#### CONTRACT NO: CV/2004/02

# RECONSTRUCTION OF WONG SHEK AND KO LAU WAN PUBLIC PIERS

# ENVIRONMENTAL MONITORING & AUDIT MONTHLY REPORT (WONG SHEK)

- 9 MAR 2007 - 17 APR 2007 -

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Subject	Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko La Monthly EM&A Summary Reports	au Wan Public	Piers	

We refer to the Monthly EM&A reports (Mar to Apr 07) for Wong Shek Pier and Ko Lau Wan Pier that we received through email on 11 January 2008 and are pleased to confirm we have no further comment on the reports.

Should you require further information, please feel free to contact us.

Best regards,

Joseph Poon

Independent Environmental Checker

JP/ac

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#### **EXECUTIVE SUMMARY**

This is the Monthly Environmental Monitoring and Audit (EM&A) report for Contract No. CV/2004/02 – Reconstruction of Wong Shek and Ko Lau Wan Public Piers. This report presents the environmental monitoring and auditing (EM&A) findings based on data and information recorded from the period 9<sup>th</sup> Mar to 17<sup>th</sup> Apr 2007 for the demolition of the Wong Shek Public Pier.

#### Construction Activities for the Reported Period

During this reporting period, the principal work activities at Wong Shek Pier include:

Demolition of existing pier

#### Water Quality Monitoring

10 water quality monitoring events in terms of turbidity, dissolved oxygen, suspended solids, temperature, and salinity was carried out at MW1, MW2, CW1 and CW2 at Wong Shek during the reporting period.

Fluctuations for dissolved oxygen, turbidity and suspended solids resembled those fluctuations at the control stations which indicated that all the exceedances in water quality monitoring were due to natural phenomena and agreed with the changes in the control stations. Causation due to construction activities is unlikely and there were no valid exceedance for this reporting period.

# Waste Management

All demolished materials were beneficially reused as artificial coral on site so that no C&D materials were disposed. No general refuse or chemical waste was transported off site in this reporting period.

# Complaints, Notifications of Summons and Successful Prosecutions

There was no complaint, notification of prosecution or summon in this reporting period.

# Site Inspections and Audit

6 site inspections were conducted by the Environmental Team (ET) in this reported period. Major observations are summarised in the following table. Major observations by the ET, actions by the Contractor and outcome are summarized in the following table.

Item	Date	Observations	Action taken by Contractor	Outcome
-	9 Mar	No particular finding	-	-
-	16-Mar	No particular finding	-	-
-	23-Mar	No particular finding	-	-
-	30-Mar	No particular finding	-	-
-	2-Apr	No particular finding	-	-
-	13-Apr	No particular finding	-	-

## Future Key Issues

After 17 Apr 07, all the pier demolition works were completed and post-project water quality monitoring will proceed.

#### 1 INTRODUCTION

#### 1.1 SCOPE OF THE REPORT

Lam Environmental Services (LAM) has been appointed to work as the Environmental Team (ET) for Kin Shing Construction Company Limited to implement the Environmental Monitoring and Audit (EM&A) programme for the Contract No. CV/2004/02 – Reconstruction of Wong Shek and Ko Lau Wan Public Piers.

This report presents the environmental monitoring and auditing work carried out from the period 9<sup>th</sup> Mar to 17<sup>th</sup> Apr 2007 for the demolition of Wong Shek Public Pier in accordance to Section 26 of the Particular Specification, Project Profile (PP-191/2003) and Environmental Permit (EP-186/2004) for this Project.

The following information relating to this project is documented in the EM&A Manual and, to avoid duplication, it is not presented in detail within the monthly report.

- Event-Action Plans;
- Full set of environmental mitigation measures and;
- Contracted environmental requirements.

#### 1.2 STRUCTURE OF THE REPORT

**Section 1** *Introduction* – details the scope and structure of the report.

**Section 2 Project Background** – summarizes background and scope of the project, site description, project organization and contact details of key personnel, construction programme and works undertaken during the reporting period.

Section 3 Implementation Status – summarizes the status of Environmental Permits / Licenses, implementation of environmental protection and pollution control / mitigation measures in an updated schedule for the reporting period.

**Section 4 Monitoring Requirements** – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency and programmes.

- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- **Section 6 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.
- **Section 7**Site Inspection and Audit summarizes the findings of weekly site inspections and independent audit undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 8 Complaints, Notification of Summons and Prosecution summarizes the complaints, notification of summons and successful prosecution for breaches of environmental legislation and the actions taken within the reporting period.
- **Section 9** Future Key Issues summarizes the upcoming works and a forecast of the environmental impact and monitoring schedule for the next reporting period.
- Section 10 Conclusion

#### 2 PROJECT BACKGROUND

#### 2.1 SCOPE OF THE PROJECT AND SITE DESCRIPTION

The works mainly comprise demolition of the existing piers and construction of reinforced concrete piers with roof covers at Wong Shek. The construction of the Project is scheduled to commence in November 2004 for completion in September 2006. The construction period is 630 days for the entire construction.

The site layout plan is shown in *Figure 2.1*.

#### 2.2 PROJECT ORGANIZATION AND CONTACT PERSONNEL

Civil Engineering Office of Civil Engineering and Development Department is the project proponent. The organization chart for the EM&A programme is attached in *Appendix A*.

Under the organization chart, Resident Engineer, Contractor, Independent Environmental Checker, Environmental Team are appointed to manage and control environmental issues for the construction phase of CV/2004/02. Overall responsibilities and duties of the team are found in the corresponding EM&A Manual. Key personnel and contact particulars are summarized in *Table 2.2*:

Table 2.2 Contact Details of Key Personnel

Post	Name	Contact No.	Contact Fax	Mobile No.
Resident Engineer	David C S Leung	2760 5737	2714 2054	9630 1235
Project Manager	K W Li	2729 6779	2729 7858	9104 9463
Independent Environmental Checker (IEC)	Joseph T L Poon	2452 7140	2450 6138	9450 1968
Environmental Team Leader (ETL)	Raymond Dai	2975 3300	2897 5509	9738 0738

#### 2.3 CONSTRUCTION PROGRAMME AND WORKS

Construction works carried out at Wong Shek Pier during this reporting period are:

· Demolition of existing pier

The master construction programme is given in *Figure 2.3*.

#### 3 IMPLEMENTATION STATUS

# 3.1 STATUS OF REGULATORY COMPLIANCE

A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

# Table 3.1 Cumulative Summary of Valid Licences and Permits

Permits and/or Licences	Reference No.	Issued Date	Expiry Date	Status
Environmental Permit	EP-186/2004/A	28-04-2005	-	Issued on receipt of VEP-171/2005 dated 14-04-2005
Waste Producer Registration	WPN5213-742- K1081-05	12-05-2005	-	Notified
Construction Noise Permit	-	-	-	No valid CNP granted to the Contractor

#### 3.2 IMPLEMENTATION OF POLLUTION CONTROL / MITIGATION MEASURES

The contractor implemented various environmental mitigation measures as recommended in the Particular Specification and the Environmental Permit. The implementation schedule is presented in *Appendix B*.

#### 4 MONITORING REQUIREMENTS

Locations of environmental monitoring stations are referred in *Figure 4.1*.

#### 4.1 WATER QUALITY MONITORING

The brief for EM&A works details 4 designated stations to be monitored during the construction period comprising 2 monitoring stations and 2 control stations. These stations have been coded as MW1, MW2, CW1 and CW2 respectively.

#### Table 4.1a Water Quality Monitoring Stations

Station	HK Metric Grid (Easting / Northing)	Description
MW1	852 789.231E / 832 978.476N	Impact Monitoring
MW2	852 844.187E / 832 878.676N	Impact Monitoring
CW1	852 922.540E / 833 067.718N	Control during mid-flood
CW2	852 992.314E / 832 853.794N	Control during mid-ebb

#### 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.

Water quality parameter in terms of: dissolved oxygen (mg/L and % saturation), salinity (ppt), turbidity (NTU), and suspended solids (mg/L) were measured in-situ with portable instruments. Other relevant data was also recorded, including the following:

- monitoring station and position;
- time;
- depth of water;
- tidal status;
- water temperature;
- · weather conditions including ambient temperature;
- any special phenomena or activities at the construction site.

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.

Suspended solids (SS) were determined in the laboratory at Chai Wan managed by Lam Laboratories Ltd.

#### Monitoring Equipment

- Sample Bottles: Samples were kept in high density polythene bottles, packed in ice and cooled to 4°C or below, without being frozen, for delivery to the laboratory as soon as possible after collection.
- Thermometer: A standard certified laboratory mercury thermometer with an accuracy of at least 0.5°C was employed, calibrated against a certified thermometer of 0.1°C scale. This thermometer was employed for measuring both ambient and water temperatures.
- Depth Detector: As the depth of water being sampled was generally shallow, too shallow to allow for the use of an echosounder, a marked depth gSepe was employed to determine water depth at all designated monitoring stations.

All in-situ monitoring equipment shall be checked, verified and calibrated by Lam laboratory at Chai Wan, 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 in-situ calibration of field equipment, the BS 1427: 1993 "Guide to Field and on-site 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.

Current calibration certificates are presented in **Appendix C**.

# Laboratory Analysis

All samples are returned to the laboratory at Chai Wan for the determination of SS under a QA / QC scheme inclusive of blank, duplicate and spike recovery analysis under the requirement of HOKLAS. The laboratory test procedures conform to "Standard Methods for the Examination of Water and Wastewater" published by American Public Health Association (APHA) and United State Environmental Protection Agency (USEPA) test methods are summarized in *Table 4.3b*.

# Table 4.1b Laboratory Test Procedures

Parameter	Methodology	Method Ref.	Detection Limit
SS	Determination of Total Suspended Solids Dried at 103-105 €	APHA 19 <sup>th</sup> Ed. 2540D	2.0 mg/L

#### 4.2 MONITORING PARAMETERS AND FREQUENCY

Water quality monitoring programme has been scheduled according to the requirements stipulated in the EM&A Manual produced for the Project summarized in *Tables 4.2*.

Table 4.2 Water Quality Monitoring Parameters and Frequencies

Station(s)	Parameter	Frequency
MW1, MW2 CW1, CW2	DO, Temperature, Salinity, Turbidity, Suspended Solids, Water Depth	For piling or demolition works 3 days per week at mid-flood and mid-ebb For marine works other than piling or demolition works 1 day per week at mid-flood and mid-ebb

#### 4.3 WATER QUALITY CRITERIA

Water quality criteria were determined prior to the commencement of the construction of the project for the purpose of impact monitoring. Various levels established based on the results of baseline monitoring and the Event Action Plan stipulated in the EM&A Manual are summarized in *Tables 4.3*.

Table 4.3 Action and Limit Levels for Water Quality Monitoring

Parameter	Action Level	Target Level
Dissolved Oxygen	Surface & Middle	Surface & Middle
(Surface, Middle & Bottom)	For Wong Shek – 6.96	For Wong Shek – 6.69
	<u>Bottom</u>	<u>Bottom</u>
	For Wong Shek – 6.93	For Wong Shek – 6.71
Turbidity (depth- averaged)	For Wong Shek – 1.47 or 120% of upstream control station's Tby at the same tide of same day, whichever is lower	For Wong Shek – 4.05 or 130% of upstream control station's Tby at the same tide of same day, whichever is lower
Suspended Solids (depth-averaged)	For Wong Shek – 6.85 or 120% of upstream control station's SS at the same tide of same day, whichever is lower	For Wong Shek – 8.85 or 130% of upstream control station's SS at the same tide of same day, whichever is lower

#### Note:

- 1. "Depth-averaged" is calculated by taking the arithmetic means of reading all three depths.
- 2. For Dissolved Oxygen, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- 3. For Turbidity and Suspended Solid, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- 4. 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.

#### 4.4 MONITORING PROGRAMME

Environmental monitoring programme for this reporting period was carried out in accordance with the required monitoring frequency. The actual completion of monitoring work during the reporting period is presented in *Tables 4.4*.

Table 4.4 Environmental Monitoring Programme – Mar-Apr 07

Mar / Apr 2007		Water Quality (DO, Turbidity, SS)	Site Inspection
IVIAI / A	pr 2007	MW1, MW2, CW1, CW2	
9	Fri	X	X
10	Sat		
11	Sun		
12	Mon	No mid-tides available	No mid-tides available
13	Tue		
14	Wed	No mid-tides available	No mid-tides available
15	Thu		
16	Fri	X	X
17	Sat		
18	Sun		
19	Mon	X	
20	Tue		
21	Wed	X	
22	Thu		
23	Fri	X	Х
24	Sat		
25	Sun		
26	Mon	No mid-tides available	No mid-tides available
27	Tue		
28	Wed	No mid-tides available	No mid-tides available
29	Thu		
30	Fri	X	X
31	Sat		
1	Sun		
2	Mon	X	X
3	Tue		
4	Wed	X	
5	Thu		
6	Fri		
7	Sat		
8	Sun		
9	Mon	No mid-tides available	No mid-tides available
10	Tue		
11	Wed	X	
12	Thu		
13	Fri	X	X
14	Sat		
15	Sun		
16	Mon	X	

#### Note:

- X: Monitoring conducted from 9 Mar to 16 Apr 07 during the pier demolition work.
- Schedule is formulated and with consideration of statutory holidays (shaded in the table).

#### 5 MONITORING RESULTS

#### 5.1 WATER QUALITY MONITORING RESULTS

Water quality monitoring was carried out on 10 occasions at stations MW1, MW2, CW1 and CW2. Calculated water quality monitoring results in this reporting period are reviewed and summarized in **Tables 5.1a and 5.1b**. Details of measured and tested results can be referred in **Appendix D**. Graphical trend is presented in **Figure 5.1a – 5.1h**.

Table 5.1a Water Quality Monitoring Results (mid-flood tide) – Mar-Apr 07

Station	Averaged DO Surface & Middle (mg/L)	Averaged DO Bottom (mg/L)	Averaged Turbidity (NTU)	Averaged Suspended Solids (mg/L)
MW1	6.51	6.07	1.22	12.5
MW2	6.22	5.60	1.21	8.2
CW1	6.11	Water depth < 3m	1.19	10.4
CW2	6.10	5.45	1.21	7.5

Table 5.1b Water Quality Monitoring Results (mid-ebb tide) – Mar-Apr 07

Station	Averaged DO Surface & Middle (mg/L)	Averaged DO Bottom (mg/L)	Averaged Turbidity (NTU)	Averaged Suspended Solids (mg/L)
MW1	6.59	6.21	1.23	7.6
MW2	6.35	5.76	1.19	8.1
CW1	6.37	Water depth < 3m	1.30	7.9
CW2	6.25	5.55	1.23	9.2

### 5.2 WASTE MONITORING RESULTS

All demolished materials were beneficially reused as artificial coral on site so that no C&D materials were disposed. No general refuse or chemical waste was transported off site in this reporting period.

#### 6 COMPLIANCE AUDIT

Results of the calculated water quality results for various are audited against the water quality levels and the number of exceedances are summarized *Tables 6.1a* and 6.1b. Exceedances caused by natural phenomena namely fluctuation of overall water quality by comparing the graphical trends of monitoring and control stations are eliminated in order to identify the valid exceedance due to construction activities.

Table 6.1a Summary of Water Quality Exceedance (mid-flood tide) – Mar-Apr 07

Station	Averaged DO Surface & Middle	Averaged DO Bottom	Averaged Turbidity	Averaged Suspended Solids
MW1	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)
MW2	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)

# Table 6.1b Summary of Water Quality Exceedance (mid-ebb tide) – Mar-Apr 07

Station	Averaged DO Surface & Middle	Averaged DO Bottom	Averaged Turbidity	Averaged Suspended Solids
MW1	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)
MW2	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)

As shown in the graphical trend, the observed trends and exceedances in dissolved oxygen, turbidity and suspended solids at MW1 and MW2 resemble the fluctuations to the respective control stations, possibly due to variation in water current or tidal effect.

The observed exceedances for turbidity and suspended solids are respectively within 0.5 NTU and 15 mg/L, indicating the fluctuation could possibility due to the natural variation around the small values of suspended solids.

To conclude, the fluctuations for dissolved oxygen, turbidity and suspended solids resembled those fluctuations at the control stations which indicated that all the exceedances in water quality monitoring were due to natural phenomena and agreed with the changes in the control stations. Therefore, causation due to CV/2004/02 construction activities is unlikely and there were no valid exceedance for this reporting period.

#### 7 SITE INSPECTION AND AUDIT

The ET undertook site inspection at least once a week. Monthly joint audit was undertaken by the IEC, the ETL, the Engineer and the Contractor.

The ET carried out 6 inspections during this reporting period. The results of these inspections and outcomes are summarized in *Table 7*.

# Table 7 Summary of Environmental Inspection and Audit – Mar-Apr 07

Item	Date	Observations	Action taken by Contractor	Outcome
-	9 Mar	No particular finding	-	-
-	16-Mar	No particular finding	-	-
-	23-Mar	No particular finding	-	-
-	30-Mar	No particular finding	-	-
-	2-Apr	No particular finding	-	-
-	13-Apr	No particular finding	-	-

# 8 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

No complaint, inspection notice, notification of summons or prosecution was received in this reporting period. Complaint log, summaries of cumulative complaints and successful prosecutions are presented in *Table 8a*, *Table 8b*, *Table 8a* and *Table 8d* respectively.

# Table 8a Environmental Complaints Log

Complaint Log No.		Received From and By	Nature of Complaint	Date investigated	Outcome	Date of Reply and to Whom
-	-	-	-	-	-	-

# Table 8b Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative No. Project-to-Date
Air	-	-	-
Noise	-	-	-
Water	-	-	-
Waste	-	-	-
Total	-	-	-

#### Table 8c 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	-	-	-

#### Table 8c Cumulative Statistics on Notification of Summons

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

#### 9 FUTURE KEY ISSUES

After 17 Apr 07, all the pier demolition works were completed and post-project water quality monitoring will proceed. The proposed monitoring schedule for the coming reporting period is detailed in *Appendix E*.

#### 10 CONCLUSION

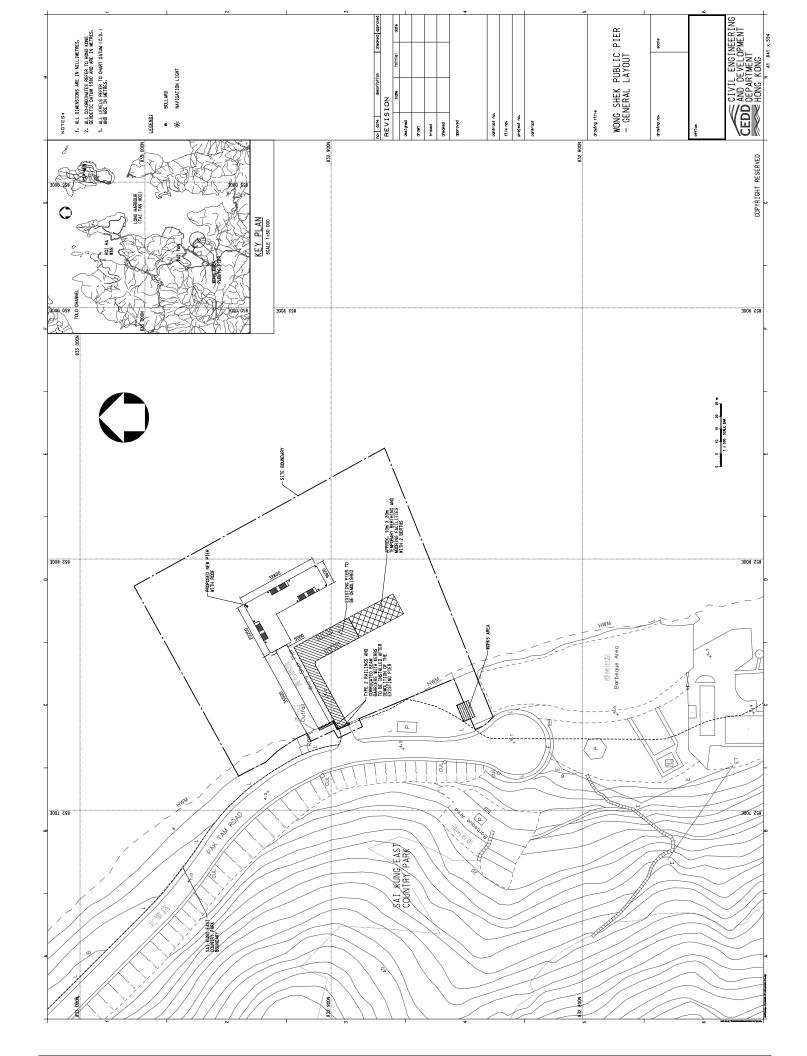
The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed in the previous EM&A Report were made in response to changing circumstances.

No exceedance due to construction activities was reported in routine environmental monitoring. Such results indicate that the construction operation generally performed reasonably acceptable against environmental auditing criteria.

In summary, environmental mitigation measures are being satisfactorily implemented within the CV/2004/02 project along with the on-going construction activities.

Figure 2.1

Location Plan



# Figure 2.3

Master Construction Programme

17:00 #2663 P.002 /013 Completion Date: 6th Aug 2006 Programme Date: 21st Feb 2005 Commencement Date: 15th Nov 2004 Contractor: Kin Shing Construction Co. Ltd. NAMES OF THE PROPERTY OF THE WAS THE WAS TREATED BY THE PROPERTY OF THE PROPER IS THE TREE TO THE PASSE OF THE PROPERTY OF THE PASSE OF EXERTERED DE LE COLOCIO COLOCIO DE LA COLOCIA DE LA COLOCI H TEXCOLOGICAL PROSECULO DE SUL SERVICE DE LA SERVICE DE SERVICE D \$22.55987.28811.5855.64884.64884.24826.63811.43815.63814.648 22 VITTERSTREETING BEGINS OF SECURIOR STATES SYSTEMATICS WLAST - 1959 Chinalannana de la contrata del contrata de la contrata de la contrata del contrata de la contrata del la contrata de la contr SARRIEL V 18 CUSTRESSEE TITTER 19 (1983) M NESSTERN PROPERTY STATES OF THE STATES OF SO DESCRIPTION 25 ANDREADSONANCE STREET, 25 Critical Task (Sec. Let 15 1922/2020/2020/2020 Cotton Task (Sec. D.) IN STREET, STREET, IN CONTROLLER. Maintenance Desired 29 (02047030373333) THE PROPERTY OF THE PROPERTY O S CONTROLLER TO THE CONTROL 1.2 CARLINGS TO PRESENTABLE OF THE PARTY OF THE PROPERTY OF THE PERSON NAMED IN Critical Task (Nec 19. The Nov 15 6 STREETSES (3) Master Programme A MIN **B** Processes Chargering Milesons Mon 05/2/34 (2.15 Fi 05/2/25 #7 Sun 05/1/9 #7 2 Man 06/8/7 Slen GG/S/16 Mon 44/11/15 Tue 04:13/14 Mon 05/1/17 Son D6/8:6 Moa 06/8-7 Summery Mon 04/12/6 Man 05/1/3 The 04/12/28 Mon B7/8/5 Sat 65/3/5 Thu 05/3/31 Frt 04/12/31 Tec 05/3/15 Wed05/1/19 Sun Dir876 Sun 05/8/6 Mos 67/8/0 Sun 96/8-6 Sun 02/3/5 Sar 05/3/5 Time 05/3/15 Thu 95/3/31 Frd (15/2/25 Sat 05/2/19 Sun 446/9/3 Fri 05/274 Shut Grid 7.7 Sun 96/8/6 Man 04/11/15 Mon 6421/15 Wed 04/12/15 West 04/12/15 Mon 04/11/15 Men Odel US Tue 04/11/16 Non 04/12/13 Mon Odnii 15 Wed 04:13:29 Tue 04/11/16 More DE/8/7 Sam 96/8/6 Sam 06/8/6 Tue 04/12/7 Mon 07/8/16 Man US/1/3 Most 05/1/3 Tue 05/1/18 Tue 05/2/15 Mest 06/8/7 Hon US/1/31 Mon 05/2/21 I'ri 04/12/31 Son 05/1/16 San OSTATS Wed 04/12/1 Pel 04/12/17 Pel 04/12/17 Mon. 05/1/10 Sm 05/2/26 Mon 06:8:7 Sat 05/235 Compression Milesans 600 days 538 days 75 days 527 days [21 days 994 days 21 days 364 days 582 days 28 days 602 days 20 days 34 days 13 days 75 days 75 days 71 days. 8 days 15 days वर्त वैक्रोड 17 days 26 days 21 days 2.8 days Lday 1 day 34 days eyah 30 658 days STATES STATES OF \*\*\*\*\*\*\*\*\*\*\* Application for present gadion at Murine Department Notice Application for promulgation of Marine Department Notice for Kar Lan Wine Prection of toarding and project significant at Por. A. Excellen of heartding and project signburns at Par. B. Application and installation of valor supply system Establishment of Englager's Principal Site Office Completion of Section 2 (1sp. Lan Was Public Pier) Application and Installadian of decirical system Submission and approval of US and IC (USty) Completion of Section 1 (Wong Shelt Pairlie Pier) Application and lustralization of telephone fines. Preparation and approval of lesseline report Reconstruction of Wong Shek and Pravising of Contractor's accommodation Servicing during maintenance period Servicing during construction period Endousement of EMARA program Baseline water quality monitoring Normal Task Notification of parties in concern Temporary cover to existing piec Pres, construction manifesting Section 1 (Wong Stock Public Pler) Contract No.: CV/2004/02 Ko Lan Wan Public Piers Commencement of the Works Split Dasagn and KFE checking Sebinission and approval Sultimission and approval Environmental Atombering Decembridssioning Інприст тпаниватия 14ccaministining Secondary Office For Wong Shek Savietry Section Res De 2000 23 Initial sarvey Provision Prefiminary

/013 #2663 P.003 FEB.23.2005 17:01 Commencement Date: 15th Nov 2004 Completion Date: 6th Aug 2006 Programme Date: 21st Feb 2005 Contractor; Kin Shing Construction Co. Ltd. 20,000 UNIVERSE W SYNERGENERAL BENEFIT # E. MEMBER 25.25.29.25.25.25 12 December of the Control of the Control # STREETHERSTERNISHED ST RESTREATED TO BE SEEN STREET, SALES STREET, S. PETTERER 31 MINERS, TELEVISION OF THE 見を当 m Margaran O CHRESTER AL CONTRACTOR STREETS STREETS IN 40 (fire expensive expensi STATES OF SAME PARTIES AND PROPERTY OF STATES Critical Trade (Sec. 2). Maintenance Percel SA PRESENTATIONS IN 40 (YEFELLERENTSKARRESKERRESKERRESKERRESKERRESKERRESK A TSHIRKINE Chilathicuscin the 888390038230 STATISTICS. 20 (V HUMBHEWINSHIPSERS OHALTS ONLY Master Programme A PROBREM A \* 7.00kg 34,34,25,44,88 420,84,28,71 Completion Microsop 41,13,34 Wed 055525 14 113,43 08,63 Sam 05/10/9 67 23 3.0 2 Sun 05/10/9 Thu \$5:3/10 Thu 05/3/17 Sun 05/4/17 Wed 05/8/10 Sat 05/10:29 Wed 05:7/27 Wed 05/5/25 Wed 05:7/27 Wed 05/7/6 Thm 05/8/11 Sun 05/10/9 Tue 05/3/15 Wed 85/5/25 Tue 05/3/15 Sun 05/4/24 Thu 05/5/19 Sun 05/4/17 Suct 05/3/27 Sum 05/10/9 Wed 05/2/2 (1) n 0.5'69 Tue 05/8/9 Fri 05/2/18 Thu 05.5319 Pri 05/5/20 Pri 05/2/25 Sac 05/9/24 Sat 06/1/7 Fri 05/3/9 Wed 05/22 Fri 05/5/20 Man 05/10/10 Wed 05/8:30 Man 04/11/15 Wed 04/11/29 Wed 04:12:29 Sat 05/9:10 Man 04/11/15 91/E/50 Po// West 05/3/16 Wed 05/3/16 Mon 05/3/28 Sun 05/7/10 Mon 05/4/25 Sat 05/2/26 Fri 05/3:18 The 05/3/36 Tue 05/6/28 Sun 05:679 THIN DECES The 05:77 Thu 05/7/28 Fri 05/8/12 Sun 65.9(25 Vri 65/6/10 Pri 05:1610 Thu 05:1:20 Sac 05/2/19 Pri 05/3/11 Thu 05/2:3 Pri 05/5/20 Sax 05/5/21 Sat 05:1/1 The US23 Sur DS/1/1 Commercement Milestone 110 days 282 days 112 days 15 days 44 Gays 212 days 10 days 21 days 33 days 30 days 18 days 21 days 35 days 15 days 61 days 30 days. 30 days 65 days 5 days 59 days 20 days 15 days 20 days 8d days 40 days 5 days 41 days 25 days 66 days L day Pagess 19.53.543.743.543.53 Design and ICE checking of inhowork for pile cap and deck Submission of reports and determine pile founding levels Verticul train piles (A11, 88, 811, C8, C11, D8, D11) Vertical train piles using land plant (E1, Ht, E2, H2) Submission of calculation and method statement for ranginers's approval Card hod by ICE, testing and contrassioning of beath Execution of Linkswork for installation of precast units. Relocation of navigation light by Marine Dept. Deck construction and installation of fenders Presign and ICE clocking of temporary berth Vertical main piles (remativing 14 uot.) Compilition of method statement for pubing Raking prefirming piles and testing (B10) Submission and approval of precast yard Reconstruction of Wong Shek and Custing of proceed units at precess yard Applicacion to Mariere Department Submission for Engineer's commen. Certified by JCE and rounnissioning Submission for Engineer's comment Submission for Engineer's comment Vertical preliminary pile and lesting Suhmession for Engineer's numment Circural investigation works on site Pregaration and approval of reports. temporary platform for raichts pile Ner-1-Tak nastruction of pile cap middeck の事が用 Halang main pries (15 nos) Contract No.: CV/2004/02 Spill Ko Lau Wan Public Piers Provision of tetaparary berth Ning for permanent pier Pile test for usin piles Ground Investigation Decree No. (Wiching Materials) Freedion Piling ź 3 2 I 2 2 2 7 2 4 4 8 4 2 78 S, S. × 72 7. 2. 5 ě

