	6.6 7.1	6.9		12.0 12.0	12.0	
15-Feb-08 Fine				Surface	1	15.3 15.4	15.4	14.2 14.2	14.2	7.2	7.2	33.5 33.5	33.5	97.2 96.3	96.8	6.6 6.5	6.6	6.6	4.6 4.1	4.4	4.3	4.0 5.0	4.5	5.3
	Fine	Moderate	18:23	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				Bottom	3	15.4 15.4	15.4	14.2 14.2	14.2	7.2 7.2	7.2	33.4 33.4	33.4	92.8 92.6	92.7	6.3 6.3	6.3	6.3	3.9 4.2	4.1		6.0 6.0	6.0	
				Surface	1	22.4 22.5	22.5	18.6 18.6	18.6	7.2 7.2	7.2	29.1 29.1	29.1	70.5 71.3	70.9	5.5 5.6	5.6	5.6	3.5 3.9	3.7	5.2	4.0 5.0	4.5	
18-Feb-08 St	Sunny	Moderate	11:22	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-		-	-	6.3
				Bottom	3	22.2 22.2	22.2	18.6 18.6	18.6	7.3 7.2	7.3	29.3 29.4	29.4	70.2 70.2	70.2	5.4 5.4	5.4	5.4	6.4 6.9	6.7		8.0 8.0	8.0	
			12:17	Surface	1	16.9 16.9	16.9	19.2 19.2	19.2	7.2 7.2	7.2	32.9 32.9	32.9	91.2 91.5	91.4	7.1 7.1	7.1		5.6 6.1	5.9		10.0 10.0	10.0	14.0
20-Feb-08	Fine	Moderate		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1	-	- 6.6	6.3	-	-	
				Bottom	3	16.9 17.0	17.0	19.2 19.2	19.2	7.3 7.3	7.3	32.9 32.9	32.9	91.9 91.7	91.8	7.2 7.2	7.2	7.2	6.9 6.2			18.0 18.0	18.0	
			13:28	Surface	1	19.6 19.6	19.6	18.0 18.0	18.0	7.2 7.2	7.2	33.0 33.0	33.0	96.9 96.6	96.8	6.6 6.6	6.6		6.6 6.5	6.6		15.0 15.0	15.0	15.5
22-Feb-08	Rainy	Moderate		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	6.8	-	-	
				Bottom	3	19.6 19.6	19.6	18.0 18.0	18.0	7.3 7.2	7.3	33.0 33.0	33.0	95.9 95.8	95.9	6.5 6.5	6.5	6.5	7.0 6.8	6.9		16.0 16.0	16.0	
				Surface	1	20.7 20.7	20.7	15.6 15.6	15.6	7.3 7.3	7.3	32.3 32.3	32.3	88.6 88.0	88.3	6.9 6.9	6.9	6.9	9.7 9.7	9.7	9.7	14.0 14.0	14.0	
25-Feb-08	Sunny	Moderate	14:21	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	13.0
				Bottom	3	20.6 20.6	20.6	15.6 15.6	15.6	7.2 7.2	7.2	32.6 32.7	32.7	86.2 86.2	86.2	6.7 6.7	6.7	6.7	9.6 9.	9.6		12.0 12.0	12.0	
		Moderate	15:47	Surface	rface 1	13.8 13.8	13.8	16.2 16.2	16.2	7.2 7.2	7.2	32.9 32.9	32.9	93.3 93.5	93.4	6.3 6.3	6.3		8.9 8.8	8.9		16.0 16.0	16.0	
27-Feb-08	Fine			Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3		-	8.5	-	-	11.5
				Bottom	3	14.1 14.0	14.1	16.2 16.2	16.2	7.2 7.1	7.2	32.9 32.9	32.9	90.6 89.5	90.1	6.1 6.1	6.1	6.1	8.1 8.1	8.1		7.0 7.0	7.0	1
		Moderate	17:22	Surface	1	18.1 18.1	18.1	17.1 17.1	17.1	7.2	7.2	28.9 28.9	28.9	71.8 72.1	72.0	4.9 4.9	4.9	3.	3.7 4.1	3.9	5.4	3.0 3.0	3.0	
29-Feb-08	Fine			Middle	-	-	-	-	-	-	-	-	-	-	-	-	-			-		-	-	8.8
				Bottom 3	3	18.4 18.3	18.4	17.1 17.1	17.1	7.2 7.2	7.2	29.3 29.3	29.3	69.6 68.6	69.1	4.7 4.6	4.7	4.7	6.6 7.1	6.9		15.0 14.0	14.5	1

