

ENVIRONMENTAL MONITORING AND AUDIT REPORT

FOR

CONTRACT NO. CV/2004/02

RECONSTRUCTION OF WONG SHEK AND KO LAU WAN PUBLIC PIERS

Wong Shek Report June 2005

Certified by:

Date: _____

Mr. Wilson Fok Environmental Specialist

Certified by:

Date:

Mr. Joseph Poon Independent Checker (Environment)

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EXECUTIVE SUMMARY

This is the 4th monthly Environmental Monitoring and Audit (EM&A) report for Contract No. CV/2004/02 – Reconstruction of Wong Shek and Ko Lau Wan Public Piers and it covers the environmental monitoring works conducted in June 2005. As requested by CEDD, two-separated reports will be issued for monitoring result for Wong Shek and Ko Lau Wan, with respectively. In this report it only covers the monitoring result for Wong Shek Public Pier.

Construction Activities for the Reported Period

Major construction works at Wong Shek carried out this month included:

- Piling work for temporary berth

Water Quality Monitoring

Water quality monitoring in terms of turbidity, dissolved oxygen, suspended solids, temperature, and salinity was carried out on six occasions at MK1, MK2, MK3, MK4, CK1 and CK2 at Wong Shek Pier. There were no exceedances to the Action Levels and Limit Levels for all parameters except the dissolved oxygen level during the reported period. All the dissolved oxygen concentration exceeded the limit level.

The exceedances were due to increasing temperature of the marine water during the summer period. The temperatures ranged from 24 °C to 28 °C were recorded during June 2005. At these temperature the solubility of dissolved oxygen in marine water exposed to water saturated air at 760mmHg can be achieved are ~7.11 mg/L (24°C) & 6.95 mg/L (28°C). Therefore the "limit level" of dissolved oxygen for Wong Shek Public Pier constructed from baseline period from January to February 2005 (water temperature: 16 - 17 °C) cannot be met event the dissolved oxygen in marine water was saturated.

The dissolved oxygen levels for all the monitoring locations were comparable to the control point. There was no significant diminish of dissolved oxygen level for all monitoring locations at Wong Shek Public Pier. In terms of dissolved oxygen, the water quality for all the monitoring locations was satisfactory.

Waste Management

No C&D material, general refuse or chemical waste was transported off site in this reported period.

Complaints, Notifications of Summons and Successful Prosecutions

No complaints, notifications of summons and successful prosecutions were received this month.

Site Inspections

Four site inspections were conducted by Environmental Specialist (ES) in this reported period. Due to low level of works in the reporting period, no major deficiency was identified

An audit by the Independent Environmental Checker (IEC) was conducted on 16 June 2005 with the CEDD Representative and the Environmental Team. No major comment was made by IEC during the course of inspection.

Future Key Issues

The tentative works activities, predicted impacts and areas of environmental concern for the month following this reported period are summarized in the following table.

Works Activities	Predicted Impacts	Proposed Mitigation Measures
Piling work for	• Water	• The silt curtain should be properly installed
temporary berth.		before carrying out the piling work.
Construction of preliminary pile	· Noise	• Avoid concurrent noisy operation during the erection of deck for the temporary berth
and pile loading	· Waste	· Construction and demolition materials should be
test		sorted
Erection of deck	· Noise	· Avoid concurrent noisy operation during the
for temporary berth		erection of deck for the temporary berth
	• Waste	 Construction and demolition materials should be sorted
Construction of	· Noise	\cdot Avoid concurrent noisy operation during the
main piles		erection of deck for the temporary berth
	• Waste	 Construction and demolition materials should be sorted

Reporting of Changes

Generally, the baseline monitoring was conducted according to the Particular Specification (PS) Section 26 - Environmental Mitigation Measures and Monitoring Requirements and hence no revision to the EM&A requirements was made.

1. INTRODUCTION

1.1 Background

Stanger Asia Ltd. has been commissioned by Kin Shing Construction Company Limited to provide an Environmental Specialist (ES) to carry out the environmental monitoring and audit works for the Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers. The team is to take a pro-active role in all issues, which may be of environmental concern during the construction period of the Project. As requested by CEDD, two-separated reports will be issued for monitoring result for Wong Shek and Ko Lau Wan, with respectively. In this report it only covers the monitoring result for Wong Shek Public Pier.

In this report, the water quality monitoring works conducted in June 2005 will be detailed and reviewed. This report has been produced with reference to the Section 26 of the Particular Specification, Project Profile (PP-191/2003) and Environmental Permit (EP-186/2004) produced for this Project.

1.2 Report Structure

The purpose of this report is to detail and review the water quality monitoring works undertaken for June 2005. The impact forecast for the next reporting month and the schedules of monitoring works for the following month are also given.

The report follows the format given below:

- Section 1: Introduction and background information to the content of this report
- Section 2: This section gives the information of the project
- Section 3: This section summarizes all the environmental permits and licenses
- Section 4: Summary of the EM&A requirements is presented
- Section 5: This section details the implemented mitigation measures
- Section 6: Details monitoring results
- Section 7: Audit the monitoring results
- Section 8: The status for solid and liquid waste management for the site is overviewed
- Section 9: Complaints, notifications of summons and successful prosecutions are summarized
- Section 10: This section gives the predicted impacts of the construction activities
- Section 11: This section gives a conclusion in relation to all monitoring activities.

2. **PROJECT INFORMATION**

2.1 Site Description

The construction works, Contract No. CV/2004/02, is to be carried out under the direction of the Civil Engineering Office, Civil Engineering and Development Department. It comprises demolition of the existing piers and construction of reinforced concrete piers with roof covers at Wong Shek and Ko Lau Wan.

The construction of the Project is scheduled to commence in November 2004 for completion in August 2006. The construction period is 630 days for the entire construction.

2.2 Project Organization

The Project Proponent and the Engineer is Civil Engineering Office, Civil Engineering and Development Department. The Resident Engineer is Mr. W H Lee. (Tel: 2760 5737; Fax: 2714 2054; Mobile Phone No: 9630 1235)

The Main Contractor for this project is Kin Shing Construction Company Limited. The Site Agent is Mr. Simon Fok (Tel: 2729 6779; Fax: 2729 7858; Mobile Phone No: 6010 8730).

The Independent Checker (Environment) is MateriaLab Consultants Limited. The Manager is Mr. Joseph T L Poon. (Tel: 2452 7140; Fax: 2450 6138; Mobile Phone No: 9450 1968)

The Environmental Specialist proposed for this project is Stanger Asia Limited. The Environmental Specialist is Mr. Wilson Fok. (Tel: 2682 1203; Fax: 2682 0046; Mobile Phone No: 6105 4260) The environmental organization chart is attached in Appendix I

2.3 Construction Programme

Details of the construction activities carried out in June 2005 are summarized below. The master construction programme is given in Appendix IX.

Wong Shek

- Piling work for temporary berth

3. ENVIRONMENTAL PERMITS AND LICENSES

The summary of the status of all environmental permits, licenses and notification for this project as of June 2005 is summarized in the following table.

Description	Licence/	Issued Date	Expiry Date	Status
	Permit No.			
Environmental	EP-186/2004	16 Mar 04		Issued
Permit				
Registration of	WPN5213-742-	12 May 05		Issued
Chemical Waste	K1081-05			
Producer				

 Table 3.1
 Summary of the Environmental Permits and Licenses

4. SUMMARY OF EM&A REQUIREMENTS

4.1 Monitoring Locations

For Wong Shek, MW1 to MW2 are the two designated monitoring stations whereas CW1 and CW2 are the two designated control stations. CW2 is the control station during flood tides whereas CW1 is the control station during ebb tides.

The locations of each station are given Figure 4.2, their coordinates are given in Table 4.1 below.

