

# CONTRACT NO: CV/2004/02

# RECONSTRUCTION OF WONG SHEK AND KO LAU WAN PUBLIC PIERS

# ENVIRONMENTAL MONITORING & AUDIT MONTHLY REPORT (WONG SHEK)

- AUG 2005 -

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

We refer to August 05 EM&A reports for Wong Shek Pier and Ko Lau Wan Pier that we received through email on 14 October 2005 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/cy

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### CONTENTS

Ex	ecutive	Summary	1
1	Introd	uction	. 1
	1.1	Scope of the Report	. 1
	1.2	Structure of the Report	. 1
2	Projec	t Background	3
	2.1	Scope of the Project and Site Description	3
	2.2	Project Organization and Contact Personnel	3
	2.3	Construction Programme and Works	3
3	Impler	nentation Status	. 4
	3.1	Status of Regulatory Compliance	. 4
	3.2	Implementation of Pollution Control / Mitigation Measures	4
4	Monito	oring Requirements	. 5
	4.1	Water Quality Monitoring	. 5
	4.2	Monitoring Parameters and Frequency	8
	4.3	Water Quality Criteria	8
	4.4	Monitoring Programme	. 9
5	Monito	oring Results	10
	5.1	Water Quality Monitoring Results	10
	5.2	Waste Monitoring Results	10
6	Compl	liance Audit	11
7	Site In	spection and Audit	12
8	Compl	laints, Notification of Summons and Prosecution	13
9	Future	e Key Issues	14
10	Conclu	usion	15



# LIST OF TABLES

Table 2.2	Contact Details of Key Personnel
Table 3.1	Cumulative Summary of Valid Licences and Permits
Table 4.1a	Water Quality Monitoring Stations
Table 4.1b	Laboratory Test Procedures
Table 4.2	Water Quality Monitoring Parameters and Frequencies
Table 4.3	Action and Limit Levels for Water Quality Monitoring
Table 4.4	Environmental Monitoring Programme – Aug 05
Table 5.1a	Water Quality Monitoring Results (mid-flood tide) – Aug 05
Table 5.1b	Water Quality Monitoring Results (mid-ebb tide) – Aug 05
Table 6.1a	Summary of Water Quality Exceedance (mid-flood tide) – Aug 05
Table 6.1b	Summary of Water Quality Exceedance (mid-ebb tide) – Aug 05
Table 7	Summary of Environmental Inspection and Audit – Aug 05
Table 8a	Environmental Complaints Log
Table 8b	Cumulative Statistics on Complaints
Table 8c	Cumulative Statistics on Successful Prosecutions
Table 8c	Cumulative Statistics on Notification of Summons
Table 9	Construction Activities and Recommended Mitigation Measures – Sep 2005

### LIST OF FIGURES

<u>Figure 2.1</u>	Location Plan
Figure 2.3	Master Construction Programme
Figure 4.1	Layout of Environmental Monitoring Stations
<u>Figure 5.1a-h</u>	Graphical Plots of Water Quality Monitoring Results

#### LIST OF APPENDICES

<u>Appendix A</u>	Organization Chart
<u>Appendix B</u>	Implementation Schedule of Mitigation Measures
<u>Appendix C</u>	Calibration Certificates for Monitoring Equipment
<u>Appendix D</u>	Water Quality Monitoring Results
<u>Appendix E</u>	Monitoring Schedule - Upcoming month

# EXECUTIVE SUMMARY

This is the Monthly Environmental Monitoring and Audit (EM&A) report for August 2005 under 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  $1^{st}$  to  $31^{st}$  Aug 2005 for the construction of Wong Shek Public Pier.

### Construction Activities for the Reported Period

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

- Construction of main piles
- Pile loading test

### Water Quality Monitoring

24 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 except on 13 Aug which could not be done due to typhoon signal hoisting.

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

No C&D materials was produced and disposed of at public fill or landfill while no general refuse or chemical waste was transported off site in this reported 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

Four site inspections were conducted by the Environmental Team (ET) in this reported period. An audit by the Independent Environmental Checker (IEC) was conducted on 25 Aug 2005 with the Engineers' Representative and the Environmental Team. 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.

ltem	Date	Observations	Action taken by Contractor	Outcome
1	5-Aug	Inadequate spacing between pile and silt curtain to contain the silt	Maintain adequate spacing between pile and silt	Implemented
2	5-Aug	Gap at the silt curtain during pile-washing	Close the gap	Recurred on 19 Aug
3	19-Aug	Gap at the silt curtain during pile-washing	Close the gap	Done
4	25-Aug	Idle silt curtain stirring up seabed on shallow waters	Remove idle silt curtain away from shallow waters	Done

# Future Key Issues

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

Construction Works	Predict Impacts	Proposed Mitigation Measures
Construction of main piles	Water, Noise	<ul> <li>Silt curtain to be secured</li> <li>Avoid concurrent noisy operation during the erection of deck for the temporary berth</li> <li>Avoid chemical spill and provide spill control if necessary</li> </ul>



## 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 at 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 August 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 <u>Appendix A</u>.

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	W H Lee	2760 5737	2714 2054	9630 1235
Site Agent	Simon Fok	2729 6779	2729 7858	6010 8730
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

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

- Construction of main piles
- Pile loading test

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	16-03-2004	-	Issued
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 <u>Appendix B</u>.



### 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 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 gauge 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 <u>Appendix C</u>.