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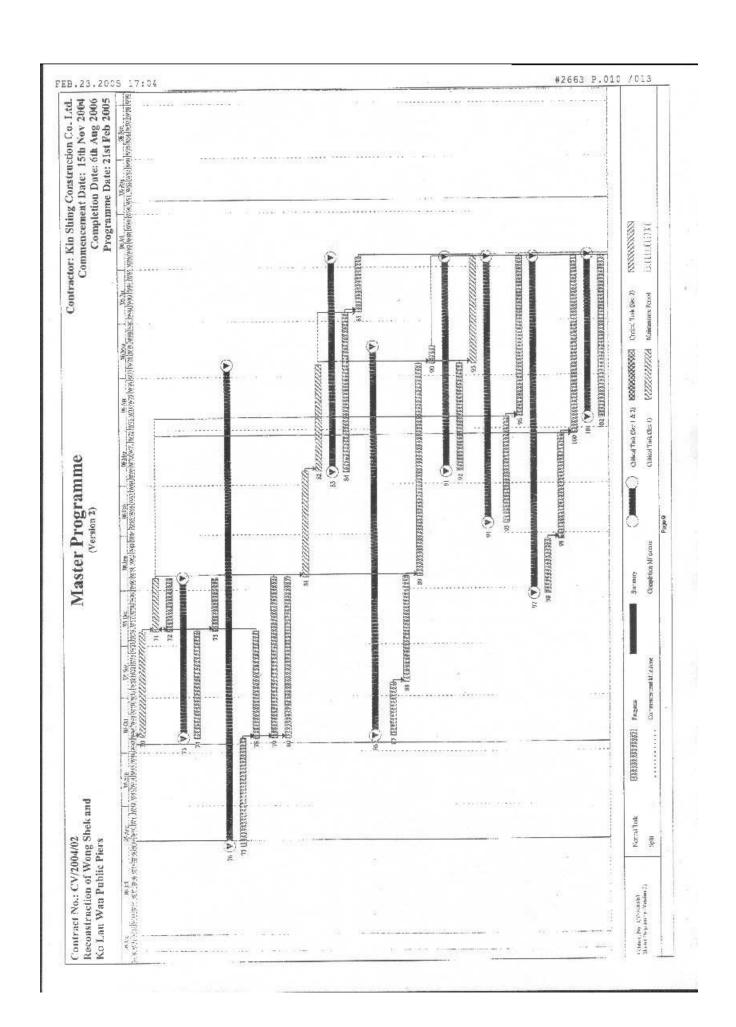
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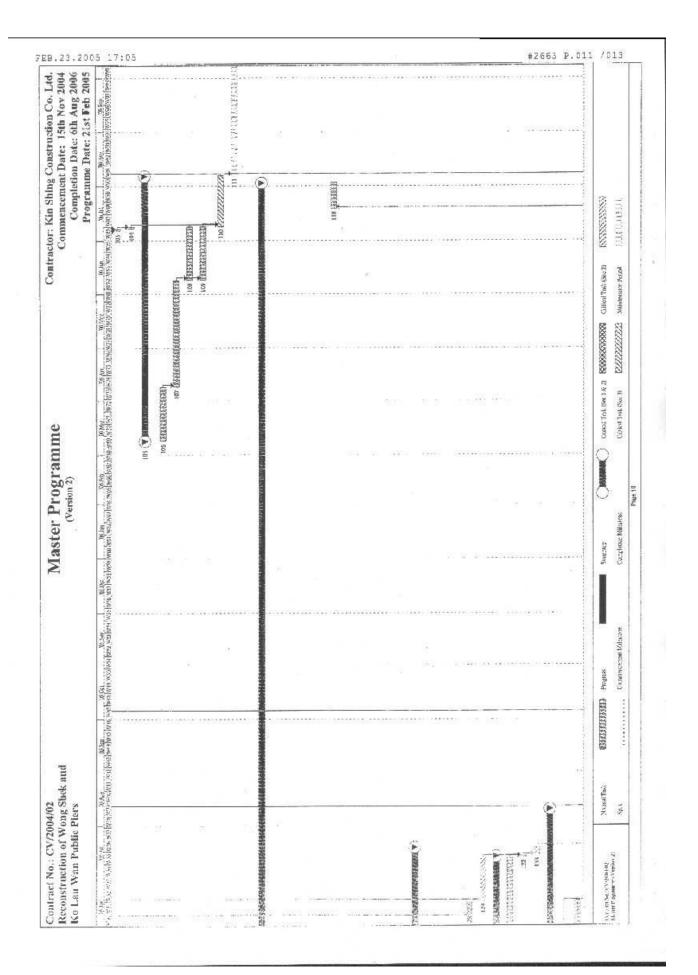
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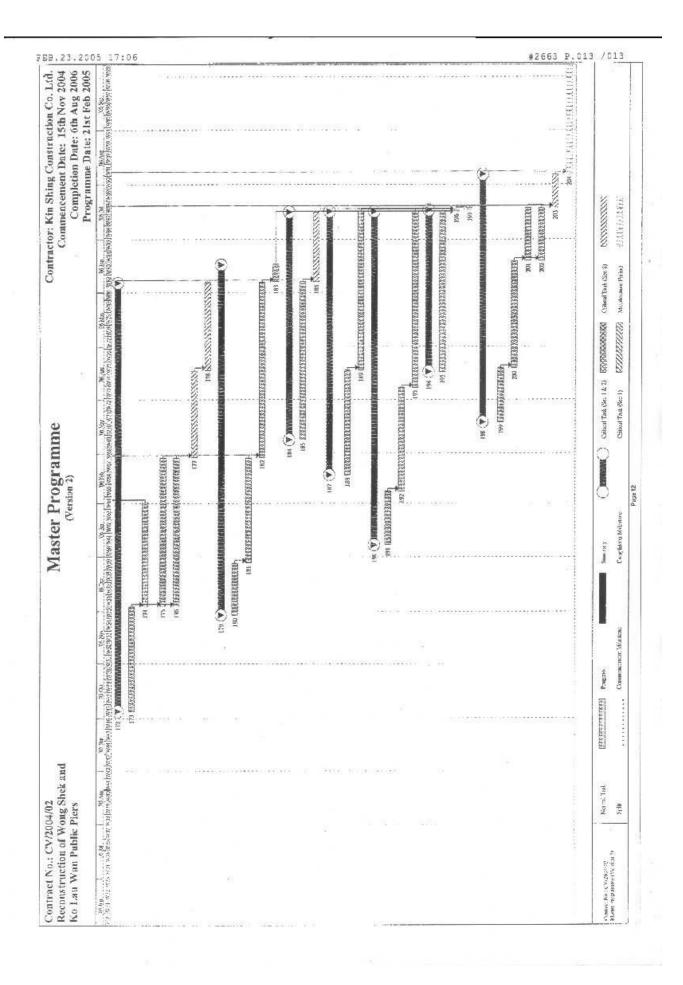
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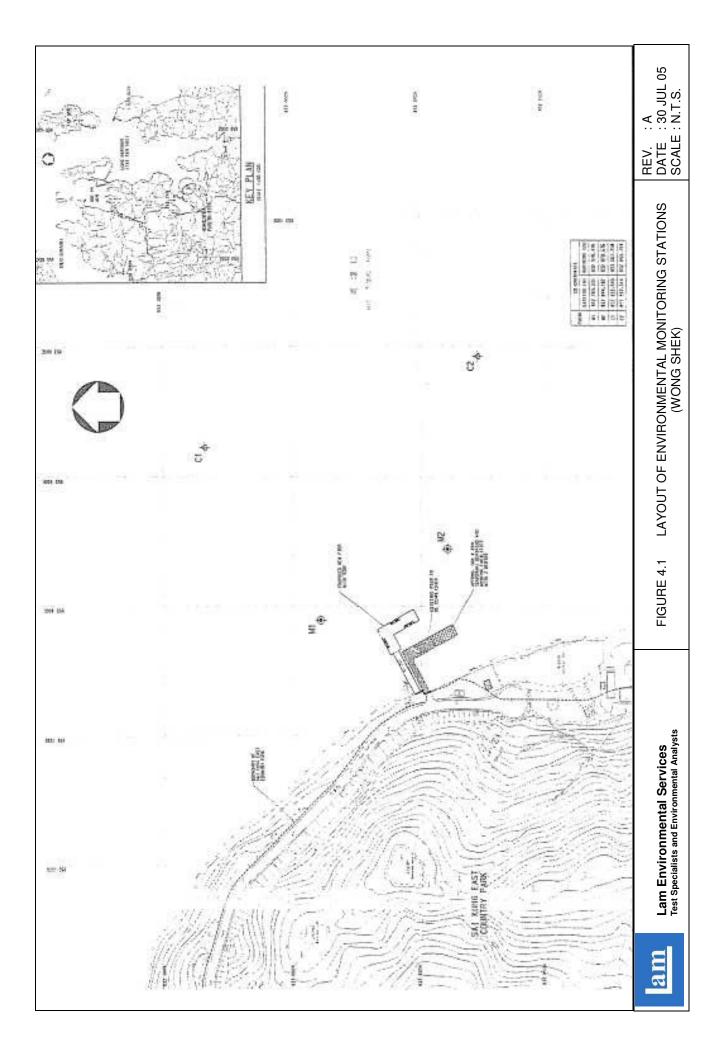






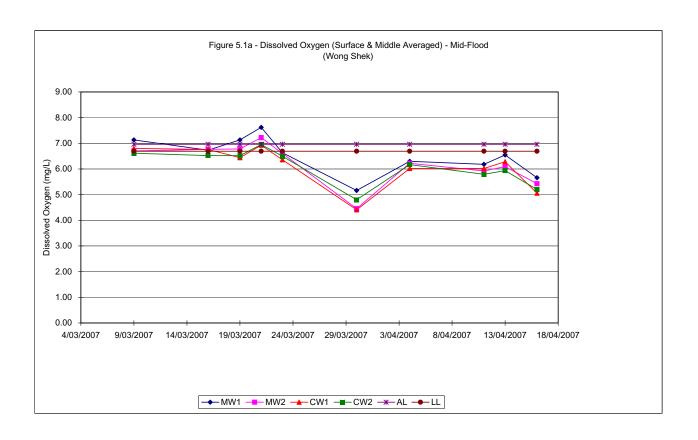
### Figure 4.1

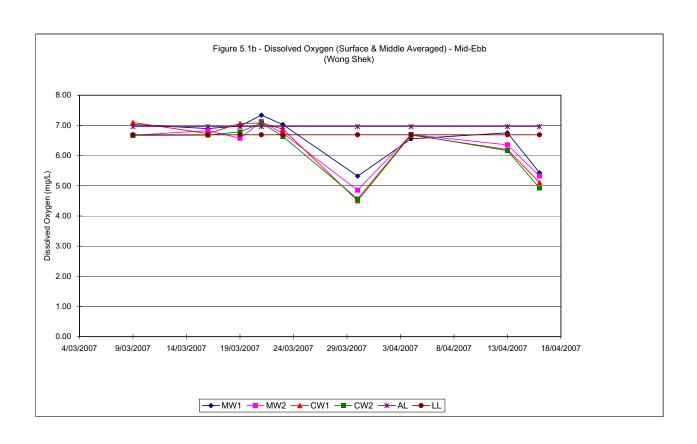
# Layout of Environmental Monitoring Stations

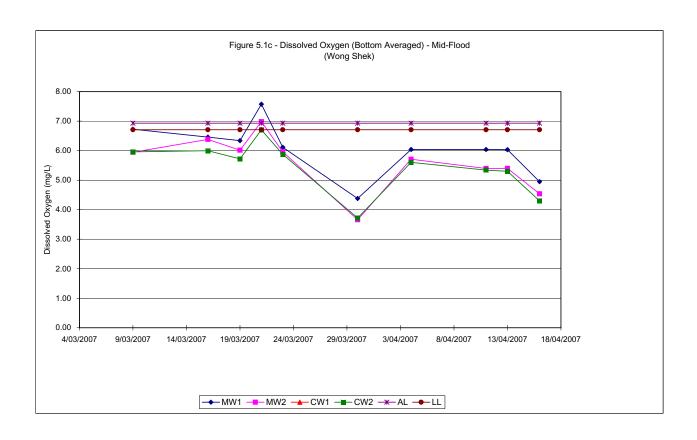


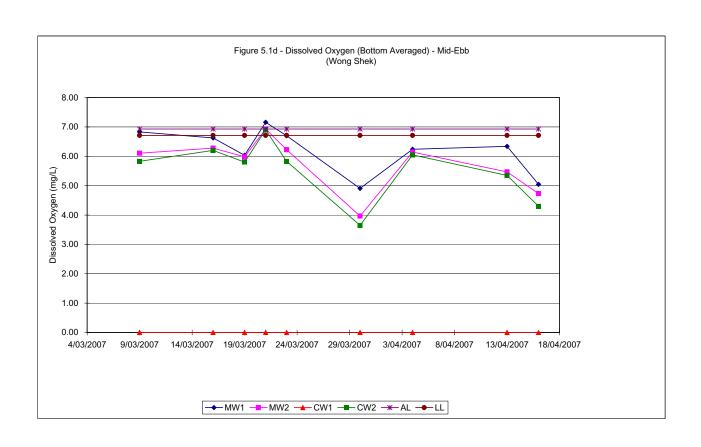
#### Figure 5.1a-h

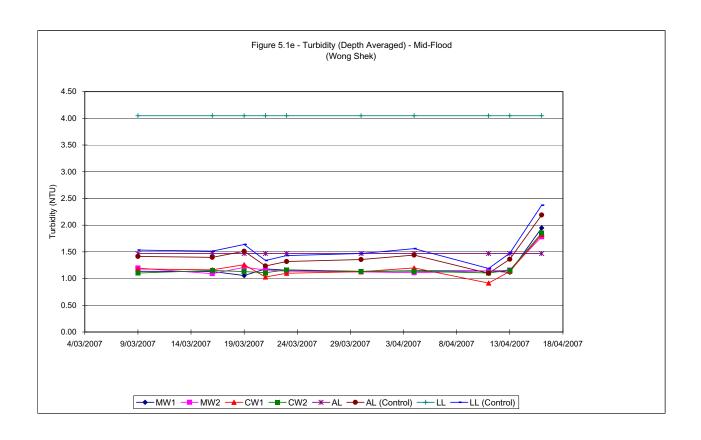
Graphical Plots of Water Quality Monitoring Results

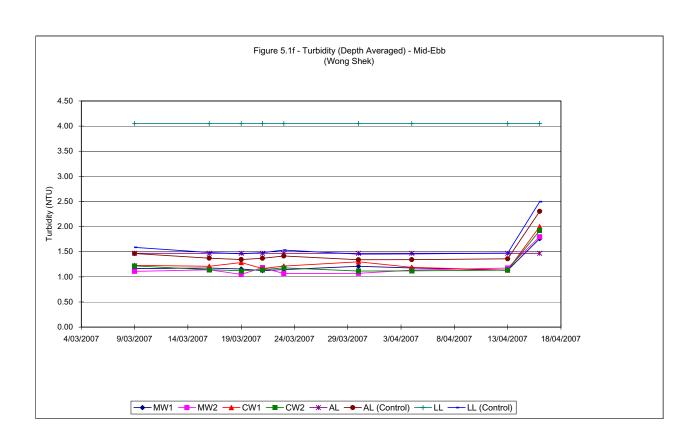


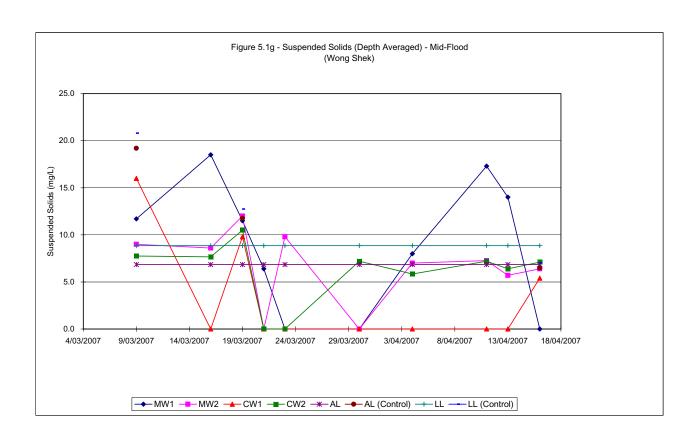


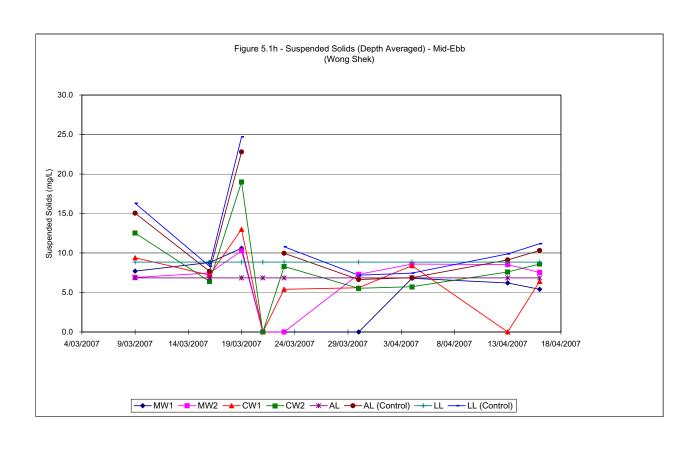






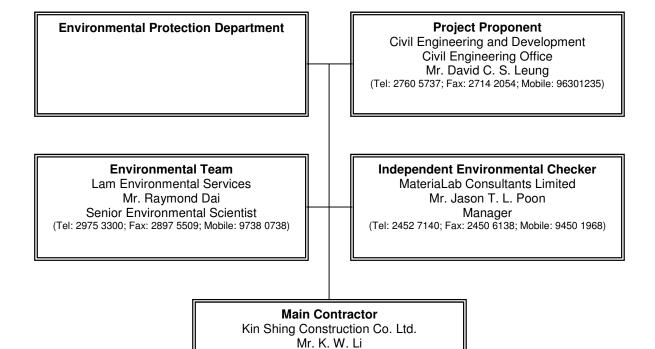






#### Appendix A

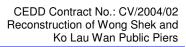
Organization Chart



Project Manager (Tel: 27296779; Fax: 2729 7858; Mobile: 9104 9463)

#### Appendix B

Implementation Schedule of Mitigation Measures



#### Implementation Schedule of Mitigation Measures - Wong Shek

Environmental Aspect	No.	Mitigation Measures	Implementation Status	Follow Up action(s)
Air Quality	AQ01	Provide a wash-pit or a wheel washing and/or vehicle cleaning facility at the exits.	Not applicable at this stage	-
	AQ02	Provide a hard surfaced road between the wheel washing facilities and any finished road.	Not applicable at this stage	-
	AQ03	No burning of construction wastes or vegetation shall be allowed on the Site.	Implemented	-
	AQ04	In the process of material handling, any material which has the potential to create dust shall be treated with water or sprayed with wetting agent.	Not applicable at this stage	-
	AQ05	Any vehicle with an open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards.	Not applicable at this stage	-
	AQ06	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	Implemented	-
	AQ07	Stockpiles of sand, aggregate and construction and demolition 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.	Not applicable at this stage	-
	AQ08	Water sprays shall be provided and used both to dampen stored materials and when receiving raw materials.	Not applicable at this stage	-
	AQ09	Clean and water the Site to minimize the fugitive dust emissions.	Implemented	-
	AQ10	Furnace, boiler or other plant or equipment or use any fuel that might in any circumstances produce smoke or any other air pollution should not be installed.	Implemented	-
Noise	N01	All plant and equipment to be used on Site are properly 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.	Implemented	-
	N02	No excavator mounted breaker shall be used within 125m from any nearby noise sensitive receivers. Use hydraulic concrete crusher whenever applicable.	Implemented	-
	N03	All construction works should stop on Sundays and General Holidays.	Implemented	-
Water Quality	WQ01	Water in wheel washing facilities shall be changed at frequent intervals and sediments shall be removed regularly.	Not applicable	-
	WQ02	The polluted water from the wheel washing facilities would not be discharged into all existing stream courses/drains and nearby waterbodies.	Not applicable	-
	WQ03	All existing stream courses and drains within, and adjacent to the Site should be kept free from any debris and any excavated materials arising from the Works	Implemented	-
	WQ04	Chemicals and concrete agitator washings should not be deposited in watercourses.	Implemented	-
	WQ05	The effluent shall comply with the standards stated in the "Technical Memorandum on Standards and Effluent discharges into Drainage and Sewerage Systems, Inland and Coastal Waters" for the appropriate Water Control Zone.	Implemented	-
	WQ06	No spoil or debris of any kind is allowed to be pushed, washed down, fall or be deposited on land or on the seabed adjacent to the Site.	Implemented	-
	WQ07	Maintain any existing site drainage system at all times including removal of solids in sand traps, manholes and stream beds.	Implemented	-
	WQ08	Material from any earthworks should not be washed into the drainage system.	Implemented	-
	WQ09	Silt curtain shall be provided during all demolition works and piling works with the Site.	Not applicable at this stage	-

#### Implementation Schedule of Mitigation Measures - Wong Shek

Environmental Aspect	No.	Mitigation Measures	Implementation Status	Follow Up action(s)
	WQ10	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 at this stage	-
	WQ11	No dredging and spoil dumping shall be conducted.	Not applicable at this stage	-
Ecology	E01	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	-
	E02	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 at this stage	-
	E03	No coral shall be enclosed by the silt curtain.	Not applicable at this stage	-
Waste	W01	All excavated materials should be sorted to recover the inert portions for reuse on site or disposal to designated outlets.	Not applicable at this stage	-
	W02	All metals should be recovered on site for collection by recycling contractors.	Implemented	-
	W03	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.	Implemented	-
	W04	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.	Implemented	-

#### Appendix C

Calibration Certificates for Monitoring Equipment

# Record sheet for calibration of Water Sonde

Item Stock No: 7144 Date of Calibration: 111 2006 Procedure Used: IC 34
Item Stock No: 7444 Date of Calibration: 11 2006 Procedure Used: IC 34  Temp.: 20 C Operator: Signature:
A <u>Temperature Check</u>
Reference Equipment Used: Mercury-in- Glass thermometer Stock No.: (s
Reference Equipment reading: \(\frac{13.0}{\dagger}\) oC Sonde reading \(\frac{23.6}{\dagger}\) oC
Reference Equipment reading: <u>23.6 °C</u> Sonde reading: <u>23.6</u> °C
(Note: Difference between the two readings to be <0.5°C.)
B DO (% Saturation) Calibration
To be performed in aerated clean sea water before use and checked after use. Difference should be less than 10%.
Laboratory Check
Zero DO check (prepared in clean sea water according to APHA 4500-O G, section 3a.)
probe readingO 、O f %
C Conductivity (Salinity Calibration)
Standards Used: 35 ppt ,,
Check Standard: 35 ppt Readout Value: 34,24 ppt
Difference between readout value and actual value should be less than 3%.
D Conductivity Calibration
Standards Used: (mS/cm) (mS/cm)
Check Standard: Readout Value: (mS/cm)
Difference between readout value and actual value should be less than 2%.