		8
Station	HK Metric Grid – Easting	HK Metric Grid - Northing
	Wong Shek Public Pier	
MW1	852 789.231	832 978.476
MW2	852 844.187	832 878.676
CW1	852 922.540	833 067.718
CW2	852 992.314	832 853.794

 Table 4.1
 Coordinates of Water Quality Monitoring Locations

4.2 Monitoring Parameters

Water quality shall be monitored in terms of: dissolved oxygen (mg/L and % saturation), salinity (ppt), turbidity (NTU), and suspended solids (mg/L).

The parameters of dissolved oxygen, salinity and turbidity were measured on-site with portable instruments. Other relevant data was also recorded, including monitoring location / position, time, water depth, salinity, temperature, tidal stages, weather conditions and any special phenomena or work underway at the construction site.

The measurement of suspended solids was carried out in the laboratory of Stanger Asia Ltd. within 24 hours of sampling. The laboratory is HOKLAS accredited to determine suspended solids content in accordance with APHA Method No. 2540D, 20th Edition.

4.3 Monitoring Frequency

Impact Monitoring – piling and demolition works

Monitoring shall be undertaken three days per week, at mid-flood and mid-ebb. The interval between two sets of monitoring shall not be less than 36 hours except where there are exceedances of Action and /or Limit levels, in which case the monitoring frequency shall be increased.

Impact Monitoring – marine works other than piling and demolition works

Monitoring shall be undertaken one day per week, at mid-flood and mid-ebb. The interval between two sets of monitoring shall not be less than 36 hours except where there are exceedances of Action and /or Limit levels, in which case the monitoring frequency shall be increased.

4.4 Monitoring Equipment

Monitoring of marine water quality shall be carried out employing the following equipment.

Dissolved Oxygen, Salinity and Temperature Measuring Equipment

A YSI model 85 Handheld Dissolved Oxygen, Conductivity, Salinity and Temperature System was employed.

The instrument is portable, weatherproof instrument complete with cable, sensor, comprehensive operation manuals and operates from a DC power source. It is capable of measuring:

- (a) dissolved oxygen in the range of 0-20mg/L and 0-200% saturation
- (b) temperature in the range of $5 65^{\circ}$ C
- (c) salinity in the range of 0-80ppt

The instrument has a membrane electrode with automatic temperature and salinity compensation, complete with a cable of sufficient length. Sufficient stocks of spare electrodes and cables are available for replacement where necessary.

Turbidity Measurement Instrument

A Hach 2100P turdimeter shall be employed

This instrument measures turbidity on-site by the nephelometric method. The instrument is portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment operates from a DC power source and has a photoelectric sensor capable of measuring turbidity between 0-1000NTU.

Suspended Solids

A Kahlisco Water Sampler 135WB203 was employed. This is a "Van Dorn" type of sampler, which has a transparent PVC cylinder (of a capacity not less than 2 litres) and can be effectively sealed with cups at both ends, shall be used for sampling. The sampler has a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is to the selected water depth.

Water samples for suspended solids measurements shall be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to the laboratory as soon as possible after collection.

Water Depth

A Hummingbird 100SX digital echo-sounder was employed. This is a portable, batteryoperated Echo Sounder to be used for the determination of water depth at each water quality monitoring and control station. This unit can be either be hand-held or affixed to the bottom of the work boat if the same vessel is used throughout the monitoring programme.

Vessel Positioning Device

A Trimble NT200D Differential Global Positioning (DGPS) was employed. This is a portable or boat fixed and has an accuracy of ± 1 m and can be programmed with waypoints to ensure the correct and repeated positioning of a vessel at a given monitoring location.

4.5 Monitoring Equipment Calibration Requirements

All on-site monitoring equipment shall be checked, verified and calibrated by Stanger Asia Limited, a HOKLAS accredited laboratory, prior to use on the Works and subsequently thereafter every three months throughout all stages of the water quality monitoring. Responses of the sensors and electrodes shall be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement.

For on-site calibration of field equipment, the BS 1427: 1993 "Guide to Field and onsite test methods for the analysis of waters" shall be observed.

A set of backup monitoring instruments and equipment shall be made available so that the monitoring can proceed uninterrupted in case of apparatus malfunction or if equipment has been returned to the laboratory for calibration.

4.6 Monitoring Methodology

Measurements were be taken under two tidal conditions (mid-flood and mid-ebb) at 3 water depths, namely 1m below the water surface, mid-depth and 1m above the seabed, except where the water depth is less than 6m, the mid-depth sample may be omitted. If the water depth is less than 3m, only the mid-depth will be monitored.

Replicate in-situ measurements and samples were collected from each independent sampling event are required for all parameters to ensure a robust statistical interpretable dataset.

For the measurement of dissolved oxygen the probe shall be removed from the water column between each duplicate measurement. If the difference between each duplicate measurement is greater than a 25% then the two sets of data shall be rejected and the measurements re-taken.

4.7 Action and Limit Levels

Water quality criteria, namely Action and Limit levels were based on the results of the baseline monitoring programme. The Action and Limit levels were calculated according to the following table.

Parameter	Action Level	Limit Level
Dissolved	Surface & Middle	Surface & Middle
Oxygen in mg/L	For Wong Shek - 6.96	For Wong Shek - 6.69
(Surface, Middle		
& Bottom)	Bottom	Bottom
	For Wong Shek - 6.93	For Wong Shek - 6.71
SS in mg/L	For Wong Shek - 6.85 or 120%	For Wong Shek - 8.85 or 130%
(depth-averaged)	of upstream control station's	of upstream control station's SS
(SS at the same tide of same	at the same tide of same day,
	day, whichever is lower	whichever is lower
Turbidity (Tby)	For Wong Shek - 1.47 or 120%	For Wong Shek - 4.05 or 130%
in NTU	of upstream control station's	of upstream control station's
(depth-averaged)	Tby at the same tide of same	Tby at the same tide of same
	day, whichever is lower	day, whichever is lower
<i>Notes:</i> (a) "depth-averaged" is calculated by taking the arithmetic means of reading all three depths.		
	DO, non-compliance of the water qua	ulity limits occurs when monitoring
	It is lower than the limits.	,
(c) For	SS and Tby, non-compliance of the	e water quality limits occurs when
	nitoring result is higher than the limits.	
	the figures given in the table are used	
тау	amend the figures whenever it is cons	sidered as necessary.

 Table 4.2
 Action and Limit Levels for Water Quality Monitoring

4.8 Event and Action Plans

The Event and Action Plans for air, noise and water are attached in Appendix III of this report.

5. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

The contractor implemented various environmental mitigation measures as recommended in the Particular Specification and Environmental Permit. The implementation status is attached in Appendix IV.

6. MONITORING RESULTS

6.1 Completed Monitoring Works

Table 6.1 gives the completed monitoring works for the reported period.

	Table 6.1	Completed 1	Monitoring V	Vorks for Jun	ne 2005	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
			2		2	
			WQM ³		WQM ³	
			(Ebb: 07:59)		(Ebb: 09:58)	
_			(Flood: 13:39)		(Flood: 16:07)	11
5	6	7	8	9	10	11
	WQM ³		WQM ³		WQM ³	
	(Ebb: 12:11)		(Ebb: 13:30)		(Ebb: 13:20)	
	(Flood: 16:43)		(Flood: 07:11)		(Flood: 06:39)	
12	13	14	15	16	17	18
		2		WQM ³		WQM ³
		WQM ³		(Ebb: 07:16)		(Ebb: 09:17)
10	•	(Ebb: 16:03)		(Flood: 12:42)		(Flood: 15:44)
19	20	21	22	23	24	25
	WQM ³		WQM ³		WQM ³	
	(Ebb: 10:37)		(Ebb: 11:17)		(Ebb: 14:09)	
	(Flood: 16:42)		(Flood: 18:19)		(Flood: 07:48)	
26	27	28	29	30		
		WQM ³		WQM ³		
		(Ebb: 17:30)		(Ebb: 07:25)		
		(Flood: 10:46)		(Flood: 13:22)		



Notes WQM - water quality monitoring on mid-flood and mid-ebb tides at Wong Shek (CW1, CW2, MW1 & MW2)

6.2 Water Quality Monitoring

Water quality monitoring in terms of turbidity, dissolved oxygen, suspended solids, temperature, and salinity was carried out on six occasions at MW1, MW2, CW1 and CW2 at Wong Shek Pier. Results for water quality monitoring are summarised in the following table. Detailed monitoring results are presented in Appendix V. Graphical presentations of results are shown in Figure 6.1 – Figure 6.8.