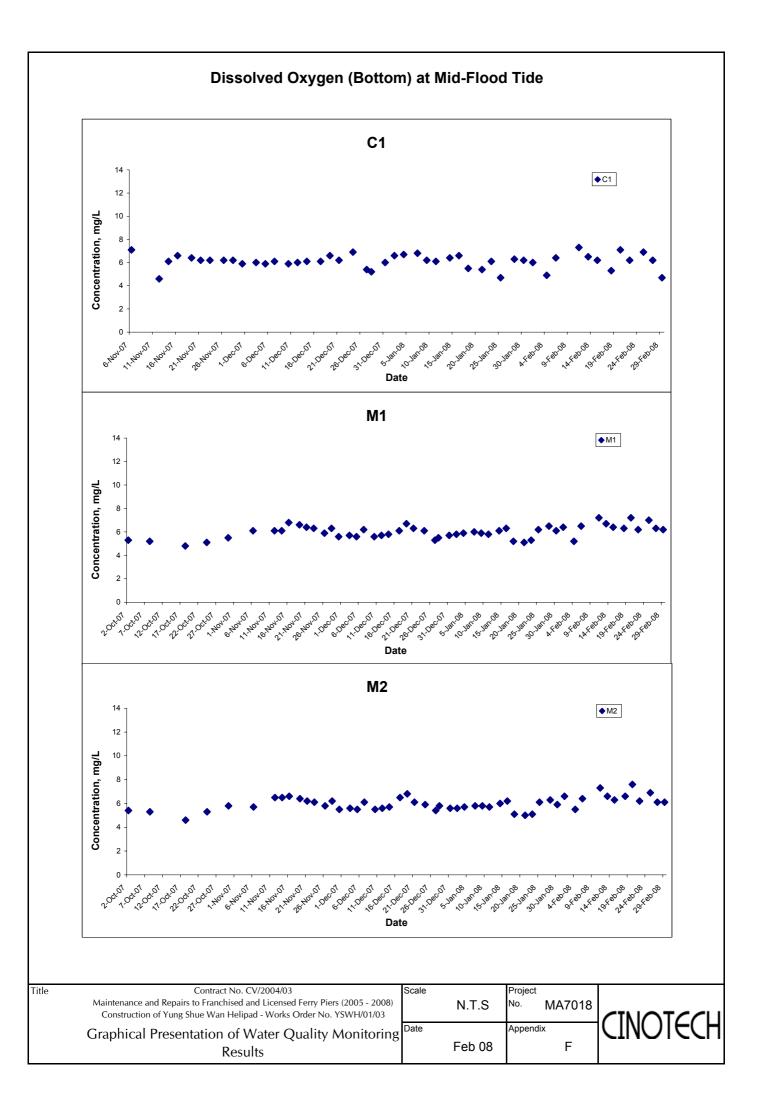
Water Quality Monitoring Results at M2 - Mid-Flood Ti M2