## 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 4.1bLaboratory Test Procedures

Parameter	Methodology	Method Ref.	Detection Limit
SS	Determination of Total Suspended Solids Dried at 103-105°C	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 4.2Water 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 & Bottom)	<u>Surface &amp; Middle</u> For Wong Shek – 6.96	<u>Surface &amp; Middle</u> For Wong Shek – 6.69
	Bottom For Wong Shek – 6.93	<u>Bottom</u> 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 4.4Environmental Monitoring Programme – Aug 05

•	0005	Water Quality (DO, Turbidity, SS)	Site Inspection
Aug	2005	MW1, MW2, CW1, CW2	
1	Mon	X	
2	Tue		
3	Wed	X	
4	Thu		
5	Fri	X	Х
6	Sat		
7	Sun		
8	Mon		
9	Tue	Х	
10	Wed		
11	Thu	Х	Х
12	Fri		
13	Sat	X (cancelled due to typhoon signal)	
14	Sun		
15	Mon	X	
16	Tue		
17	Wed	Х	
18	Thu		
19	Fri	Х	Х
20	Sat		
21	Sun		
22	Mon		
23	Tue	Х	
24	Wed		
25	Thu	Х	X (w/ IEC)
26	Fri		
27	Sat	Х	
28	Sun		
29	Mon		
30	Tue	Х	
31	Wed		

Note:

- X: Monitoring conducted
- Schedule is formulated and with consideration of statutory holidays (shaded in the table).
- Event at mid-flood tide on 13 Aug could not be done due to typhoon warning



### 5 MONITORING RESULTS

### 5.1 WATER QUALITY MONITORING RESULTS

Water quality monitoring was carried out on 26 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 <u>Appendix D</u>. Graphical trend is presented in <u>Figure 5.1a – 5.1h</u>.

#### Table 5.1a Water Quality Monitoring Results (mid-flood tide) – Aug 05

Station	Averaged DO Surface & Middle (mg/L)	Averaged DO Bottom (mg/L)	Averaged Turbidity (NTU)	Averaged Suspended Solids (mg/L)
MW1	4.78	4.28	1.67	12.5
MW2	5.37	3.67	1.69	9.4
CW1	4.86	4.44	1.67	9.4
CW2	4.96	3.89	1.85	10.5

#### Table 5.1b Water Quality Monitoring Results (mid-ebb tide) – Aug 05

Station	Averaged DO Surface & Middle (mg/L)	Averaged DO Bottom (mg/L)	Averaged Turbidity (NTU)	Averaged Suspended Solids (mg/L)
MW1	4.86	4.38	1.76	12.2
MW2	5.57	4.19	1.80	9.4
CW1	4.86	4.41	1.70	8.9
CW2	5.25	4.02	1.68	9.2

5.2

# WASTE MONITORING RESULTS

No C&D materials was produced and disposed of at public fill or landfill while no general refuse or chemical waste was transported off site in this reported 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) – Aug 05

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) – Aug 05

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 exceedances in dissolved oxygen could possibly due to increasing temperature of marine water during the summer period, reducing the overall solubility of dissolved oxygen in marine water when compared to the action and limit levels derived from baseline water quality monitoring done during the period from January to February 2005 (water temperature: 16 - 17 °C). Moreover, drastic fluctuation recorded at the control station suggests variation due to monsoon effect, causing large degree of variation in water current or tidal effect.

The observed exceedance for turbidity and suspended solids are respectively within 3 NTU and 30 mg/L, indicating the fluctuation could possibility due to the natural variation around the small values of turbidity and suspended solids, possibly due to water current or tidal interference.

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 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 4 inspections during this reporting period. An audit was undertaken by the IEC on 25 Aug 2005. The results of these inspections and outcomes are summarized in *Table 7*.

 Table 7
 Summary of Environmental Inspection and Audit – Aug 05

ltem	Date	Observations	Action taken by Contractor	Outcome
1	5-Aug	Inadequate spacing between pile and silt curtain to contain the silt	Maintain adequate spacing between pile and silt	Implemented
2	5-Aug	Gap at the silt curtain during pile-washing	Close the gap	Recurred on 19 Aug
3	19-Aug	Gap at the silt curtain during pile-washing	Close the gap	Done
4	25-Aug	Idle silt curtain stirring up seabed on shallow waters	Remove idle silt curtain away from shallow waters	Done



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 8aEnvironmental 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 8bCumulative 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

The scheduled construction activities and the recommended mitigation measures for Sep 2005 are listed below. The proposed monitoring schedule for the coming reporting period is detailed in <u>Appendix E</u>.

### Table 9 Construction Activities and Recommended Mitigation Measures – Sep 2005

Construction Works	Predict Impacts	Proposed Mitigation Measures
Construction of main piles	Water, Noise	<ul> <li>Silt curtain to be secured</li> <li>Avoid concurrent noisy operation during the erection of deck for the temporary berth</li> <li>Avoid chemical spill and provide spill control if necessary</li> </ul>



### 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



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	REVISI	ON		
	designed	name	initial	date
	drawn			
	traced			
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	contract no.			
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COPYRIGHT RESERVED	CEDD	CIVIL AND D DEPAR HONG	EVELOP TMENT KONG	