Turbidity Calibration
standards Used :,,(NTU)
Check Standard: Readout Value: (NTU)
Difference between readout value and actual value should be less than $10\%$ .
pH check
tandard Used: pH, pH0.
Suffer standard : pH
C Check Standard: pH 9.182. Readout Value: pH 9.15
Certified by: Date :
Section Manager



1412 Honour Ind. Centre 6 Sun Yip St. Chai Wan Hong Kong

# CERTIFICATE OF CALIBRATION

#### IN - HOUSE

Date Of Issue: Serial No: IC 42a / / EL

Item Being Calibra	ated : <i>Turbidity Standards (G</i>	Gelex) Date	Of Calibration :	22/1/07
Item Stock No :	EL471	Opera	ator:	ming
Environment Tem	p. °C: 25°C	Proce	dure No Used :	IC 42 (Revision No. 0)
Primary Standard	s usec 20, 100 and 800 NTU F	ormazin standards	prepared fresh.	
Ref. Equip.used/	Stock No: 60 Roo3.	606 Ros	3, 6,000	2003
* * * * * * * *	* * * * * * * * * * * * * * *	* * * * * * * * *	* * * * * * * * *	* * * * * * * *
Gelex Standards	Last assigned value Date:	New measured value	Agreement	Requirement
- Corox Grandar de	(NTU)	(NTU)	%	%
0 - 10 NTU	4.5	46.5	3%	± 5
10 - 100 NTU	48	49.1	270	± 5
100 - 1000 NTU	482	463	4%	± 5
Comments :	The equipment and Gelex Standards c with the Manufacturer's recommendation		nply	
Input data checked by :		Certifie	d by: Operations Ma	nager



1412 Honour Ind. Centre 6 Sun Yip St. Chai Wan Hong Kong

# CERTIFICATE OF CALIBRATION

IN - HOUSE

Dat		

Serial No: IC 42b / /EL

Item Being Calibra	ated : Turbidity Standards (C	Gelex) Date	Of Calibration :	22/1/04
Item Stock No :	EL 41	Opera	ntor:	<u></u>
Environment Tem	p. °C : 2√°c	Proce	dure No Used :	IC 42 (Revision No. 0)
Primary Standards	s use(20, 100 and 800 NTU F	ormazin standards	prepared fresh.	
Ref. Equip.used/ S	Stock <u>No</u> :			
*****	* * * * * * * * * * * * * * *	*****	* * * * * * * *	* * * * * * * *
Gelex Standards	Turbidity of standard solution used (NTU)	Measured Value (NTU)	R²	Requirement R <sup>2</sup>
	1	6-9		
0 - 10 NTU	5	1.4	0-9999	> 0.996
	10	11.2		
	20	20.6		
10 - 100 NTU	50	14	0.9963	> 0.996
	80	81	0.1(0)	
	100	102		
100 - 1000 NTU	400	394	0.9998	> 0.996
	800	fo2		
Comments :	The equipment and Gelex Standards of with the Manufacturer's recommendat.		iply	
Input data checked by :		Certifie	d by: Operations Ma	inager

#### Appendix D

Water Quality Monitoring Results

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 9/3/2007 Weather Condition: sunny Ambient Temperature, °C: 29 Tide State: Mid-Flood

	on Time Sea Overall Sampling Temperature, °C Dissolved Oxygen, mg/L Dissolved Oxygen, % Salinity, ppt Turbidity, NTU Suspended Solids, mg/L																				
Station	Time			Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity, NTU				nded Solids, mg/L		Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	9:20			1	28.3	28.3	7.13	7.13	7.13	109.3	109.3	109.3	34.4	34.4	1.15	1.24		16			
MW1 M	9:23	small wave	4						7.13			109.5					1.14			11.7	
MW1 B	9:26			3	28.0	28.0	6.73	6.72	6.73	99.7	99.8	99.8	34.6	34.6	1.10	1.06		7.4			
MW2 S	9:00		·	1	28.4	28.4	7.04	7.04	6.70	106.4	106.4	100.7	34.5	34.5	1.26	1.33		11			
MW2 M	9:03	small wave	10	5	28.1	28.1	6.33	6.40	0.70	94.8	95.1	100.7	34.7	34.7	1.17	1.20	1.20	<5.0		9.0	
MW2 B	9:06			9	27.7	27.7	5.93	5.96	5.95	90.4	90.3	90.4	34.9	34.9	1.08	1.15		7.0			
CW1 S	9:30								6.80			100.6									
CW1 M	9:33	small wave	3	1.5	28.0	28.0	6.80	6.80	0.00	100.6	100.5	100.0	34.6	34.6	1.19	1.17	1.18	16		16.0	
CW1 B	9:36																				
CW2 S	9:10			1	28.2	28.2	6.98	7.00	6.61	101.0	101.1	98.0	34.6	34.6	0.95	1.34		<5.0	6.2		
CW2 M	9:13	small wave	13	6.5	28.0	28.0	6.23	6.24	0.01	95.0	95.0	36.0	34.7	34.7	1.27	1.05	1.10	9.8	<5.0	7.8	
CW2 B	9:16			12	27.7	27.7	5.94	5.98	5.96	88.3	88.6	88.5	34.8	34.8	1.18	0.83		9.4	5.6		

Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: Cheng Yi EM 2365 9.7 NTU Raymond Dai Turbidity Meter: Calibration Check: Checked By: Salinity Meter: EM 6167 Calibration Check: 35.3 ppt Date: 16/3/2007

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers

EM

6167

Thermometer:

Client: Kin Shing Construction Co., Ltd. Job No.: J429

 Date of Sampling:
 9/3/2007
 Weather Condition: sunny
 Ambient Temperature, °C:
 29
 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	ls, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	15:20			1	28.2	28.2	7.02	7.04	7.03	110.3	110.2	110.3	34.5	34.5	1.22	1.27		7.0			
MW1 M	15:23	small wave	4						7.03			110.5					1.17			7.7	
MW1 B	15:26			3	28.0	28.0	6.83	6.83	6.83	100.6	100.6	100.6	34.6	34.6	1.13	1.04		8.4			
MW2 S	15:00			1	28.3	28.3	7.00	6.95	6.67	104.3	104.0	100.7	34.4	34.4	1.02	1.17		7.2			
MW2 M	15:03	small wave	10	5	28.0	28.0	6.34	6.40	0.07	97.4	97.0	100.7	34.6	34.6	1.30	1.10	1.11	<5.0		6.9	
MW2 B	15:06			9	27.8	27.8	6.11	6.10	6.11	94.0	94.0	94.0	34.8	34.7	1.07	1.00		6.6			
CW1 S	15:30								7.10			108.4									
CW1 M	15:33	small wave	3	1.5	28.1	28.2	7.10	7.10	7.10	108.3	108.4	100.4	34.6	34.6	1.13	1.33	1.23	9.4		9.4	
CW1 B	15:36																				
CW2 S	15:10			1	28.2	28.2	6.95	6.92	6.67	103.0	102.7	99.9	34.5	34.5	1.06	1.17		10	9.2		
CW2 M	15:13	small wave	12	6	27.9	27.9	6.40	6.40	0.67	97.0	97.0	33.9	34.7	34.7	1.44	1.20	1.22	16	11	12.5	
CW2 B	15:16			11	27.7	27.7	5.83	5.83	5.83	90.4	90.3	90.4	34.9	34.8	1.30	1.15		12	17		

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Cheng Yi
	Turbidity Meter:	EM	2365	Calibration Check:	9.7	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.3	ppt	Date:	16/3/2007
	Thermometer:	FM	6167					

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 16/3/2007 Weather Condition: rainy Ambient Temperature, °C: 27 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	ed Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspended Solids, mg/L			Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а		Average	а	b	а	b	Average			Depth Average	
MW1 S	15:05			1	26.6	26.6	6.73	6.73	6.73	104.2	104.1	104.2	34.6	34.6	1.16	1.23		29			
MW1 M	15:08	small wave	4						6.73			104.2					1.13			18.5	
MW1 B	15:11			3	26.4	26.4	6.46	6.46	6.46	96.4	96.4	96.4	34.8	34.8	1.06	1.08		8.0			
MW2 S	14:45			1	26.5	26.5	6.90	6.90	6.76	110.6	110.6	104.3	34.5	34.5	0.95	0.90		8.4			
MW2 M	14:48	small wave	10	5	26.3	26.2	6.63	6.62	0.70	98.0	98.0	104.3	34.7	34.7	1.09	1.13	1.09	6.4		8.6	
MW2 B	14:51			9	26.0	26.0	6.38	6.38	6.38	93.6	94.0	93.8	34.9	34.9	1.19	1.30		11			
CW1 S	15:15								6.76			99.3									
CW1 M	15:18	small wave	3	1.5	26.4	26.4	6.76	6.76	0.70	99.3	99.3	99.5	34.8	34.7	1.22	1.11	1.17	<5.0		<5.0	
CW1 B	15:21																				
CW2 S	14:55			1	26.5	26.5	6.83	6.88	6.52	101.6	102.1	97.3	34.6	34.6	1.06	1.11		7.4	7.2		
CW2 M	14:58	small wave	13	6.5	26.3	26.3	6.18	6.19	0.52	92.6	93.0	97.3	34.8	34.8	1.30	1.37	1.15	8.0	7.8	7.7	
CW2 B	15:01			12	25.9	25.9	5.99	6.01	6.00	90.3	90.3	90.3	34.9	34.9	1.10	0.98		7.8	7.8		

EM 6167 100 100%: Cheng Yi Equipment used: Dissolved Oxygen Meter: Calibration Check: Sampled By: 2365 10.4 NTU EM Raymond Dai Turbidity Meter: Calibration Check: Checked By: Salinity Meter: EM 6167 Calibration Check: 35.4 ppt 23/3/2007 Date:

Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

 Date of Sampling:
 16/3/2007
 Weather Condition:
 rainy
 Ambient Temperature, °C:
 27
 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Temperature, °C Dissolved Oxygen, mg/L			Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspended Solids, mg/L			Remarks		
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	10:40			1	26.6	26.6	6.88	6.91	6.90	97.4	97.4	97.4	34.5	34.5	1.36	1.20		6.6			
MW1 M	10:43	small wave	4						0.90			97.4					1.18			8.8	
MW1 B	10:46			1.5	26.5	26.5	6.63	6.62	6.63	93.1	93.1	93.1	34.7	34.7	1.04	1.10		11			
MW2 S	10:20			1	26.6	26.6	7.03	7.05	6.83	101.0	100.7	96.6	34.6	34.6	1.13	1.05		6.0			
MW2 M	10:23	small wave	9	4.5	26.4	26.4	6.62	6.60	0.03	92.3	92.4	90.0	34.6	34.6	1.26	1.31	1.14	8.6		7.5	
MW2 B	10:26			8	26.3	26.3	6.28	6.28	6.28	88.4	88.4	88.4	34.7	34.7	1.00	1.09		7.8			
CW1 S	10:50								6.73			95.4									
CW1 M	10:53	small wave	3	1.5	26.5	26.5	6.73	6.73	6.73	95.3	95.4	95.4	34.6	34.6	1.27	1.15	1.21	7.2		7.2	
CW1 B	10:56																				
CW2 S	10:30			1	26.5	26.5	6.90	6.90	6.68	99.9	99.9	96.6	34.5	34.5	1.03	1.07		<5.0	<5.0		
CW2 M	10:33	small wave	11	5.5	26.2	26.2	6.45	6.46	0.00	93.4	93.3	30.6	34.6	34.7	0.96	1.18	1.14	6.0	6.4	6.4	
CW2 B	10:36			10	25.9	25.9	6.20	6.20	6.20	89.3	89.3	89.3	34.6	34.6	1.30	1.32		6.6	6.6		

EM 6167 100 100%: Cheng Yi Equipment used: Dissolved Oxygen Meter: Calibration Check: Sampled By: 10.4 NTU Turbidity Meter: 2365 EM Calibration Check: Checked By: Raymond Dai 23/3/2007 35.4 ppt Salinity Meter: EM 6167 Calibration Check: Date: ЕМ Thermometer: 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 19/3/2007 Weather Condition: cloudy Ambient Temperature, °C: 27 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspen	ded Solid	ls, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	9:25			1	25.4	25.4	7.13	7.13	7.13	116.3	116.1	116.2	35.1	35.1	1.16	1.29		10			
MW1 M	9:28	small wave	4						7.13			116.2					1.06			11.5	
MW1 B	9:31			3	25.2	25.2	6.34	6.34	6.34	102.4	102.3	102.4	35.3	35.3	0.83	0.95		13			
MW2 S	9:05			1	25.3	25.3	7.05	7.00	6.78	110.7	110.7	109.0	34.9	34.9	1.05	1.21		10			
MW2 M	9:08	small wave	9	4.5	25.0	25.0	6.53	6.53	0.76	107.2	107.2	109.0	35.1	35.1	1.36	1.40	1.21	14		12.0	
MW2 B	9:11			8	24.9	24.8	6.03	6.00	6.02	94.4	94.3	94.4	35.2	35.2	1.15	1.10		12			
CW1 S	9:35								6.44			93.1									
CW1 M	9:38	small wave	3	1.5	25.3	25.3	6.44	6.44	0.44	93.2	93.0	93.1	35.0	35.0	1.28	1.24	1.26	10		9.8	
CW1 B	9:41																				
CW2 S	9:15			1	25.2	25.2	6.93	6.88	6.52	103.3	103.3	99.9	34.8	34.9	1.19	1.33	_	12	13		
CW2 M	9:18	small wave	12	6	24.9	24.9	6.14	6.12	0.52	96.4	96.4	99.9	35.1	35.1	1.06	1.11	1.13	12	12	10.5	
CW2 B	9:21			11	24.7	24.7	5.74	5.70	5.72	89.9	90.0	90.0	35.4	35.4	0.92	1.18		7.2	6.8		

Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: Cheng Yi EM 2365 9.9 NTU Raymond Dai Turbidity Meter: Calibration Check: Checked By: Salinity Meter: EM 6167 Calibration Check: \_\_\_\_35 ppt 26/3/2007 Date: Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 3429

Date of Sampling: 19/3/2007 Weather Condition: cloudy Ambient Temperature, °C: 27 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	14:50			1	25.2	25.2	6.98	6.98	6.98	106.5	106.5	106.5	35.0	35.1	1.25	1.19		12			
MW1 M	14:53	small wave	4						6.96			106.5					1.16			10.6	
MW1 B	14:56			3	25.0	25.0	6.04	6.03	6.04	97.2	97.2	97.2	35.2	35.2	1.17	1.02		9.2			
MW2 S	14:30			1	25.2	25.2	6.73	6.73	6.58	100.8	100.8	98.0	35.1	35.1	0.88	0.80		8.8			
MW2 M	14:33	small wave	8	4	25.0	25.0	6.42	6.42	0.36	95.2	95.3	96.0	35.3	35.3	1.15	1.36	1.05	10		10.3	
MW2 B	14:36			7	24.8	24.8	5.97	5.99	5.98	88.3	88.4	88.4	35.5	35.5	1.08	1.03		12			
CW1 S	15:00								7.07			110.5									
CW1 M	15:03	small wave	3	1.5	25.0	25.1	7.06	7.07	7.07	110.6	110.4	110.5	35.1	35.1	1.37	1.20	1.29	13		13.0	
CW1 B	15:06																				
CW2 S	14:40			1	25.3	25.3	7.19	7.19	6.79	109.3	109.0	101.4	35.2	35.2	1.10	1.18		20	24		
CW2 M	14:43	small wave	10	5	25.1	25.1	6.38	6.38	0.79	93.7	93.7	101.4	35.4	35.4	1.25	1.22	1.12	21	17	19.0	
CW2 B	14:46			9	24.8	24.8	5.80	5.80	5.80	85.6	85.6	85.6	35.6	35.6	1.06	0.92		15	17		

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Cheng Yi
	Turbidity Meter:	EM	2365	Calibration Check:	9.9	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35	ppt	Date:	26/3/2007
	Thermometer:	EM	6167					

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 21/3/2007 Weather Condition: sunny Ambient Temperature, °C: 23 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	ed Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	12:20			1	21.6	21.6	7.62	7.62	7.62	113.4	113.4	113.4	34.9	34.9	1.16	1.05		6.4			
MW1 M	12:23	small wave	4						7.02			113.4					1.18			6.4	
MW1 B	12:26			3	21.3	21.3	7.60	7.55	7.58	110.6	110.6	110.6	35.1	35.0	1.34	1.18		<5.0			
MW2 S	12:00			1	21.5	21.5	7.38	7.38	7.22	117.9	117.4	111.0	34.6	34.6	1.26	1.20		<5.0			
MW2 M	12:03	small wave	10	5	21.2	21.2	7.06	7.06	1.22	104.3	104.2	111.0	34.8	34.8	1.07	1.14	1.16	<5.0		<5.0	
MW2 B	12:06			9	21.0	21.0	7.03	6.94	6.99	100.8	100.9	100.9	35.0	35.0	1.15	1.15		<5.0			
CW1 S	12:30								6.93			100.7									
CW1 M	12:33	small wave	3	1.5	21.3	21.3	6.94	6.91	0.93	100.7	100.6	100.7	35.0	35.0	1.06	1.00	1.03	<5.0		<5.0	
CW1 B	12:36																				
CW2 S	12:10			1	21.4	21.4	7.07	7.07	6.95	106.6	106.6	102.7	34.7	34.7	1.07	1.20		<5.0	<5.0		
CW2 M	12:13	small wave	13	6.5	21.0	21.0	6.84	6.83	0.95	98.7	98.7	102.7	34.9	34.9	1.15	1.13	1.11	<5.0	<5.0	<5.0	
CW2 B	12:16	]		12	20.9	20.9	6.71	6.70	6.71	97.4	97.4	97.4	35.0	35.0	1.02	1.09		<5.0	<5.0		

6167 100 100%: Equipment used: Dissolved Oxygen Meter: EM Calibration Check: Sampled By: Cheng Yi 10.3 NTU Raymond Dai EM 2365 Turbidity Meter: Calibration Check: Checked By: Salinity Meter: ЕМ 6167 Calibration Check: 35.3 ppt 28/3/2007 Date:

Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

 Date of Sampling:
 21/3/2007
 Weather Condition:
 sunny
 Ambient Temperature, °C:
 23
 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	17:40			1	21.4	21.4	7.34	7.34	7.34	114.0	114.0	114.0	34.7	34.7	0.94	1.08		<5.0			
MW1 M	17:43	small wave	4						7.34			114.0					1.13			<5.0	
MW1 B	17:46			3	21.2	21.2	7.16	7.16	7.16	108.3	108.3	108.3	34.8	34.8	1.22	1.26		<5.0			
MW2 S	17:20			1	21.5	21.6	7.19	7.19	7.13	107.5	107.4	103.5	34.6	34.6	1.16	1.17		<5.0			
MW2 M	17:23	small wave	9	4.5	21.3	21.3	7.06	7.06	7.13	99.3	99.7	103.5	34.9	34.9	1.02	1.11	1.18	<5.0		<5.0	
MW2 B	17:26			8	21.3	21.2	6.93	6.93	6.93	91.6	91.6	91.6	35.0	35.0	1.34	1.30		<5.0			
CW1 S	17:50								7.08			102.3									
CW1 M	17:53	small wave	3	1.5	21.4	21.4	7.08	7.08	7.08	102.2	102.3	102.3	34.9	34.8	1.08	1.25	1.17	<5.0		<5.0	
CW1 B	17:56																				
CW2 S	17:30			1	21.3	21.3	7.20	7.20	7.09	110.4	110.1	107.7	34.7	34.7	1.20	1.25		<5.0	<5.0		
CW2 M	17:33	small wave	11	5	21.1	21.0	6.97	6.97	7.09	105.1	105.0	107.7	34.9	34.9	1.08	1.13	1.14	<5.0	<5.0	<5.0	
CW2 B	17:36			9	20.8	20.8	6.90	6.90	6.90	105.0	104.8	104.9	35.0	35.0	1.04	1.15		<5.0	<5.0		

Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: Cheng Yi Turbidity Meter: 2365 EM Calibration Check: 10.3 NTU Checked By: Raymond Dai 28/3/2007 EM Salinity Meter: 6167 Calibration Check: 35.3 ppt Date: Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 3429

Date of Sampling: 23/3/2007 Weather Condition: sunny Ambient Temperature, °C: 26 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	ls, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	9:20			1	24.6	24.6	6.62	6.65	6.64	104.4	104.4	104.4	34.6	34.6	1.44	1.18		<5.0			
MW1 M	9:23	small wave	5						0.04			104.4					1.16			<5.0	
MW1 B	9:26			4	24.4	24.4	6.15	6.08	6.12	97.7	97.6	97.7	34.6	34.6	1.06	0.95		<5.0			
MW2 S	9:00			1	24.7	24.8	6.88	6.89	6.61	105.8	105.9	102.1	34.4	34.4	1.18	1.23		<5.0			
MW2 M	9:03	small wave	10	5	24.6	24.6	6.32	6.33	0.01	98.2	98.3	102.1	34.6	34.6	1.04	1.23	1.14	9.8		9.8	
MW2 B	9:06			9	24.4	24.5	5.97	5.95	5.96	88.7	89.7	89.2	34.6	34.6	1.15	1.00		<5.0			
CW1 S	9:30								6.36			99.5									
CW1 M	9:33	small wave	3	1.5	24.6	24.6	6.36	6.36	0.30	99.5	99.5	99.5	34.5	34.6	1.02	1.18	1.10	<5.0		<5.0	
CW1 B	9:36																				
CW2 S	9:10			1	24.7	24.7	6.77	6.78	6.50	100.8	100.9	98.6	34.5	34.4	1.14	1.18		<5.0	<5.0		
CW2 M	9:13	small wave	13	6.5	24.5	24.5	6.22	6.22	0.50	96.4	96.4	90.0	34.7	34.6	1.33	1.33	1.17	<5.0	<5.0	<5.0	
CW2 B	9:16			12	24.1	24.1	5.88	5.87	5.88	88.8	89.2	89.0	34.7	34.7	1.07	0.94		<5.0	<5.0		

Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: Cheng Yi EM 2365 10.5 NTU Raymond Dai Turbidity Meter: Calibration Check: Checked By: Salinity Meter: EM 6167 Calibration Check: 35.1 ppt 30/3/2007 Date:

Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 3429

 Date of Sampling:
 23/3/2007
 Weather Condition:
 sunny
 Ambient Temperature, °C:
 26
 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	15:20			1	24.8	24.8	7.03	7.03	7.03	104.4	104.3	104.4	34.6	34.6	1.30	1.19		<5.0			
MW1 M	15:23	small wave	5						7.03			104.4					1.15			<5.0	
MW1 B	15:26			4	24.6	24.6	6.70	6.70	6.70	95.8	95.8	95.8	34.7	34.7	1.03	1.06		<5.0			
MW2 S	15:00			1	24.7	24.7	6.94	6.94	6.74	101.3	101.4	97.4	34.4	34.4	1.14	1.05		<5.0			
MW2 M	15:03	small wave	10	5	24.5	24.5	6.54	6.54	0.74	93.4	93.5	37.4	34.6	34.6	0.94	1.00	1.07	<5.0		<5.0	
MW2 B	15:06			9	24.3	24.4	6.23	6.22	6.23	90.2	90.2	90.2	34.6	34.6	1.20	1.07		<5.0			
CW1 S	15:30								6.88			99.7									
CW1 M	15:33	small wave	3	1.5	24.6	24.6	6.88	6.88	0.00	99.7	99.7	99.7	34.6	34.6	1.16	1.27	1.22	5.4		5.4	
CW1 B	15:36																				
CW2 S	15:10			1	24.6	24.6	6.90	6.85	6.64	102.4	102.3	99.8	34.4	34.4	1.06	1.13		<5.0	11		
CW2 M	15:13	small wave	11	5.5	24.4	24.4	6.40	6.40	0.04	97.2	97.2	33.0	34.5	34.5	1.13	1.28	1.18	5.6	<5.0	8.3	
CW2 B	15:16			10	24.4	24.3	5.83	5.83	5.83	90.3	90.0	90.2	34.6	34.6	1.18	1.30		<5.0	<5.0		

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Cheng Yi
	Turbidity Meter:	EM	2365	Calibration Check:	10.5	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.1	ppt	Date:	30/3/2007
	Thermometer:	EM	6167					

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 30/3/2007 Weather Condition: cloudy Ambient Temperature, °C: 19 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	15:05			1	19.1	19.1	5.16	5.16	5.16	81.6	81.7	81.7	34.8	34.8	1.17	1.11		<5.0			
MW1 M	15:08	small wave	5						5.16			01.7					1.13			<5.0	
MW1 B	15:11			4	18.8	18.8	4.38	4.38	4.38	73.4	73.0	73.2	34.8	34.8	1.20	1.04		<5.0			
MW2 S	14:45			1	18.6	18.6	4.86	4.82	4.46	78.4	78.3	74.2	34.7	34.7	1.05	1.30		<5.0			
MW2 M	14:48	small wave	10	5	18.4	18.4	4.07	4.07	4.40	70.1	70.1	74.2	34.8	34.8	1.17	1.06	1.13	<5.0		<5.0	
MW2 B	14:51			9	18.3	18.3	3.66	3.66	3.66	66.4	66.4	66.4	34.9	34.9	0.97	1.20		<5.0			
CW1 S	15:15								4.41			71.7									
CW1 M	15:18	small wave	3	1.5	18.7	18.7	4.41	4.41	4.41	71.7	71.7	71.7	34.9	34.9	1.12	1.14	1.13	<5.0		<5.0	
CW1 B	15:21																				
CW2 S	14:55			1	18.6	18.6	5.10	5.07	4.80	79.6	79.6	76.4	34.8	34.8	1.20	1.03		<5.0	7.2		
CW2 M	14:58	small wave	12	6	18.3	18.3	4.53	4.50	4.00	73.1	73.1	70.4	34.9	34.9	0.80	1.02	1.14	<5.0	<5.0	7.2	
CW2 B	15:01			11	18.3	18.3	3.74	3.70	3.72	68.6	68.5	68.6	35.0	35.1	1.37	1.40		<5.0	<5.0		

Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: Cheng Yi EM 2365 10.4 NTU Raymond Dai Turbidity Meter: Calibration Check: Checked By: Salinity Meter: EM 6167 Calibration Check: 35.5 ppt 6/4/2007 Date:

Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 3429

 Date of Sampling:
 30/3/2007
 Weather Condition:
 cloudy
 Ambient Temperature, °C:
 19
 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	10:40			1	18.4	18.4	5.34	5.30	5.32	82.8	82.7	82.8	34.7	34.8	1.18	1.27		<5.0			
MW1 M	10:43	small wave	4						5.32			02.0					1.21			<5.0	
MW1 B	10:46			7	18.4	18.4	4.91	4.90	4.91	78.8	78.9	78.9	34.9	34.9	1.29	1.10		<5.0			
MW2 S	10:20			1	18.3	18.3	5.08	5.09	4.86	80.3	80.4	77.9	34.8	34.8	1.04	1.01		5.4			
MW2 M	10:23	small wave	10	5	18.3	18.3	4.63	4.62	4.00	75.6	75.4	77.9	34.9	34.9	0.88	1.14	1.07	9.2		7.3	
MW2 B	10:26			9	18.2	18.2	3.97	3.96	3.97	67.9	68.0	68.0	35.0	35.0	1.18	1.17		<5.0			
CW1 S	10:50								4.51			74.3									
CW1 M	10:53	small wave	3	1.5	18.3	18.3	4.51	4.50	4.51	74.3	74.3	74.3	34.9	34.9	1.34	1.26	1.30	5.6		5.6	
CW1 B	10:56																				
CW2 S	10:30			1	18.3	18.3	4.97	4.95	4.57	81.3	81.3	77.7	34.9	34.9	0.95	1.03		<5.0	5.8		
CW2 M	10:33	small wave	11	5.5	18.2	18.2	4.18	4.17	4.57	74.0	74.0	77.7	35.0	35.0	1.17	1.11	1.12	<5.0	5.4	5.5	
CW2 B	10:36			10	18.0	18.0	3.66	3.64	3.65	67.9	68.3	68.1	35.1	35.1	1.06	1.38		<5.0	5.4		

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Cheng Yi
	Turbidity Meter:	EM	2365	Calibration Check:	10.4	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.5	ppt	Date:	6/4/2007
	Thermometer:	FM	6167					

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 4/4/2007 Weather Condition: sunny Ambient Temperature, °C: 26 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	ed Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solic	ls, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	a	b	а	b	Average			Depth Average	
MW1 S	7:50			1	26.1	26.1	6.30	6.30	6.30	98.9	98.9	98.9	34.6	34.6	1.16	1.34		8.0			
MW1 M	7:53	small wave	5						0.50			90.9					1.15			8.0	
MW1 B	7:56			4	26.0	26.0	6.04	6.04	6.04	95.1	95.1	95.1	34.8	34.8	1.04	1.05		8.0			
MW2 S	7:30			1	25.9	26.0	6.52	6.53	6.22	97.4	97.5	95.0	34.5	34.5	1.28	1.16		<5.0			
MW2 M	7:33	small wave	10	5	25.8	25.8	5.90	5.93	0.22	92.6	92.6	93.0	34.7	34.7	1.13	1.16	1.11	7.0		7.0	
MW2 B	7:36			9	25.7	25.7	5.72	5.70	5.71	89.4	89.4	89.4	34.9	34.9	0.94	0.99		7.0			
CW1 S	8:00								6.02			91.6									
CW1 M	8:03	small wave	3	1.5	25.8	25.8	6.03	6.01	0.02	91.7	91.4	91.0	34.7	34.8	1.24	1.16	1.20	<5.0		<5.0	
CW1 B	8:06																				
CW2 S	7:40			1	26.0	26.0	6.48	6.48	6.17	96.8	96.6	93.7	34.6	34.6	1.15	1.25		5.0	7.0		
CW2 M	7:43	small wave	12	6	25.7	25.7	5.86	5.86	0.17	90.7	90.6	93.7	34.7	34.7	1.06	1.15	1.14	<5.0	<5.0	5.9	
CW2 B	7:46			11	25.7	25.7	5.61	5.60	5.61	87.4	87.4	87.4	34.8	34.8	1.03	1.18		5.8	5.6		

Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: Cheng Yi EM 2365 10.4 NTU Raymond Dai Turbidity Meter: Calibration Check: Checked By: Salinity Meter: EM 6167 Calibration Check: 35.5 ppt 11/4/2007 Date:

Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

 Date of Sampling:
 4/4/2007
 Weather Condition: sunny
 Ambient Temperature, °C:
 26
 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	13:50			1	26.4	26.4	6.56	6.55	6.56	101.3	101.5	101.4	34.5	34.5	1.09	1.20		7.6			
MW1 M	13:53	small wave	4						0.56			101.4					1.18			6.8	
MW1 B	13:56			3	26.2	26.3	6.24	6.24	6.24	96.7	97.0	96.9	34.6	34.6	1.17	1.25		6.0			
MW2 S	13:30			1	26.3	26.3	7.06	6.87	6.70	109.5	109.5	103.7	34.5	34.5	1.41	1.34		8.8			
MW2 M	13:33	small wave	9	4.5	26.1	26.1	6.43	6.43	0.70	97.8	97.9	103.7	34.6	34.6	1.08	1.04	1.14	8.8		8.6	
MW2 B	13:36			8	25.9	25.9	6.15	6.14	6.15	93.8	93.7	93.8	34.7	34.7	0.85	1.09		8.2			
CW1 S	14:00								6.68			99.4									
CW1 M	14:03	small wave	3	1.5	26.3	26.3	6.68	6.68	0.00	99.4	99.4	99.4	34.6	34.5	1.15	1.23	1.19	8.4		8.4	
CW1 B	14:06																				
CW2 S	13:40			1	26.2	26.2	6.94	6.93	6.70	106.6	106.6	102.5	34.5	34.5	1.26	1.20		<5.0	5.4		
CW2 M	13:43	small wave	11	5.5	26.0	26.0	6.48	6.45	5.70	98.5	98.3	102.5	34.6	34.6	1.18	1.04	1.12	<5.0	5.0	5.7	
CW2 B	13:46			10	25.9	25.9	6.05	6.05	6.05	93.2	93.2	93.2	34.7	34.7	1.04	1.00		<5.0	6.8		

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Cheng Yi
	Turbidity Meter:	EM	2365	Calibration Check:	10.4	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.5	ppt	Date:	11/4/2007
	Thermometer:	EM	6167					