=	bic 0.2 Builling Of	Water Quality Mo.		
Sample	Surface & Middle	Bottom	Averaged	Averaged
Location	Averaged DO,	Averaged DO,	Turbidity, NTU	Suspended
	mg/L	mg/L		Solids, mg/L
		Wong Shek - Floo	d Tide	
MW1	7.07	6.95	1.10	2.3
MW2	7.08	6.96	1.09	2.6
CW1	7.07	6.96	1.06	2.6
CW2	7.12	7.02	1.10	2.7
		Wong Shek - Ebb	Tide	
MW1	7.04	6.92	1.08	2.7
MW2	7.05	6.94	1.11	3.0
CW1	7.03	6.84	1.07	2.9
CW2	7.06	6.95	1.10	3.2

Table 6 2	Summary of Water Quality Monitoring Data
	Summary of Water Quanty Monitoring Data

7. AUDIT REPORT

7.1 Water Quality Monitoring

During the reported period, there were no exceedances to Trigger, Action and Target Level for all parameters except the dissolved oxygen level.

All the dissolved oxygen concentration exceeded the limit level. The exceedances were due to increasing temperature of the marine water during the summer period. The temperatures ranged from 24 °C to 28 °C were recorded during June 2005. At these temperature the solubility of dissolved oxygen in marine water exposed to water saturated air at 760mmHg can be achieved are ~7.11 mg/L (24°C) & 6.95 mg/L (28°C). Therefore the "limit level" of dissolved oxygen for Wong Shek Public Pier constructed from baseline period from January to February 2005 (water temperature: 16 - 17 °C) cannot be met event the dissolved oxygen in marine water was saturated.

The dissolved oxygen levels for all the monitoring locations were comparable to the control point. And there was no significant diminish of dissolved oxygen level for all monitoring locations at Wong Shek Public Pier, so in terms of dissolved oxygen, the water quality for all the monitoring locations was satisfactory.

7.2 Site Inspections

Four site inspections were conducted by Environmental Specialist (ES) in this reported period. Due to low level of works in the reporting period, no major deficiency was identified.

An audit by the Independent Environmental Checker (IEC) was conducted on 16 June 2005 with the CEDD Representative and the Environmental Team. No major comment was made by IEC during the course of inspection.

8. WASTE MANAGEMENT

No C&D material, general refuse or chemical waste was transported off site in this reported period.

9. COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

No complaints, notifications of summons and successful prosecutions were received.

Complaint Log is attached in Appendix VI. Cumulative statistics on complaints, notifications of summons and successful prosecutions are attached in Appendix VII.

10. FUTURE KEY ISSUES

The following are the scheduled construction activities for the next reported period. Scheduled monitoring activities for the following month is given in Appendix VIII.

		Vorks i rogramme for June 2005
Works	Predicted	Proposed Mitigation Measures
Activities	Impacts	
Piling work	· Water	· The silt curtain should be properly installed
for temporary		before carrying out the piling work.
berth.		
Construction	· Noise	· Avoid concurrent noisy operation during the
of preliminary		erection of deck for the temporary berth
pile and pile	· Waste	· Construction and demolition materials should be
loading test		sorted
Erection of	· Noise	· Avoid concurrent noisy operation during the
deck for		erection of deck for the temporary berth
temporary	· Waste	· Construction and demolition materials should be
berth		sorted
Construction	· Noise	• Avoid concurrent noisy operation during the
of main piles		erection of deck for the temporary berth
	· Waste	\cdot Construction and demolition materials should be
		sorted

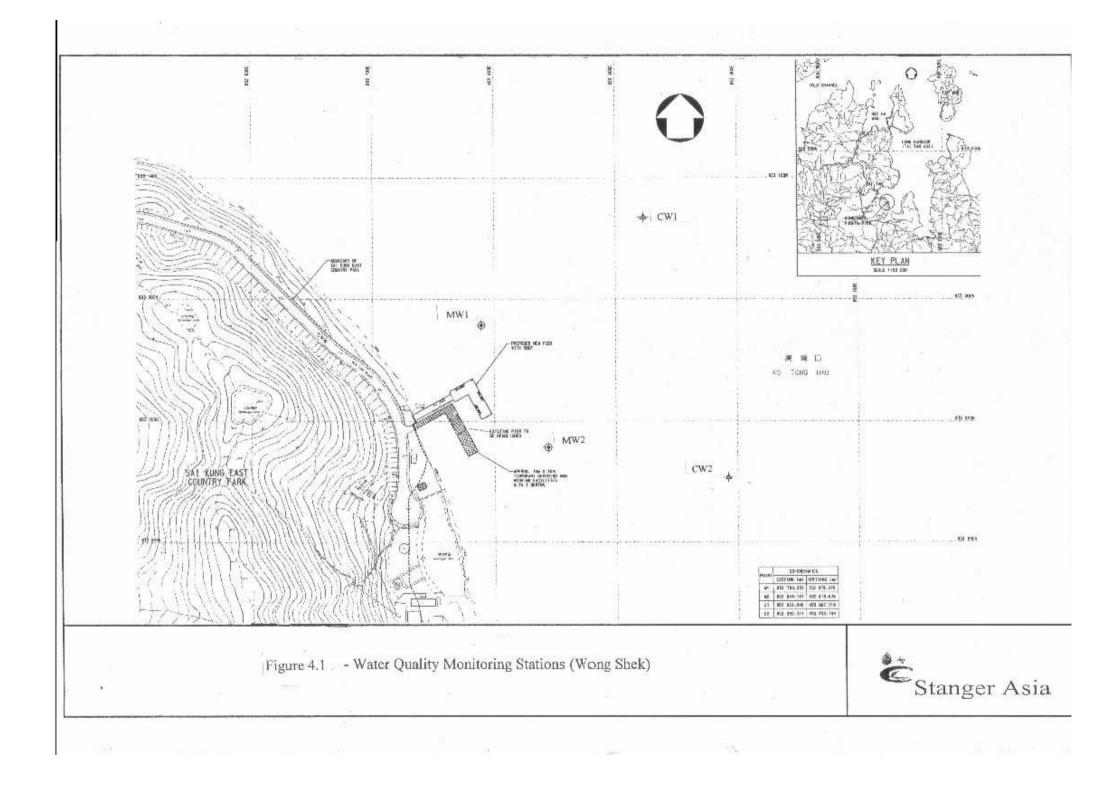
Table 10.1	Works Programme for June 2005
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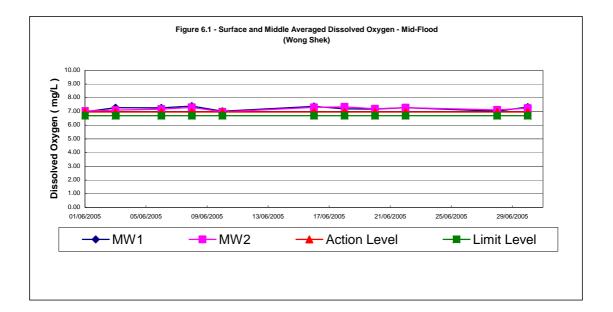
11. CONCLUSION

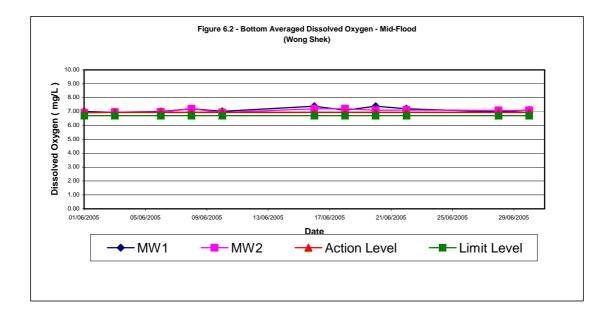
For water quality monitoring, there were no exceedances to the Action Level and Limit Levels recorded during the reported period except the dissolved oxygen level. The exceedances were due to the increasing temperature of the marine water during summer period. The dissolved oxygen levels for all the monitoring locations were comparable to the control point and without any significant diminish of dissolved oxygen level. Therefore these events were not considered to be site-related.