Figure 2.3

Master Construction Programme

ontract No.: CV/2004/02 construction of Wong Shek and o Lan Wan Public Piers		Mas	ter Progr (Version 2)	amme		Contractor: Kin Shing Construction Co. 1. Commencement Date: 15th Nov 20 Completion Date: 6th Aug 20 Programme Date: 21st Feb 20
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Commencement of the Works	I they	Mon 04/11/15 Mon 04/11/15		1 🔶 11 No	# 12 # 121 A 1 # 1   # 1   W 1   M 2   # 3	a ta katan 1 mia mia mia mia mia ha kata mia mia mia mana mia mia mia mia mia mia mia mia mia mi
Completion of Section 1 (Woog Size: Public Pier)	l day	Sun 06/8/6 Sun 06/8/6				4
Completion of Section 2 (Ko Lan Was Public Pier)	I day	Sam 06/8/6 Sun 06/8/6				
Preliminary			(10) -1 0			
Establishment of Englager's Principal Sile Office	994 days	'Tue 04/11/16 Moa 07/8/6		\$ (¥)		INTERNAL AND
Suburission and approval	21 days	Tue 04/11/16 Mon 04/12/6		6 33153755	izra,	
Provision	8 days	Tue 04/12/7 Tue 04/12/14	0		7 22001	
Servicing during construction period	600 days	Wed 04/12/15 Sun 06/3/6	2	1	* EXTEXACTORX	District Colligion and the second
Servicing during maintenance period	364 days	Mae 06/8/7 Sun 02/3/5	a			r
	l day	Мов 07/8/6 Мов 07/8/5	. u			
Secondary Office	582 days	Maa 05/1/3 Mea 06/8/7			n (V)um	UDISANAS ATTAKA MANANASA DA MANANASA NA KANASA MANANASA MANANASA MANANASA MANANA
Sultiniasica and approval	£5 days	Moat 05/1/3 Mon (15/1/17		1	13 IVERT	823h
Provision	28 days	Tue 05/1/18 Mon 05/2/14	12.15	1		ា វីលែនយើលាក្រ
Servicing	538 days	Tue 05/2/15 Son 06/8/6	n		£ 1	14 ให้สุดรู้สุดรู้สุดรู้สุดสุดรู้สุดร สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดร สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู้สุดรู
Decommissioning	1 day	Moar 06/8/7 Moar 06/8/7	H		E	
Provision of Contractor's accommudation	602 days	Mon 04/12/13 Sub 06/8/6		1	16 TERRETERSEE	a a second a second de la seconda de la s
fultial survey	20 days	Wed 04/12/15 Man 05/1/3			17 (2000000000000000000000000000000000000	- i i
Erection of boarding and project signbaard at Por. A	34 days	Mon 05/1/31 8at 05/3/5	- 17			18 TELEVESTERE TITTEN
Frection of hearding and project signboard at For. B	13 days	Mon 05/1/21 Sat 05/3/5		1		10 17922230
Application and Installation of dectrical system	75 déys	l/ri 04/12/31 "Twe 05/3/15		1	50 PERSENT	TFREETERSTERSTERSTERSTERSTERSTERSTERSTERST
Application and installation of water supply system	75 days	Son 05/1/16 Tho 05/3/31		1.6	21	(ATTERNAL STATES AND A STATES
Application and installation of telephone fines	75 days	Sun 05/1/16 Thu 05/3/31		1	27	· CITIZZZIANI AND
Notification of parties in concern	34 days	Wed 04/12/1 Fri 04/12/31		23	322 622 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Application for prinningation of Marine Department Notice for Wong Shek	71 days	Vri 04/12/17 Fri 05/2/25			24 12202.000.0010038	ANIMAN PROPERTY AND A CONTRACT OF A
Application for promotyation of Marine Department Notice for Ko Loo Wan	65 days	Pci 04/12/17 Snt 05/2/19			32 <i>47121242214</i>	anananan
Environmental Alemitaring	658 days	Mon 04/11/15 Sun 46/9/3		20 9 10/10/10	di sudana di suba	ACCOUNTS AND FRANKING STORE AND A STREET AND A
Submission and approval of ES and IC(Env)	dd days	Mon 04/11/15 Tee 04/12/28		27 245645642	manna i	
Endorsement of EM&A prograal	12 days	Wed 0491229 Sun 05/1/9	27	1 1	28 <b>1</b> 19519	
Basefine water quality monitoring	26 days	Mon 05/1/10 thi 05/2/4	31		29 128	22100229223
Preparation and approval of baseline report	21 days	Sat 05/2/5 Pri 05/2/25	29	1 (K	1	in transmits
Impaci ingenterieg	527 days	Snt 05/2/26 Sun 06/8/6	19	1		i torner and an and a second and the second se
Post construction manifering	28 days	Mon 06/8/7 Snut 06/9/3	51,110,202			
Section 1 (Wong Shek Public Pler)					10 10	
Temporary cover to existing pier	121 days	Man 04/11/15 Tac 05/3/15		34 (V) HUVE		
Design and ICE checking	66 daya	Men 04/11/15 Wed 05/1/19		38 92002A	ununnainma	223
	Rogen	Summer	()	Croical Tak (S	x 1.4.75 302222222222222	Couco Task Sec 23 WWWWWWW
nr Einanta mine (Min zani 2) Split	Concentration M	ilesano 🔶 Completion		Crizkal Tak (S		