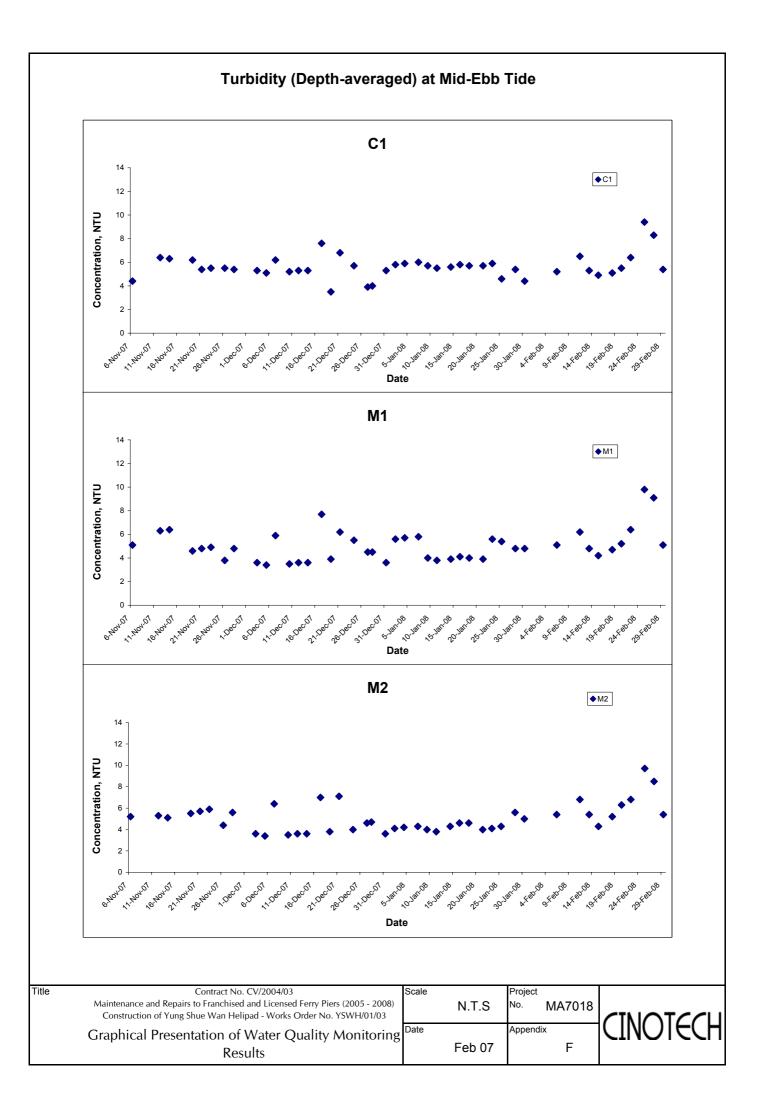
Date	Weather	Sea	Sampling	Dept	h (m)		perature (°C)		nperature (°C)		pН		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)			Furbidity(NTL		Suspended Solids		
Duic	Condition	Condition**	Time			Value Average		Value Average 10.5		Value 7.3	Average	Value 32.7	Average	Value 100.4	Average	Value 6.8	Average	DA*	Value 6.8	Average	DA*	Value 11.0	Average	DA*
1-Feb-08		Moderate	09:51	Surface	1	14.1	14.1	10.5	10.5	7.3	7.3	32.7	32.7	99.1	99.8	6.7	6.8	6.8	6.5	6.7	6.8	10.0	10.5	
	Cloudy			Middle Bottom	- 3	- 13.8	- 13.8	- 10.5	- 10.5	- 7.4	- 7.4	32.8	- 32.8	97.7	97.3	- 6.6	- 6.6	6.6	- 6.9	- 6.9		- 10.0	- 10.0	10.3
				Surface	1	13.8 15.9	15.9	10.5 13.0	13.0	7.4	7.2	32.8 29.1	29.1	96.8 72.8	73.4	6.5 5.4	5.4	0.0	6.9 3.4	3.4		10.0	10.0	<u> </u>
4-Feb-08	Cloudy	Moderate	11:22	Middle	-	- 15.9	-	13.0 -	-	7.2	-	29.1 -	-	73.9	-	5.4	-	5.4	3.3	-	3.4	- 10.0	-	10.0
				Bottom	3	15.9 15.8	15.9	13.0 13.0	13.0	7.2	7.2	29.6 29.6	29.6	74.8 74.1	74.5	5.5 5.4	5.5	5.5	3.3	3.3		10.0	10.0	ĺ
				Surface	1	19.7 19.7	19.7	13.6 13.6	13.6	7.2 7.2	7.2	30.1 30.0	30.1	75.7 75.1	75.4	6.6 6.6	6.6	6.6	4.7 4.6	4.7	5.1	7.0 7.0	7.0	
6-Feb-08	Cloudy	Moderate	17:22	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-		-	-	7.0
				Bottom	4	19.5 19.4	19.5	13.6 13.6	13.6	7.3 7.3	7.3	30.3 30.4	30.4	75.1 74.7	74.9	6.3 6.4	6.4	6.4	5.6 5.3	5.5		7.0 7.0	7.0	
		Moderate	08:51	Surface	1	15.2 15.2	15.2	11.0 11.0	11.0	7.1 7.1	7.1	33.0 33.0	33.0	97.2 96.6	96.9	7.3 7.3	7.3	7.3	6.1 6.2	6.2	6.3	6.0 6.0	6.0	l
11-Feb-08	Sunny			Middle	-	15.3	-	- 11.0	-	7.2	-	33.0	-	96.0	-	7.3	-		-	-		17.0	-	5.3
				Bottom	3	15.3	15.3	11.0	11.0	7.2	7.2	33.0 32.2	33.0	95.6 76.9	95.8	7.2	7.3	7.3	6.3 4.2	6.4		17.0	17.0	
13-Feb-08	Fine	Moderate	10:22	Surface Middle	1	17.6	17.7	13.0	13.0	7.3	7.3	32.1	32.2	77.9	77.4	6.7	6.7	6.7	4.1	4.2	5.3	8.0	8.0	11.0
13-Feb-06	Fille	wouerale		Bottom	4	- 17.5	- 17.5	- 13.0	13.0	- 7.3	7.3	32.4	32.5	- 77.4	77.0	- 6.5	6.6	6.6	- 6.1	6.3	5.5	- 14.0	14.0	-
				Surface	1	17.4 15.1	15.2	13.0 13.8	13.8	7.3	7.2	32.5 33.3	33.3	76.6 97.1	96.6	6.6 6.6	6.6	+	6.5 4.3	4.2		14.0 5.0	5.5	
15-Feb-08	Fine	Moderate	11:37	Middle	-	- 15.2	-	- 13.8	-	7.2	-	33.2	-	96.0	-	6.6 -	-	6.6	4.1	-	4.7	6.0	-	9.3