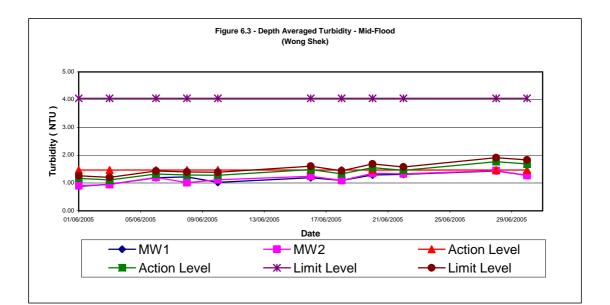
No complaints, notifications of summons and successful prosecutions were received in this month.

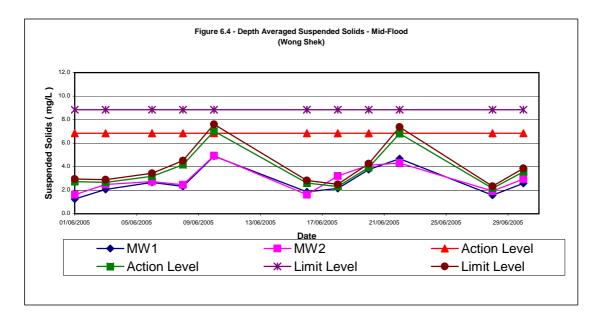
Figures

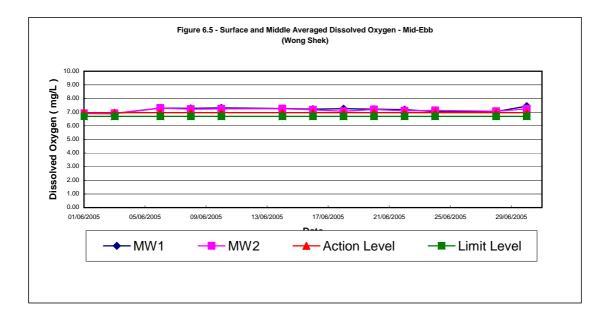


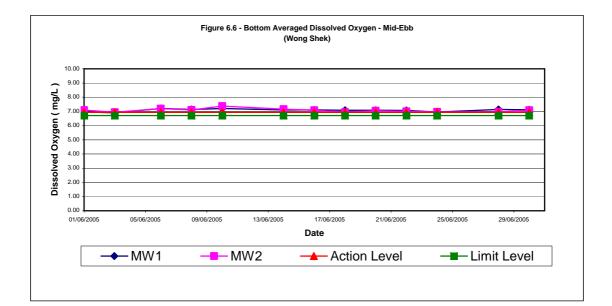


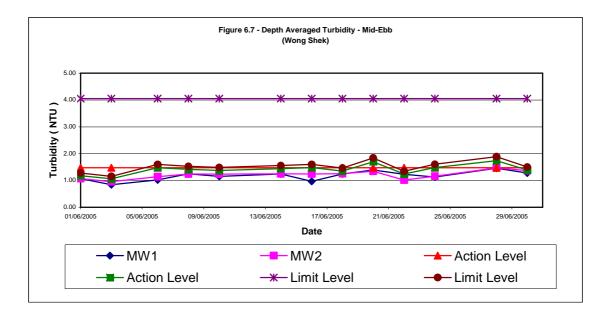


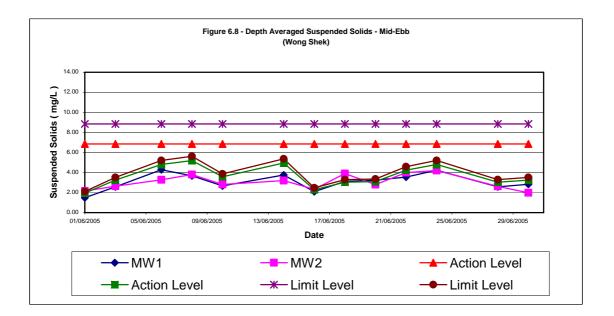








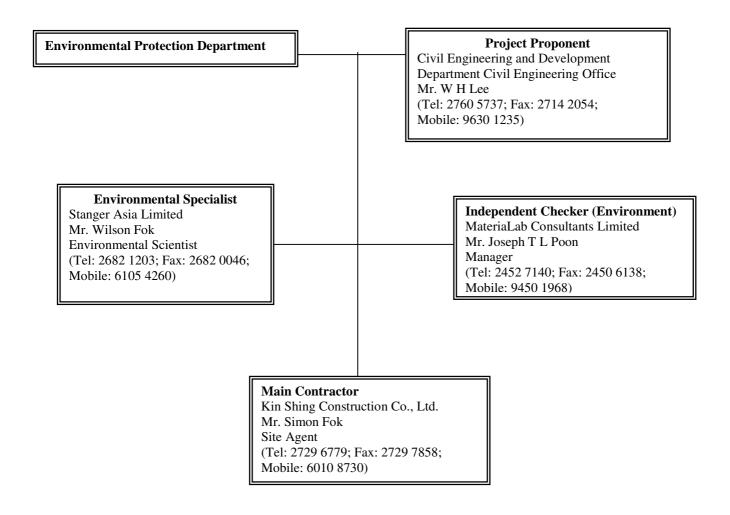




Appendix I

Organisation Chart

Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Environmental Organization Chart



Appendix II

Calibration Certificates of the Monitoring Equipment

Page 1 of 2

SOMP ENV071: CALIBRATION RECORD OF DISSOLVED OXYGEN, SALINITY, CONDUCTIVITY, TEMPERATURE SYSTEM

Equipment No.: EM 6167

Model No.: YSI 85

Equipment Serial No.: 04L1806

Date of Calibration .: 04-04-2005

Due Date of Next Calibration .: 04-07-2005

Molarity of sodium thiosulphate solution: 0.0250M

Potassium Bi-iodate No.: 480

Stock Calibration Standard Potassium Chloride No. 625

Stock Calibration Check Potassium Chloride No. 648

Reference Thermometer No. RF2358

Calibration Check for Dissolved Oxygen

Standardisation of Standard Solution	1	Final burette reading C, mL	Vol. of $Na_2S_2O_3$ used A, mL = (C – B)
Standard 1	0.00	20.10	20.10
Standard 2	0.00	20.00	20.00
Standard 3	0.00	20.00	20.00
		Average Value	20.03

Standard Solution s	Initial burette reading B, mL	Final burette reading C, mL	Vol. of $Na_2S_2O_3$ used A, mL = (C - B)	D.O. by titration, mg/L	Meter reading, mg/L
A	0.00	0.00	0.00	0.00	0.00
В	0.00	2.96	2.96	2.96	3.00
С	0.00	5.50	5.50	5.50	5.80
D	0.00	8.98	8.98	9.00	8.90