econs	act No.: CV/20 struction of W u Wan Public	ong Shek and			Mas	ter Pr (Versi					. Commer Co Pro	Shing Coust accment Date ompletion Date ogramme Date	:: 15th Nov 20 te: 6th Aug 20 te: 21st Feb 20	1004 1000 1000
-		Zesk Strm.	Currier:	Stact	Einith	* molect	5785 July 1 2014	willion in the second s	105 2514 Classification 100	ni ni nek	US Nor With Washington Wash	1 V/ A/( wm/w201//21/3/21/9/21	105 200 15 W 1 5 W 20 1 5 W 15 W	11929
	Submission for En	gineel,s containe r	30 days	This 05/1/20	Fri 05/2/18	135		en i fan an de arrown de strat	36	Tanana		1		
	Festion		20 days	Sat 05/2/19	Thu \$5/3/10	1)e		141		37	UTITA	1		
	Certified by ICE a	id commissioning	5 days	Pri 05/3/11	Tue 05/3/15	112		8		1	1 38	1	- 22 	
P	Provision of tempora	ry bertik	192 days	Man 04/11/15	Wed 05/5/25		1.19			CALCULATION OF COMPANY	MINISTER OF	STATISTICS IN CONTRACTOR	WILLBRALLANARAR (*)	<u>9</u>
	Design and ICII of	ocking of temporary berth	60 days	Man 04/11/15	Wed 05/2/2	Reiz	i contra la la	40 025555525555555555555		errenth		2		
	Sultanission for En	gineer's comment	41 days	Thu 05/2:3	Tue 05/3/15	in .				41 2822523233	in the second	i.	1.4	
	Piling		40 days	Wod 05/3/16	Stut 05/4/24	34,29,23,41,38					42 3	000000000000000000000000000000000000000	a :	10
		and installation of fenders	25 days	-Mon 05/4/25	Thu 05/5/19	φ	·····		5			- 43	inams	
3	Relocation of navi	adion light by Marine Dapt.	66 days	Wed 05/3/16	Pri 05/5/20						H (W)	No. of Concession, Name		÷
		Maxine Department	65 days	Wed 05/3/16	Thu 05/5/19	· • • • • • • • • • • • • • • • • • • •				1	45 [2]	100000000000000000000000000000000000000	ATT232222222222	- 020
5366	Relocution wo		L day	Pri 05/5/20	Fri 05/5/20	13,45							46 5	- 242. - 144
		esting and commissioning of berth	5 days	Sat 05/5/21	Wed 05/5/25		Contract of the		1	÷			17 221	
	Ground Investigation		110 days	Wed 04/12/29	Sun 05/4/17				48 WASABAARA	0880 - 708		-		-
	Submission for En	승규가 잘 잘 알 수 있는 것을 것 같아요. 그 것 같아요. 나는 것 같아.	59 days	Wed 04/12/29	Pri 05/2/25				2000		14.532	1 ~		1
	Ground uncetigati		20 days	Sat 05/2/26	Thu 05/3/17	(2,14,75		12	in production		LO EURAXOZANDI	8 B	18 1	
	Preparation and ap		10 days	Fri 05/3/18	Suct 05/3/27	38		17			1 31	1325.	- 40	
		arts and determine pile founding levels	21 days	Mon 05/3/28	Sin1 05/4/17	9	encoste 🕴					S2 PERTENDEN	l	
	Colling for permanent	nier	282 days	Sat 05/1/1	Sun 05/10/9				53 ( <b>*</b> MUMININ		i i		In the second second second	
		thod statement for pring	33 daya	Sat 05/1/1	Wed 05/2/2		and the second		M FEIDENTE	En la sector		1		
	Submission for Er		112 days	The U5/2/3	Wed 05/5/25	······			an garaasa	and a second	121212222222222		***************	
8	Vertical prelimina		15 days	Thu 05/5/26	1hu 05%69	47,52,55,327					1		36 3	E i
£		nving land plant (E1, H4, E2, H2)	30 days	Toe 05/6/28	Wed 05/7/27		Carlas, Michael		1			1		Lao I
1		(A11, B8, B11, C8, C11, D8, D11)	18 days	Sun 0546/19	Wed 05/7/6	128						2.74	1	
2	Temporary platfor		21 days	'Thu 05/3/7	Wed 05/7/27	18	encenning (S				8.9	3	1	8
2		(remaining 14 uos.)	35 days	Thu 05/7/7	Wed 05/8/10				1			1	1	12
		y piles and testing (B10)	15 days	Thu 05/7/28	Thm 05/8/11	\$2,30	and d		1	-45	1 I I I I I I I I I I I I I I I I I I I			
1			44 days	Fri 05/8/12	Sat 05/9/24	64								84
2	Ralang main piles		15 days	Sun 05/9/25	Sun 05/10/9	63	· · · · · · · · ·					4		
t	Pile test for main		No. of the second second			allanna.			1					12
1	Construction of pile		212 days	Fri 05/6/10	Sat 06/1/7	51 G. B.S				1	11月 日			1
		aproval of precast yard	61 daya	Fri OSite I U	Tue 05/8/9		A 1997				8 B			
Ι.,		units at precast yard	61 days	Wed 05/8/10	Sun 05/10/9				1			1	1	
85	erm-tertied.	recking of falsework for pile cap and deck	62 days	Sun 05/7/10	Fri 05/9/9	1			1	1			1	
	Submission of cal	eplation and method statement for	30 days	Sat 0.5/9/ J0	Sen 05/10/9	62		÷1				2	1	1
	Erection of talsee	al roll, for installation of precast units.	20 days	Man 05/10/10	Sat 05/10/29	08,63		11 10		1				
115		11111111111111111111111111111111111111			******		and the second	terminate of the						des.
a ara No	0.0002004002	Kerni Tak (RRSTRING)	I Pragress	1	Sterning	4 - V	(V) BRABBARK (V)	Childal Tada (Sep 1 & 2)	800038339253	Crisicial Trak (Sec 2)	ND771228	825		
derities	ganette Version 21	Sulit	Commencement		40.000	en Milenaue	*	Ontical Tests (See 1)	27/1/22/228	(white and the second se	THERE	1221		