				Bottom	3	15.2 15.2	15.2	13.8 13.8	13.8	7.3 7.3	7.3	33.2 33.2	33.2	92.9 92.9	92.9	6.3 6.3	6.3	6.3	5.3 5.1	5.2		13.0 13.0	13.0	1
			15:52	Surface	1	21.5 21.6	21.6	18.4 18.4	18.4	7.3 7.3	7.3	29.1 29.1	29.1	77.8 78.9	78.4	6.5 6.5	6.5	6.5	4.2 3.9	4.1	5.1	4.0 5.0	4.5	8.3
18-Feb-08	Sunny	Moderate		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-		-	-	
				Bottom	3	21.6 21.5	21.6	18.4 18.4	18.4	7.3 7.3	7.3	29.6 29.6	29.6	79.8 79.1	79.5	6.6 6.5	6.6	6.6	5.9 6.3	6.1		12.0 12.0	12.0	
				Surface	1	16.9 17.0	17.0	17.0 17.0	17.0	7.2 7.2	7.2	32.9 32.9	32.9	99.3 98.8	99.1	7.7 7.7	7.7	7.7	3.3 3.1			10.0 10.0	10.0	8.3
20-Feb-08	Fine	Moderate	17:38	Middle	-	17.0	-		-	7.3	-	32.9	-	97.6	-	7.6	-		6.6		4.9	6.0	-	
				Bottom	3	16.9 19.6	17.0	17.0	17.0	7.2	7.3	32.9 33.0	32.9	97.2 91.7	97.4	7.6	7.6	7.6	6.5 6.8	6.6	<u> </u>	7.0	6.5	ļ
22-Feb-08	Rainy	Moderate	08:38	Surface Middle	1	19.6	19.6	15.7 -	15.7	7.2	7.2	33.0	33.0	91.6 -	91.7	6.2	6.3	6.3 6.9	6.9	6.9 -	6.9	10.0	10.0	13.0
2210500	rtainy	moderate		Bottom	3	- 19.6	19.6	15.7	15.7	7.3	7.3	33.0	33.0	90.7	90.7	6.2	6.2	6.2	- 6.9	6.9		- 16.0	16.0	
			08:30	Surface	1	19.6 20.8 20.8	20.8	15.7 13.9 13.9	13.9	7.3 7.2 7.2	7.2	33.0 32.1 32.2	32.2	90.7 89.6 89.7	89.7	6.2 7.1	7.1		6.9 9.8 9.8	9.8	9.8	16.0 12.0 12.0	12.0	
25-Feb-08	Sunny	Moderate		Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	7.1	-	-		-	-	13.5
				Bottom	3	20.7 20.7	20.7	13.9 13.9	13.9	7.4 7.3	7.4	32.4 32.4	32.4	87.2 88.0	87.6	6.8 6.9	6.9	6.9	9.8 9.8	9.8		15.0 15.0	15.0	1
		Moderate	09:36	Surface	1	13.7 13.7	13.7	11.1 11.1	11.1	7.2 7.2	7.2	33.1 33.2	33.2	90.6 89.7	90.2	6.2 6.1	6.2	6.2	8.3 8.2	8.3	Ī	13.0 13.0	13.0	
27-Feb-08	Fine			Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	- 8	8.5	-	-	15.5
				Bottom	3	13.7 13.7	13.7	11.1 11.1	11.1	7.3 7.3	7.3	32.9 32.9	32.9	89.7 89.2	89.5	6.1 6.1	6.1	6.1	8.3 9.1	8.7		18.0 18.0	18.0	
				Surface	1	17.2 17.2	17.2	16.9 16.9	16.9	7.2 7.2	7.2	29.5 29.5	29.5	95.8 96.8	96.3	6.4 6.4	6.4	6.4	4.4 4.1	4.3	5.3	12.0 12.0	12.0	
29-Feb-08	Fine	Moderate	08:52	Middle	-	-		-	-	-	-	-	-	-	-	-	-	5.4	-	-		-	-	12.0
				Bottom	3	17.2 17.2	17.2	16.9 16.9	16.9	7.3 7.3	7.3	30.3 30.7	30.5	95.4 84.5	90.0	6.4 5.7	6.1	6.1	6.1 6.5	6.3		12.0 12.0	12.0	