Calibration Check for Salinity

Calibration Check Solutions, ppt	Meter reading, ppt
0.0	0.0
10.0	9.9
20.0	19.6
30.0	30.5
40.0	41.1

Allowing deviation : $\pm 10\%$ L

SOMP ENVF071 : Issue 2004 No.1 15 December 2004

Calibration Check for Temperature

Reference Thermometer reading, °C	Meter reading, °C
0.00	0.0
15.10	15.0
25.10	- 25.0
29.97	30.1

Tested by : Anthony Ma

Checked By : Catherine Hung

SOMP ENV062: CALIBRATION RECORD OF TURBIDIMETER

Date of Calibration:	29/03/2005
Due Date of Next Calibration:	29/06/2005
Equipment No.:	EM 2365
Manufacturer:	HACH
Model:	2100 P
Serial No.:	970500014289
Turbidimeter Calibration standard (HACH):	No. 1: 20 NTU
	No. 2: 100 NTU
	No. 3: 800 NTU
Stock Calibration No.:	896
Three-point calibration accepted: (Y) N	

Stock Calibration checking standards No. #895

Actual value	Measured value	Accepted*: Y/N
0	0	Y
5	5.09	Ť
10	10.4	T
50	51.4	Ť
100	99.2	4
400	389	Y.

*Allowing Deviation: +/- 10%

Checked by:_ Tested by: Catherine Hung Anthony Ma

Appendix III

Event and Action Plans

Event/Action Plan for Water Quality						
EVENT	ACTION					
	ES	IC(E)	ER	CONTRACTOR		
Action level Action level being exceeded by one sampling day.	 Repeat in-situ measurements to confirm findings; Identify source(s) of impacts; Inform IC(E) and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IC(E), ER and Contractor; Repeat measurements on next day of exceedance. 	 Discuss with ES and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise ER accordingly; Assess the effectiveness of implemented mitigation measures. 	 Discuss with IC(E) on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. 	 Inform the ER and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ES and IC(E) and propose mitigation measures to IC(E) and ER; Implement the agreed 		
Action level being exceeded by more than one consecutive sampling day.	 Repeat in-situ measurements to confirm findings; Identify source(s) of impact; Inform contractor, IC(E) and ER Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IC(E), ER and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurements on next day of exceedance. 	 Discuss with ES and Contractor on the proposed mitigation measures; Review proposals on mitigation measures submitted by Contractor advise ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Discuss with IC(E) on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. 	 mitigation measures. Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with the ES and IC(E) and propose mitigation measures to IC(E) and ER within 3 working days; Implement the agreed mitigation measures. 		

EVENT	Event/A	ction Plan for Water Q				
	ACTION					
Limit level	ES	<u>IC(E)</u>	ER	CONTRACTOR		
Limit level being exceeded by one sampling day.	 Repeat in-situ measurements to confirm findings; Identify source(s) of impact; Inform contractor IC(E) and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IC(E), ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance 	 Discuss with ES and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; Assess the effectiveness of implemented mitigation measures. 	 Discuss with IC(E), ES and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. 	 Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with the ES IC(E) and ER and Propose mitigation measures to IC(E) and ER within 3 working days; Implement the agreed mitigation measures. 		
Limit level being exceeded by more than one consecutive sampling day.	 of Limit level. Repeat in-situ measurements to confirm findings; Identify source(s) of impact; Inform contractor, IC(E) and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IC(E), ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 	 Discuss with ES and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by the Contractor and advise ER accordingly; Assess the effectiveness of implemented mitigation measures. 	 Discuss with IC(E) ES and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. Consider and instruct, if necessary, the Contractor to slow down or to stop all or marine work until no exceedance of Limit level. 	 Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with the ES, IC(E) and ER and propose mitigation measures to IC(E) and ER within 3 working days; Implement the agreed mitigation measures; As directed by the Engineer, slow down or stop all or part of the marine works or construction activities. 		

Appendix IV

Implementation Status of Mitigation Measures

Mitigation Measures **Implementation Status** Area Air Quality Provide a washpit or a wheel washing and/or vehicle cleaning Not applicable in this stage facility at the exits. Provide a hard surfaced road between the wheel washing Not applicable in this stage facilities and any finished road. No burning of construction wastes or vegetation shall be Implemented allowed on the Site. In the process of material handling, any material which has the Not applicable in this stage potential to create dust shall be treated with water or sprayed with wetting agent. Any vehicle with an open load carrying area used for moving Not applicable in this stage materials which has the potential to create dust shall have properly fitting side and tail boards. Materials having the potential to create dust shall not be loaded Not applicable in this stage to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. Stockpiles of sand, aggregate and construction and demolition Not applicable in this stage material greater than 20m³ shall be enclosed on three sides, with walls extending above the pile and 2 meters beyond the front of the pile. Water sprays shall be provided and used both to dampen stored Not applicable in this stage materials and when receiving raw materials. Clean and water the Site to minimize the fugitive dust Implemented emissions. Furnace, boiler or other plant or equipment or use any fuel that Implemented might in any circumstances produce smoke or any other air pollution should not be installed. Noise All plant and equipment to be used on Site are properly Implemented maintained in good operating condition and noisy construction activities shall be effectively sound-reduced by means of silencers, mufflers, acoustic linings or shields, acoustic sheds or screens or other means to avoid disturbance to any nearby noise sensitive receivers. No excavator mounted breaker shall be used within 125m from Implemented any nearby noise sensitive receivers. Use hydraulic concrete crusher whenever applicable. All construction works should stop on Sundays and General Implemented Holidavs. Water Water in wheel washing facilities shall be changed at frequent Not applicable in this stage Ouality intervals and sediments shall be removed regularly. The polluted water from the wheel washing facilities would not Not applicable in this stage be discharged into all existing stream courses/drains and nearby waterbodies. All existing stream courses and drains within, and adjacent to Implemented the Site should be kept free from any debris and any excavated materials arising from the Works Chemicals and concrete agitator washings should not be Implemented deposited in watercourses. The effluent shall comply with the standards stated in the Implemented "Technical Memorandum on Standards and Effluent discharges into Drainage and Sewerage Systems, Inland and Coastal Waters" for the appropriate Water Control Zone. No spoil or debris of any kind is allowed to be pushed, washed Implemented down, fall or be deposited on land or on the seabed adjacent to the Site.

IMPLEMENTATION STATUS OF MITIGATION MEASURES

IMPLEMENTATION STATUS OF MITIGATION MEASURES

Area	Mitigation Measures	Implementation Status	
	Maintain any existing site drainage system at all times including removal of solids in sand traps, manholes and stream beds.	Implemented	
	Material from any earthworks should not be washed into the drainage system.	Implemented	
	Silt curtain shall be provided during all demolition works and piling works with the Site.	Not applicable in this stage	
	Silt curtain shall be formed from tough, abrasion-resistant permeable membranes suitable for the purpose, supported on floating booms in such a way as to ensure that the passage of turbid water to the surrounding water shall be restricted.	Not applicable in this stage	
	No dredging and spoil dumping shall be conducted.	Not applicable in this stage	
Ecology	Marker buoys shall be set up to indicate the location of the "Coral Exclusion Zone". All working vessels shall be restricted to encroach the "Coral Exclusion Zone"	Implemented	
	No overloading of the working barges during operation and no movement of the working barges, particularly close to the pier and shallow areas, during low tide should be allowed.	Not applicable in this stage	
	No coral shall be enclosed by the silt curtain.	Not applicable in this stage	
Waste	All excavated materials should be sorted to recover the inert portions for reuse on site or disposal to designated outlets.	Not applicable in this stage	
	All metals should be recovered on site for collection by recycling contractors.	Not applicable in this stage	
	All cardboard and paper packaging should be recovered on site, properly stockpiled in dry condition and covered to prevent cross contamination by other C&D materials.	Not applicable in this stage	
	All demolition debris from demolition works should be sorted to recover on site broken concrete, reinforcement bars, mechanical and electrical fittings as well as other building services fittings/materials that have established recycling outlets.	Not applicable in this stage	