teco	tract No.: CV/2004/02 instruction of Wong Shek and lau Wan Public Plers			Mas	(Version 2)					Comme C Pi	n Shing Con ncement Da completion I cogramme D	te: 15th N Jate: 6th A Jate: 21st F	ov 200 ug 200 eb 200
n î	Task Mein:	Dection	\$°m	FIRES	Prodecessacs		TH TH	Day U.S. Turs Turs	vo wolwalwiziwisiw,	NG M	u Joint Joint	22 32 33 929 105 10 25 10 25 10	tas In la de live
= 1	Installation of precast units with in-situ pile caps	60 days	Mon 05/30/10	Thu 05/12/8	56,68,63	10.03969.06903011	WALCOURTS.	10341 500 351 881	2010/2011/02/0122012	1	-		(CA) serve
	Cashing of in-situ pier deck	30 days	Fri 05/12/9	Sat 06/1/7	70,78		1	1		11	1		
	Construction of bollards	30 days	Fri 05/12/9	Sat 06/1/7	η						3	100	3
¥ į	Installation of corresion monitoring system	91 days	Sun 05/10/9	Sat 06/1/7	A. 4010444 - 1000000000	1		1					13
	Approval of specialist contractor and method statement	61 days	Sun 05/10/9	Thu 05/12/8								1.5	1
	Installation of convision monitoring system	30 days	Fri 05/12/9	Sal 06/L/7	76,74	1		1	1	10		1.15	1 3
	Roof over system	272 days	Tue 05/8/9	Sun 06/5/7	*****			<b>B</b>				1	
4	Approval of sporialist contractor	61 days	Tue 05/8/9	Sat 05/10/8				i i			1		11
e i	Naturaission of weekshop drawings for connection details with	61 days	Sen 05/10/9	Thu 05/12/8				i.		10		10	
	deck	town Michael						ŝ.					
10	Material submissions	91 days	Son 05/10/9 Son 05/10/9	Sat 06/1/7 Sat 06/1/7		- 1		5		143		1.2	
46    -	Submission of weakshop drawing for remaining roof system	91 days	in a concernance and			1 1		1		1		1 R	
1	Construction of steel works	60 days	Sun 06/1/8	Wed 06/3/8	71,80,79	1			1	1		1 ÷	
24	Erection, of mod covers	fill days	Thu 05/3/9	Sun 06/5/7	aı			義			1 61	1.0	1
1	Murrying-in to bandside	121 days	Wed 06/3/8	Thu 06/7/6		1	53				1		1
t, r	Application of Excavation Permit	90 days	Wed 06/3/8	Mon 06/6/5	1	2	8		÷	1 1 1 -	1	1	
*	Site works	31 days	Tue 06/6/6	Thu 06/7/6	84,31	1					12 B		1
÷.	Electrical system, CLP meter bax and lighting system	220 daşs	Mon 05/10/10	Wed 06/5/17		1				1	1.0	1	
st.	Approval of specialist contractor	30 days	Mon 05/10/10	Tue 05/11/8	Start III ION-D	1	19		1		1		
e. *	Leason with CLP and EMSD	60 days	Wed 05/11/9	Sat 06/1/7	87	-				\$ at	÷		
10	To stallation	120 days	Sun 0171/8	Sup 06/5/7	71,86	1			ł.	÷ 8			
έc.	Testing.	10 days	Man 06/5/8	Wed 06:5/17	30				1		1		
能型	Construction of floor finish	121 days	Wed 06/3/8	Thu 06/7/6			2		3				
6	Adaterial aubenissiona	61 days	Wed 06/3/8	Sun 06/5/7					5			12	
n i	Silie works	60 days	Mott 06/5/8	Thu 06/7/6	42.92		5	1.2	1		÷	22 23	
* 1	Construction of hand railing seating beaches and notice	150 days	Tue 06/2/7	Thu 66/7/6					d3			13.	
. !·	boards Material subsuission	60 days	Tas: 06/2/7	Fri 06/4/7	a management of		- 1	1	1			E.	
3	Construction	90 days	Sal 05/4/8	Tini 05/7/6	1139			1	3	3.1			
1.	Installation of fender system	190 days	Thu 05/12/29	Thu 06/7/6	• •	1	1	:		11			
w -	Material submission	31 days	Thu 05/12/29	Sat 06/1/28	· · · · · · · · · · · · · · · · · · ·	- 3	E.						
35	Ordering of meterial	59 days	San D6/1/29	Tite 06/3/28	199	-					1		
en:	Sine works	LCG days	Wed 06/3/29	Thu D6/7/6	71,99	1	-			<b>目</b> 月			
int.	Relucations of navigation light by Marine Dept.	92 days	Fri 06/4/7	Fri 86/7/7			4	8		11			
175	Application to Marine Department	91 daya	Fci 0644/7	Thu 06/7/6							20 0		
1				L	a - (a) - (- (- (- (- (- (- (- (- (- (- (- (- (	-					1	· II	
	Koron Test. [1521219222223	Dummer		Summary		mara	Tuk Bort & 95	Keeggesegeseg	Critical Task (Sec 2)	111792	3115		
l'ann à Mart	Programmer Vasian 31	Pogena			0.0000000000	1997 (1998) (1997) (199							
1986	Split	Commancement	Hilestorg	Campleli	or. Mileston	Cinical	Trak (See 1)	Manalla	Mainenince Perind	Willia:	11112		