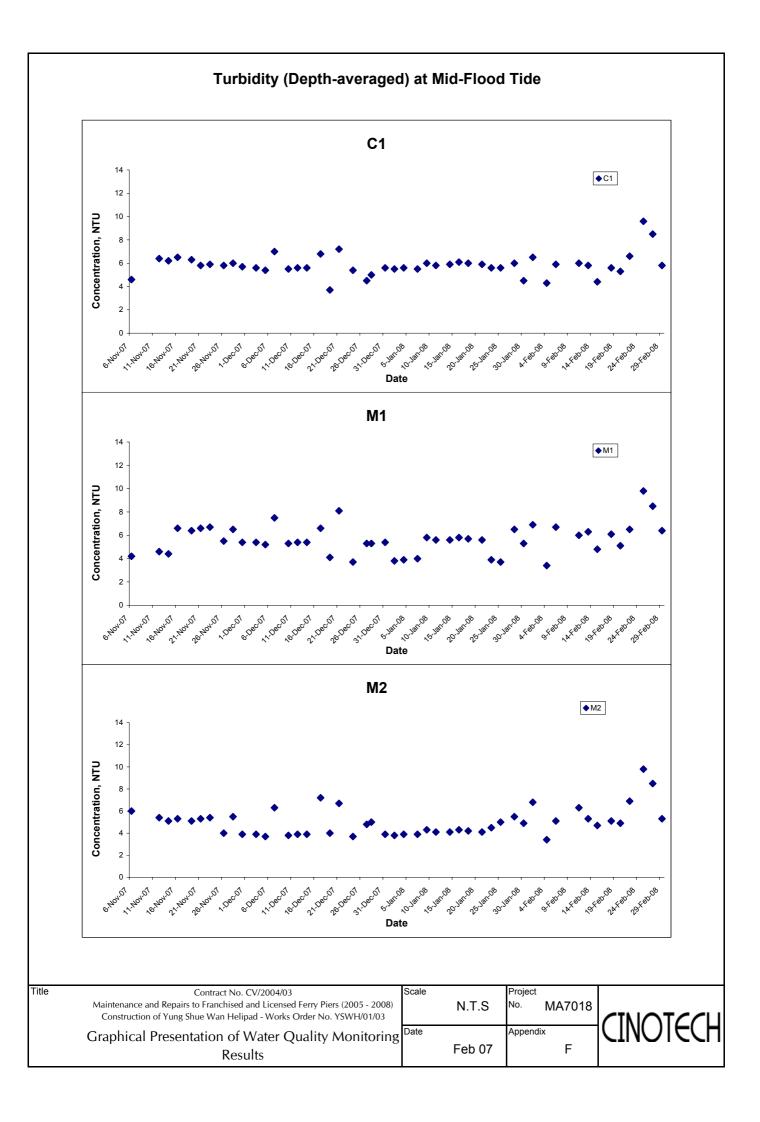


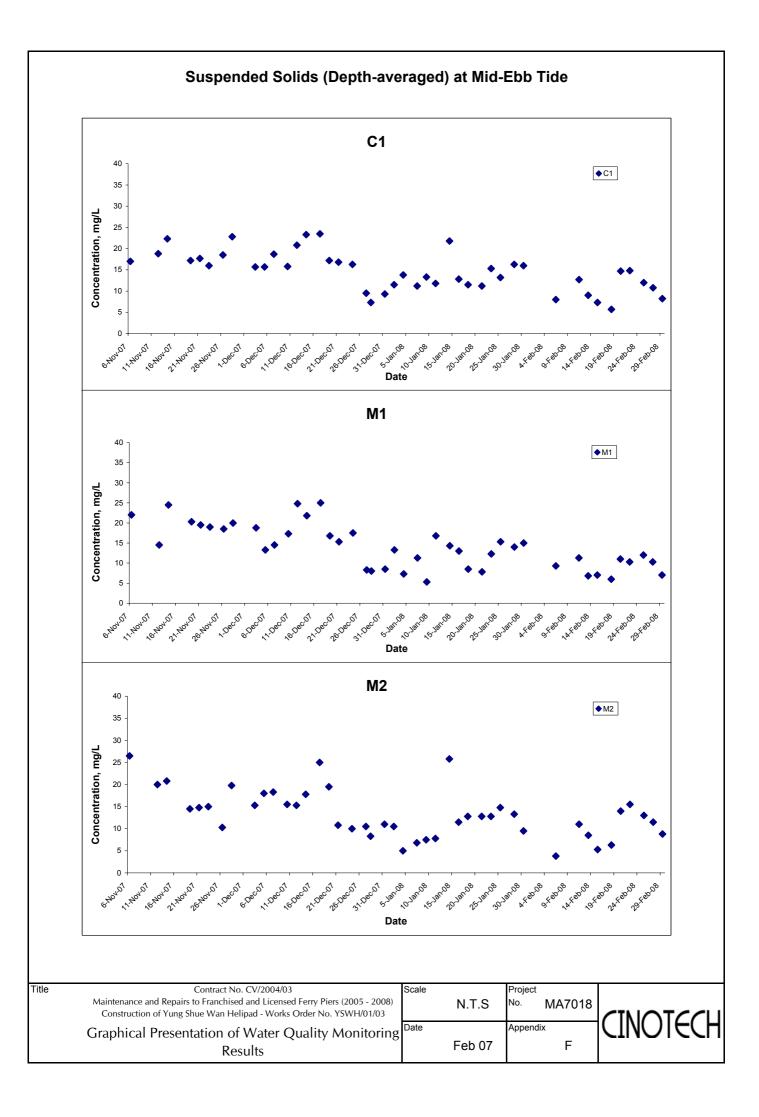


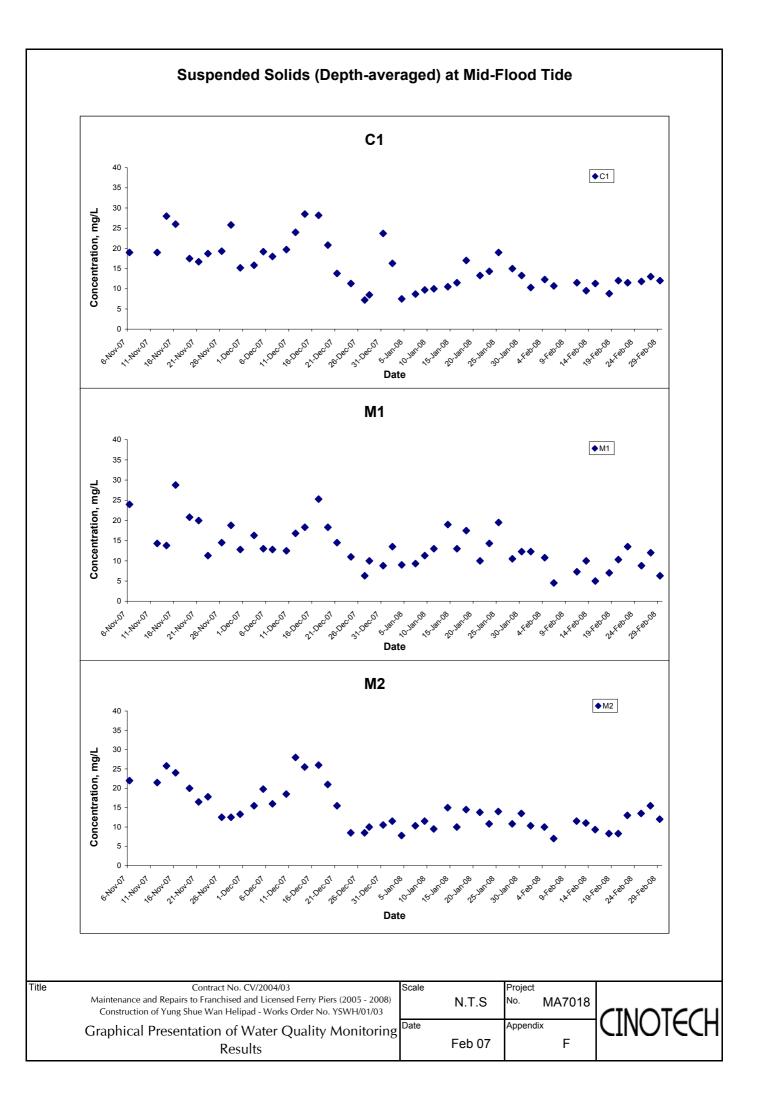












APPENDIX G SUMMARY OF EXCEEDANCE

Contract No. CV/2004/03 – Maintenance and Repairs to Franchised and Licensed Ferry Piers (2005-2008) Construction of Yung Shue Wan Helipad – Works Order No. YSWH/01/03

Exceedance Report

- (A) Exceedance Report for Construction Noise (NIL in the reporting month)
- (B) Exceedance Report for water quality monitoring (NIL in the reporting month)

APPENDIX H SITE AUDIT SUMMARY

Contract No. CV/2004/03 Construction of Yung Shue Wan Helipad

Inspection Information		
Checklist Reference Number	80206	
Date	6 February 2008	
Time	13:00	

Ref. No.	Non-Compliance	Related Item No.
-	None	-

Ref. No.	Remarks/Observations	Related Item No.
	Water Quality	
	• No environmental deficiency was identified during site inspection.	
	Air Quality	
	• No environmental deficiency was identified during site inspection.	
	Noise	
	• No environmental deficiency was identified during site inspection.	
	Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	Permit / Licenses	
	• No environmental deficiency was identified during site inspection.	
	Others	
	• Follow-up on previous site audit session (Ref. No. 80130), no environmental	
	deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Chan Hon Kwan	ey_	6 February 2008
Checked by	Dr. Priscilla Choy	WIL	6 February 2008

Contract No. CV/2004/03 Construction of Yung Shue Wan Helipad

Inspection Information		
Checklist Reference Number	80213	
Date	13 February 2008	
Time	13:00	