Project:	Contract	No. CV/2004/0	2 Recons	truction of V	Vong She	k and Ko	Lau Wa	n Public	Piers		Client:	Kin Shing	Construc	ction Co.,	Ltd.		Job No.:	J429	_		
Date of	Sampling:	11/4/2007		W	eather C	ondition:	sunny				Ambie	nt Tempera	ature,°C:	29		. 1	Γide State:	Mid-Floo	od	-	
Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
			Depth, m		a	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	8:20			1	26.8	26.8	6.18	6.18		85.8	85.7		34.2	34.2	1.22	1.09		26.0		,gr	
MW1 M	8:23	small wave	5						6.18			85.8					1.14			17.3	
MW1 B	8:26	=		4	26.6	26.6	6.04	6.04	6.04	83.3	83.3	83.3	34.3	34.3	1.11	1.15		8.6			
MW2 S	8:00			1	26.6	26.6	6.10	6.10		86.1	86.4		34.2	34.2	1.14	1.22		6.6			
MW2 M	8:03	small wave	10	5	26.4	26.4	5.74	5.74	5.92	83.2	83.2	84.7	34.4	34.4	1.17	1.19	1.14	10.0		7.3	
MW2 B	8:06			9	26.3	26.3	5.40	5.39	5.40	80.2	80.0	80.1	34.4	34.4	1.08	1.06		5.2			
CW1 S	8:30																				
CW1 M	8:33	small wave	3	1.5	26.6	26.6	6.02	6.02	6.02	86.6	86.6	86.6	34.3	34.3	0.94	0.89	0.92	<5.0		<5.0	
CW1 B	8:36																				
CW2 S	8:10			1	26.6	26.6	5.98	5.97		86.4	86.4		34.1	34.1	1.17	1.28		8.8	<5.0		
CW2 M	8:13	small wave	11	5.5	26.4	26.4	5.61	5.61	5.79	82.3	82.3	84.4	34.3	34.3	1.04	1.13	1.11	6.6	6.4	7.2	
CW2 B	8:16			10	26.2	26.2	5.34	5.34	5.34	79.0	79.1	79.1	34.5	34.5	1.02	1.00		6.0	8.2		
	I	1			1												l	1	1	I	
Equipmer	nt used:	Dissolved Ox	ygen Mete	er:	EM	6167		Calibrati	on Check:		100	100%:					Sampled	Ву:	Cheng \	/i	
		Turbidity Met	er:		EM	2365		Calibrati	on Check:		10.1	NTU					Checked	Ву:	Raymon	d Dai	
		Salinity Mete	r:		EM	6167		Calibrati	on Check:		35.3	ppt					Date:		18/4/200	07	
		Thermomete	r:		EM	6167															
Destant	0	N - 0.11000 416	0 D				1 14/	- D. I.E.	D'		Oliverte	Kin Ohio	0		Led		lah Na .	1400			
		No. CV/2004/0	)2 Recons		Vong She	k and Ko		n Public	Piers			Kin Shing					Job No.:				
Date of	Sampling:	11/4/2007		. w	Vong She Veather C	ek and Ko	sunny				Ambie	nt Tempera	ature,°C:	19		. 1	Job No.: Fide State:	No Mid-			
			Overall Depth, m	. W Sampling	Vong She Veather C	k and Ko	sunny	d Oxyge		Dissolve a	Ambie	nt Tempera		19		. 1		No Mid-	- Ebb ded Solid	Depth	Remarks
Date of	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-			Remarks
Date of Station	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station MW1 S	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station  MW1 S  MW1 M	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station  MW1 S  MW1 M  MW1 B	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station  MW1 S  MW1 M  MW1 B  MW2 S	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station  MW1 S  MW1 M  MW1 B  MW2 S  MW2 M	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station  MW1 S  MW1 M  MW1 B  MW2 S  MW2 M  MW2 B	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station  MW1 S  MW1 M  MW1 B  MW2 S  MW2 M  MW2 B  CW1 S	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station  MW1 S  MW1 M  MW1 B  MW2 S  MW2 M  MW2 B  CW1 S  CW1 B	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station  MW1 S  MW1 M  MW1 B  MW2 S  MW2 M  MW2 B  CW1 S  CW1 M  CW1 B	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station  MW1 S  MW1 M  MW1 B  MW2 S  MW2 M  CW1 S  CW1 M  CW1 B	Sampling:	11/4/2007 Sea	Overall	. W Sampling	Vong She Veather C	k and Ko ondition:	sunny	d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth	Remarks
Date of Station  MW1 S  MW1 M  MW1 B  MW2 S  MW2 M  MW2 B  CW1 S  CW1 M  CW1 B	Sampling:	11/4/2007 Sea	Overall Depth, m	Sampling Depth,m	Vong She Veather C	k and Ko ondition:	sunny Dissolves a	d d Oxyge	n, mg/L	Dissolve	Ambie d Oxyge b	nt Tempera	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Γide State:	No Mid-		Depth Average	Remarks
Date of Station  MW1 S  MW1 M  MW1 B  MW2 S  MW2 M  CW1 S  CW1 M  CW1 B  CW2 S  CW2 M  CW2 B	Sampling:	11/4/2007 Sea Condition	Overall Depth, m	Sampling Depth,m	Vong She	ik and Ko	sunny Dissolve a	b b	n, mg/L Average	Dissolve	Ambie d Oxyge b	nt Tempera n, % Average	ature,°C: Salinity,	19 ppt	Turbidity	, NTU	Average	No Mid-	ded Solid	Depth Average	Remarks

EM 6167

Thermometer:

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 13/4/2007 Weather Condition: sunny Ambient Temperature, °C: 26 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	14:40			1	25.8	25.8	6.55	6.54	6.55	106.3	106.0	106.2	34.5	34.5	1.15	1.04		14.0			
MW1 M	14:43	small wave	5						0.55			100.2					1.12			14.0	
MW1 B	14:46			4	25.7	25.7	6.03	6.04	6.04	99.7	99.9	99.8	34.7	34.6	1.20	1.08		<5.0			
MW2 S	15:00			1	25.9	25.9	6.34	6.30	6.09	102.0	101.8	99.2	34.4	34.4	1.28	1.30		5.2			
MW2 M	15:03	small wave	11	5.5	25.5	25.5	5.86	5.86	0.00	96.4	96.4	55.2	34.6	34.6	1.04	1.10	1.16	<5.0		5.7	
MW2 B	15:06			10	25.5	25.5	5.40	5.40	5.40	91.0	91.0	91.0	34.8	34.8	1.08	1.15		6.2			
CW1 S	15:10								6.28			100.8									
CW1 M	15:13	small wave	3	1.5	25.6	25.6	6.28	6.28	0.20	100.8	100.8	100.0	34.6	34.5	1.08	1.19	1.14	<5.0		<5.0	
CW1 B	15:16																				
CW2 S	14:50			1	25.8	25.8	6.19	6.20	5.93	99.9	99.6	96.4	34.5	34.5	1.30	1.24		7.4	5.4		
CW2 M	14:53	small wave	13	6.5	25.6	25.6	5.67	5.67	3.93	93.0	93.0	30.4	34.6	34.6	1.03	1.11	1.16	<5.0	<5.0	6.4	
CW2 B	14:56			12	25.5	25.5	5.30	5.30	5.30	88.4	88.4	88.4	34.9	34.9	1.07	1.18		<5.0	<5.0		

Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: Cheng Yi EM 2365 10.7 NTU Raymond Dai Turbidity Meter: Calibration Check: Checked By: Salinity Meter: EM 6167 Calibration Check: 35.2 ppt 20/4/2007 Date: Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 3429

 Date of Sampling:
 13/4/2007
 Weather Condition: sunny
 Ambient Temperature, °C:
 26
 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	ls, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	10:10			1	25.7	25.7	6.74	6.77	6.76	108.4	108.5	108.5	34.4	34.4	1.13	1.06		5.4			
MW1 M	10:13	small wave	4						0.70			100.5					1.13			6.2	
MW1 B	10:16			3	25.7	25.7	6.34	6.34	6.34	101.3	101.3	101.3	34.5	34.5	1.20	1.13		7.0			
MW2 S	9:50			1	25.8	25.8	6.65	6.60	6.36	106.3	106.2	102.6	34.5	34.5	1.07	1.14		9.0			
MW2 M	9:53	small wave	10	5	25.6	25.6	6.10	6.07	0.00	98.9	98.9	102.0	34.6	34.6	1.25	1.20	1.18	9.2		8.5	
MW2 B	9:56			9	25.5	25.5	5.43	5.51	5.47	89.4	89.8	89.6	34.7	34.7	1.18	1.21		7.4			
CW1 S	10:20								6.20			100.9									
CW1 M	10:23	small wave	3	1.5	25.6	25.6	6.20	6.20	0.20	101.0	100.7	100.9	34.6	34.6	1.08	1.19	1.14	<5.0		<5.0	
CW1 B	10:26																				
CW2 S	10:00			1	25.7	25.7	6.40	6.38	6.16	100.3	100.4	98.4	34.6	34.6	1.24	1.30		6.2	<5.0		
CW2 M	10:03	small wave	11	5.5	25.5	25.5	5.94	5.93	0.10	96.4	96.4	30.4	34.6	34.6	1.14	1.11	1.13	5.6	<5.0	7.6	
CW2 B	10:06			10	25.5	25.5	5.34	5.36	5.35	89.0	89.0	89.0	34.8	34.8	1.06	0.95		<5.0	11.0		

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Cheng Yi
	Turbidity Meter:	EM	2365	Calibration Check:	10.7	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.2	ppt	Date:	20/4/2007
	Thermometer:	EM	6167					

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 16/4/2007 Weather Condition: sunny Ambient Temperature, °C: 30 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxvae	n. ma/L	Dissolve	d Oxvae	n. %	Salinity,	ppt	Turbidity	. NTU		Suspend	ded Solid	s. ma/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а		Average	а		Average	а	b	а		Average			Depth Average	
MW1 S	16:28			1	27.4	27.4	5.66	5.66	5.66	89.5	89.5	89.5	34.3	34.3	2.08	1.86		<5.0			
MW1 M	16:31	small wave	5						3.00			09.5					1.95			<5.0	
MW1 B	16:34			4	27.1	27.1	4.95	4.95	4.95	82.2	82.2	82.2	34.5	34.5	1.95	1.90		<5.0			
MW2 S	16:08			1	27.5	27.5	5.74	5.74	5.43	91.4	91.4	87.4	34.5	34.5	1.76	1.76		<5.0			
MW2 M	16:11	small wave	11	5.5	27.3	27.3	5.11	5.11	0.40	83.3	83.3	07.4	34.5	34.6	1.85	1.89	1.78	6.4		6.4	
MW2 B	16:14			10	27.2	27.2	4.54	4.54	4.54	76.6	76.4	76.5	34.7	34.7	1.70	1.74		<5.0			
CW1 S	16:38								5.06			85.9									
CW1 M	16:41	small wave	3	1.5	27.4	27.4	5.05	5.06	3.00	85.8	86.0	03.9	34.4	34.3	1.77	1.88	1.83	5.4		5.4	
CW1 B	16:44																				
CW2 S	16:18			1	27.5	27.5	5.57	5.56	5.20	90.4	90.4	87.2	34.4	34.4	2.04	2.11		5.4	10		
CW2 M	16:21	small wave	13	6.5	27.2	27.2	4.83	4.85	5.20	84.0	84.0	07.2	34.5	34.5	1.80	1.77	1.85	<5.0	7.0	7.1	
CW2 B	16:24			12	27.0	27.0	4.30	4.30	4.30	80.2	80.3	80.3	34.7	34.7	1.65	1.74		<5.0	5.6		

Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: Cheng Yi EM 2365 10.6 NTU Raymond Dai Turbidity Meter: Calibration Check: Checked By: Salinity Meter: EM 6167 Calibration Check: \_\_\_\_35 ppt 23/4/2007 Date: Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers

Client: Kin Shing Construction Co., Ltd. Job No.: <u>J429</u>

 Date of Sampling:
 16/4/2007
 Weather Condition: sunny
 Ambient Temperature, °C:
 30
 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	11:25			1	27.3	27.3	5.43	5.43	5.43	87.7	87.7	87.7	34.4	34.4	1.66	1.70		<5.0			
MW1 M	11:28	small wave	4						5.43			67.7					1.76			5.4	
MW1 B	11:31			3	27.1	27.1	5.04	5.05	5.05	83.1	83.1	83.1	34.5	34.5	1.85	1.83		5.4			
MW2 S	11:05			1	27.5	27.5	5.60	5.60	5.32	90.4	90.5	88.0	34.4	34.4	1.75	1.76		7.6			
MW2 M	11:08	small wave	10	5	27.3	27.3	5.04	5.05	3.32	85.6	85.4	00.0	34.5	34.5	2.04	2.01	1.80	7.2		7.5	
MW2 B	11:11			9	27.1	27.1	4.73	4.73	4.73	81.1	81.1	81.1	34.6	34.6	1.65	1.58		7.8			
CW1 S	11:35								5.11			86.4									
CW1 M	11:38	small wave	3	1.5	27.3	27.3	5.10	5.11	5.11	86.4	86.4	00.4	34.4	34.4	1.95	2.05	2.00	6.4		6.4	
CW1 B	11:41																				
CW2 S	11:15			1	27.4	27.4	5.18	5.19	4.92	86.1	86.2	83.7	34.3	34.3	2.09	2.18		7.4	12		
CW2 M	11:18	small wave	12	6	27.2	27.2	4.67	4.65	4.92	81.2	81.2	03.7	34.5	34.5	1.76	1.83	1.92	8.6	5.8	8.6	
CW2 B	11:21			11	27.1	27.1	4.30	4.30	4.30	77.6	77.6	77.6	34.7	34.7	1.86	1.80		9.0	8.8		

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Cheng Yi
	Turbidity Meter:	EM	2365	Calibration Check:	10.6	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.0	ppt	Date:	23/4/2007
	Thermometer:	EM	6167					

#### Appendix E

Monitoring Schedule - Upcoming month

# Water Quality Monitoring Schedule - Post-project April - May 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr
			*WQM <sup>3</sup>		*WQM <sup>3</sup>	
			(Ebb: 13:03)		(Ebb: 14:32)	
			(Flood: 19:19)		(Flood: 07:53)	
22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
	2		2		2	
	*WQM <sup>3</sup>		*WQM <sup>3</sup>		*WQM <sup>3</sup>	
	(Ebb: 17:24)		(Ebb: 19:42)		(Ebb: 09:38)	
	(Flood: 12:40)		No mid-flood tides		(Flood: 15:02)	
29-Apr	30-Apr	1-May	2-May	3-May	4-May	5-May
	Boat repair	Public Holiday	[Post-project]		[Post-project]	
			*WQM <sup>3</sup>		*WQM <sup>3</sup>	
			(Ebb: 12:32)		(Ebb: 12:06)	
			(Flood: 06:06)		(Flood: 20:06)	
6-May	7-May	8-May	9-May	10-May	11-May	12-May
	[Post-project]		[Post-project]		[Post-project]	
	*WQM <sup>3</sup>		*WQM <sup>3</sup>		*WQM <sup>3</sup>	
	(Ebb: 14:02)		(Ebb: 10:29)		(Ebb: 19:34)	
	(Flood: 06:15)		No mid-flood tides	3	(Flood: 12:29)	
13-May	14-May	15-May	16-May	17-May	18-May	19-May
	[Post-project]		[Post-project]			
	*WQM <sup>3</sup>		*WQM <sup>3</sup>			
	(Ebb: 10:19)		(Ebb: 11:56)			
	(Flood: 16:27)		(Flood: 18:19)			

#### Notes:

- 1. WQM water quality monitoring on mid-flood and mid-ebb tides at Wong Shek (CW1, CW2, MW1 & MW2)
- 2. 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))
- 4. All monitoring shall be carried out 3 times a week due to pier demolition works.
- \* Post-project monitoring will be commenced from 18 Apr onwards for 4 more weeks after the completion of pier demolition on 17 Apr 07.

#### CONTRACT NO: CV/2004/02

# RECONSTRUCTION OF WONG SHEK AND KO LAU WAN PUBLIC PIERS

# ENVIRONMENTAL MONITORING & AUDIT MONTHLY REPORT (KO LAU WAN)

- 9 MAR 2007 - 17 APR 2007 -

CLIENT:

**Kin Shing Construction Company Limited** 

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**CERTIFIED BY:** 

Raymond Dai

Senior Environmental Scientist

DATE:

15 Jan 2008

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#### **FAX MESSAGE**

Priority	☐ normal / ☐ urgent			
То	Lam Environmental Services	Ref. No.	MCLF1894	
Country		Fax No.	2897 5509	
Attn.	Mr. Raymond Dai	Date	15 January 200	8
From	Joseph Poon	No. of Pages	1	(Incl. this page)
C.cTo	Mr. Simon Fok (Kin Shing Con. Co. Ltd.)	Fax No.	2729 7858	
Subject	Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko La Monthly EM&A Summary Reports	au Wan Public	Piers	

We refer to the Monthly EM&A reports (Mar to Apr 07) for Wong Shek Pier and Ko Lau Wan Pier that we received through email on 11 January 2008 and are pleased to confirm we have no further comment on the reports.

Should you require further information, please feel free to contact us.

Best regards,

Joseph Poon

Independent Environmental Checker

JP/ac

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#### **EXECUTIVE SUMMARY**

This is the Monthly Environmental Monitoring and Audit (EM&A) report for Contract No. CV/2004/02 – Reconstruction of Wong Shek and Ko Lau Wan Public Piers. This report presents the environmental monitoring and auditing (EM&A) findings based on data and information recorded from the period 9<sup>th</sup> Mar to 17<sup>th</sup> Apr 2007 for the demolition of Ko Lau Wan Public Pier.

#### Construction Activities for the Reported Period

During this reporting period, the principal work activities at Ko Lau Wan Pier include:

Demolition of existing pier

#### Water Quality Monitoring

10 water quality monitoring events in terms of turbidity, dissolved oxygen, suspended solids, temperature, and salinity was carried out at MK1, MK2, MK3, MK4, CK1 and CK2 at Ko Lau Wan during the reporting period.

Fluctuations for dissolved oxygen, turbidity and suspended solids resembled those fluctuations at the control stations which indicated that all the exceedances in water quality monitoring were due to natural phenomena and agreed with the changes in the control stations. Causation due to construction activities is unlikely and there were no valid exceedance for this reporting period.

#### Waste Management

All demolished materials were beneficially reused as artificial coral on site so that no C&D materials were disposed. No general refuse or chemical waste was transported off site in this reporting period.

#### Complaints, Notifications of Summons and Successful Prosecutions

There was no complaints, notification of prosecutions or summons in this reporting period.

#### Site Inspections and Audit

6 site inspections were conducted by the Environmental Team (ET) in this reported period. Major observations are summarised in the following table. Major observations by the ET, actions by the Contractor and outcome are summarized in the following table.

Item	Date	Observations	Action taken by Contractor	Outcome
-	9 Mar	No particular finding	-	-
-	16-Mar	No particular finding	-	-
-	23-Mar	No particular finding	-	-
-	30-Mar	No particular finding	-	-
-	2-Apr	No particular finding	-	-
-	13-Apr	No particular finding	-	-

#### Future Key Issues

After 17 Apr 07, all the pier demolition works were completed and post-project water quality monitoring will proceed.

#### 1 INTRODUCTION

#### 1.1 SCOPE OF THE REPORT

Lam Environmental Services (LAM) has been appointed to work as the Environmental Team (ET) for Kin Shing Construction Company Limited to implement the Environmental Monitoring and Audit (EM&A) programme for the Contract No. CV/2004/02 – Reconstruction of Wong Shek and Ko Lau Wan Public Piers.

This report presents the environmental monitoring and auditing work carried out from the period 9<sup>th</sup> Mar to 16<sup>th</sup> Apr 2007 for the demolition of Ko Lau Wan Public Pier in accordance to Section 26 of the Particular Specification, Project Profile (PP-191/2003) and Environmental Permit (EP-186/2004) for this Project.

The following information relating to this project is documented in the EM&A Manual and, to avoid duplication, it is not presented in detail within the monthly report.

- Event-Action Plans;
- Full set of environmental mitigation measures and;
- · Contracted environmental requirements.

#### 1.2 STRUCTURE OF THE REPORT

**Section 1** *Introduction* – details the scope and structure of the report.

**Section 2 Project Background** – summarizes background and scope of the project, site description, project organization and contact details of key personnel, construction programme and works undertaken during the reporting period.

Section 3 Implementation Status – summarizes the status of Environmental Permits / Licenses, implementation of environmental protection and pollution control / mitigation measures in an updated schedule for the reporting period.

**Section 4** *Monitoring Requirements* – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency and programmes.

- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- **Section 6 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.
- **Section 7**Site Inspection and Audit summarizes the findings of weekly site inspections and independent audit undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 8 Complaints, Notification of Summons and Prosecution summarizes the complaints, notification of summons and successful prosecution for breaches of environmental legislation and the actions taken within the reporting period.
- **Section 9** Future Key Issues summarizes the upcoming works and a forecast of the environmental impact and monitoring schedule for the next reporting period.
- Section 10 Conclusion

#### 2 PROJECT BACKGROUND

#### 2.1 SCOPE OF THE PROJECT AND SITE DESCRIPTION

The works mainly comprise demolition of the existing piers and construction of reinforced concrete piers with roof covers at Ko Lau Wan. The construction of the Project is scheduled to commence in November 2004 for completion in September 2006. The construction period is 630 days for the entire construction.

The site layout plan is shown in *Figure 2.1*.

## 2.2 PROJECT ORGANIZATION AND CONTACT PERSONNEL

Civil Engineering Office of Civil Engineering and Development Department is the project proponent. The organization chart for the EM&A programme is attached in *Appendix A*.

Under the organization chart, Resident Engineer, Contractor, Independent Environmental Checker, Environmental Team are appointed to manage and control environmental issues for the construction phase of CV/2004/02. Overall responsibilities and duties of the team are found in the corresponding EM&A Manual. Key personnel and contact particulars are summarized in *Table 2.2*:

Table 2.2 Contact Details of Key Personnel

Post	Name	Contact No.	Contact Fax	Mobile No.
Resident Engineer	David C S Leung	2760 5737	2714 2054	9630 1235
Project Manager	K W Li	2729 6779	2729 7858	9104 9463
Independent Environmental Checker (IEC)	Joseph T L Poon	2452 7140	2450 6138	9450 1968
Environmental Team Leader (ETL)	Raymond Dai	2975 3300	2897 5509	9738 0738

#### 2.3 CONSTRUCTION PROGRAMME AND WORKS

Construction works carried out at Ko Lau Wan Pier during this reporting period are:

· Demolition of existing pier

The master construction programme is given in *Figure 2.3*.

#### 3 IMPLEMENTATION STATUS

## 3.1 STATUS OF REGULATORY COMPLIANCE

A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

## Table 3.1 Cumulative Summary of Valid Licences and Permits

Permits and/or Licences	Reference No.	Issued Date	Expiry Date	Status
Environmental Permit	EP-186/2004/A	28-04-2005	-	Issued on receipt of VEP-171/2005 dated 14-04-2005
Waste Producer Registration	WPN5213-742- K1081-05	12-05-2005	-	Notified
Construction Noise Permit	-	-	-	No valid CNP granted to the Contractor

## 3.2 IMPLEMENTATION OF POLLUTION CONTROL / MITIGATION MEASURES

The contractor implemented various environmental mitigation measures as recommended in the Particular Specification and the Environmental Permit. The implementation schedule is presented in *Appendix B*.

#### 4 MONITORING REQUIREMENTS

Locations of environmental monitoring stations are referred in *Figure 4.1*.

#### 4.1 WATER QUALITY MONITORING

The brief for EM&A works details 6 designated stations to be monitored during the construction period comprising 4 monitoring stations and 2 control stations. These stations have been coded as MK1, MK2, MK3, MK4, CK1 and CK2 respectively.

Table 4.1a Water Quality Monitoring Stations

Station	HK Metric Grid (Easting / Northing)	Description
MK1	855 212.850E / 835 496.101N	Impact Monitoring
MK2	855 158.643E / 835 539.315N	Impact Monitoring
MK3	855 170.762E / 835 401.962N	Impact Monitoring
MK4	855 108.767E / 835 402.196N	Impact Monitoring
CK1	854 822.145E / 835 428.000N	Control during mid-ebb
CK2	854 996.976E / 835 675.135N	Control during mid-flood

## 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.

Water quality parameter in terms of: dissolved oxygen (mg/L and % saturation), salinity (ppt), turbidity (NTU), and suspended solids (mg/L) were measured in-situ with portable instruments. Other relevant data was also recorded, including the following:

- monitoring station and position;
- time;
- · depth of water;
- tidal status;
- · water temperature;
- weather conditions including ambient temperature;
- any special phenomena or activities at the construction site.

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.

Suspended solids (SS) were determined in the laboratory at Chai Wan managed by Lam Environmental Services Ltd.

#### Monitoring Equipment

- Sample Bottles: Samples were kept in high density polythene bottles, packed in ice and cooled to 4°C or below, without being frozen, for delivery to the laboratory as soon as possible after collection.
- Thermometer: A standard certified laboratory mercury thermometer with an accuracy of at least 0.5°C was employed, calibrated against a certified thermometer of 0.1°C scale. This thermometer was employed for measuring both ambient and water temperatures.
- Depth Detector: As the depth of water being sampled was generally shallow, too shallow to allow for the use of an echosounder, a marked depth gSepe was employed to determine water depth at all designated monitoring stations.

All in-situ monitoring equipment shall be checked, verified and calibrated by Lam laboratory at Chai Wan, 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 in-situ calibration of field equipment, the BS 1427: 1993 "Guide to Field and on-site 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.

Current calibration certificates are presented in **Appendix C**.

#### Laboratory Analysis

All samples are returned to the laboratory at Chai Wan for the determination of SS under a QA / QC scheme inclusive of blank, duplicate and spike recovery analysis under the requirement of HOKLAS. The laboratory test procedures conform to "Standard Methods for the Examination of Water and Wastewater" published by American Public Health Association (APHA) and United State Environmental Protection Agency (USEPA) test methods are summarized in *Table 4.3b*.

Table 4.1b Laboratory Test Procedures

Parameter	Methodology	Method Ref.	Detection Limit
SS	Determination of Total Suspended Solids Dried at 103-105 €	APHA 19 <sup>th</sup> Ed. 2540D	2.0 mg/L

#### 4.2 MONITORING PARAMETERS AND FREQUENCY

Water quality monitoring programme has been scheduled according to the requirements stipulated in the EM&A Manual produced for the Project summarized in *Tables 4.2*.

Table 4.2 Water Quality Monitoring Parameters and Frequencies

Station(s)	Parameter	Frequency
MK1, MK2 MK3, MK4 CK1, CK2	DO, Temperature, Salinity, Turbidity, Suspended Solids, Water Depth	For piling or demolition works 3 days per week at mid-flood and mid-ebb For marine works other than piling or demolition works 1 day per week at mid-flood and mid-ebb

#### 4.3 WATER QUALITY CRITERIA

Water quality criteria were determined prior to the commencement of the construction of the project for the purpose of impact monitoring. Various levels established based on the results of baseline monitoring and the Event Action Plan stipulated in the EM&A Manual are summarized in *Tables 4.3*.

Table 4.3 Action and Limit Levels for Water Quality Monitoring

Parameter	Action Level	Target Level
Dissolved Oxygen	Surface & Middle	Surface & Middle
(Surface, Middle & Bottom)	For Ko Lau Wan – 6.90	For Ko Lau Wan – 6.79
	<u>Bottom</u>	<u>Bottom</u>
	For Ko Lau Wan – 6.75	For Ko Lau Wan – 5.63
Turbidity (depth- averaged)	For Ko Lau Wan – 1.25 or 120% of upstream control station's Tby at the same tide of same day, whichever is lower	For Ko Lau Wan – 1.60 or 130% of upstream control station's Tby at the same tide of same day, whichever is lower
Suspended Solids (depth-averaged)	For Ko Lau Wan – 6.30 or 120% of upstream control station's SS at the same tide of same day, whichever is lower	For Ko Lau Wan – 6.87 or 130% of upstream control station's SS at the same tide of same day, whichever is lower

#### Note:

- 1. "Depth-averaged" is calculated by taking the arithmetic means of reading all three depths.
- 2. For Dissolved Oxygen, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- 3. For Turbidity and Suspended Solid, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- 4. 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.