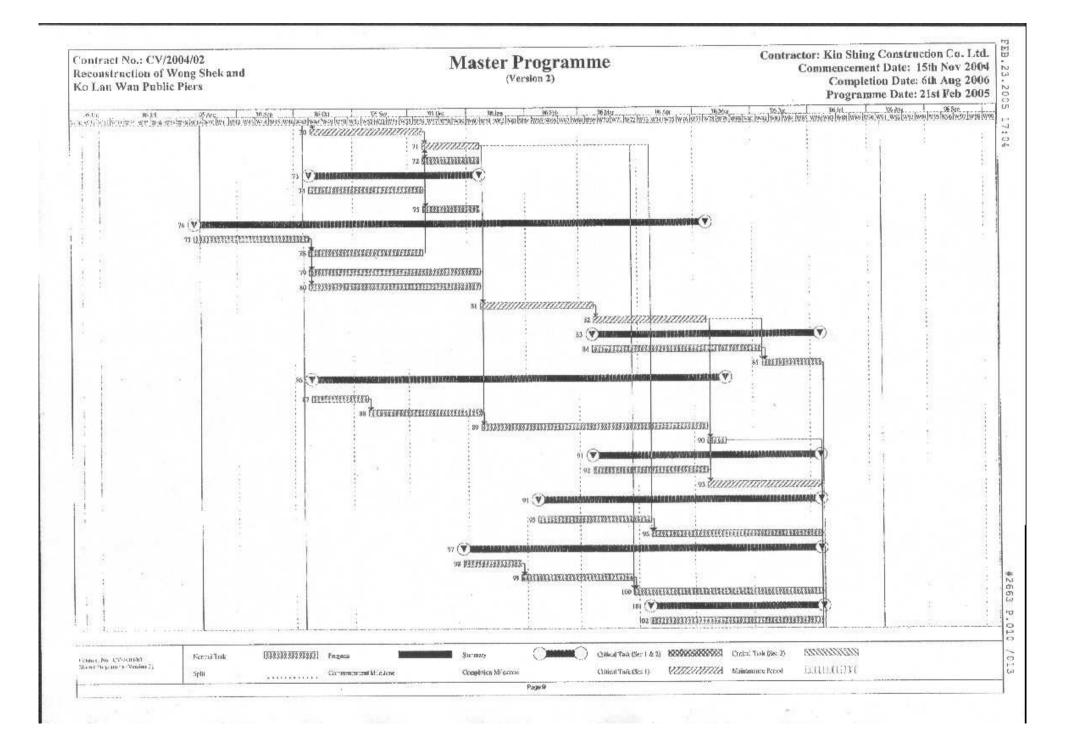
Reco	ract No.: CV/2004/02 nstruction of Wong Shek and au Wan Public Piers			Mas	ter Progra (Version 2)	Completion Date: 6th Aug 2 Programme Date: 21st Feb 20
1 -	T44, N980.	Diastica	Stact	Pins'-	Parlancestre	vij Soz. Soz Soz. Vij Soz. Vij Soz. Vij Soz. Vij Soz. Soz. Soz. Soz. Soz. Soz. Soz. Soz.
	Relocation	1 day	Fyi 06/7/7	Fri 06/7/7	105,93,91,81,169,96	
r _	Commissioning of the pier	1 day	Sat 06/7/8	Sat 96/7/8	iny	
IS .	Demodition of the temporary berth and the existing pier	151 days	Thu 06/3/9	Sam 06/8/6		
6 ±	Survey of axisting structures	31 days	Thu 06/3/9	Sac 06/4/8	Construction (1990)	
+1-	Design and ICH checking of demolitions plan	61 days	Sun 06/4/9	Thu 0646/8	105	
	Submission for Engineer's commonts	30 days	Fri 06/6/9	Sat 06/7/8	109	
1.1	Obtain consent from Country and Marine Park Authority	30 days	Fri 06/6/9	Sat 06/7/8	LOT	
2	Domohinsu	29 days	Sam 06/7/9	Sun 06/8/6	194,109,168	
8	Ministenance Period for the Works	365 days	Maa 06/8/7	Mon 07/8/6	110	
	ction 2 (Ku Lun Wan Public Pier)					
Œ	Cural Survey	626 days	Mon 04/11/15	Wed 86/8/2		
	Sole system and approval of specialist and method statement	73 days	Mon (4/11/15	Wed 05/1/26	****	
	Initial costs survey and approval by APCD	18 days	Site 05/2/20	Wed 05/3/9	104.25	
	Coral transforation	4 days	Thu 05/3/10	Sun 05/3/13	115	115 (\$\$\$\$\$\$\$\$
	Post irginalogation survey	4 days	Mon 05/3/14	Thu 05/3/17	146	116 (\$\$)
	Post pice construction survey	15 days	Wed 06/7/19	Wed 06/8/2	397	H1 13
	Temporary cover to existing pice	123 days	Mon 04/11/15	Thu 05/3/17		
	Design and ICE checking	66 days	Mon 04/11/15	Wed 05/1/19		
	Suberissian for Engineer's continent	30 daya	Thu 05/1/20	Fci 05/2/18	120	10/02/02/02/02/02/02/02/02/02/02/02/02/02
0	Greation	23 days	Sat 05/2/19	Snt 05/3/12	121	121 1221 1221 1221
4	Certified by ICE and commissioning	5 days	Sun 05/3/13	Thu 05/3/17	122	121 (53)
	Provision of responsivy berth	247 days	Mon 0411/15	Tue 05/7/19		124 🐨 RANGAMARANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
	Design and ICE checking of temporary betth	BO days	Mon 04/11/15	Wed 05/2/2		125 (HENSTEINGIGGE) THEORY MILLION PARTICIPATION OF A STATE OF
80	Submission for Engineer's commont	81 days	Tho 05/2/3	Sun 05/4/24	125	126 ТИХИЧИНИЦИНИЦИНИЦИНИЦИНИЦИНИЦИНИНИНИНИНИНИН
1	Filing (phase 1)	31 days	Mon 05-4/25	Wed 05/5/25	123.126,117,23,30.25,42	127 2017530556622283
	Piling (Phase 2)	9 days	Fri 05:6/10	Sat 05/6/16	56	
5	Deck construction and installation of fenders	25 daya	Sun 05/6/19	Wed 05/7/13	178	
199	Relocation of sprighting light by Marine Dept.	81 days	Man 05/4/25	Thu 05/9/14		
	Application to Marine Department	છે હવુના	Mon 05/4/25	Wed 05/7/13		THE FORMER FORMER FOR THE FORME FOR THE FORMER FOR THE FORME FOR THE FORMER FOR THE FOR THE FORMER FOR THE FORMER FOR THE FOR THE FORMER FOR THE FORMER FOR THE FOR T
ć i	Relocation works	1 day	Thu 05/7/14	Thu 05/7/14	139,331	
	Cartified by ICE, texting and commissioning of benth	S days	Eri 05/7/15	Tue 05/7/19	112	
	Denselition of part of the existing pier	115 duys	Man 05/4/18	Wed #5/8/10		134 (Yanatana and a second a s
15	Survey of existing cructures	31 days	Mon 05/4/18	Wed 05-5/18		1.5. 101303031303130313031
2×	Design and ICT checking of demolition plun	32 days	The 05/5/19	San 05/6/19	.13A	15 <u>Å111</u>
u+) 73	Normal Tax DESCRIPTION	Rogen	-	Summer	CARBAR	111121212122 5 555 11 10 12 12 12 12 12 12 12 12 12 12 12 12 12
astri D	ngrarme (Verrio) 7) Split	Concernoners	Milisten	Cruolotia	n Milesone	Contrast Task (Sec. 1) 272272222722 Minintersion Period COUNTERCOV