Ref. N	o. Non-Compliance	 Related Item No.
-	None	-

Ref. No.	Remarks/Observations	Related Item No.
	Water Quality	
	• No environmental deficiency was identified during site inspection.	
	Air Quality	
	• No environmental deficiency was identified during site inspection.	
	Noise	
	• No environmental deficiency was identified during site inspection.	
	Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	Permit / Licenses	
	 No environmental deficiency was identified during site inspection. 	
	- The environmental deficiency was identified during site inspection.	
	Others	
	• Follow-up on previous site audit session (Ref. No. 80206), no environmental	
	deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Chan Hon Kwan	er	13 February 2008
Checked by	Dr. Priscilla Choy	WT_	13 February 200

Contract No. CV/2004/03 Construction of Yung Shue Wan Helipad

Inspection Information		
Checklist Reference Number	80220	
Date	20 February 2008	
Time	10:25	

Ref. No.	Non-Compliance	Related Item No.
-	None	-

Ref. No.	Remarks/Observations	Related Item No.
	Water Quality	
	• No environmental deficiency was identified during site inspection.	
	Air Quality	
	• No environmental deficiency was identified during site inspection.	
	Noise	
	• No environmental deficiency was identified during site inspection.	
	Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	Permit / Licenses	
	• No environmental deficiency was identified during site inspection.	
	Others	
	• Follow-up on previous site audit session (Ref. No. 80213), no environmental	
	deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Yeung Wing Kun	da	20 February 2008
Checked by	Dr. Priscilla Choy	NTL	20 February 2008

Contract No. CV/2004/03 Construction of Yung Shue Wan Helipad

Inspection Information	
Checklist Reference Number	80227
Date	27 February 2008
Time	10:00

Ref. No.	Non-Compliance	Related Item No.
-	None	-

Ref. No.	Remarks/Observations	Related Item No.
	Water Quality	
	• No environmental deficiency was identified during site inspection.	
	Air Quality	
	• No environmental deficiency was identified during site inspection.	
	Noise	
	• No environmental deficiency was identified during site inspection.	
	Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	Permit / Licenses	
	• No environmental deficiency was identified during site inspection.	
	Others	
	• Follow-up on previous site audit session (Ref. No. 80220), no environmental	
	deficiency was identified during site inspection.	

	Name	Şignature	Date
Recorded by	Yeung Wing Kun	çu	27 February 2008
Checked by	Dr. Priscilla Choy	with	27 February 2008

APPENDIX I SUMMARY OF AMOUNT OF WASTE GENERATED

Appendix I

Name of Department: CWE-ZHEC Joint Venture

Monthly Summary Waste Flow Table For <u>2008</u> (year)

	Actua	l Quantities of Ir	nert C&D Materi	als Generated Mo	onthly	А	ctual Quantities	of C&D Waste (Generated Month	ly
Month	Total Quantity Generated	Broken Concrete (see Note 2)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 1)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.000	0.000	0.000	0.000	20.000	0.000	0.000	0.000	0.000	5.000
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000
Mar										
Apr										
May										
Jun										
Sub-total	0.000	0.000	0.000	0.000	20.000	0.000	0.000	0.000	0.000	10.000
July										
Aug										
Sep										
Oct										
Nov										
Dec										
Total	0.000	0.000	0.000	0.000	20.000	0.000	0.000	0.000	0.000	10.000

Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material. Notes: (1)

(2) Broken concrete for recycling into aggregates.

APPENDIX J EVENT ACTION PLANS

APPENDIX J – Event / Action Plan

Table J-1 Event / Action Plan Construction Noise

Event	ACTION						
	ET Leader		IC (E)		ER	Contractor	
Action	1. Notify IC(E) and Contractor	1.	Review the analysed results	1	. Confirm receipt of notification	1. Submit noise mitigation	
Level	2. Carry out investigation		submitted by the ET		of failure in writing	proposal to IC(E)	
Lever	3. Report the results of	2.	Review the proposed	2	. Notify Contractor	2. Implement noise mitigation	
	investigation to the IC(E) and		remedial measures by the	3	. Require Contractor to propose	proposals	
	Contractor		Contractor and advise the		remedial measures for the		
	4. Discuss with the Contractor and		ER accordingly		analysed noise problem		
	formulate remedial measures	3.	Supervise the	4	. Ensure remedial measures are		
	5. Increase monitoring frequency to		implementation of remedial		properly implemented		
	check mitigation effectiveness		measures				

Limit	1. Notify IC(E), ER, EPD and	1. Discuss amongst ER, ET,	1. Confirm receipt of notification	1. Take immediate action to
Linnt Level	Contractor	and Contractor on the	of failure in writing	avoid further exceedance
Level	2. Identify source	potential remedial actions	2. Notify Contractor	2. Submit proposal for remedial
	3. Repeat measurement to confirm	2. Review Contractor's	3. Require Contractor to propose	actions to IC(E) within 3
	findings	remedial actions whenever	remedial measures for the	working days of notification
	4. Increase monitoring frequency	necessary to assure their the	analysed noise problem	3. Implement the agreed
	5. Carry out analysis of	ER accordingly	4. Ensure remedial measures are	proposals
	Contractor's working procedures	3. Supervise the	properly implemented	4. Resubmit proposals if
	to determine possible mitigation	implementation of remedial	5. If exceedance continues,	problem still not under
	to be implemented	measures	consider what portion of the	control
	6. Inform IE(E), ER and EPD the		work is responsible and	5. Stop the relevant portion of
	causes & actions taken for the		instruct the Contractor to stop	works as determined by the
	exceedances		that portion of work until the	ER until the exceedance is
	7. Assess effectiveness of		exceedance is abated	abated
	Contractor's remedial actions			
	and keep IC(E), EPD and ER			
	informed of the results			
	8. If exceedance stops, cease			
	additional monitoring			