#### 4.4 MONITORING PROGRAMME

Environmental monitoring programme for this reporting period was carried out in accordance with the required monitoring frequency. The actual completion of monitoring work during the reporting period is presented in *Tables 4.4*.

Table 4.4 Environmental Monitoring Programme – Mar-Apr 07

Mar / Apr 2007		Water Quality (DO, Turbidity, SS)	Site Inspection
IVIAI / A	pr 2007	MW1, MW2, CW1, CW2	
9	Fri	X	X
10	Sat		
11	Sun		
12	Mon	No mid-tides available	No mid-tides available
13	Tue		
14	Wed	No mid-tides available	No mid-tides available
15	Thu		
16	Fri	X	X
17	Sat		
18	Sun		
19	Mon	X	
20	Tue		
21	Wed	X	
22	Thu		
23	Fri	X	Х
24	Sat		
25	Sun		
26	Mon	No mid-tides available	No mid-tides available
27	Tue		
28	Wed	No mid-tides available	No mid-tides available
29	Thu		
30	Fri	X	X
31	Sat		
1	Sun		
2	Mon	X	Х
3	Tue		
4	Wed	X	
5	Thu		
6	Fri		
7	Sat		
8	Sun		
9	Mon	No mid-tides available	No mid-tides available
10	Tue		
11	Wed	X	
12	Thu		
13	Fri	X	Х
14	Sat		
15	Sun		
16	Mon	X	

#### Note:

- X: Monitoring conducted from 9 Mar to 16 Apr 07 during the pier demolition work.
- Schedule is formulated and with consideration of statutory holidays (shaded in the table).

## 5 MONITORING RESULTS

#### 5.1 WATER QUALITY MONITORING RESULTS

Water quality monitoring was carried out on 10 occasions at stations MK1, MK2, MK3, MK4, CK1 and CK2. Calculated water quality monitoring results in this reporting period are reviewed and summarized in *Tables 5.1a and 5.1b*. Details of measured and tested results can be referred in *Appendix D*. Graphical trend is presented in *Figure 5.1a – 5.1h*.

Table 5.1a Water Quality Monitoring Results (mid-flood tide) – Mar-Apr 07

Station	Averaged DO Surface & Middle (mg/L)	Averaged DO Bottom (mg/L)	Averaged Turbidity (NTU)	Averaged Suspended Solids (mg/L)
MK1	6.28	5.72	1.17	8.5
MK2	6.22	5.59	1.20	9.1
MK3	6.36	5.73	1.19	7.8
MK4	6.30	5.60	1.19	10.0
CK1	6.23	5.30	1.25	7.9
CK2	6.19	5.25	1.24	8.5

Table 5.1b Water Quality Monitoring Results (mid-ebb tide) – Mar-Apr 07

Station	Averaged DO Surface & Middle (mg/L)	Averaged DO Bottom (mg/L)	Averaged Turbidity (NTU)	Averaged Suspended Solids (mg/L)
MK1	6.39	5.80	1.19	8.8
MK2	6.31	5.74	1.22	9.6
MK3	6.38	5.81	1.18	8.2
MK4	6.35	5.75	1.20	8.5
CK1	6.28	5.44	1.21	10.0
CK2	6.27	5.37	1.24	8.5

## 5.2 WASTE MONITORING RESULTS

All demolished materials were beneficially reused as artificial coral on site so that no C&D materials were disposed. No general refuse or chemical waste was transported off site in this reporting period.

#### 6 COMPLIANCE AUDIT

Results of the calculated water quality results for various are audited against the water quality levels and the number of exceedances are summarized *Tables 6.1a* and 6.1b. Exceedances caused by natural phenomena namely fluctuation of overall water quality by comparing the graphical trends of monitoring and control stations are eliminated in order to identify the valid exceedance due to construction activities.

Table 6.1a Summary of Water Quality Exceedance (mid-flood tide) – Mar-Apr 07

Station	Averaged DO Surface & Middle	Averaged DO Bottom	Averaged Turbidity	Averaged Suspended Solids
MK1	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)
MK2	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)
MK3	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)
MK4	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)

Table 6.1b Summary of Water Quality Exceedance (mid-ebb tide) – Mar-Apr 07

Station	Averaged DO Surface & Middle	Averaged DO Bottom	Averaged Turbidity	Averaged Suspended Solids
MK1	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)
MK2	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)
MK3	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)
MK4	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)	0 (AL); 0 (LL)

As shown in the graphical trend, the observed trends and exceedances in dissolved oxygen, turbidity and suspended solids at MK1, MK2, MK3 and MK4 resemble the fluctuations to the respective control stations, possibly due to variation in water current or tidal effect.

The observed exceedances for turbidity and suspended solids are respectively within 0.5 NTU and 7 mg/L, indicating the fluctuation could possibility due to the natural variation around the small values of suspended solids.

To conclude, the fluctuations for dissolved oxygen, turbidity and suspended solids resembled those fluctuations at the control stations which indicated that all the exceedances in water quality monitoring were due to natural phenomena and agreed with the changes in the control stations. Therefore, causation due to CV/2004/02 construction activities is unlikely and there were no valid exceedance for this reporting period.

#### 7 SITE INSPECTION AND AUDIT

The ET undertook site inspection at least once a week. Monthly joint audit was undertaken by the IEC, the ETL, the Engineer and the Contractor.

The ET carried out 6 inspections during this reporting period. The results of these inspections and outcomes are summarized in *Table 7*.

# Table 7 Summary of Environmental Inspection and Audit – Mar-Apr 07

Item	Date	Observations	Action taken by Contractor	Outcome
-	9 Mar	No particular finding	-	-
-	16-Mar	No particular finding	-	-
-	23-Mar	No particular finding	-	-
-	30-Mar	No particular finding	-	-
-	2-Apr	No particular finding	-	-
-	13-Apr	No particular finding	-	-

# 8 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

No complaint, inspection notice, notification of summons or prosecution was received in this reporting period. Complaint log, summaries of cumulative complaints and successful prosecutions are presented in *Table 8a*, *Table 8b*, *Table 8c* and *Table 8d* respectively.

## Table 8a Environmental Complaints Log

Complaint Log No.	Date of Receipt	Received From and By	Nature of Complaint	Date investigated	Outcome	Date of Reply and to Whom
-	-	-	-	-	-	-

## Table 8b Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative No. Project-to-Date
Air	-	-	-
Noise	-	-	-
Water	-	-	-
Waste	-	-	-
Total	-	-	-

## Table 8c 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	-	-	-

## Table 8c Cumulative Statistics on Notification of Summons

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

## 9 FUTURE KEY ISSUES

After 17 Apr 07, all the pier demolition works were completed and post-project water quality monitoring will proceed.

#### 10 CONCLUSION

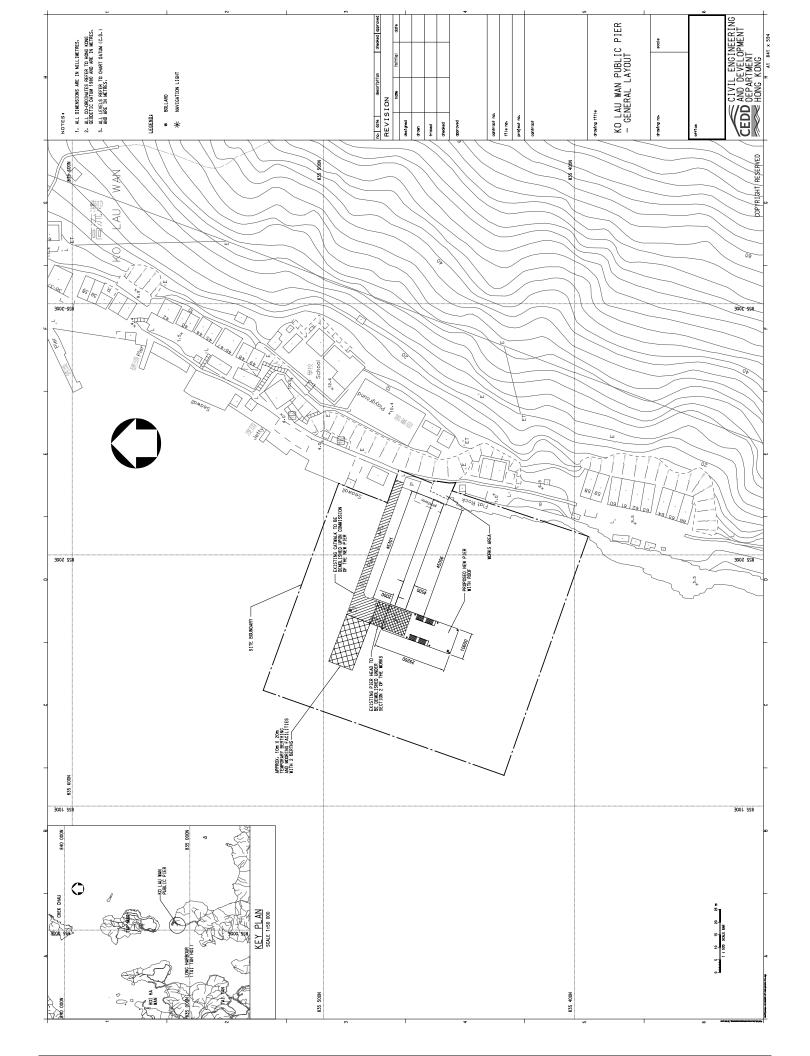
The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed in the previous EM&A Report were made in response to changing circumstances.

No exceedance due to construction activities was reported in routine environmental monitoring. Such results indicate that the construction operation generally performed reasonably acceptable against environmental auditing criteria.

In summary, environmental mitigation measures are being satisfactorily implemented within the CV/2004/02 project along with the on-going construction activities.

Figure 2.1

Location Plan



# Figure 2.3

Master Construction Programme

17:00 #2663 P.002 /013 Completion Date: 6th Aug 2006 Programme Date: 21st Feb 2005 Commencement Date: 15th Nov 2004 Contractor: Kin Shing Construction Co. Ltd. NAMES OF THE PROPERTY OF THE WAS THE WAS TREATED BY THE PROPERTY OF THE PROPER IS THE TREE TO THE PASSE OF THE PROPERTY OF THE PASSE OF EXERTERED DE LE COLOCO (COLOCO POLITORISTO DE ESTADO POLITORISTO DE LA COLOCO DEL COLOCO DE LA COLOCO DEL COLOCO DE LA COLOCO DEL COLOCO DE LA COLOCO DE LA COLOCO DE LA COLOCO DEL COLOCO DE LA COLOCO DEL COLOCO DE LA COLOCO DE LA COLOCO DE LA COLOCO DE LA COLOCO DE H TEXCOLOGICAL PROSECULO DE SUL SERVICE DE LA SERVICE DE SERVICE D \$22.55987.28811.5855.644845.6454895857.8351.4351.5454.545.5454.545 22 VITTERSTREETING BEGINS OF STREET SYSTEMATICS Children between the continuent of the continuen SARRIEL V 18 CUSTRESSEE TITTER 19 (1983) M NESSTERN PROPERTY STATES OF THE PROPERTY OF THE PROPERTY STATES OF THE PROPERTY OF THE PROPE SO DESCRIPTION 25 ANDREADSONANCE STREET, 25 Critical Task (Sec. Let 15 1922/2020/2020/2020 Cotton Task (Sec. D.) IN STREET, STREET, IN CONTROLLER. Maintenance Desired 29 (02047030373933) THE PROPERTY OF THE PROPERTY O S CONTROLLER TO THE CONTROL 1.2 CARLINGS TO PURKETHER STREET, S THE PROPERTY OF THE PERSON NAMED IN Critical Task (Nec 19. The Nov 15 6 STREETSES (3) Master Programme A MIN **B** Processes Chargering Milesons Mon 05/2/34 (2.15 Fi 05/2/25 #7 Sun 05/1/9 #7 2 Man 06/8/7 Slen GG/S/16 Mon 44/11/15 Tue 04:13/14 Mon 05/1/17 Son D6/8:6 Mon 06/8-7 Summery Mon 04/12/6 Man 05/1/3 The 04/12/28 Mon B7/8/5 Sat 65/3/5 Thu 05/3/31 Frt 04/12/31 Tec 05/3/15 Wed05/1/19 Sun Dir876 Sun 05/8/6 Mos 67/8/0 Sun 96/8-6 Sun 02/3/5 Sar 05/3/5 Time 05/3/15 Thu 95/3/31 Frd (15/2/25 Sat 05/2/19 Sun 446/9/3 Fri 05/274 Shut Grid 7.7 Sun 96/8/6 Man 04/11/15 Mon 6421/15 Wed 04/12/15 West 04/12/15 Mon 04/11/15 Men Odel US Tue 04/11/16 Non 04/12/13 Mon Odnii 15 Wed 04:13:29 Tue 04/11/16 More DE/8/7 Sam 96/8/6 Sam 06/8/6 Tue 04/12/7 Mon 07/8/16 Man US/1/3 Most 05/1/3 Tue 05/1/18 Tue 05/2/15 Mest 06/8/7 Hon US/1/31 Mon 05/2/21 I'ri 04/12/31 Son 05/1/16 San OSTATS Wed 04/12/1 Pel 04/12/17 Pel 04/12/17 Mon. 05/1/10 Sm 05/2/26 Mon 06:8:7 Sat 05/235 Compression Milesans 600 days 538 days 75 days 527 days [21 days 994 days 21 days 364 days 582 days 28 days 602 days 20 days 34 days 13 days 75 days 75 days 71 days. 8 days 15 days वर्त वैक्रोड 17 days 26 days 21 days 2.8 days Lday 1 day 34 days eyah 30 658 days STATES STATES OF \*\*\*\*\*\*\*\*\*\*\* Application for present gadion at Murine Department Notice Application for promulgation of Marine Department Notice for Kar Lan Wine Prection of teareting and project significant at Por. A. Excelor of hearthy and project signboard at Par. B. Application and installation of voter supply system Establishment of Englager's Principal Site Office Completion of Section 2 (1sp. Lan Was Public Pier) Application and Installadian of decirical system Submission and approval of US and IC (USty) Completion of Section 1 (Wong Shelt Pairlie Pier) Application and lustralizing of Diephone Fines Preparation and approval of lesseline report Reconstruction of Wong Shek and Pravising of Contractor's accommodation Servicing during maintenance period Servicing during construction period Endousement of EMARA program Baseline water quality monitoring Normal Task Notification of parties in concern Temporary cover to existing piec Pres, construction manifesting Section 1 (Wong Stock Public Pler) Contract No.: CV/2004/02 Ko Lan Wan Public Piers Commencement of the Works Split Dasagn and KFE checking Sebinission and approval Sultimission and approval Environmental Atombering Decembridssioning Інприст тпаниватия 14ccaministining Secondary Office For Wong Shek Savietry Section Res De 2000 23 Initial sarvey Provision Prefiminary

/013 #2663 P.003 FEB.23.2005 17:01 Commencement Date: 15th Nov 2004 Completion Date: 6th Aug 2006 Programme Date: 21st Feb 2005 Contractor; Kin Shing Construction Co. Ltd. 20,000 UNIVERSE W SYNERGENERAL BENEFIT # E. MEMBER 25.25.29.25.25.25 12 December of the Control of the Control # STREETHERSTERNISHED ST RESTREATED TO BE SEEN STREET, SALES STREET, S. PETTERER 31 MINERS, TELEVISION OF THE PERSON OF TH 見を当 m Margaran O CHRESTER AL CONTRACTOR STREETS SEED FOR CO. 40 (fire expensive expensi STATES OF SAME PARTIES AND PROPERTY OF STATES Critical Trade (Sec. 2). Maintenance Percel SA PRESENTATIONS IN 40 (YEFELLERENTSKARRESKERKERFERFERFERFERFERFE A TSHIRKINE Chilathicuscin the 888390038230 STATISTICS. 20 (V HUMBHEWINSHIPSERS OHALTS ONLY Master Programme A PROBREM A \* 7.00kg 34,34,25,44,88 420,84,28,71 Completion Microsop 41,13,34 Wed 055525 14 113,43 08,63 Sam 05/10/9 67 23 3.0 2 Sun 05/10/9 Thu \$5:3/10 Thu 05/3/17 Sun 05/4/17 Wed 05/8/10 Sat 05/10:29 Wed 05:7/27 Wed 05/5/25 Wed 05:7/27 Wed 05/7/6 Thm 05/8/11 Sun 05/10/9 Tue 05/3/15 Wed 85/5/25 Tue 05/3/15 Sun 05/4/24 Thu 05/5/19 Sun 05/4/17 Suct 05/3/27 Sum 05/10/9 Wed 05/2/2 (1) n 0.5'69 Tue 05/8/9 Fri 05/2/18 Thu 05.5319 Pri 05/5/20 Pri 05/2/25 Sac 05/9/24 Sat 06/1/7 Fri 05/3/9 Wed 05/22 Fri 05/5/20 Man 05/10/10 Wed 05/8:30 Man 04/11/15 Wed 04/11/29 Wed 04:12:29 Sat 05/9:10 Man 04/11/15 91/E/50 Po// West 05/3/16 Wed 05/3/16 Mon 05/3/28 Sun 05/7/10 Mon 05/4/25 Sat 05/2/26 Fri 05/3:18 The 05/3/36 Tue 05/6/28 Sun 05:679 THIN DECES The 05:77 Thu 05/7/28 Fri 05/8/12 Sun 65.9(25 Vri 65/6/10 Pri 05:1610 Thu 05:1:20 Sac 05/2/19 Pri 05/3/11 Thu 05/2:3 Pri 05/5/20 Sax 05/5/21 Sat 05:1/1 The US23 Sur DS/1/1 Commercement Milestone 110 days 282 days 112 days 15 days 44 Gays 212 days 10 days 21 days 33 days 30 days 18 days 21 days 35 days 15 days 61 days 30 days. 30 days 65 days 5 days 59 days 20 days 15 days 20 days 8d days 40 days 5 days 41 days 25 days 66 days L day Pagess 19.53.543.743.543.53 Design and ICE checking of inhowork for pile cap and deck Submission of reports and determine pile founding levels Verticul train piles (A11, 88, 811, C8, C11, D8, D11) Vertical train piles using land plant (E1, Ht, E2, H2) Submission of calculation and method statement for rangiciers's approval Card hod by ICE, testing and contrassioning of beath Execution of Linkswork for installation of precast units. Relocation of navigation light by Marine Dept. Deck construction and installation of fenders Presign and ICE clocking of temporary berth Vertical main piles (remativing 14 uot.) Compilition of method statement for pubing Raking prefirming piles and leading (B10) Submission and approval of precast yard Reconstruction of Wong Shek and Custing of proceed units at precess yard Applicacion to Mariere Department Submission for Engineer's commen. Certified by JCE and rounnissioning Submission for Engineer's comment Submission for Engineer's comment Vertical preliminary pile and lesting Suhmession for Engineer's numment Circumst investigation works on site Pregaration and approval of reports. temporary platform for raichig pile Ner-1-Tak nastruction of pile cap middeck の事が用 Halang main pries (15 nos) Contract No.: CV/2004/02 Spill Ko Lau Wan Public Piers Provision of tetaparary berth Ning for permanent pier Pile test for usin piles Ground Investigation Decree No. (Wiching Materials) Freelion Piling ź 3 2 I 2 2 2 7 2 4 4 8 4 2 78 S, S. × 72 7. 2. 5 ě

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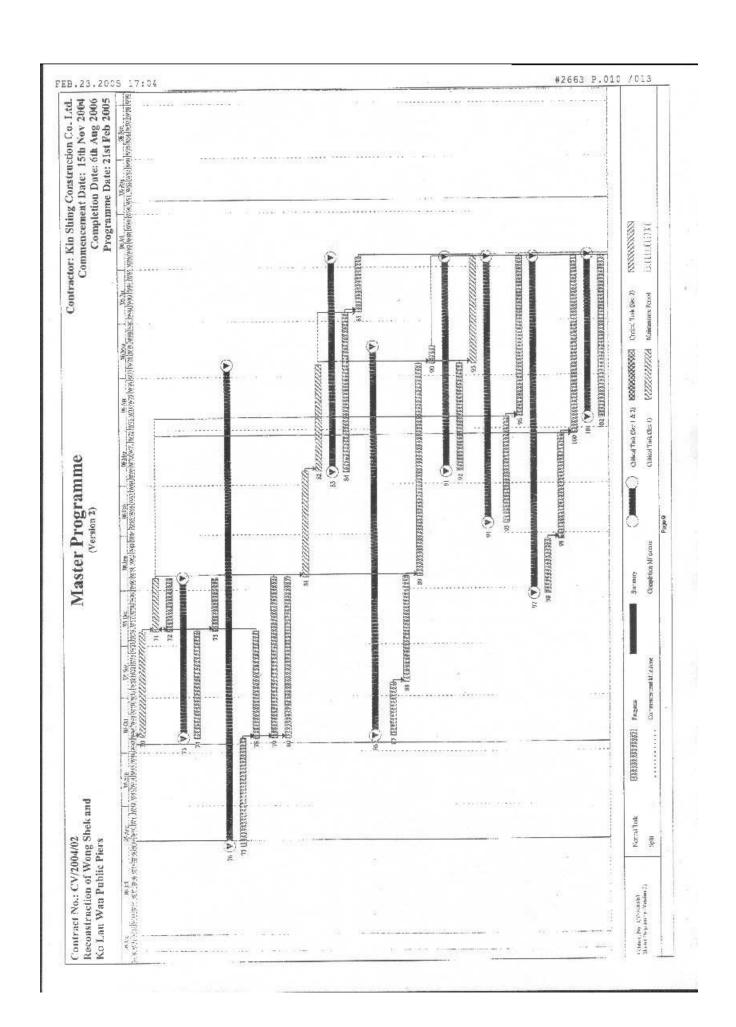
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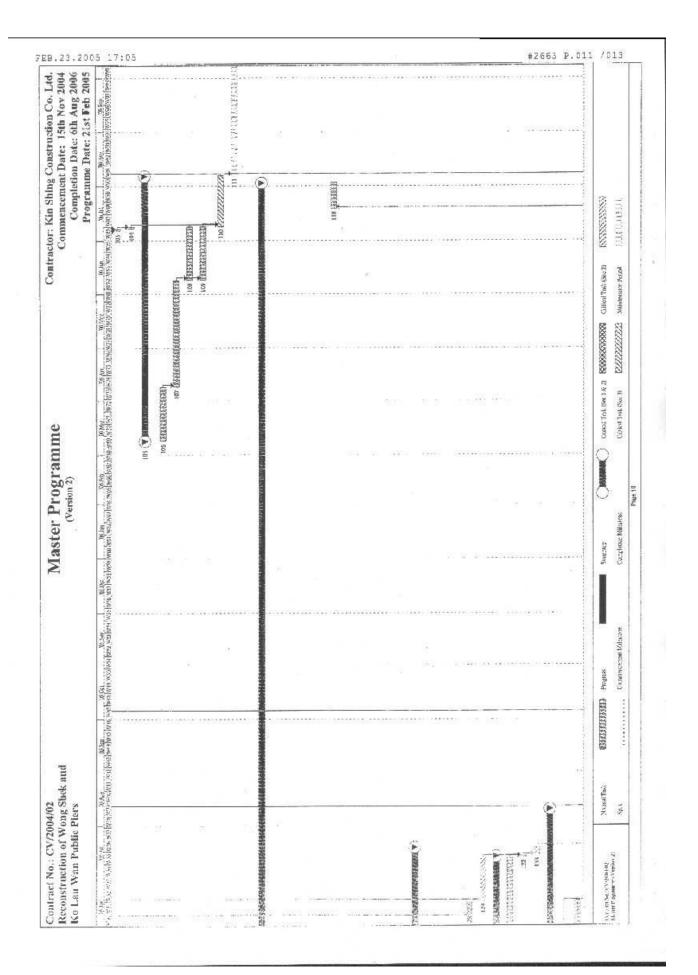
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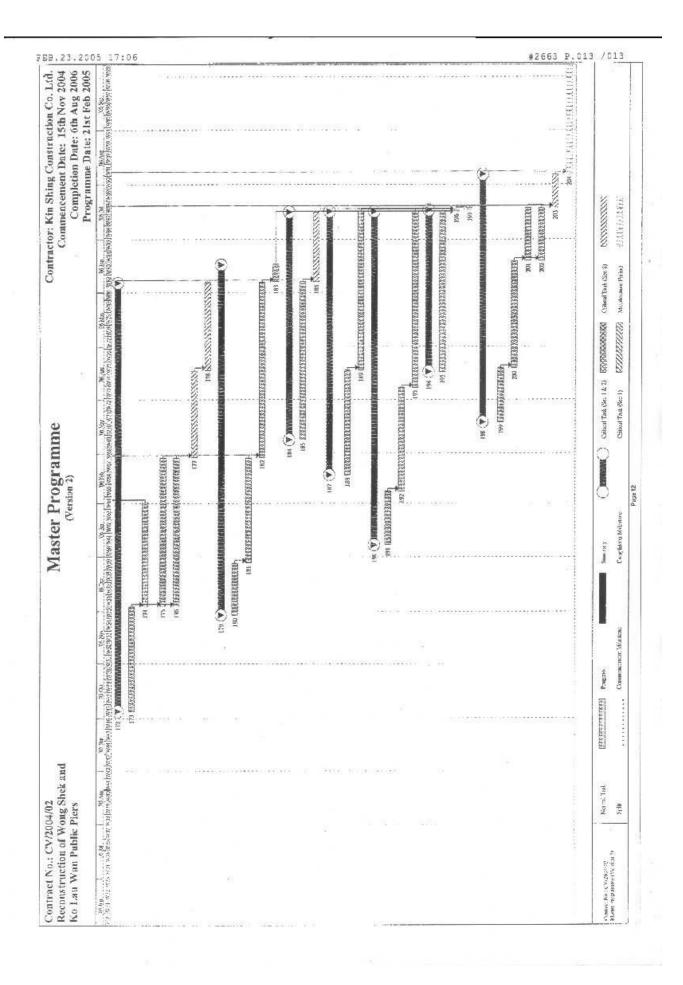
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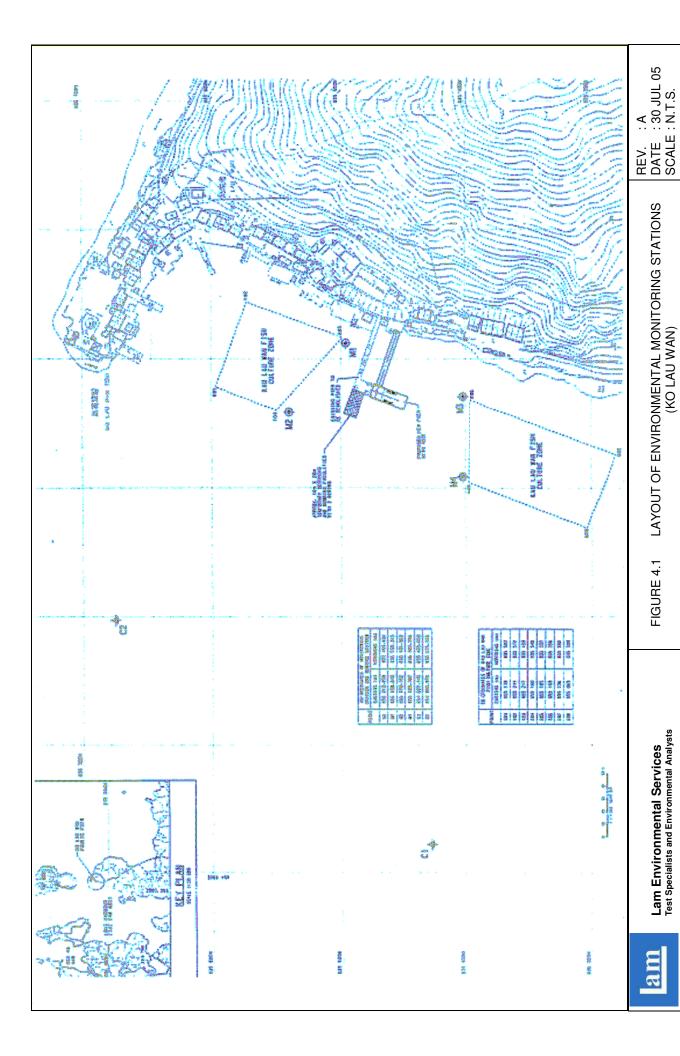