Appendix V

Water Quality Monitoring Data

PPENDIX VI

COMPLAINT LOG

Complaint	Date of	Received From and	tion of Wong Shek a Nature of Complaint	Date	Outcome	Date of Reply and
Log No.	Receipt	Received By	Nature of Complaint	Investigated	Outcome	to Whom
206 110.	Receipt	Received by		Investigated		
	1					

APPENDIX VII

Cumulative Statistics on Complaints, Notifications of Summonses and Successful Prosecutions

	Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Cumulative Statistics on Complaints											
Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Number to Date									
Air	-	-	-									
Noise	-	-	-									
Water	-	-	-									
Waste	-	-	-									
Total	-	-	-									

Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative Number to Date
Air	-	-	-
Noise	-	-	-
Water	-	-	-
Waste	-	-	-
Total	-	-	-

Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Cumulative Statistics on Notification of Summons

Environmental Parameters	Cumulative No. Brought Forward	No. of Notification of Summons	Cumulative Number to Date								
Air	-	-	-								
Noise	-	-	-								
Water	-	-	-								
Waste	-	-	-								
Total	-	-	-								

APPENDIX VIII

Monitoring Schedule for Next Month

CEDD Contract No. CV/2004/02 **Reconstruction of Wong Shek and Ko Lau Wan Public Piers** Water Quality Monitoring Schedule July 2005

Sunday	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
										1		2
											WONG	
											WQM ³ (Ebb: 09:37)	
											(Flood: 16:07)	
3		4		5		6		7		8	(110001110107)	9
	WQM ³				WQM ³				WQM ³			
	(Ebb: 11:14)				(Ebb: 12:39)				(Ebb: 13:53)			
	(Flood: 18:03)				(Flood: 06:05)				(Flood: 06:17)			
10		11	1	2	•	13		14		15		16
			2				2				2	
			WQM ³				WQM ³				WQM ³	
			(Ebb: 14:48) (Flood: 07:44)				(Ebb: 15:54) (Flood: 09:30)				(Ebb: 07:28) (Flood: 13:56)	
17		18	· /	9		20	· · · · · · · · · · · · · · · · · · ·	21		22	(FI000: 15:50)	23
17		10	1	9		20		41		22		23
	WQM ³				WQM ³				WQM ³			
	(Ebb: 09:19)				(Ebb: 10:27)				(Ebb: 13:08)			
	(Flood: 16:47)			_	(Flood: 18:29)				(Flood: 06:55)			
24/31		25	2	26		27		28		29		30
			WOM^3				WOM^3				WOM^3	
			WQM ³ (Ebb: 16:10)				WQM ³ (Ebb: 06:42)				WQM ³ (Ebb: 08:17)	
			(Flood: 09:38)				(Flood: 11:43)				(Flood: 15:00)	

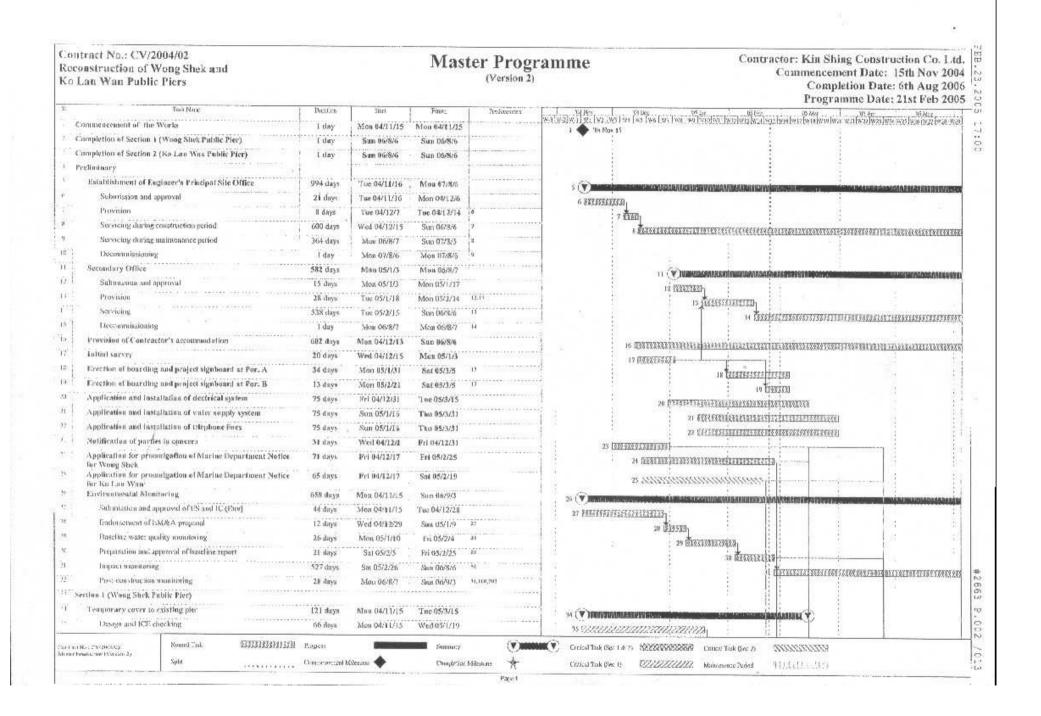
Notes:

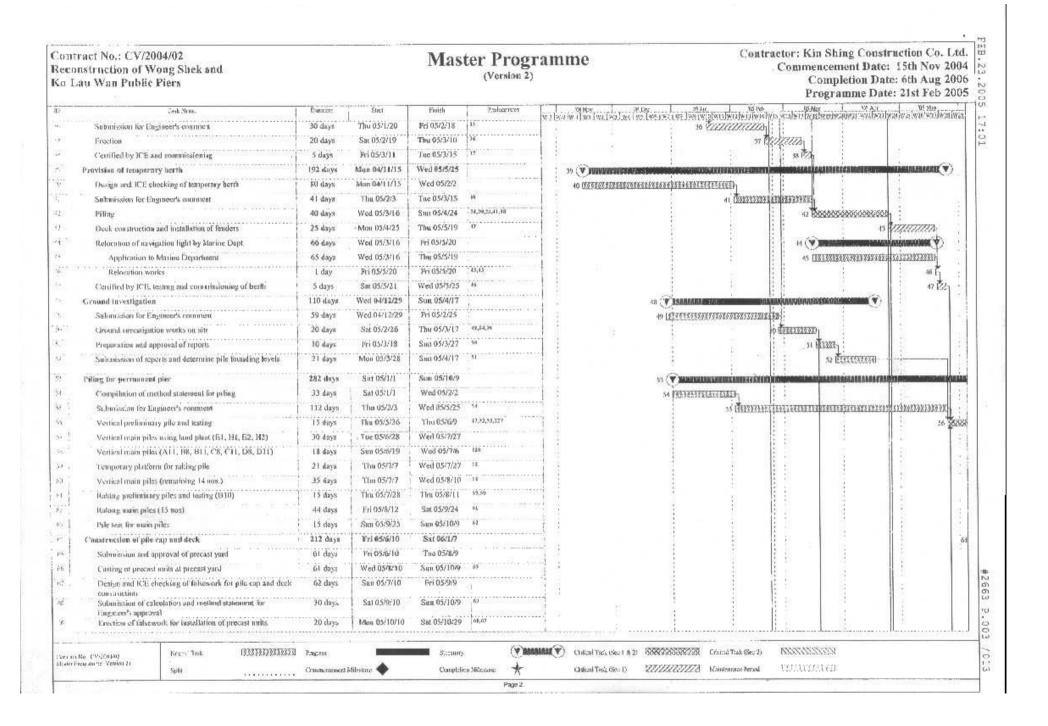
WQM - water quality monitoring on mid-flood and mid-ebb tides at Wong Shek (CW1, CW2, MW1 & MW2)
 WQM - water quality monitoring on mid-flood and mid-ebb tides at Ko Lau Wan (CK1, CK2, MK1, MK2, MK3 & MK4)