Table J-2 Event / Action Plan for Water Quality Monitoring

EVENT		ACTION			
	ET	IEC	ER	CONTRACTOR	
ACTION LEVEL					
1.Exceedance for one sample	 Identify source Inform ER & IEC Repeat measurement to confirm finding Increase monitoring frequency to daily 	1. Check monitoring data submitted by ET	1.Notify Contractor2.Check monitoring data and Contractor's working methods	 Rectify any unacceptable practice Amend working methods if appropriate 	
2.Exceedance for two or more consecutiv e samples	 Identify source Inform ER & IEC Repeat measurements to confirm findings Increase monitoring frequency to daily Discuss with ER & IEC for remedial actions required If exceedance continues, arrange meeting with ER & IEC If exceedance stops, cease additional monitoring 	 Checking monitoring data submitted by ET Advise the ER & ET on the effectiveness of the proposed remedial measures Supervise the implementation of the remedial measures 	 Confirm receipt of notification of failure in writing Notify Contractor Check Contractor's working methods Discuss with ET, IEC and Contractor on proposed remedial actions Ensure remedial actions properly implemented 	 Submit proposals for remedial actions to ER within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate 	
LIMIT LEVEL			I	<u> </u>	
1.Exceedance for one sample	 Identify source Inform ER & IEC and EPD Repeat measurement to confirm finding Increase monitoring frequency to daily Assess effectiveness of Contractor's remedial actions and keep EPD and ER & IEC informed of the results 	 Check monitoring data submitted by ET Advise the ER & ET on the effectiveness of the proposed remedial measures Supervise the implementation of the remedial measures 	 1.Confirm receipt of notification of failure in writing 2.Notify Contractor 3.Check monitoring data and Contractor's working methods 4.Discuss with ET, IEC and Contractor on proposed remedial actions 5.Ensure remedial actions properly implemented 	1.Take immediate action to avoid further exceedance2.Submitproposalsfor remedialfor actionswithin 3workingdaysof notification3.Implementthe agreed proposals4.Amendproposal if appropriate	
2.Exceedance	1. Identify source	1.Check monitoring data submitted by	1.Confirm receipt of notification of	1. Take immediate action to	

EVENT		ACTION		
EVENI	ET	IEC	ER	CONTRACTOR
for two or more consecutiv e samples	 Inform ER, IEC and EPD the causes & actions taken for the exceedances Repeat measurement to confirm findings Increase monitoring frequency to daily Investigate the causes of exceedance Arrange meeting with & IEC and ER to discuss the remedial actions to be taken Assess effectiveness of Contractor's remedial actions and keep ER, IEC and EPD informed of the results If exceedance stops, cease additional monitoring 	ET 2.Review Contractor's remedial actions to assure their effectiveness and advise the ER accordingly 3.Supervise the implementation of the remedial measures	 failure in writing 2.Notify Contractor 3.Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented 4.Discuss amongst ET, IEC and the Contractor on proposed remedial actions 5.Ensure remedial measure are properly implemented 6.If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated 	 avoid further exceedance 2. Submit proposals for remedial actions to ER within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Types of Impacts	Mitigation Measures	Status
	• Restricting heights from which materials are dropped, as far as practicable to minimise the fugitive dust arising from unloading/loading.	^
	• All stockpiles of excavated materials or spoil of more than 50m ³ should be enclosed, covered or dampened during dry or windy conditions.	^
	• Effective water sprays should be used to control potential dust emission sources such as unpaved haul roads and active construction areas.	^
	All spraying of materials and surfaces should avoid excessive water usage.	^
Construction Dust	• Vehicles that have the potential to create dust while transporting materials should be covered, with the cover properly secured and extended over the edges of the side and tail boards.	^
	Materials should be dampened, if necessary, before transportation.	^
	• Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension from the operating haul trucks.	^
	• Vehicle washing facilities will be provided to minimize the quantity of material deposited on public roads.	^
	• Erection of hoarding not less than 2.4m high from ground level along the site boundary.	^
Construction	Construction Phase	
Noise	• Use of silenced plant, or plant equipped with mufflers or dampers in substitute or ordinary plant.	^
	• Movable noise barriers positioned as close as possible to PMEs such that none of the PMEs will be visible when viewed from any noise sensitive facades.	^
	• Noisy equipment and noisy activities should be located as far away from the NSRs as is practical.	٨
	Unused equipment should be turned off.	٨
	 Number of powered mechanical equipment (PME) should be kept to minimum and the parallel use of noisy equipment/machinery should be avoided. 	^

Appendix K - Summary of Environmental Mitigation Implementation Schedule

Types of Impacts	Mitigation Measures	Status			
•	Regular maintenance of all plant and equipment.	^			
	Observe and comply with the statutory requirements and guidelines.	^			
	Operation Phase				
	• Use of quieter helicopter type EC 155 B1 in priority.				
	• Reduce the angle of the helicopter flight path from the standard 150 degrees to 80 degrees for the 'EC 155 B1' and to 70 degrees for 'Super Puma AS332 L2' helicopter	-			
	• The helipad will be solely for emergency use.	-			
	Silt curtain to be installed surrounding the whole of the piling site.	^			
	Good site practice				
	 Particular care should be taken when demolishing the existing concrete planter to ensure no waste enters the water column. 	N/A			
	• Particular care should be taken when decommissioning the silt curtain to avoid sudden dispersion of muddy water which may cause adverse impact to the nearby marine life;	N/A			
	• Materials storage areas should be located well away from the seawall, and any such areas should be covered during the works.	^			
Ecology	• The holding tank for sediment excavated from within the pile casing should be fitted with a tight fitting seal to prevent leakage.	N/A			
	Ensure that excavator seal is tightly closed and the hoist speed is suitably low.	N/A			
	• The holding tank should not be filled to a level that will cause overflow of sediment during loading and transportation.	N/A			
	Large objects should be removed from the excavator grab to avoid sediment spills.	N/A			
	• The helipad shall be constructed by using small diameter pre-bored piling instead of dredging and reclamation.	-			
	Construction Phase				
Water Quality	Silt curtain to be installed surrounding the whole of the piling site.	^			
	Good site practice				