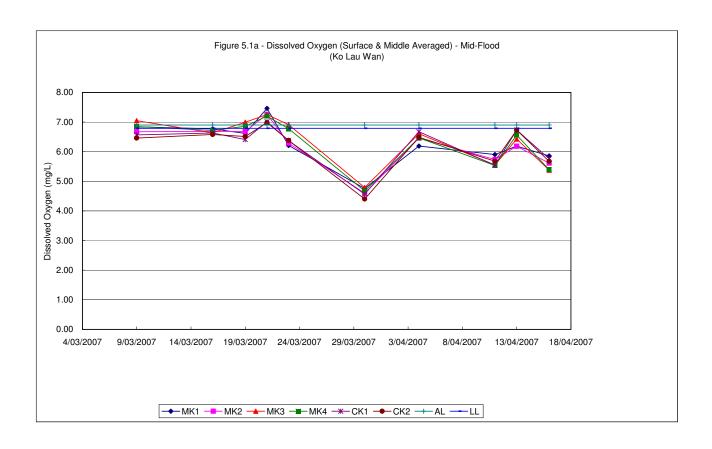
# Figure 4.1

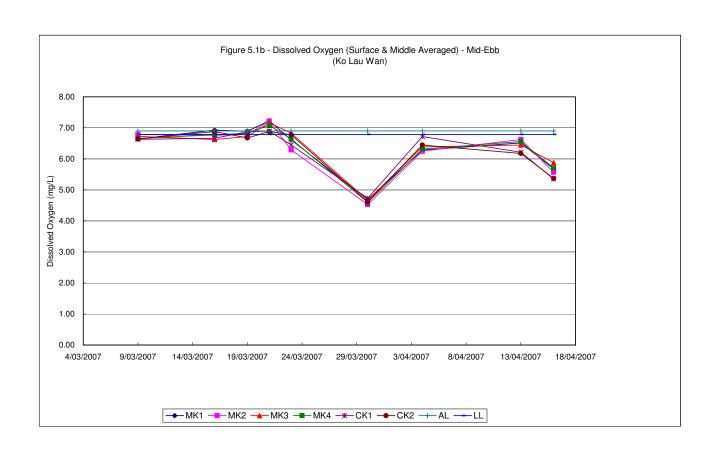
# Layout of Environmental Monitoring Stations

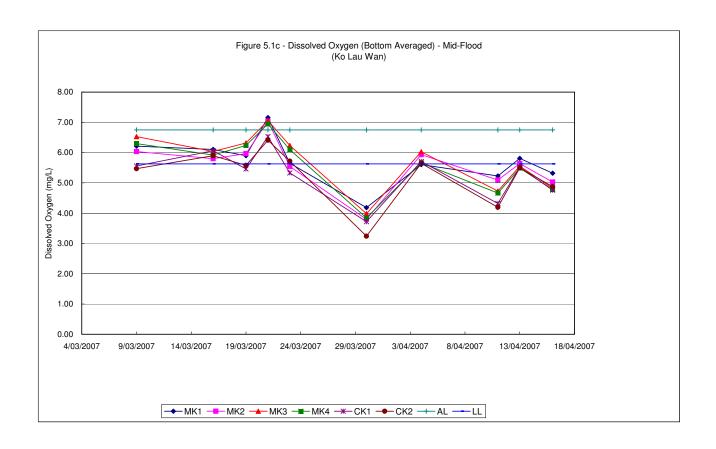


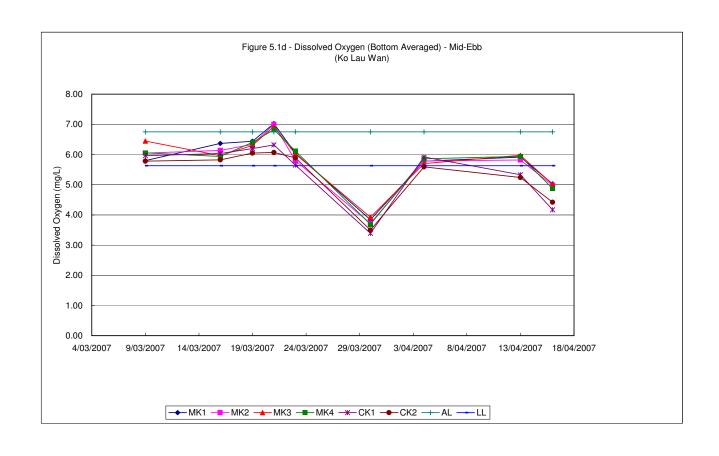
# Figure 5.1a-h

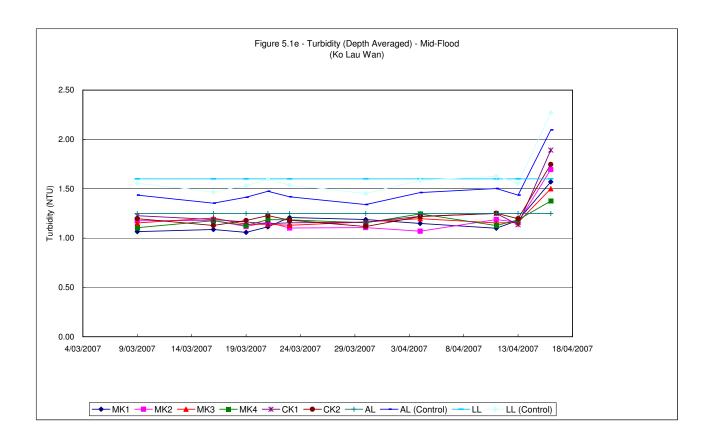
Graphical Plots of Water Quality Monitoring Results

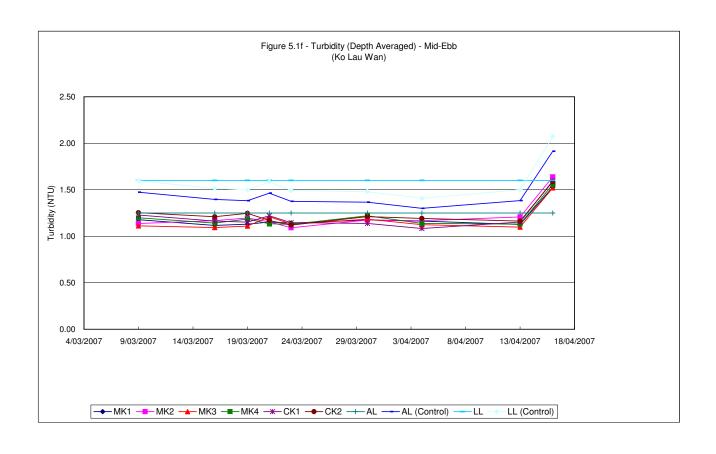


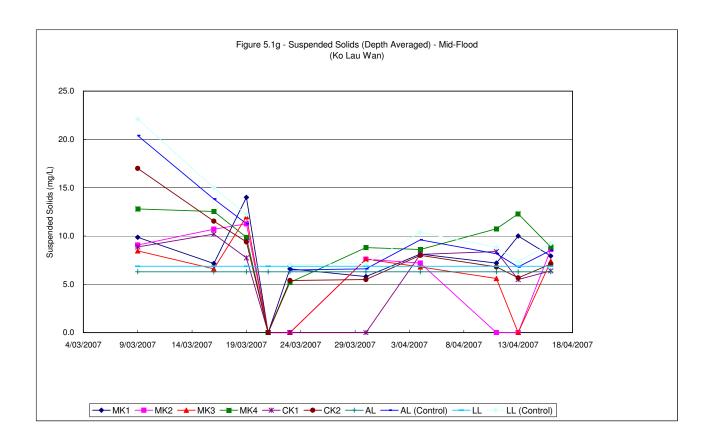


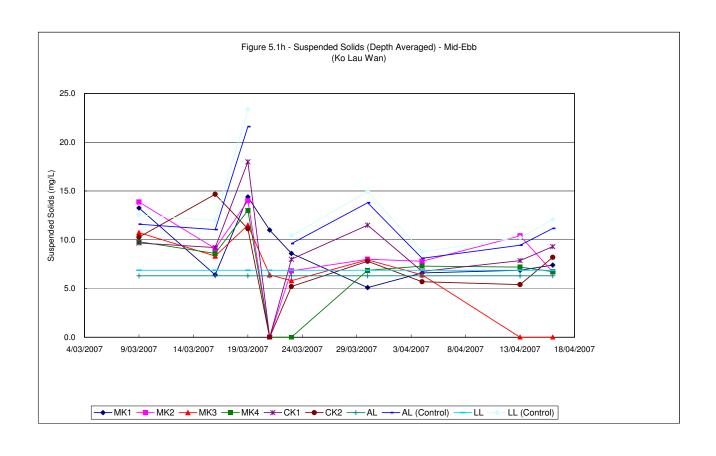






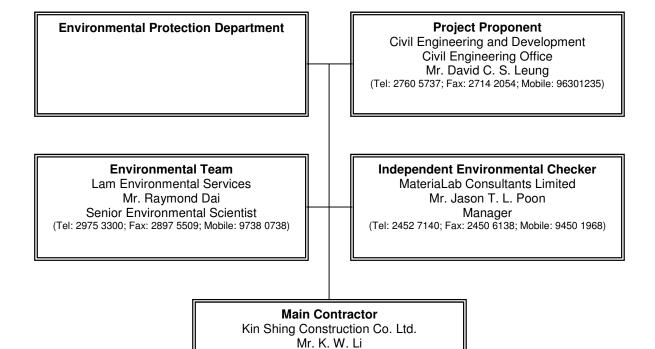






#### Appendix A

Organization Chart



Project Manager (Tel: 27296779; Fax: 2729 7858; Mobile: 9104 9463)

#### Appendix B

Implementation Schedule of Mitigation Measures

#### Implementation Schedule of Mitigation Measures - Ko Lau Wan

Environmental Aspect	No.	Mitigation Measures	Implementation Status	Follow Up Action(s)
Air Quality	AQ01	Provide a wash-pit or a wheel washing and/or vehicle cleaning facility at the exits.	Not applicable at this stage	-
	AQ02	Provide a hard surfaced road between the wheel washing facilities and any finished road.	Not applicable at this stage	-
	AQ03	No burning of construction wastes or vegetation shall be allowed on the Site.	Implemented	-
	AQ04	In the process of material handling, any material which has the potential to create dust shall be treated with water or sprayed with wetting agent.	Not applicable at this stage	-
	AQ05	Any vehicle with an open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards.	Not applicable at this stage	-
	AQ06	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	Not applicable at this stage	-
	AQ07	Stockpiles of sand, aggregate and construction and demolition 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.	Not applicable at this stage	-
	AQ08	Water sprays shall be provided and used both to dampen stored materials and when receiving raw materials.	Not applicable at this stage	-
	AQ09	Clean and water the Site to minimize the fugitive dust emissions.	Implemented	-
	AQ10	Furnace, boiler or other plant or equipment or use any fuel that might in any circumstances produce smoke or any other air pollution should not be installed.	Implemented	-
Noise	N01	All plant and equipment to be used on Site are properly 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.	Implemented	-
	N02	No excavator mounted breaker shall be used within 125m from any nearby noise sensitive receivers. Use hydraulic concrete crusher whenever applicable.	Implemented	-
	N03	All construction works should stop on Sundays and General Holidays.	Implemented	-
Water Quality	WQ01	Water in wheel washing facilities shall be changed at frequent intervals and sediments shall be removed regularly.	Not applicable at this stage	-
	WQ02	The polluted water from the wheel washing facilities would not be discharged into all existing stream courses/drains and nearby waterbodies.	Not applicable at this stage	-
	WQ03	All existing stream courses and drains within, and adjacent to the Site should be kept free from any debris and any excavated materials arising from the Works	Implemented	-
	WQ04	Chemicals and concrete agitator washings should not be deposited in watercourses.	Implemented	-
	WQ05	The effluent shall comply with the standards stated in the "Technical Memorandum on Standards and Effluent discharges into Drainage and Sewerage Systems, Inland and Coastal Waters" for the appropriate Water Control Zone.	Implemented	-
	WQ06	No spoil or debris of any kind is allowed to be pushed, washed down, fall or be deposited on land or on the seabed adjacent to the Site.	Implemented	-
	WQ07	Maintain any existing site drainage system at all times including removal of solids in sand traps, manholes and stream beds.	Implemented	-
	WQ08	Material from any earthworks should not be washed into the drainage system.	Implemented	-
	WQ09	Silt curtain shall be provided during all demolition works and piling works with the Site.	Not applicable at this stage	-

#### Implementation Schedule of Mitigation Measures - Ko Lau Wan

Environmental Aspect	No.	Mitigation Measures	Implementation Status	Follow Up Action(s)
	WQ10	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 at this stage	-
	WQ11	No dredging and spoil dumping shall be conducted.	Not applicable at this stage	-
Ecology	E01	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	-
	E02	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 at this stage	-
	E03	No coral shall be enclosed by the silt curtain.	Not applicable at this stage	-
Waste	W01	All excavated materials should be sorted to recover the inert portions for reuse on site or disposal to designated outlets.	Implemented	-
	W02	All metals should be recovered on site for collection by recycling contractors.	Implemented	-
	W03	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.	Implemented	-
	W04	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.	Implemented	-

#### Appendix C

Calibration Certificates for Monitoring Equipment

# Record sheet for calibration of Water Sonde

Item Stock No: 7144 Date of Calibration: 111 2006 Procedure Used: IC 34
Item Stock No: 7444 Date of Calibration: 11 2006 Procedure Used: IC 34  Temp.: 20 C Operator: Signature:
A <u>Temperature Check</u>
Reference Equipment Used: Mercury-in- Glass thermometer Stock No.: (s
Reference Equipment reading: \(\frac{13.0}{\dagger}\) oC Sonde reading \(\frac{23.6}{\dagger}\) oC
Reference Equipment reading: <u>23.6 °C</u> Sonde reading: <u>23.6</u> °C
(Note: Difference between the two readings to be <0.5°C.)
B DO (% Saturation) Calibration
To be performed in aerated clean sea water before use and checked after use. Difference should be less than 10%.
Laboratory Check
Zero DO check (prepared in clean sea water according to APHA 4500-O G, section 3a.)
probe readingO 、O f %
C Conductivity (Salinity Calibration)
Standards Used: 35 ppt ,,
Check Standard: 35 ppt Readout Value: 34,24 ppt
Difference between readout value and actual value should be less than 3%.
D Conductivity Calibration
Standards Used: (mS/cm) (mS/cm)
Check Standard: Readout Value: (mS/cm)
Difference between readout value and actual value should be less than 2%.

Turbidity Calibration
standards Used :,,(NTU)
Check Standard: Readout Value: (NTU)
Difference between readout value and actual value should be less than $10\%$ .
pH check
tandard Used: pH, pH0.
Suffer standard : pH
C Check Standard: pH 9.182. Readout Value: pH 9.15
Certified by: Date :
Section Manager



1412 Honour Ind. Centre 6 Sun Yip St. Chai Wan Hong Kong

# CERTIFICATE OF CALIBRATION

#### IN - HOUSE

Date Of Issue: Serial No: IC 42a / / EL

Item Being Calibra	ated : <i>Turbidity Standards (G</i>	Gelex) Date	Of Calibration :	22/1/07
Item Stock No :	EL471	Opera	ator:	ming
Environment Tem	p. °C: 25°C	Proce	dure No Used :	IC 42 (Revision No. 0)
Primary Standard	s usec 20, 100 and 800 NTU F	ormazin standards	prepared fresh.	
Ref. Equip.used/	Stock No: 60 Roo3.	606 Ros	3, 6,000	2003
* * * * * * * *	* * * * * * * * * * * * * *	* * * * * * * * *	* * * * * * * * *	* * * * * * * *
Gelex Standards	Last assigned value Date:	New measured value	Agreement	Requirement
- Corox Grandar de	(NTU)	(NTU)	%	%
0 - 10 NTU	4.5	46.5	3%	± 5
10 - 100 NTU	48	49.1	270	± 5
100 - 1000 NTU	482	463	4%	± 5
Comments :	The equipment and Gelex Standards c with the Manufacturer's recommendation		nply	
Input data checked by :		Certifie	d by: Operations Ma	nager



1412 Honour Ind. Centre 6 Sun Yip St. Chai Wan Hong Kong

# CERTIFICATE OF CALIBRATION

IN - HOUSE

Dat		

Serial No: IC 42b / /EL

Item Being Calibra	ated : Turbidity Standards (C	Gelex) Date	Of Calibration :	22/1/04
Item Stock No :	EL 41	Opera	ntor:	<u></u>
Environment Tem	p. °C : 2√°c	Proce	dure No Used :	IC 42 (Revision No. 0)
Primary Standards	s use(20, 100 and 800 NTU F	ormazin standards	prepared fresh.	
Ref. Equip.used/ S	Stock <u>No</u> :			
*****	* * * * * * * * * * * * * * *	*****	* * * * * * * *	* * * * * * * *
Gelex Standards	Turbidity of standard solution used (NTU)	Measured Value (NTU)	R²	Requirement R <sup>2</sup>
	1	6-9		
0 - 10 NTU	5	1.4	0-9999	> 0.996
	10	11.2		
	20	20.6		
10 - 100 NTU	50	14	0.9963	> 0.996
	80	81	0.1(0)	
	100	102		
100 - 1000 NTU	400	394	0.9998	> 0.996
	800	fo2		
Comments :	The equipment and Gelex Standards of with the Manufacturer's recommendat.		iply	
Input data checked by :		Certifie	d by: Operations Ma	inager

#### Appendix D

Water Quality Monitoring Results

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 9/3/2007 Weather Condition: sunny Ambient Temperature, °C: 29 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxygei	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	10:20			1	28.1	28.1	7.03	7.03	6.84	108.3	108.4	101.9	34.5	34.5	1.16	1.05		7.2			
MK1 M	10:23	mid wave	6	3	27.9	27.9	6.66	6.63	6.84	95.4	95.4	101.9	34.7	34.7	1.14	0.93	1.07	17		9.9	
MK1 B	10:26			5	27.7	27.7	6.22	6.21	6.22	91.9	91.8	91.9	34.9	34.9	1.06	1.05		5.4			
MK2 S	10:30			1	28.0	28.0	6.89	6.91	6.68	99.4	99.5	96.7	34.6	34.6	1.19	1.30		9.8			
MK2 M	10:33	mid wave	8	4	27.8	27.8	6.45	6.45	6.68	94.0	94.0	96.7	34.7	34.7	1.36	1.04	1.18	7.6		9.1	
MK2 B	10:36			7	27.7	27.7	6.03	6.04	6.04	90.9	90.3	90.6	34.9	34.9	1.15	1.02		9.8			
MK3 S	10:00			1	28.2	28.2	7.13	7.13	7.05	104.7	104.7	102.8	34.6	34.6	1.00	1.15		11			
мкз м	10:03	mid wave	6	3	28.0	28.0	6.95	6.98	7.05	100.8	100.8	102.0	34.8	34.8	1.20	1.34	1.15	5.8		8.5	
МКЗ В	10:06			5	27.8	27.8	6.53	6.53	6.53	94.0	93.7	93.9	34.9	35.0	1.08	1.15		8.6			
MK4 S	10:10			1	28.2	28.2	7.07	7.08	6.85	100.6	101.0	99.0	34.6	34.7	1.11	1.08		18			
MK4 M	10:13	mid wave	8	4	28.0	28.0	6.62	6.63	0.03	97.3	97.2	33.0	34.9	34.9	1.03	1.20	1.11	13		12.8	
MK4 B	10:16			7	27.8	27.7	6.30	6.30	6.30	91.8	91.6	91.7	35.0	35.0	1.14	1.07		7.4			
CK1 S	10:50			1	28.0	28.0	6.99	6.91	6.57	98.9	98.9	94.8	34.8	34.8	1.16	1.07		7.4			
CK1 M	10:53	mid wave	20	10	27.5	27.5	6.18	6.18	0.57	90.6	90.6	94.0	35.1	35.1	1.38	1.41	1.23	9.4		8.9	
CK1 B	10:56			19	27.3	27.3	5.56	5.56	5.56	83.6	83.7	83.7	35.3	35.3	1.05	1.29		9.8			
CK2 S	10:40			1	28.0	28.0	6.88	6.84	6.46	101.3	101.4	95.9	34.9	34.9	1.08	0.88		<5.0			
CK2 M	10:43	mid wave	18	9	27.6	27.6	6.06	6.05	0.46	90.4	90.6	93.9	35.2	35.1	1.14	1.20	1.20	17		17.0	
CK2 B	10:46			17	27.3	27.2	5.47	5.47	5.47	85.6	85.0	85.3	35.3	35.3	1.41	1.47		17			

Cheng Yi Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: EM 2365 9.7 NTU Turbidity Meter: Calibration Check: Checked By: Raymond Dai EM 6167 16/3/2007 Salinity Meter: Calibration Check: 35.3 ppt Date:

Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 1/429

Date of Sampling: 9/3/2007 Weather Condition: sunny Ambient Temperature, °C: 29 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	16:20			1	28.0	27.9	6.99	6.98	6.64	95.7	95.8	92.1	34.4	34.4	1.17	1.34		12			
MK1 M	16:23	mid wave	7	3.5	27.8	27.8	6.30	6.30	0.04	88.4	88.4	32.1	34.6	34.6	1.20	1.03	1.18	7.8		13.3	
MK1 B	16:26			6	27.8	27.8	5.80	5.80	5.80	82.0	82.1	82.1	34.7	34.7	1.24	1.09		20			
MK2 S	16:30			1	28.0	28.0	7.07	7.07	6.79	98.8	98.8	95.2	34.5	34.5	1.04	1.13		17			
MK2 M	16:33	mid wave	10	5	27.9	27.9	6.50	6.50	6.79	91.6	91.7	95.2	34.6	34.6	1.18	1.24	1.14	17		13.9	
MK2 B	16:36			9	27.8	27.8	6.04	6.06	6.05	83.4	83.7	83.6	34.7	34.7	1.05	1.18		7.6			
MK3 S	16:00			1	28.0	28.0	7.10	7.04	6.73	100.6	110.0	98.7	34.4	34.4	1.24	1.20		11			
мкз м	16:03	mid wave	7	3.5	27.8	27.8	6.38	6.39	6.73	92.0	92.0	96.7	34.6	34.6	1.07	1.11	1.11	8.2		10.7	
мкз в	16:06			6	27.6	27.7	6.43	6.46	6.45	87.7	87.7	87.7	34.8	34.8	1.01	1.04		13			
MK4 S	16:10			1	28.0	28.0	6.95	6.90	6.66	106.6	106.5	100.0	34.3	34.3	1.06	1.19		7.4			
MK4 M	16:13	mid wave	9	4.5	27.8	27.8	6.40	6.40	0.00	93.4	93.4	100.0	34.6	34.6	1.04	1.27	1.20	17		9.8	
MK4 B	16:16			8	27.7	27.7	6.05	6.06	6.06	90.6	90.6	90.6	34.8	34.8	1.33	1.30		5.0			
CK1 S	16:50			1	27.8	27.8	6.77	6.79	6.63	95.4	95.4	93.0	34.4	34.4	1.22	1.25		5.2			
CK1 M	16:53	mid wave	18	9	27.5	27.5	6.53	6.44	0.03	90.6	90.6	93.0	34.6	34.6	1.09	1.01	1.23	15		9.7	
CK1 B	16:56			17	27.4	27.4	5.96	5.96	5.96	86.4	86.4	86.4	34.8	34.8	1.36	1.44		8.8			
CK2 S	16:40			1	27.8	27.8	6.92	6.98	6.64	97.1	97.1	94.1	34.3	34.4	1.20	1.08		9.8			
CK2 M	16:43	mid wave	18	9	27.5	27.4	6.32	6.34	0.04	91.0	91.0	34.1	34.6	34.6	1.49	1.52	1.25	11		10.3	
CK2 B	16:46			17	27.3	27.3	5.78	5.78	5.78	88.8	88.8	88.8	34.8	34.8	1.07	1.16		10			

100 100%: Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: Sampled By: Cheng Yi 9.7 NTU EM 2365 Raymond Dai Turbidity Meter: Calibration Check: Checked By: 35.3 ppt Salinity Meter: EM 6167 Calibration Check: Date: 16/3/2007

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 16/3/2007 Weather Condition: rainy Ambient Temperature, °C: 27 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxygei	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid:	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	15:55			1	26.8	26.8	7.01	7.03	6.77	106.6	106.6		34.5	34.5	1.09	1.17		7.0			
MK1 M	15:58	mid wave	7	3.5	26.6	26.6	6.54	6.50	6.77	98.3	98.2	102.4	34.7	34.7	1.18	1.11	1.09	7.3		7.2	
MK1 B	16:01			6	26.4	26.4	6.11	6.10	6.11	90.0	90.2	90.1	34.8	34.8	1.04	0.93		<5.0			
MK2 S	16:05			1	26.7	26.7	6.93	6.98	6.69	100.7	100.8	98.7	34.5	34.5	1.28	1.34		12			
MK2 M	16:08	mid wave	10	5	26.6	26.6	6.43	6.40	0.09	96.6	96.6	90.7	34.7	34.7	1.16	1.14	1.18	9.4		10.7	
MK2 B	16:11			9	26.4	26.5	5.80	5.80	5.80	88.4	88.4	88.4	34.7	34.7	0.97	1.18		<5.0			
MK3 S	15:35			1	26.8	26.8	6.99	6.95	6.64	101.4	101.4	97.9	34.4	34.4	1.17	1.08		6.2			
мкз м	15:38	mid wave	7	3.5	26.6	26.6	6.30	6.30	0.04	94.3	94.3	97.9	34.7	34.7	1.26	1.34	1.20	7.2		6.6	
мкз в	15:41			6	26.5	26.5	6.04	6.04	6.04	90.2	90.2	90.2	34.8	34.8	1.15	1.22		6.4			
MK4 S	15:45			1	26.8	26.8	7.03	7.03	6.72	103.4	103.0	100.1	34.5	34.5	1.18	1.42		13			
MK4 M	15:48	mid wave	11	5.5	26.5	26.5	6.40	6.41	0.72	97.0	97.0	100.1	34.6	34.6	1.04	0.99	1.18	9.6		12.5	
MK4 B	15:51			10	26.5	26.5	5.92	5.92	5.92	90.1	90.1	90.1	34.6	34.6	1.20	1.23		15			
CK1 S	16:25			1	26.6	26.6	6.68	6.69	6.63	95.6	95.8	93.4	34.6	34.5	1.15	1.22		9.4			
CK1 M	16:28	mid wave	19	9.5	26.1	26.1	6.58	6.57	0.03	91.1	91.1	33.4	34.8	34.8	1.09	1.23	1.19	11		10.2	
CK1 B	16:31			18	25.8	25.8	6.06	6.07	6.07	88.4	88.3	88.4	34.9	34.9	1.22	1.22		<5.0			
CK2 S	16:15			1	26.5	26.6	6.84	6.84	6.58	96.7	97.0	93.6	34.5	34.5	1.19	1.07		8.6			_
CK2 M	16:18	mid wave	20	10	26.0	26.0	6.32	6.32	0.58	90.4	90.3	93.6	34.7	34.7	1.00	1.16	1.13	15		11.5	
CK2 B	16:21			19	25.7	25.7	5.90	5.90	5.90	86.4	86.4	86.4	34.9	34.9	1.10	1.25		11			

Cheng Yi Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: EM 2365 Turbidity Meter: Calibration Check: 10.4 NTU Checked By: Raymond Dai EM 6167 Calibration Check: 23/3/2007 Salinity Meter: 35.4 ppt Date: EM 6167 Thermometer:

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 16/3/2007 Weather Condition: rainy Ambient Temperature, °C: 27 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxygei	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspen	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	11:30			1	26.7	26.7	7.13	7.15	6.93	108.4	109.3	103.0	34.6	34.6	1.34	1.17		7.0			
MK1 M	11:33	mid wave	7	3.5	26.5	26.5	6.73	6.70	0.93	97.2	97.1	103.0	34.7	34.7	1.20	1.09	1.12	6.0		6.4	
MK1 B	11:36			6	26.4	26.3	6.34	6.40	6.37	94.4	93.6	94.0	34.7	34.7	0.89	1.01		6.2			
MK2 S	11:40			1	26.7	26.7	6.90	6.93	6.76	99.8	99.7	97.2	34.6	34.6	1.06	1.17		<5.0			
MK2 M	11:43	mid wave	9	4.5	26.5	26.5	6.60	6.61	0.76	94.6	94.7	97.2	34.8	34.8	1.24	1.17	1.17	12		9.1	
MK2 B	11:46			8	26.5	26.5	6.13	6.14	6.14	90.6	90.6	90.6	34.8	34.8	1.17	1.20		6.2			
MK3 S	11:10			1	26.6	26.6	6.84	6.84	6.63	100.3	100.4	97.5	34.5	34.5	1.19	1.03		8.0			
мкз м	11:13	mid wave	6	3	26.4	26.4	6.41	6.41	0.03	94.5	94.6	97.5	34.7	34.7	1.28	0.94	1.09	8.2		8.3	
МКЗ В	11:16			5	26.3	26.3	5.94	5.99	5.97	89.3	89.3	89.3	34.8	34.8	1.06	1.06		8.8			
MK4 S	11:20			1	26.7	26.7	7.01	7.03	6.78	102.6	102.6	98.2	34.6	34.6	0.98	0.97		7.2			
MK4 M	11:23	mid wave	8	4	26.4	26.4	6.53	6.53	0.76	93.7	93.8	30.2	34.8	34.8	1.18	1.23	1.14	10		8.6	
MK4 B	11:26			7	26.4	26.4	5.94	5.93	5.94	88.4	88.8	88.6	34.8	34.8	1.30	1.19		<5.0			
CK1 S	12:00			1	26.6	26.6	6.94	6.95	6.67	99.5	99.6	96.5	34.7	34.7	1.06	1.30		13			
CK1 M	12:03	mid wave	18	9	26.3	26.3	6.40	6.37	0.07	93.4	93.4	90.5	34.7	34.7	1.17	1.25	1.16	6.0		9.2	
CK1 B	12:06			17	26.0	25.9	6.03	6.04	6.04	90.0	90.2	90.1	34.9	34.9	1.16	1.04		8.6			
CK2 S	11:50			1	26.5	26.5	7.11	7.16	6.88	103.3	103.7	97.8	34.7	34.7	1.20	1.22		12			
CK2 M	11:53	mid wave	18	9	26.1	26.1	6.64	6.62	0.00	92.2	91.8	37.0	34.9	34.9	1.10	1.03	1.21	18		14.7	
CK2 B	11:56			17	25.8	25.8	5.83	5.82	5.83	85.6	85.6	85.6	35.0	35.0	1.38	1.33		14			

100 100%: Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: Sampled By: Cheng Yi 10.4 NTU EM 2365 Raymond Dai Turbidity Meter: Calibration Check: Checked By: 35.4 ppt Salinity Meter: EM 6167 Calibration Check: Date: 23/3/2007

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 19/3/2007 Weather Condition: cloudy Ambient Temperature, °C: 27 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	13:10			1	24.8	24.8	6.88	6.88	6.62	102.5	102.5	100.4	34.8	34.8	1.20	0.89		16			
MK1 M	13:13	small wave	7	3.5	24.6	24.6	6.35	6.35	0.02	98.4	98.0	100.4	34.9	34.9	1.16	0.93	1.06	12		14.0	
MK1 B	13:16			6	24.5	24.5	5.90	5.90	5.90	91.9	91.9	91.9	35.0	35.0	1.06	1.11		14			
MK2 S	13:20			1	24.9	24.9	7.00	6.93	6.68	113.4	113.4	104.9	34.8	34.8	1.03	1.17		9.8			
MK2 M	13:23	small wave	10	5	24.6	24.6	6.40	6.40	0.00	95.6	97.3	104.5	34.9	34.9	1.00	1.22	1.12	14		11.3	
MK2 B	13:26			9	24.4	24.4	5.97	5.97	5.97	88.4	88.4	88.4	35.0	35.0	1.18	1.10		10			
MK3 S	12:50			1	25.0	25.0	7.11	7.10	6.99	106.6	106.5	101.4	34.7	34.7	0.93	1.07		12			
МКЗ М	12:53	small wave	7	3.5	24.8	24.8	6.88	6.88	0.99	96.3	96.3	101.4	34.8	34.8	1.08	1.19	1.14	13		12.0	
мкз в	12:56			6	24.5	24.5	6.32	6.32	6.32	90.0	90.3	90.2	35.0	35.0	1.24	1.33		11			
MK4 S	13:00			1	25.0	25.0	6.93	6.93	6.86	105.0	103.7	98.9	34.7	34.7	1.06	1.14		11			
MK4 M	13:03	small wave	9	4.5	24.7	24.7	6.78	6.79	0.00	93.4	93.4	30.3	34.8	34.8	1.30	1.13	1.13	9.0		9.9	
MK4 B	13:06			8	24.5	24.5	6.24	6.24	6.24	87.3	87.2	87.3	34.9	34.9	0.94	1.20		10			
CK1 S	13:40			1	24.7	24.7	6.83	6.83	6.41	98.6	98.5	91.2	34.5	34.5	1.18	1.22		9.0			
CK1 M	13:43	small wave	20	10	24.3	24.3	5.96	6.01	0.41	83.6	83.9	31.2	34.9	34.9	1.03	1.33	1.16	5.8		7.7	
CK1 B	13:46			19	23.9	23.9	5.46	5.46	5.46	79.2	79.2	79.2	35.3	35.2	1.07	1.15		8.4			
CK2 S	13:30			1	24.8	24.7	6.88	6.95	6.51	99.5	99.5	92.6	34.7	34.7	1.15	1.19		6.8			
CK2 M	13:33	small wave	19	9.5	24.2	24.2	6.11	6.11	0.01	85.4	86.0	32.0	35.1	35.1	1.06	1.34	1.18	<5.0		9.4	
CK2 B	13:36			18	23.8	23.8	5.58	5.58	5.58	78.0	78.3	78.2	35.4	35.3	1.27	1.06		12			

EM 6167 100 100%: Equipment used: Dissolved Oxygen Meter: Calibration Check: Sampled By: Cheng Yi EM 2365 9.9 NTU Turbidity Meter: Calibration Check: Checked By: Raymond Dai EM 6167 35 ppt 26/3/2007 Salinity Meter: Calibration Check: Date: EM 6167 Thermometer:

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 19/3/2007 Weather Condition: cloudy Ambient Temperature, °C: 27 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	ls, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	19:20			1	24.9	24.9	7.06	7.06	6.89	103.7	103.5	101.0	35.0	34.8	1.06	1.23		<5.0			
MK1 M	19:23	small wave	7	3.5	24.7	24.7	6.73	6.72	0.09	98.4	98.4	101.0	34.9	35.0	1.17	1.26	1.13	21		14.4	
MK1 B	19:26			6	24.5	24.5	6.44	6.44	6.44	93.2	93.2	93.2	35.1	35.1	1.09	0.97		7.8			
MK2 S	19:30			1	24.9	24.9	6.95	6.95	6.79	102.6	102.6	99.6	34.7	34.8	1.08	0.99		13			
MK2 M	19:33	small wave	9	4.5	24.6	24.6	6.63	6.63	6.79	96.6	96.7	99.6	34.7	34.9	1.17	1.16	1.20	13		14.0	
MK2 B	19:36			8	24.4	24.4	6.34	6.33	6.34	92.2	92.0	92.1	35.1	35.1	1.38	1.40		16			
MK3 S	19:00			1	24.8	24.8	6.88	6.88	6.72	100.5	100.4	97.4	34.8	34.9	1.22	1.26		5.5			
мкз м	19:03	small wave	7	3.5	24.5	24.5	6.56	6.56	6.72	94.3	94.3	97.4	34.9	34.9	1.07	0.82	1.11	12		11.5	
МКЗ В	19:06			8	24.3	24.3	6.30	6.30	6.30	91.2	91.5	91.4	35.0	35.0	1.19	1.10		17			
MK4 S	19:10			1	24.8	24.8	6.95	6.95	6.83	106.3	106.3	99.9	34.8	34.8	1.04	1.22		12			
MK4 M	19:13	small wave	9	4.5	24.5	24.5	6.70	6.70	0.03	93.4	93.4	99.9	35.0	35.0	1.08	1.15	1.19	18		13.0	
MK4 B	19:16			8	24.3	24.3	6.41	6.40	6.41	90.0	90.0	90.0	35.0	35.0	1.29	1.33		9.0			
CK1 S	19:50			1	24.8	24.8	7.11	7.08	6.88	113.4	112.6	103.4	34.9	34.9	1.08	1.04		19			
CK1 M	19:53	small wave	18	9	24.3	24.3	6.66	6.65	0.00	93.7	93.7	103.4	35.2	35.2	1.18	1.23	1.15	<5.0		18.0	
CK1 B	19:56			17	24.0	23.9	6.18	6.21	6.20	86.6	86.4	86.5	35.3	35.3	1.15	1.23		17			
CK2 S	19:40			1	24.8	24.8	6.95	6.90	6.68	110.9	110.9	103.9	34.9	34.9	1.40	1.43		18			
CK2 M	19:43	small wave	18	9	24.3	24.3	6.43	6.42	0.00	96.6	97.3	103.9	35.1	35.2	1.08	1.16	1.25	8.4		11.1	
CK2 B	19:46			17	23.9	23.9	6.05	6.05	6.05	89.5	90.2	89.9	35.3	35.4	1.23	1.18		7.0			

100 100%: Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: Sampled By: Cheng Yi 9.9 NTU EM 2365 Raymond Dai Turbidity Meter: Calibration Check: Checked By: 35 ppt Salinity Meter: EM 6167 Calibration Check: Date: 26/3/2007 Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 21/3/2007 Weather Condition: sunny Ambient Temperature, °C: 23 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxygei	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	led Solids	, mg/L	Remarks
		Condition	Depth, m	Depth,m	a	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	10:10			1	21.1	21.1	7.59	7.58	7.46	101.7	101.8	99.6	34.3	34.3	1.04	0.96		<5.0			
MK1 M	10:13	mid wave	6	3	20.7	20.7	7.34	7.34	7.46	97.4	97.4	99.6	34.5	34.5	1.16	1.17	1.11	<5.0		<5.0	
MK1 B	10:16			5	20.5	20.5	7.16	7.16	7.16	94.8	94.9	94.9	34.5	34.5	1.05	1.30		<5.0			
MK2 S	10:20			1	21.0	21.0	7.48	7.40	7.26	99.3	99.7	98.9	34.3	34.3	1.28	1.11		<5.0			
MK2 M	10:23	mid wave	9	4.5	20.7	20.7	7.09	7.08	7.26	98.2	98.2	98.9	34.5	34.5	1.07	1.05	1.16	<5.0		<5.0	
MK2 B	10:26			8	20.4	20.4	7.04	7.04	7.04	97.3	98.0	97.7	34.5	34.5	1.22	1.24		<5.0			
MK3 S	9:50			1	21.4	21.4	7.18	7.18	7.26	104.3	104.3	107.5	34.2	34.2	1.08	1.09		<5.0			
мкз м	9:53	mid wave	6	3	20.9	20.9	7.33	7.33	7.20	110.6	110.6	107.5	34.4	34.4	0.87	1.00	1.14	<5.0		<5.0	
МКЗ В	9:56			5	20.4	20.5	7.04	7.08	7.06	101.8	104.3	103.1	34.6	34.6	1.37	1.43		<5.0			
MK4 S	10:00			1	21.5	21.5	7.26	7.26	7.20	106.8	106.8	104.4	34.3	34.3	1.19	1.02		<5.0			
MK4 M	10:03	mid wave	10	5	21.1	21.1	7.15	7.13	7.20	102.0	101.9	104.4	34.5	34.5	1.18	1.54	1.19	<5.0		<5.0	
MK4 B	10:06			9	20.8	20.7	6.94	6.96	6.95	99.9	99.9	99.9	34.7	34.7	1.06	1.13		<5.0			
CK1 S	10:40			1	21.6	21.6	7.18	7.18	7.01	105.3	105.3	101.0	34.2	34.1	1.06	1.18		<5.0			
CK1 M	10:43	mid wave	18	9	20.8	20.8	6.84	6.84	7.01	96.6	96.6	101.0	34.6	34.7	1.09	1.24	1.15	<5.0		<5.0	
CK1 B	10:46			17	20.0	19.9	6.53	6.53	6.53	91.8	91.8	91.8	35.2	35.2	1.00	1.30		<5.0			
CK2 S	10:30			1	21.5	21.4	7.26	7.20	6.98	104.2	104.2	99.0	34.0	34.3	1.34	1.28		<5.0			
CK2 M	10:33	mid wave	18	9	20.5	20.6	6.73	6.73	0.98	93.8	93.8	99.0	34.8	34.6	1.13	1.10	1.23	<5.0		<5.0	
CK2 B	10:36			17	18.9	19.1	6.41	6.41	6.41	89.9	88.3	89.1	35.3	35.3	1.09	1.43		<5.0			

Cheng Yi Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: EM 2365 Turbidity Meter: Calibration Check: 10.3 NTU Checked By: Raymond Dai EM 6167 Calibration Check: 35.3 ppt 28/3/2007 Salinity Meter: Date: 6167 Thermometer: EM

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 1/429

 Date of Sampling:
 21/3/2007
 Weather Condition:
 sunny
 Ambient Temperature, °C:
 23
 Tide State:
 Mid-Ebb

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxygei	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	15:35			1	21.3	21.3	7.30	7.30	7.23	116.6	116.5	110.0	34.3	34.3	1.09	1.26		<5.0			
MK1 M	15:38	mid wave	6	3	21.0	21.0	7.16	7.16	7.23	103.4	103.4	110.0	34.4	34.5	1.18	1.15	1.15	<5.0		11.0	
MK1 B	15:41			5	20.8	20.8	7.02	7.03	7.03	100.3	101.0	100.7	34.7	34.7	1.07	1.17		11			
MK2 S	15:45			1	21.2	21.2	7.30	7.30	7.22	113.2	113.0	109.3	34.2	34.2	1.27	1.29		<5.0			
MK2 M	15:48	mid wave	9	4.5	21.0	21.0	7.14	7.14	1.22	105.4	105.4	109.3	34.4	34.4	1.20	1.13	1.16	<5.0		<5.0	
MK2 B	15:51			8	20.8	20.8	7.00	7.00	7.00	99.8	99.8	99.8	34.7	34.7	0.90	1.14		<5.0			
MK3 S	15:15			1	21.4	21.4	7.24	7.24	7.17	114.6	120.3	114.8	34.1	34.1	1.17	1.33		6.4			
мкз м	15:18	mid wave	6	3	21.1	21.1	7.10	7.10	7.17	112.2	112.2	114.0	34.5	34.5	1.37	1.22	1.21	<5.0		6.4	
МКЗ В	15:21			5	20.7	20.7	6.93	6.93	6.93	103.4	103.1	103.3	34.8	34.8	1.06	1.11		<5.0			
MK4 S	15:25			1	21.3	21.3	7.16	7.16	7.09	121.2	121.2	115.8	34.0	34.0	1.42	1.28		<5.0			
MK4 M	15:28	mid wave	8	4	20.9	20.9	7.02	7.00	7.09	110.4	110.4	113.6	34.4	34.4	1.06	1.16	1.14	<5.0		<5.0	
MK4 B	15:31			7	20.5	20.5	6.83	6.82	6.83	107.4	107.3	107.4	34.7	34.7	1.05	0.84		<5.0			
CK1 S	16:05			1	21.1	21.1	7.06	7.06	6.90	108.3	108.3	105.2	34.3	34.3	1.12	1.26		<5.0			
CK1 M	16:08	mid wave	17	8.5	20.5	20.5	6.73	6.73	0.50	102.1	102.1	103.2	34.8	34.8	1.38	1.30	1.22	<5.0		<5.0	
CK1 B	16:11			16	20.1	19.8	6.32	6.32	6.32	97.4	97.4	97.4	35.2	35.2	1.06	1.20		<5.0			
CK2 S	15:55			1	21.2	21.2	7.16	7.14	6.88	113.4	113.4	107.3	34.2	34.2	0.92	0.97		<5.0			
CK2 M	15:58	mid wave	18	9	20.4	20.4	6.62	6.61	0.00	101.2	101.2	107.3	34.7	34.7	1.06	1.34	1.17	<5.0		<5.0	
CK2 B	16:01			17	19.7	19.3	6.07	6.07	6.07	96.4	96.4	96.4	35.3	35.3	1.29	1.44		<5.0			

100 100%: Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: Sampled By: Cheng Yi 10.3 NTU EM 2365 Raymond Dai Turbidity Meter: Calibration Check: Checked By: 35.3 ppt Salinity Meter: EM 6167 Calibration Check: Date: 28/3/2007

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 23/3/2007 Weather Condition: sunny Ambient Temperature, °C: 26 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxygei	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solids	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	10:20			1	24.5	24.5	6.48	6.49	6.21	98.4	98.8	95.1	34.5	34.5	1.17	1.22		6.6			
MK1 M	10:23	mid wave	8	4	24.3	24.3	5.93	5.93	6.21	91.6	91.6	95.1	34.6	34.6	1.08	1.14	1.21	<5.0		6.6	
MK1 B	10:26			7	24.2	24.2	5.66	5.64	5.65	88.88	89.0	88.9	34.7	34.7	1.34	1.30		<5.0			
MK2 S	10:30			1	24.5	24.5	6.70	6.70	6.29	100.8	100.7	97.0	34.4	34.4	0.94	1.17		<5.0			
MK2 M	10:33	mid wave	11	5.5	24.4	24.4	5.88	5.87	0.29	93.4	93.0	97.0	34.6	34.6	1.02	1.06	1.10	<5.0		<5.0	
MK2 B	10:36			10	24.3	24.3	5.55	5.54	5.55	91.9	91.1	91.5	34.7	34.7	1.19	1.23		<5.0			
MK3 S	10:00			1	24.6	24.6	7.17	7.17	6.91	110.0	109.7	101.6	34.5	34.5	1.05	1.11		<5.0			
МКЗ М	10:03	mid wave	8	4	24.4	24.4	6.65	6.65	0.91	93.4	93.3	101.6	34.6	34.6	1.02	1.19	1.13	<5.0		<5.0	
МКЗ В	10:06			7	24.3	24.3	6.24	6.23	6.24	89.5	89.4	89.5	34.6	34.6	1.07	1.34		<5.0			
MK4 S	10:10			1	24.5	24.6	7.04	7.00	6.77	107.7	107.7	104.6	34.5	34.5	1.07	0.83		5.2			
MK4 M	10:13	mid wave	12	6	24.3	24.4	6.53	6.52	0.77	101.6	101.5	104.0	34.6	34.6	1.34	1.42	1.19	<5.0		5.2	
MK4 B	10:16			11	24.3	24.3	6.10	6.10	6.10	95.8	95.8	95.8	34.7	34.7	1.20	1.25		5.2			
CK1 S	10:50			1	24.4	24.4	6.94	6.93	6.37	104.4	104.3	98.5	34.5	34.5	1.19	1.04		<5.0			
CK1 M	10:53	mid wave	21	10.5	24.2	24.2	5.80	5.80	0.37	92.6	92.6	90.5	34.7	34.7	1.08	1.26	1.16	<5.0		<5.0	
CK1 B	10:56			20	24.1	24.0	5.33	5.33	5.33	88.4	88.4	88.4	34.8	34.9	1.29	1.07		<5.0			
CK2 S	10:40		_	1	24.4	24.4	6.64	6.63	6.38	97.7	97.6	93.9	34.5	34.5	1.18	1.45		<5.0			_
CK2 M	10:43	mid wave	22	11	24.4	24.4	6.11	6.14	0.38	90.3	90.1	93.9	34.8	34.7	1.06	1.18	1.18	<5.0		5.4	
CK2 B	10:46			21	23.9	23.9	5.78	5.66	5.72	85.6	85.6	85.6	34.9	34.9	1.16	1.06		5.4			

Cheng Yi Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: EM 2365 Turbidity Meter: Calibration Check: 10.5 NTU Checked By: Raymond Dai EM 6167 Calibration Check: 35.1 ppt 30/3/2007 Salinity Meter: Date: 6167 Thermometer: EM

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 3429

Date of Sampling: 23/3/2007 Weather Condition: sunny Ambient Temperature, °C: 26 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	16:00			1	24.4	24.4	6.83	6.85	6.62	103.4	103.4	34.7	34.5	34.5	1.10	1.32		<5.0			
MK1 M	16:03	mid wave	7	3.5	24.3	24.3	6.38	6.40	0.02	98.0	98.0	34.7	34.7	34.7	1.04	1.11	1.14	8.6		8.6	
MK1 B	16:06			6	24.3	24.3	6.04	6.04	6.04	94.3	94.3	94.3	34.7	34.7	1.20	1.08		<5.0			
MK2 S	16:10			1	24.5	24.5	6.44	6.45	6.29	99.5	99.7	96.5	34.4	34.4	1.06	1.13		<5.0			
MK2 M	16:13	mid wave	10	5	24.3	24.3	6.15	6.13	0.29	93.4	93.2	96.5	34.6	34.6	1.26	1.04	1.09	6.8		6.8	
MK2 B	16:16			9	24.3	24.3	5.80	5.80	5.80	89.4	89.5	89.5	34.7	34.7	0.98	1.08		<5.0			
MK3 S	15:40			1	24.5	24.5	7.10	7.04	6.83	107.3	107.2	104.4	34.6	34.6	1.18	1.20		<5.0			
мкз м	15:43	mid wave	7	3.5	24.3	24.3	6.60	6.58	0.03	101.5	101.5	104.4	34.7	34.7	1.30	1.16	1.13	5.8		5.8	
МКЗ В	15:46			6	24.2	24.2	6.02	6.01	6.02	93.4	93.4	93.4	34.8	34.8	1.02	0.93		<5.0			
MK4 S	15:50			1	24.4	24.4	6.91	6.91	6.64	104.4	104.3	102.0	34.6	34.6	1.25	1.21		<5.0			
MK4 M	15:53	mid wave	9	4.5	24.3	24.3	6.38	6.37	0.04	99.5	99.6	102.0	34.7	34.7	1.14	1.09	1.13	<5.0		<5.0	
MK4 B	15:56			8	24.2	24.2	6.12	6.12	6.12	96.1	96.1	96.1	34.7	34.7	0.95	1.13		<5.0			
CK1 S	16:30			1	24.4	24.4	6.70	6.68	6.45	100.3	100.4	98.3	34.5	34.5	1.22	1.19		<5.0			
CK1 M	16:33	mid wave	20	10	24.2	24.2	6.22	6.20	0.40	96.2	96.1	30.0	34.7	34.7	1.05	0.83	1.15	8.0		8.0	
CK1 B	16:36			19	24.1	24.1	5.66	5.64	5.65	87.3	87.3	87.3	35.0	34.9	1.34	1.25		<5.0			
CK2 S	16:20			1	24.4	24.4	7.17	7.17	6.78	108.6	108.6	102.2	34.6	34.6	1.17	1.06		5.2			
CK2 M	16:23	mid wave	20	10	24.2	24.1	6.38	6.38	0.70	95.7	95.7	102.2	34.8	34.8	1.08	1.01	1.12	<5.0		5.2	
CK2 B	16:26			19	24.0	24.0	5.89	5.89	5.89	87.0	87.0	87.0	35.0	35.0	1.20	1.20		<5.0			

100 100%: Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: Sampled By: Cheng Yi 10.5 NTU EM 2365 Raymond Dai Turbidity Meter: Calibration Check: Checked By: 35.1 ppt Salinity Meter: EM 6167 Calibration Check: Date: 30/3/2007

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 30/3/2007 Weather Condition: cloudy Ambient Temperature, °C: 19 Tide State: Mid-Flood

Station	Time	Sea		Sampling	Temper	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	15:55			1	18.7	18.7	5.03	5.03	4.76	93.4	93.4	90.2	35.0	35.0	1.17	1.40		5.6			
MK1 M	15:58	mid wave	7	3.5	18.5	18.5	4.47	4.49	4.70	87.6	86.4	90.2	35.1	35.1	1.21	1.14	1.19	6.0		5.8	
MK1 B	16:01			6	18.3	18.3	4.18	4.19	4.19	76.5	76.6	76.6	35.2	35.2	1.06	1.15		<5.0			
MK2 S	16:05			1	18.7	18.7	4.97	4.97	4.00	90.6	90.6		34.9	34.9	1.08	1.25		<5.0			
MK2 M	16:08	mid wave	10	5	18.5	18.5	4.23	4.23	4.60	82.8	82.7	86.7	35.1	35.1	1.11	1.00	1.11	<5.0		7.6	
MK2 B	16:11			9	18.3	18.3	3.80	3.80	3.80	74.4	74.4	74.4	35.1	35.1	1.07	1.13		7.6			
MK3 S	15:35			1	18.6	18.4	5.11	5.13	4.70	94.4	94.4		34.9	34.9	1.04	1.19		<5.0			
мкз м	15:38	mid wave	8	4	18.3	18.3	4.46	4.46	4.79	87.0	86.8	90.7	35.0	35.0	1.25	1.14	1.16	<5.0		7.6	
МКЗ В	15:41			7	18.1	18.1	4.00	3.97	3.99	84.0	83.4	83.7	35.1	35.1	1.26	1.10		7.6			
MK4 S	15:45			1	18.6	18.6	5.04	5.00	4.68	90.7	90.9	87.0	34.9	34.9	1.09	1.13		<5.0			
MK4 M	15:48	mid wave	11	5.5	18.3	18.3	4.34	4.32	4.68	83.2	83.3	87.0	35.0	35.0	1.05	1.01	1.16	<5.0		8.8	
MK4 B	15:51			10	18.1	18.1	3.84	3.85	3.85	77.4	77.4	77.4	35.1	35.1	1.35	1.30		8.8			
CK1 S	16:25			1	18.5	18.5	4.95	4.94	4.57	90.4	90.4	85.8	35.0	35.0	1.18	1.25		<5.0			
CK1 M	16:28	mid wave	19	9.5	18.2	18.2	4.18	4.19	4.57	81.3	81.0	85.8	35.2	35.2	1.01	0.93	1.16	<5.0		<5.0	
CK1 B	16:31			18	17.9	17.9	3.72	3.72	3.72	76.6	76.6	76.6	35.3	35.3	1.24	1.36		<5.0			
CK2 S	16:15			1	18.4	18.4	4.88	4.88	4.40	89.3	89.3	00.0	35.0	35.0	1.30	1.18		5.6			•
CK2 M	16:18	mid wave	19	9.5	18.2	18.2	3.92	3.92	4.40	78.6	78.5	83.9	35.1	35.1	1.06	1.12	1.12	<5.0		5.5	
CK2 B	16:21			18	17.9	17.9	3.24	3.24	3.24	70.3	70.3	70.3	35.3	35.4	0.98	1.06		5.4			

Cheng Yi Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: EM 2365 Turbidity Meter: Calibration Check: 10.4 NTU Checked By: Raymond Dai EM 6167 Calibration Check: 35.5 ppt 6/4/2007 Salinity Meter: Date: 6167 Thermometer: EM

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

 Date of Sampling:
 30/3/2007
 Weather Condition: cloudy
 Ambient Temperature, °C:
 19
 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	11:30			1	18.4	18.4	5.10	5.08	4.69	94.6	94.6	89.2	35.0	35.0	1.27	1.19		<5.0			
MK1 M	11:33	mid wave	7	3.5	18.2	18.2	4.29	4.29	4.03	83.7	83.7	05.2	35.1	35.2	1.08	1.11	1.18	5		5.1	
MK1 B	11:36			6	18.1	18.1	3.84	3.84	3.84	76.6	76.0	76.3	35.3	35.3	1.30	1.10		5.2			
MK2 S	11:40			1	18.5	18.5	4.96	4.96	4.53	91.7	91.8	88.0	35.0	35.0	0.94	1.08		<5.0			
MK2 M	11:43	mid wave	9	4.5	18.3	18.3	4.10	4.10	4.55	84.3	84.0	00.0	35.2	35.2	1.17	1.30	1.18	8.0		8.0	
MK2 B	11:46			8	18.1	18.1	3.72	3.72	3.72	73.8	73.8	73.8	35.3	35.3	1.32	1.24		<5.0			
MK3 S	11:10			1	18.5	18.5	5.04	5.03	4.67	93.0	93.2	89.4	35.1	35.1	1.25	1.23		7.4			
мкз м	11:13	mid wave	7	3.5	18.2	18.2	4.31	4.30	4.07	85.6	85.6	09.4	35.2	35.2	1.16	1.13	1.18	9.8		7.9	
МКЗ В	11:16			6	18.0	18.0	3.92	3.93	3.93	74.4	74.4	74.4	35.3	35.3	1.12	1.21		6.6			
MK4 S	11:20			1	18.4	18.4	4.98	4.99	4.60	92.8	92.8	88.6	35.1	35.1	1.18	1.21		7.6			
MK4 M	11:23	mid wave	10	5	18.2	18.2	4.22	4.21	4.00	84.3	84.3	00.0	35.2	35.2	1.07	1.29	1.22	7.2		6.9	
MK4 B	11:26			9	18.1	18.1	3.69	3.69	3.69	71.7	71.7	71.7	35.3	35.4	1.34	1.23		5.8			
CK1 S	12:00			1	18.3	18.3	5.16	5.07	4.73	91.5	90.9	88.2	35.2	35.2	1.19	1.11		<5.0			
CK1 M	12:03	mid wave	18	9	18.1	18.1	4.34	4.36	4.73	85.2	85.2	00.2	35.4	35.4	1.16	0.93	1.14	10		11.5	
CK1 B	12:06			17	17.9	17.9	3.39	3.39	3.39	69.8	70.4	70.1	35.5	35.5	1.26	1.18		13			
CK2 S	11:50			1	18.2	18.2	5.06	5.05	4.62	90.8	90.6	87.2	35.1	35.1	1.29	1.34		7.8			
CK2 M	11:53	mid wave	18	9	18.0	18.0	4.19	4.18	4.02	83.6	83.6	07.2	35.4	35.4	1.17	1.24	1.21	<5.0		7.8	
CK2 B	11:56			17	17.8	17.8	3.53	3.47	3.50	71.5	71.9	71.7	35.6	35.6	1.20	1.03		<5.0			