3. WQM - water quality monitoring on mid-flood and mid-ebb tides at Ko Lau (CK1, CK2, MK1, MK2, MK3 & MK4) and Wong Shek (CW1, CW2, MW1 & MW2))

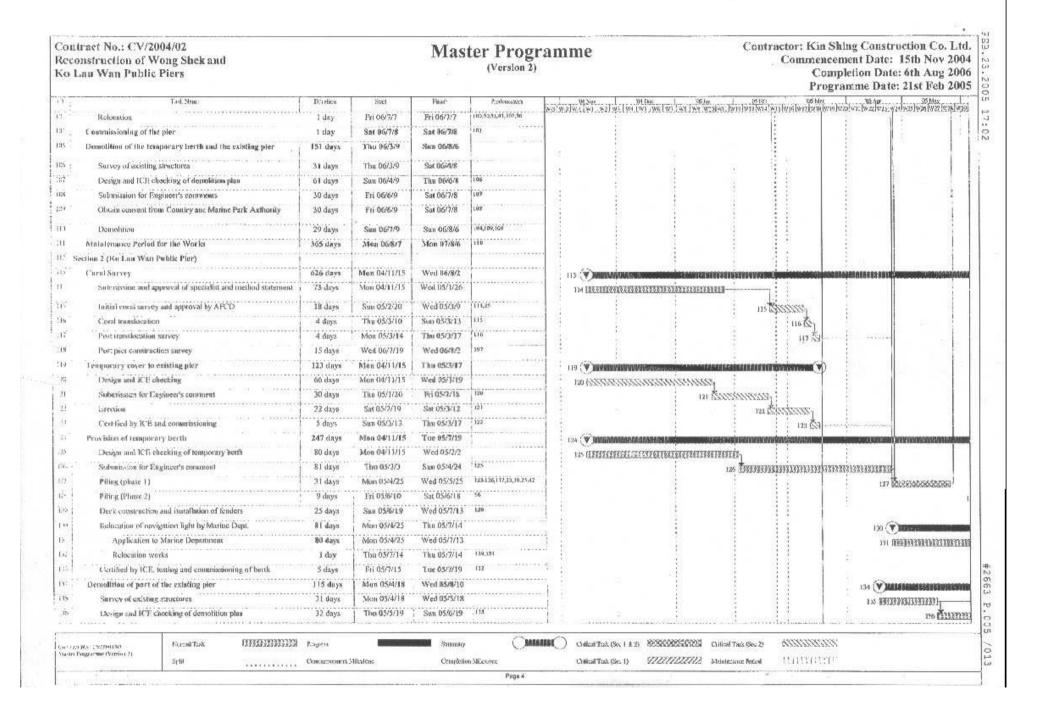
APPENDIX IX

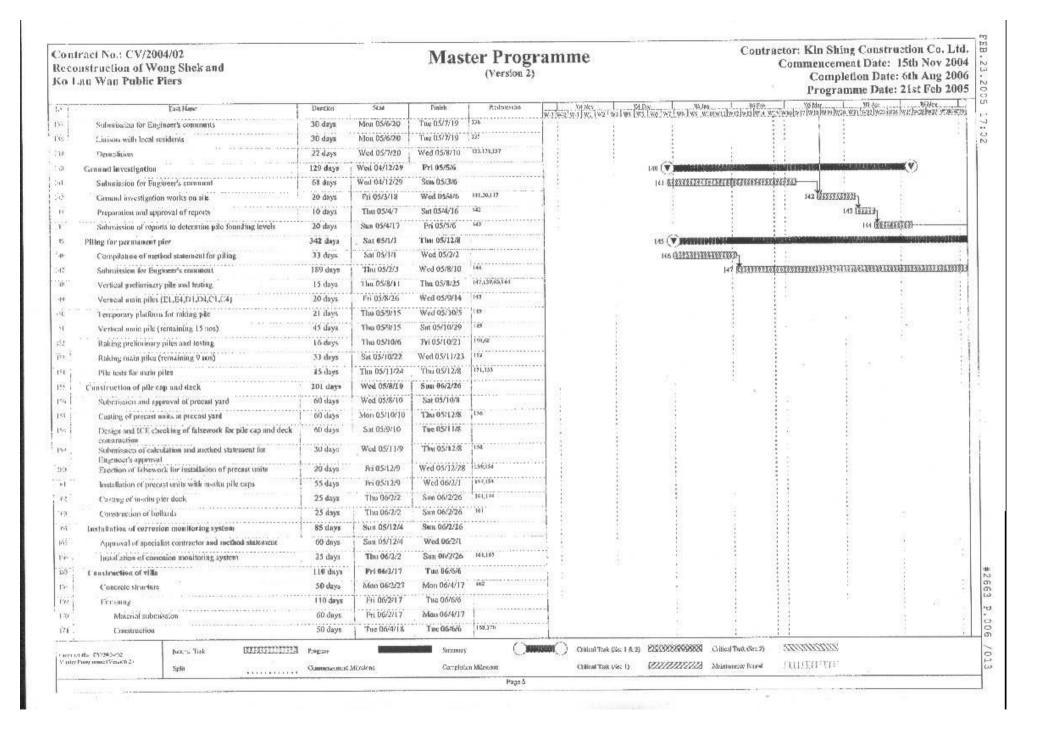
Master Construction Programme





act No.: CV/2004/02 struction of Wong Shek and u Wan Public Piers			Mas	(Version 2)	amme	, Comu	in Shing Constru- encement Date: 1 Completion Date: Programme Date:	15th 1 6th /
Task Menn.	Diction	\$*#I	FIBER	Prodoossacs	w.1 w.2 m.1 w1 w2 [w3] w4 [w1] w4 [w2] w5 [w0] w1 [w1] w2 [w3] w4 [w1] w2 [w3] w4 [w1] w5 [w3	QS Hels D	Mrg 15 Ag	10
Installation of precast units with in-situ pile capa	60 days	Mon-05/10/10	Thu 05/12/8	56,68,63	AN 11MM SHIT AND DARI AND DARI AND AND AND AND AND AND	WINDS WINDS WINDS MID AND A	elicompost manyoren	1942.944
Casting of in-aitu pier deck	30 days	Fri 05/12/9	Sat 06/1/7	18.18		11 1	1	
Construction of bollards	30 days	Fri 05/12/9	Sal 06/1/7	70			1 3	2
Installation of corresion mentioning system	91 days	Sun 05/10/9	Sal 06/1/7	6. (19.9.9.9.9.9.	· · · · · · · · · · · · · · · · · · ·			
Approval of specialist contractor and method statement	61 days	Sun 05/10/9	Thm 05/12/8					8
Installation of convision monitoring system	30 days	Fri 05/12/9	Sal 06/177	70,74				ŝ
Roof suver system	272 days	Tue 05/8/9	Sun 06/5/7	*****				8
Approval of specialist contractor	61 days	Tue 05/8/9	Sat 05/10/8			1.		3
Submission of weekshop drawings for connection details with	61 days	Sen 05/10/9	Thu 05/12/8	b				
deck Material submessions	91 days	Sun 05/10/9	Sat 06/1/7	- 13				
Submission of weekshop drawing for romaining roof system	91 days	Sun 05/10/9	Sat 06/1/7	·····				
Construction of stool works	60 days	Sun 06/1/8	Wed 06/3/8	71,80,79				1
Exection, of reaf covers	fill days	Thu 05/3/9	Sun 06/5/7	a1	2 B	1		
Murrying-In to bandside	121 days	Wed 06/3/8	Tha 06/7/5				4 4	-
Application of Excavation Permit	90 days	Wed 06/3/8	Mon 06/6/5					
Site works	31 days	Tue 06/6/6	Thu 06/7/6	\$4,31				
Electrical system, CLP meter box and lighting system	220 daşs	Mon 05/10/10	Wed 06/5/17		4 F			
Approval of specialist centractor	30 days	Mon 05/10/10	Tue 05/11/8	See 11. Chem	4			
Leason with CLP and EMSD	60 days	Wed 05/11/9	Sat 06/1/7	87				
i i i i i i i i i i i i i i i i i i i	120 days	Sun 05/1/8	Sun 06/5/7	91,88				
Te-ting	10 days	Man 06/5/8	Wed 06:5/17					
Construction of floor finish	121 days	Wed 06/3/8	Thu 06/7/6					
Adatevial submissions	61 days	Wed 06/3/8	Sun 06/5/7			9 9 1	22	
Sile works	69 days	Mon 06/5/8	Thu 06/7/6	82.92				
Construction of hand railing seating beaches and notice	150 days	Tue 06/2/7	Thu 66/7/6					
boards	104101000884006	Tuer 06/2/7	Pri 06/4/7	in the second				
Material submission	60 days	Sal 05/4/8	Tini 05/7/6			- 1 E		
Construction	90 days	Thu 05/12/29	Thu 06/7/6					
Installation of fender system	190 days	Thu 05/12/29	Sat 06/1/28		4			
Material submission	31 days	San D6/1/29	The 06/3/28	6				
Ordering of meterial	59 days	Wed 06/3/29	Acres and the	71,99	4 4 1 1			
Site works	LCO days		Thu 06/7/6					
Relucation of navigation light by Marine Dept.	92 days	Fri 06/4/7	Fri 86/7/7			11	\$5 and 1	
Application to Marine Department	91 daya	Fri 06447	Thu 06/7/6		A law have been been a second and the second	<u>l:</u>	<u> </u>	10