leco	ract No.: CV/2004/02 astruction of Wong Shek and an Wan Public Piers			Mas	(Version 2)	Completion Date: 6th Aug 2 Programme Date: 21st Feb 2
6 I.	Taitline	Durcko	Stat	Finish	Hadaxssan	Miller Miller (Miller) (Mi
×-	Submission for Engineer's comments	30 days	Mout 05/6/240	Tue 0.5/7/19	136	wiled willer (ed. wither felting) will all a will a felting state of a traditional states and second second sta
κ, I	Liaison with local residents	30 days	Mon 05/6/240	Тие (15/7/19	135	
ы	Denshing	22 days	Wed 05/7/20	Wed 05/8/10	133,138,197	
<b>3</b> 6	Granad investigation	129 days	West 04/12/29	Fri 05/5/6	······································	1-11 (V DOODSSALASSALASSALASSALASSALASSALASSALAS
ii)	Submission for Engineer's commont	68 days	Wed 04/12/29	Son 05/3/6		(4) <u>####################################</u>
ż	Ground investigation works on sile	20 days	Fri 05/3/18	Wed 05/4/6	141.36,117	142 18237522828
ι¥.	Preparation and approval of reports	10 days	The 05/4/7	Sut 05/4/16	90	143 ( <b>ਇੱ</b> ਡਣੇਸ਼)
	Submission of reports to determine pile founding levels	20 daya	Sun 05/4/17	Eni 05/5/6	H3	144 (EREIKERERE)
6	Pilling for permanent pior	342 days	_ Sat 05/1/1	The 05/12/8		1/5 (* 168910109999884600
5	Compilation of method statement for pilling	33 days.	Sal 05/1/1	Wed 05/2/2	1	146 (22228) 2819 (22222) 241
1	Submission for Engineer's commont	189 days	710 05/2/3	Wed 05/8/10	146	147 <b>2</b> 37999999999999999999999999999999999999
1672) 1973	Vertical preliminary pile and leating	15 days	Thu 05/8/11	Thu 05/8/25	147,139,65,144	
4	Verneal amin piles (EL,E4,D1,D4,C1,C4)	20 days	Fri 05/8/26	Wed 05/9/14	143	
i i	Temporary platform for raking pile	21 days	The 05-9/15	Wed 05/10/5	119	
	Vertical main pile (remaining 15 nos)	45 days	Thu 05-9/15	Sut 05/10/29	125	
	Raking prelictionry piles and testing	Łő duys	The 05/10/6	Fyi 05/10/21	110,62	
1	Roking main piles (remaining 9 nos)	33 days	Sat 05/10/22	Wod 05/11/23	152	
9	Pile tests for main piles	15 days	Thu 05/11/24	Thu 05/12/8	171,133	
51	Construction of plic cap and deck	201 days	Weil 05/8/10	Sun 06/2/26		
41	Submission and approval of precist yard	60 days	Wed 05/8/10	Sat 05/10/8	Recention I	
1	Custing of precast units, at precast yard	60 days	Mon 05/10/10	12u 05/12/8	156	
-	Design and ICE checking of falsework for pile cap and deck	60 days	Sat 05/9/10	Tue 05/11/8		
м.,	consumation Submission of calculation and anothed statement for Regeneor's approval	30 days	Woll 05/11/9	Thu 05/12.8	158	
10	Election of lidsework for installation of precast units	20 days	Pri 05/12/9	Wed 05/12/28	159,854	
1 **	histallation of precast units with modul pile capa	55 days	Fri 05/12/9	Wed 06/2/1	157,154	
5	Casing of marin pier dock	25 days	Thu 06/2/2	Sim 06/2/26	101,144	
8	Construction of bollards	25 days	Thu 06/2/2	Sun 06/2/26	161	
vi	Installation of corrosion monitoring system	85 tlays	Sun 05/12/4	Sam 06/2/26		
\$60	Approval of specialist contractor and method statement	60 days	San 05/12/4	Wed 06/2/1	0.0000000000000000000	
+ +	Jusial arias of concesson moniforing system	25 daya	Thu 06/2/2	Sun 01v2726	141,163	
\$2 <sup>-1</sup>	Construction of villa	110 daya	Pri #6/2/17	Tue 06/6/6		
-	Concrete structure	50 days	Man 06:2/27	Mon 06/4/17	162	
w	Friend	110 days	Fri 06/2/17	Tue 06/5/6		
30	Material submission	60 days	Pri 06/2/17	Man 06/4/17	In the second s second second se second second s	
26	Construction	50 days	Tue 06/4/18	Tue 06466	158.170	
activity Visiter 1	nes cyrynsong benes Tiek RHRHHIMMA	200 C		Sucranezs	(1717)	
	Split	Commencement	Mitcalcas	Campleti	en Milesens Paga S	Chileal Take (see 1) 222/2222223 Minitanese Renod [1111] [[[1]][[1]][[1]]