100 100%: Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: Sampled By: Cheng Yi 10.4 NTU EM 2365 Raymond Dai Turbidity Meter: Calibration Check: Checked By: 35.5 ppt Salinity Meter: EM 6167 Calibration Check: Date: 6/4/2007

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 4/4/2007 Weather Condition: sunny Ambient Temperature, °C: 26 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxygei	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	8:50			1	26.3	26.2	6.55	6.55	6.19	98.4	98.3	94.7	34.5	34.5	1.30	1.24		8.6			
MK1 M	8:53	mid wave	7	3.5	26.0	26.0	5.83	5.83	6.19	91.0	91.0	94.7	34.6	34.6	1.16	1.08	1.15	8.8		8.1	
MK1 B	8:56			6	25.9	25.9	5.61	5.60	5.61	87.3	87.3	87.3	34.7	34.7	1.04	1.07		7.0			
MK2 S	9:00			1	26.2	26.2	6.73	6.73	6.46	98.8	98.6	95.6	34.5	34.5	1.15	1.16		<5.0			
MK2 M	9:03	mid wave	10	5	26.0	26.0	6.19	6.17	6.46	92.5	92.5	95.6	34.6	34.6	1.04	1.00	1.07	6.6		7.2	
MK2 B	9:06			9	25.8	25.8	5.93	5.94	5.94	88.4	88.4	88.4	34.7	34.7	0.94	1.13		7.8			
MK3 S	8:30			1	26.3	26.3	6.90	6.90	6.61	103.3	103.3	99.1	34.6	34.6	1.28	1.17		<5.0			
МКЗ М	8:33	mid wave	7	3.5	26.1	26.1	6.31	6.31	0.01	94.6	95.0	99.1	34.6	34.6	1.06	1.23	1.20	6.8		6.8	
МКЗ В	8:36			6	25.8	25.9	6.04	6.02	6.03	91.2	90.3	90.8	34.8	34.8	1.18	1.26		<5.0			
MK4 S	8:40			1	26.3	26.3	6.73	6.74	6.47	100.6	100.8	97.9	34.5	34.5	1.30	1.44		5.4			
MK4 M	8:43	mid wave	10	5	26.0	26.0	6.20	6.20	0.47	95.0	95.0	97.9	34.6	34.6	1.08	1.17	1.25	9.4		8.6	
MK4 B	8:46			9	25.9	25.9	5.66	5.66	5.66	89.4	89.4	89.4	34.8	34.8	1.20	1.28		11.0			
CK1 S	9:20			1	26.1	26.2	7.08	7.11	6.68	106.8	105.3	100.1	34.6	34.6	1.15	1.03		<5.0			
CK1 M	9:23	mid wave	19	9.5	25.9	25.9	6.32	6.19	0.00	94.1	94.0	100.1	34.9	34.9	1.26	1.45	1.22	8.4		8.1	
CK1 B	9:26			18	25.7	25.7	5.72	5.70	5.71	85.6	85.4	85.5	35.2	35.2	1.20	1.23		7.8			
CK2 S	9:10			1	26.2	26.2	6.95	6.83	6.48	104.9	105.0	98.2	34.6	34.6	1.08	1.20		<5.0			
CK2 M	9:13	mid wave	20	10	25.9	25.9	6.15	6.00	0.48	91.9	91.0	96.2	34.9	34.9	1.30	1.21	1.22	<5.0		8.0	
CK2 B	9:16			19	25.7	25.7	5.66	5.63	5.65	83.7	83.6	83.7	35.3	35.2	1.34	1.18		8.0			

Cheng Yi Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: EM 2365 Turbidity Meter: Calibration Check: 10.4 NTU Checked By: Raymond Dai EM 6167 35.5 ppt 11/4/2007 Salinity Meter: Calibration Check: Date: 6167 Thermometer: EM

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 1/429

Date of Sampling: 4/4/2007 Weather Condition: sunny Ambient Temperature, °C: 26 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	ls, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	14:50			1	26.3	26.3	6.34	6.34	6.28	96.8	96.8	95.9	34.4	34.4	1.22	1.30		6.4			
MK1 M	14:53	mid wave	6	3	26.2	26.2	6.20	6.25	0.20	95.0	95.0	95.9	34.6	34.6	1.17	1.05	1.16	7.2		6.6	
MK1 B	14:56			5	25.9	26.0	5.78	5.78	5.78	89.4	88.8	89.1	34.6	34.6	1.10	1.14		6.2			
MK2 S	15:00			1	26.3	26.3	6.41	6.41	6.25	95.9	95.9	93.8	34.4	34.4	1.08	1.15		5.6			
MK2 M	15:03	mid wave	9	4.5	26.1	26.1	6.08	6.09	0.25	91.6	91.6	93.0	34.6	34.6	1.26	1.33	1.17	12.0		7.8	
MK2 B	15:06			8	26.0	26.0	5.81	5.76	5.79	88.6	88.8	88.7	34.7	34.7	1.09	1.10		5.8			
MK3 S	14:30			1	26.4	26.3	6.69	6.67	6.39	97.1	97.0	93.3	34.3	34.3	1.18	1.10		8.2			
мкз м	14:33	mid wave	7	3.5	26.2	26.2	6.10	6.10	0.39	89.6	89.5	90.0	34.5	34.5	1.04	1.22	1.13	5.2		6.4	
МКЗ В	14:36			6	26.1	26.1	5.66	5.74	5.70	85.2	85.1	85.2	34.7	34.7	1.05	1.16		5.8			
MK4 S	14:40			1	26.4	26.4	6.50	6.50	6.32	96.0	96.1	93.0	34.4	34.4	1.29	1.20		<5.0			
MK4 M	14:43	mid wave	9	4.5	26.2	26.2	6.14	6.12	0.02	90.0	90.0	30.0	34.5	34.5	1.15	1.16	1.14	7.4		7.3	
MK4 B	14:46			8	26.0	26.0	5.84	5.88	5.86	86.1	86.1	86.1	34.7	34.7	1.04	0.99		7.2			
CK1 S	15:20			1	26.3	26.2	7.03	7.02	6.72	103.4	103.2	97.1	34.3	34.3	1.18	1.15		6.0			
CK1 M	15:23	mid wave	18	9	26.0	26.0	6.43	6.40	0.72	90.6	91.1	37.1	34.6	34.6	1.06	1.14	1.08	<5.0		6.8	
CK1 B	15:26			17	25.8	25.7	5.94	5.90	5.92	85.2	84.4	84.8	34.9	34.9	1.02	0.95		7.5			
CK2 S	15:10			1	26.2	26.2	6.85	6.81	6.45	102.6	102.6	97.2	34.3	34.3	1.19	1.07		<5.0			
CK2 M	15:13	mid wave	18	9	26.0	26.0	6.10	6.03	0.40	91.7	91.7	51.2	34.6	34.6	1.26	1.45	1.19	5.8		5.7	
CK2 B	15:16			17	25.8	25.8	5.60	5.58	5.59	84.8	84.8	84.8	34.9	34.9	1.08	1.10		5.6			

100 100%: Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: Sampled By: Cheng Yi EM 2365 10.4 NTU Raymond Dai Turbidity Meter: Calibration Check: Checked By: 35.5 ppt Salinity Meter: EM 6167 Calibration Check: Date: 11/4/2007

Project:	Contract No. CV/2004/02 Reconstruction	of Wong Shek and Ko Lau Wan Public Piers	Client: Kin Shing	ng Construction C	Co., Ltd.	Job No.: <u>J429</u>
Date of	Sampling: 11/4/2007	Weather Condition: sunny	Ambient Temper	erature,°C:	19	Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	9:00			1	26.2	26.2	6.18	6.18	5.90	113.2	113.1	105.8	34.0	34.0	0.94	0.99		7.2			
MK1 M	9:03	mid wave	7	3.5	26.0	26.0	5.62	5.63	3.90	98.4	98.3	103.6	34.3	34.3	1.10	1.14	1.10	<5.0		7.2	
MK1 B	9:06			6	25.9	25.9	5.23	5.23	5.23	91.5	91.5	91.5	34.6	34.6	1.19	1.24		<5.0			
MK2 S	9:10			1	26.2	26.2	6.04	6.03	5.74	108.4	108.5	102.3	34.1	34.1	1.07	1.11		<5.0			
MK2 M	9:13	mid wave	10	5	26.0	26.0	5.43	5.44	5.74	96.2	96.1	102.3	34.3	34.3	1.30	1.28	1.19	<5.0		<5.0	
MK2 B	9:16			9	25.8	25.8	5.09	5.10	5.10	90.3	90.4	90.4	34.5	34.5	1.17	1.20		<5.0			
MK3 S	8:40			1	26.0	26.1	5.88	5.92	5.55	102.2	102.3	98.7	34.1	34.1	1.04	0.99		<5.0			
мкз м	8:43	mid wave	8	3.5	25.8	25.8	5.20	5.21	3.33	95.2	95.2	30.7	34.3	34.3	1.18	1.22	1.15	<5.0		5.6	
мкз в	8:46			6	25.7	25.7	4.73	4.73	4.73	88.4	88.4	88.4	34.5	34.5	1.27	1.22		5.6			
MK4 S	8:50			1	26.0	26.0	5.94	5.93	5.54	101.5	101.9	97.5	34.1	34.1	1.02	1.05		<5.0			
MK4 M	8:53	mid wave	11	4.5	25.8	25.8	5.13	5.14	5.54	93.4	93.3	97.5	34.3	34.3	1.23	1.20	1.13	7.5		10.8	
MK4 B	8:56			8	25.7	25.7	4.68	4.65	4.67	85.6	85.6	85.6	34.5	34.5	1.09	1.17		14.0			
CK1 S	9:30			1	25.8	25.8	6.00	6.00	5.54	99.9	100.4	92.1	34.0	34.0	1.10	1.07		<5.0			
CK1 M	9:33	mid wave	19	9	25.5	25.5	5.10	5.07	3.34	84.2	84.0	32.1	34.4	34.4	1.18	1.29	1.25	<5.0		8.4	
CK1 B	9:36			17	25.3	25.3	4.34	4.30	4.32	72.2	72.4	72.3	34.8	34.9	1.41	1.45		8.4			
CK2 S	9:20			1	25.8	25.8	6.14	6.14	5.68	101.1	101.3	95.0	34.0	34.0	1.07	1.08		<5.0			
CK2 M	9:23	mid wave	19	9	25.5	25.5	5.22	5.22	3.00	88.7	88.7	93.0	34.5	34.5	1.40	1.34	1.25	<5.0		6.8	
CK2 B	9:26			17	25.2	25.2	4.19	4.20	4.20	75.6	75.4	75.5	34.9	35.0	1.29	1.33		6.8			

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Cheng Yi
	Turbidity Meter:	EM	2365	Calibration Check:	10.4	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.5	ppt	Date:	18/4/2007
	Thormomotor:	EM	6167					

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 3429

Date of Sampling: 11/4/2007 Weather Condition: sunny Ambient Temperature, C: 19 Tide State: No Mid-Ebb

Station	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxygei	n, mg/L	Dissolve	d Oxygei	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	Suspended Solids		Remarks
	Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
																			Average	
MK1 S																				
MK1 M																				
MK1 B																				
MK2 S																				
MK2 M																				
MK2 B																				
MK3 S																				
мкз м																				
МКЗ В																				
MK4 S																				
MK4 M																				
MK4 B																				
CK1 S												-								
CK1 M																				
CK1 B																				
CK2 S																				
CK2 M																				
CK2 B																				

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Cheng Yi
	Turbidity Meter:	EM	2365	Calibration Check:	10.4	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.5	ppt	Date:	18/4/2007
	Thermometer:	EM	6167					

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 13/4/2007 Weather Condition: sunny Ambient Temperature, C: 26 Tide State: Mid-Flood

Station	Time	Sea		Sampling	Temper	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspended Solids, mg/L			Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	16:00			1	25.7	25.7	6.29	6.30	6.19	103.4	103.5	101.7	34.5	34.3	1.17	1.24		9.2			
MK1 M	16:03	mid wave	7	3.5	25.5	25.6	6.08	6.08	0.19	99.7	100.0	101.7	34.4	34.4	1.20	1.34	1.18	11.0		10.0	
MK1 B	16:06			6	25.4	25.4	5.82	5.80	5.81	95.4	95.4	95.4	34.5	34.5	1.05	1.08		9.8			
MK2 S	16:10			1	25.7	25.7	6.43	6.43		104.8	104.9		34.3	34.3	1.06	1.15		<5.0			
MK2 M	16:13	mid wave	11	5.5	25.5	25.5	5.93	5.94	6.18	96.6	96.6	100.7	34.4	34.4	1.28	1.20	1.16	<5.0		<5.0	
MK2 B	16:16			10	25.5	25.3	5.64	5.64	5.64	93.4	93.0	93.2	34.5	34.5	1.09	1.18		<5.0			
MK3 S	15:40			1	25.7	25.7	6.77	6.77		105.8	105.9		34.4	34.4	1.05	1.11		<5.0			
мкз м	15:43	mid wave	7	3.5	25.5	25.5	6.08	6.08	6.43	96.8	96.8	101.3	34.4	34.4	1.28	1.26	1.16	<5.0		<5.0	
МКЗ В	15:46			6	25.5	25.5	5.55	5.56	5.56	91.7	91.7	91.7	34.5	34.5	1.17	1.08		<5.0			
MK4 S	15:50			1	25.7	25.7	6.83	6.83	6.56	106.4	106.4	101.9	34.4	34.4	1.14	1.01		<5.0			
MK4 M	15:53	mid wave	11	5.5	25.5	25.5	6.29	6.29	6.56	97.4	97.4	101.9	34.5	34.5	1.20	1.33	1.19	8.6		12.3	
MK4 B	15:56			10	25.4	25.4	5.49	5.49	5.49	90.8	90.8	90.8	34.6	34.6	1.25	1.18		16.0			
CK1 S	16:30			1	25.6	25.6	7.10	7.07	6.73	108.8	108.9	102.9	34.3	34.3	1.08	1.12		<5.0			
CK1 M	16:33	mid wave	20	10	25.3	25.3	6.38	6.38	6.73	97.0	97.0	102.9	34.4	34.4	1.00	0.94	1.14	5.4		5.5	
CK1 B	16:36			19	25.0	25.0	5.51	5.53	5.52	88.6	88.5	88.6	34.6	34.6	1.27	1.40		5.6			
CK2 S	16:20			1	25.6	25.6	7.03	7.04	0.70	104.6	104.6	404 (	34.3	34.3	1.12	1.11		5.4			
CK2 M	16:23	mid wave	19	9.5	25.2	25.2	6.41	6.43	6.73	98.1	98.1	101.4	34.5	34.5	1.23	1.08	1.20	5.4		5.7	
CK2 B	16:26			18	24.9	24.9	5.48	5.51	5.50	85.8	85.8	85.8	34.7	34.7	1.34	1.30		6.2			

Cheng Yi Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: EM 2365 10.7 NTU Turbidity Meter: Calibration Check: Checked By: Raymond Dai EM 6167 Calibration Check: 35.2 ppt 20/4/2007 Salinity Meter: Date: 6167 Thermometer: EM

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 13/4/2007 Weather Condition: sunny Ambient Temperature, °C: 26 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	11:00			1	25.8	25.8	6.83	6.83	6.52	103.4	103.4	98.1	34.6	34.6	1.16	1.09		5.4			
MK1 M	11:03	mid wave	7	3.5	25.6	25.6	6.20	6.20	0.52	92.7	92.7	90.1	34.7	34.7	1.35	1.24	1.13	7.2		6.9	
MK1 B	11:06			6	25.4	25.4	5.92	5.91	5.92	90.6	90.3	90.5	34.8	34.8	1.07	0.85		8.0			
MK2 S	11:10			1	25.8	25.8	6.95	6.95	6.63	108.8	108.8	101.0	34.5	34.5	1.06	1.16		6.8			
MK2 M	11:13	mid wave	10	5	25.6	25.6	6.30	6.30	0.03	93.4	93.0	101.0	34.6	34.7	1.26	1.21	1.21	15.0		10.4	
MK2 B	11:16			9	25.4	25.4	5.84	5.80	5.82	88.9	89.0	89.0	34.8	34.8	1.28	1.28		9.4			
MK3 S	10:40			1	25.7	25.7	6.73	6.69	6.45	103.4	103.4	98.7	34.6	34.6	0.95	1.16		<5.0			
мкз м	10:43	mid wave	6	3	25.5	25.5	6.20	6.17	6.45	94.0	94.0	96.7	34.8	34.8	1.08	1.02	1.10	<5.0		<5.0	
МКЗ В	10:46			5	25.4	25.4	5.97	5.98	5.98	89.3	88.8	89.1	34.8	34.8	1.30	1.08		<5.0			
MK4 S	10:50			1	25.7	25.7	6.80	6.80	6.56	106.7	106.8	100.9	34.6	34.6	1.39	1.21		<5.0			
MK4 M	10:53	mid wave	10	5	25.4	25.4	6.33	6.31	0.30	95.1	95.1	100.9	34.7	34.7	1.04	0.96	1.13	7.2		7.2	
MK4 B	10:56			9	25.3	25.3	5.98	5.90	5.94	87.8	88.0	87.9	34.8	34.8	1.08	1.11		<5.0			
CK1 S	11:30			1	25.6	25.6	6.58	6.61	6.21	98.8	98.7	92.0	34.5	34.5	1.30	1.25		6.0			
CK1 M	11:33	mid wave	18	9	25.3	25.3	5.84	5.82	0.21	85.5	85.1	32.0	34.8	34.8	1.08	1.13	1.15	8.8		7.9	
CK1 B	11:36			17	24.9	24.9	5.34	5.32	5.33	79.9	79.9	79.9	35.1	35.1	1.00	1.16		8.8			
CK2 S	11:20			1	25.5	25.5	6.74	6.70	6.18	97.6	97.7	91.2	34.5	34.5	1.08	1.17		5.4			
CK2 M	11:23	mid wave	18	9	25.0	25.0	5.64	5.63	0.10	84.7	84.8	31.2	34.8	34.7	1.23	1.05	1.16	<5.0		5.4	
CK2 B	11:26			17	24.9	24.9	5.24	5.24	5.24	80.4	80.3	80.4	35.1	35.1	1.19	1.26		<5.0			

100 100%: Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: Sampled By: Cheng Yi 10.7 NTU EM 2365 Raymond Dai Turbidity Meter: Calibration Check: Checked By: 35.2 ppt Salinity Meter: EM 6167 Calibration Check: Date: 20/4/2007 Thermometer: EM 6167

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: J429

Date of Sampling: 16/4/2007 Weather Condition: sunny Ambient Temperature, C: 30 Tide State: Mid-Flood

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxygei	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspended Solids, mg/L		s, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	17:10			1	27.0	27.0	6.08	6.08	5.86	91.8	91.8	00.7	34.2	34.2	1.63	1.68		9.0			
MK1 M	17:13	mid wave	9	4.5	26.8	26.8	5.63	5.63	5.86	87.4	87.6	89.7	34.4	34.3	1.79	1.58	1.57	7.6		7.9	
MK1 B	17:16			8	26.6	26.6	5.31	5.33	5.32	82.6	82.5	82.6	34.5	34.5	1.33	1.41		7.2			
MK2 S	17:20			1	26.9	26.9	5.83	5.82	5.61	90.5	90.5	88.3	34.2	34.2	1.55	1.51		<5.0			
MK2 M	17:23	mid wave	11	5.5	26.8	26.8	5.40	5.40	5.61	86.1	86.1	88.3	34.3	34.3	1.85	1.80	1.70	9.6		8.6	
MK2 B	17:26			10	26.7	26.6	5.03	5.03	5.03	81.5	81.7	81.6	34.5	34.5	1.76	1.70		7.6			
MK3 S	16:50			1	26.8	26.8	5.58	5.59	5.38	86.6	86.6	83.5	34.3	34.3	1.64	1.64		5.2			
МКЗ М	16:53	mid wave	9	4.5	26.6	26.6	5.17	5.17	5.56	80.5	80.4	63.5	34.5	34.5	1.34	1.36	1.50	7.4		7.4	
МКЗ В	16:56			8	26.5	26.5	4.83	4.82	4.83	78.6	78.6	78.6	34.4	34.4	1.52	1.50		9.6			
MK4 S	17:00			1	26.9	26.9	5.70	5.71	5.40	88.3	88.4	85.1	34.3	34.3	1.49	1.45		7.4			
MK4 M	17:03	mid wave	12	6	26.6	26.6	5.08	5.09	3.40	81.8	81.7	65.1	34.4	34.4	1.38	1.49	1.38	9.6		8.9	
MK4 B	17:06			11	26.5	26.4	4.80	4.77	4.79	76.6	76.6	76.6	34.5	34.5	1.08	1.36		9.6			
CK1 S	17:40			1	26.7	26.7	6.10	6.08	5.76	93.4	93.4	89.4	34.2	34.3	2.03	2.10		<5.0			
CK1 M	17:43	mid wave	20	10	26.3	26.3	5.43	5.43	5.76	85.2	85.4	09.4	34.5	34.5	1.89	1.88	1.89	6.4		6.4	
CK1 B	17:46			19	26.1	26.1	4.76	4.76	4.76	78.6	78.8	78.7	34.7	34.7	1.75	1.70		<5.0			
CK2 S	17:30			1	26.7	26.7	5.97	5.99	5.67	90.6	90.8	87.4	34.2	34.2	1.88	1.91		6.0			
CK2 M	17:33	mid wave	19	9.5	26.4	26.4	5.37	5.36	5.67	84.0	84.0	07.4	34.6	34.6	1.75	1.78	1.75	<5.0		7.1	
CK2 B	17:36			18	26.1	26.1	4.88	4.88	4.88	75.3	75.4	75.4	34.7	34.6	1.56	1.60		8.2			

Cheng Yi Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: EM 2365 Turbidity Meter: Calibration Check: 10.5 NTU Checked By: Raymond Dai EM 6167 35.0 ppt 23/4/2007 Salinity Meter: Calibration Check: Date: 6167 Thermometer: EM

Project: Contract No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Client: Kin Shing Construction Co., Ltd. Job No.: 1/429

Date of Sampling: 16/4/2007 Weather Condition: sunny Ambient Temperature, °C: 30 Tide State: Mid-Ebb

Station	Time	Sea	Overall	Sampling	Temper	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	d Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid	ls, mg/L	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MK1 S	12:15			1	27.1	27.1	5.94	5.94	5.68	90.3	90.5	87.4	34.3	34.3	1.48	1.53		6.0			
MK1 M	12:18	mid wave	8	4	26.9	26.9	5.43	5.40	3.00	84.4	84.4	07.4	34.5	34.5	1.66	1.75	1.53	8.4		7.4	
MK1 B	12:21			7	26.9	26.9	5.03	5.03	5.03	80.5	80.3	80.4	34.7	34.7	1.38	1.37		7.8			
MK2 S	12:25			1	27.1	27.1	5.84	5.84	5.57	88.9	89.0	86.2	34.4	34.4	1.65	1.53		7.0			
MK2 M	12:28	mid wave	10	5	26.9	26.9	5.30	5.30	5.57	83.3	83.4	86.2	34.5	34.5	1.74	1.70	1.64	6.4		6.7	
MK2 B	12:31			9	26.8	26.8	4.98	4.98	4.98	80.6	80.6	80.6	34.7	34.7	1.58	1.63		<5.0			
MK3 S	11:55			1	27.3	27.3	6.04	6.04	5.88	91.4	91.5	90.0	34.3	34.3	1.70	1.68		<5.0			
мкз м	11:58	mid wave	7	3.5	27.0	27.0	5.74	5.70	5.00	88.4	88.5	90.0	34.6	34.6	1.53	1.56	1.52	<5.0		<5.0	
МКЗ В	12:01			6	26.9	26.8	5.02	5.01	5.02	82.4	82.4	82.4	34.7	34.7	1.30	1.35		<5.0			
MK4 S	12:05			1	27.3	27.6	5.99	6.00	5.72	90.7	90.8	87.3	34.4	34.4	1.68	1.71		6.4			
MK4 M	12:08	mid wave	10	5	27.1	27.1	5.43	5.44	3.72	84.0	83.7	67.3	34.5	34.6	1.47	1.41	1.56	8.0		6.7	
MK4 B	12:11			9	26.9	26.9	4.85	4.90	4.88	79.5	79.6	79.6	34.7	34.8	1.58	1.50		5.8			
CK1 S	12:45			1	27.2	27.1	5.70	5.73	5.35	89.3	89.0	84.6	34.3	34.3	1.73	1.70		<5.0			
CK1 M	12:48	mid wave	19	9.5	26.6	26.6	4.98	4.99	3.33	80.6	79.4	84.0	34.6	34.6	1.65	1.68	1.60	11.0		9.3	
CK1 B	12:51			18	26.4	26.4	4.17	4.17	4.17	75.4	75.4	75.4	34.9	34.9	1.41	1.40		7.6			
CK2 S	12:35			1	27.1	27.1	5.66	5.66	5.37	87.4	87.3	84.4	34.4	34.4	1.55	1.64		8.2			
CK2 M	12:38	mid wave	19	9.5	26.7	26.6	5.08	5.09	3.37	81.4	81.5	04.4	34.6	34.6	1.78	1.81	1.59	<5.0		8.2	
CK2 B	12:41			18	26.4	26.4	4.43	4.41	4.42	74.3	74.3	74.3	34.9	34.9	1.34	1.40		<5.0			

Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100%: Sampled By: Cheng Yi EM 2365 10.6 NTU Raymond Dai Turbidity Meter: Calibration Check: Checked By: 35.0 ppt Salinity Meter: EM 6167 Calibration Check: Date: 23/4/2007

#### Appendix E

Monitoring Schedule - Upcoming month

## Water Quality Monitoring Schedule - Post-project April - May 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr
			*WQM <sup>3</sup>		*WQM <sup>3</sup>	
			(Ebb: 13:03)		(Ebb: 14:32)	
			(Flood: 19:19)		(Flood: 07:53)	
22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
	2		2		2	
	*WQM <sup>3</sup>		*WQM <sup>3</sup>		*WQM <sup>3</sup>	
	(Ebb: 17:24)		(Ebb: 19:42)		(Ebb: 09:38)	
	(Flood: 12:40)		No mid-flood tides		(Flood: 15:02)	
29-Apr	30-Apr	1-May	2-May	3-May	4-May	5-May
	Boat repair	Public Holiday	[Post-project]		[Post-project]	
			*WQM <sup>3</sup>		*WQM <sup>3</sup>	
			(Ebb: 12:32)		(Ebb: 12:06)	
			(Flood: 06:06)		(Flood: 20:06)	
6-May	7-May	8-May	9-May	10-May	11-May	12-May
	[Post-project]		[Post-project]		[Post-project]	
	*WQM <sup>3</sup>		*WQM <sup>3</sup>		*WQM <sup>3</sup>	
	(Ebb: 14:02)		(Ebb: 10:29)		(Ebb: 19:34)	
	(Flood: 06:15)		No mid-flood tides	S	(Flood: 12:29)	
13-May	14-May	15-May	16-May	17-May	18-May	19-May
	[Post-project]		[Post-project]			
	*WQM <sup>3</sup>		*WQM <sup>3</sup>			
	(Ebb: 10:19)		(Ebb: 11:56)			
	(Flood: 16:27)		(Flood: 18:19)			

#### Notes:

- 1. WQM water quality monitoring on mid-flood and mid-ebb tides at Wong Shek (CW1, CW2, MW1 & MW2)
- 2. 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))
- 4. All monitoring shall be carried out 3 times a week due to pier demolition works.
- \* Post-project monitoring will be commenced from 18 Apr onwards for 4 more weeks after the completion of pier demolition on 17 Apr 07.