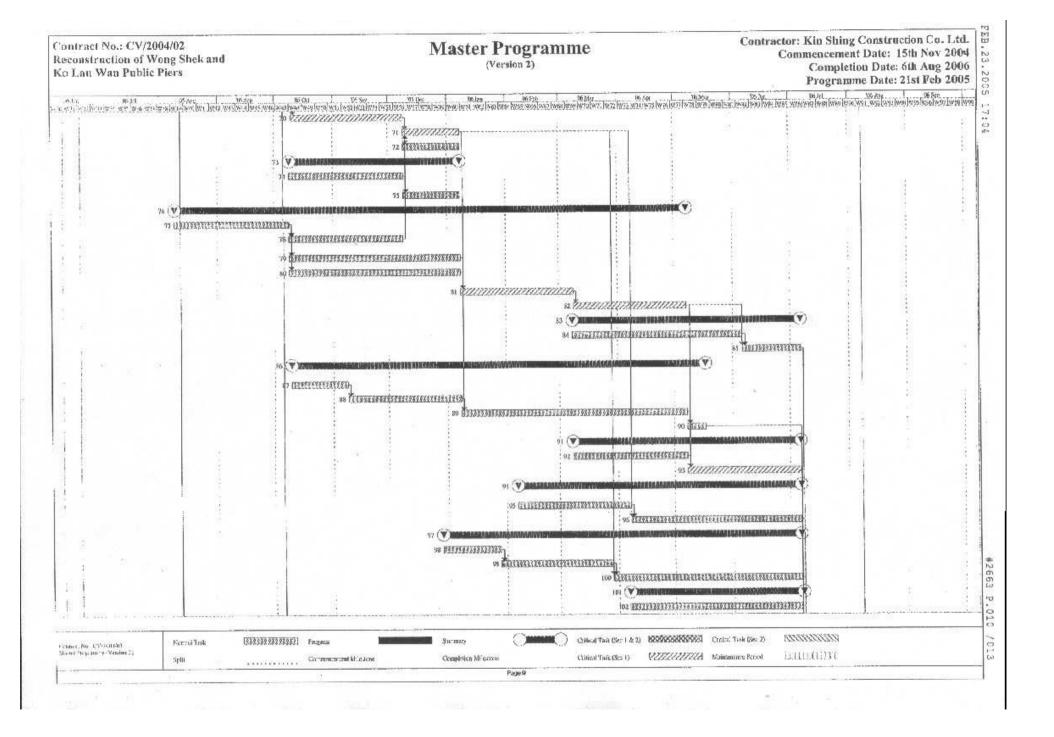


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1	Tatt Hang	Duriou	Nag	Finish	Preilegestions	1	Dec 1 76 h	10	V Mar	10.jp. 10.	Mag
1	Construction of walking cover 1 & 2	245 days	Wed 05/16/5	Tue 06/6/6	(%-)	WELWEDW: 1992 WELWELW	43 J MA 1 W 7 L W 8 J W 8 J W	《周光的】 [1] [1]	Constant (Inconstants) Constant Constants	awa manifestin is in concern	997 IW 24 (W 29)
ł.	Approval of specialist contractor	60 days	Wed 05/10/5	Sat 05/12/3			8	1			
1	Saturnission of workshop drawings for connection details with	60 days	Son 05/12/4	Wed 06/2/1	177			i.	1		
	deck Material submissions	85 days	Sun 05/12/4	Sun 06/2/26	171		â				
	Submission of workshop drawing for remnining roof system	85 days	Sun 05/12/4	Sun 06/2/26	179						
1	Construction of sicel works	50 days	Mon 06/2/27	Mon 06/4/17	276,162,175						
i.	Frection of your covers	50 days	Tue 06/4/18	Tue 06/6/6	127		1		11		
ł.	Electrical system, CLP meter box and lighting system	200 clays	Tue 05/11/29	Frl 06/6/16	***********	4	1	1			
đ.	Approval of specialist contractor	30 days	The 05/11/29	Wed 05/12/28	******			1			
	Liaison with CLP and EMSD	60 days	The 05/12/29	Sun 06/2/26	185	a	1	ī.	1		
2.1	Installation	100 days	Мон 06/2/27	Tue 06/6/6	163,000			i			
	Testing	10 days	Wed 06/6/7	Fri 06/6/16	162	. I.		ŧ	1 1 1		
1	Construction of Boor finish	130 days	Thu 06/3/9	Sun 06/7/16				1	1		
	Material submissions	90 days	Thu 06/3/9	Tne 06466				ł.		8	
÷.,	Site works	40 days	Wed 06/6/7	Sun 06/7/16	1.84,105,171			1	7 B.A		
1	Construction of hand railing, senting benches and notice bounds	(50 days	141 06/2/17	Sun 06/7/16							
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y t	Construction	90 days	Tue 06/4/18	Son 06/7/16	185	E.					
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÷ 1	Application to Marine Department	91 days	Mon 06/4/17	Sunt 06/7/16				1		8	13
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	Commissioning of the pler	1 day	Tue (6/7/18	Tue 06/7/18	198	2		1	1.0		
1	Demolition of the temporary both and the existing pier	141 days	Sun 06/3/19	Sun 06/8/6				1	i .	4	1
4			Long String	1	the second second second	1				-	
Q.]	Survey to existing structure	31 days	Sun 06:3/19	The 06/4/18		1			1		
3	Design and ICE checking of demolition plan	61 days	Wed 064/19	Sun 06/6/18	199	1		1		÷	1
1	Salvarission for Engineer's constructs Lisison with local residents	30 days	Men 06/6/19	The 06/7/18 The 06/7/18	202			4		1	
5	Demolition	30 days	Wed 06/7/19	1 Stor 05/8/6	193,302,301	2		1			
	Denation Maintenance Period for the Works	19 days 365 days	Mon 06/8/7	Mon 17/8/6	201						
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