Types of Impacts	Mitigation Measures	Status
·	The holding tank should be fitted with a tight fitting seal to prevent sediment leakage.	N/A
	Ensure that excavator grab seal is tightly closed and the hoist speed is suitably low.	N/A
	• The holding tank should not be filled to a level which will cause overflow of sediment during loading and transportation.	N/A
	Large objects should be removed from the excavator grab to avoid sediment spills.	N/A
	The helipad shall be constructed by using small diameter pre-bored piling instead of dredging and reclamation.	-
Waste / Chemical	• Ensure that proper handling, storage, transportation and disposal of materials is implemented at the outset and throughout the construction phase of the helipad.	^
	• In line with Government's position on waster minimization, the practice of avoiding and minimizing waster generation and waste recycling should be adopted as far as practicable.	^
	• An on-site environmental co-ordinator should be identified at the outset of the works. The co-ordinaror shall prepare a Waste Management Plan.	^
	• Spoil generated from the piling activities will need to be properly handled to minimize contamination to the marine water and any exposed ground areas due to leakage or improper storage (i.e. onto bare ground instead of into tanks).	^
	• The reuse/recycling of all materials on site shall be investigated prior to treatment/disposal off site	^
	• Good site practices shall be adopted from the commencement of works to avoid the generation of waste and to promote waste minimization practices.	^
	• All waste material shall be sorted on site into inert and non-inert C&D materials, and where the materials will be recycling or reused, these shall be further segregated. The Contractor shall be responsible for identifying which materials can be recycled/reused, whether on site or off site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the refuse transfer station whilst any non-inert C&D material shall be re-used on site as far as possible. If no use of the material can be found on site, the inert C&D material can be delivered to a public filling area, public barging point or public stockpile area after obtaining the appropriate licence.	۸
	• A trip ticket system should be established at the outset of the construction of the helipad to monitor the disposal of C&D and solid wastes from the site to public filling facilities and landfills.	^

Types of Impacts	Mitigation Measures	Status								
	• The Contractor shall register with EPD as a Chemical Waste Producer if there is any use of chemicals on site including lubricants, paints, diesel fuel, etc. Only licensed chemical waste collectors shall be employed to collect any chemical waster generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the relevant guidelines as published by Government.	^								
	 A sufficient number of covered bins shall be provided on site for the containment of general refuse to previsual impacts and nuisance to sensitive receivers. These bins shall be cleared daily and the collected we disposal of to the refuse transfer station. Further to the issue of Environment, Transport and Works Bun Technical Circular (Works) No. 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness, Contractor is required to maintain a clean and hygienic site throughout the Project works. 									
	All Chemical toilets shall be regularly cleaned and the nightsoil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal.									
	• Tool box talks shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.									
	Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions.									
	• The helipad shall be constructed by using small diameter pre-bored piling instead of dredging and reclamation.									
	Operation Phase									
	• The helipad will only be used for emergency purposes. No equipment will be placed on the landing pad or along the EVA. Helicopters will not be parked at the landing pad and all repair and maintenance works (on the helicopters) will be conducted off site. As such the only source of waste generation during the operation of the helipad is anticipated to be from the long-term maintenance of the pad.									
Remarks:	^ Compliance of mitigation measure; X Non-compliance of mitigation measure;									
	N/A Not Applicable; •Non-compliance but rectified by the contractor;									
	* Recommendation was made during site audit but improved/rectified by the contractor.									

APPENDIX L CONSTRUCTION PROGRAMME

ID Task Name		Duration	Start	Finish		'0	'08 Jan			'08 Feb					'(08 Mar	'08 Mar			
1	Construction of Yubg Shue Wan Helipad	266 days	'07 Aug 2	'08 Apr 23	32	33	34	35	36	37	38		39	40	41		43	44		
2	Piling Works	254 days	'07 Aug 2	'08 Apr 11																
3	Fabrication of Steel Casing	72 days	'07 Aug 4	'07 Oct 14																
4	Erection of Silt Curtain	14 days	'07 Aug 2	'07 Aug 15																
5	Ground Investigation (Pre-Drilling)	28 days	'07 Aug 16	'07 Sep 12																
6	Pre-bored H-Pile Works (22nos.)	120 days	'07 Oct 15	'08 Feb 11							<u> </u>									
7	Piling Test	60 days	'08 Feb 12	'08 Apr 11																
8	Erection of Bracing Beam to Piles	60 days	'08 Feb 12	'08 Apr 11							Č									
9																				
10	Superstructure Works	192 days	'07 Oct 15	'08 Apr 23																
11	Fabrication of Pre-cast Concrete Unit	90 days	'07 Oct 15	'08 Jan 12		<u> </u>														
12	Pile Cap Construction	45 days	'08 Mar 10	'08 Apr 23																
'rojec)ate:	ct: Yueng Shue Wan Helipad - R '08 Mar 6 Progress			¢ mmary				nal Task nal Mile ⁻	Task	¢			Pi	rogres	S					

APPENDIX M COMPLAINT LOG Contract No. CV/2004/03 Maintenance and Repairs to Franchised and Licensed Ferry Piers (2005 – 2008) Construction of Yung Shue Wan Helipad – Works order No. YSWH/01/03 Monthly EM&A Report

APPENDIX M – COMPLAINT LOG

Reporting Month: February 2008

Log Ref.	Location Received Date		Details of Complaint	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint was received in the reporting month.