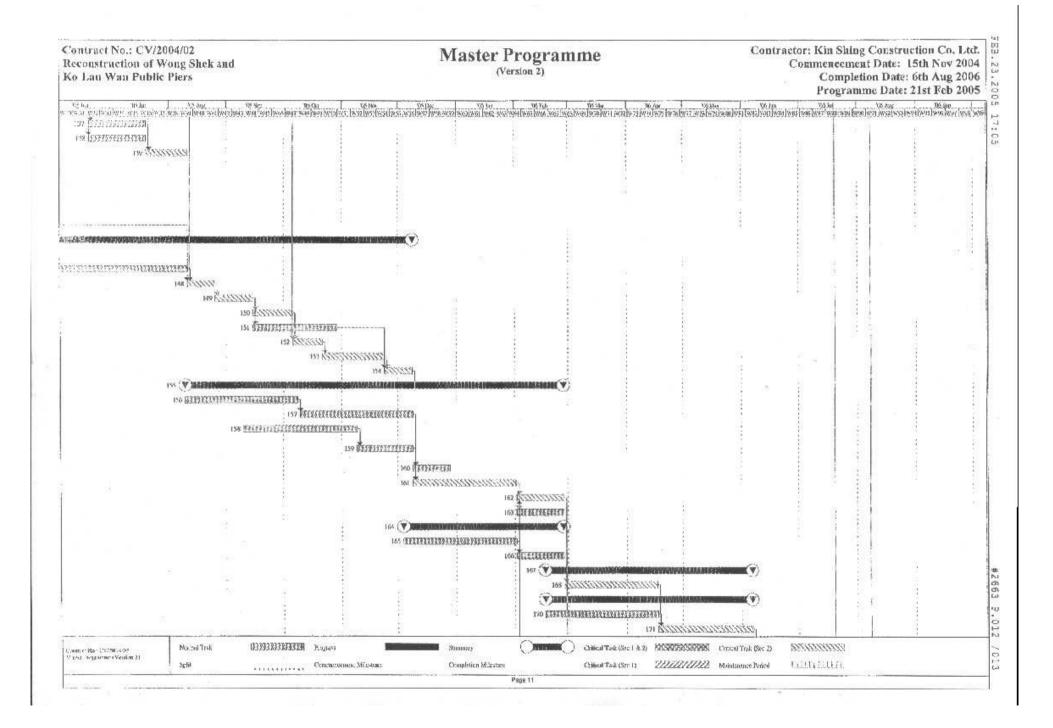
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11	Tan Hane	Durton	.San	Finish	Pteulegestaors	1. J	1 Dec	10	Ve Mar	to in the state of	ainsi 5
2	Construction of walking cover 1 & 2	245 days	Wed 05/10/5	Tue 06/6/6			93.0293.977.LWFD.957.9	- and the second se	; Attendencesenerseners	1000 JIBB FEASDER: IN CASH 012901	10.54.00
М.	Approval of specialist contractor	60 days	Wed 05/10/5	Sat 05/12/3			64		1.0		
	Sucuriasion of workshop drawings for connection details with	60 days	Sun 05/12/4	Wed 06/2/1	177	10 S		Đ	1		
4	deck Material submissions	85 days	Sun 05/12/4	Sun 06/2/26	171		1	1	11		
51	Submission of workshop drawing for remniaing roof system	85 days	Sun 05/12/4	Sun 06/2/26	179	-	1				
	Construction of sicel works	50 days	Moii 06/2/27	Mon 06/4/17	124,142,175	-	1		1 I.		
si.	Frection of roof covers	50 days	Tue 06/4/18	Tue 06/6/6	171		1		1 I.		
N.I.	Electrical system, CLP meter box and lighting system	200 clays	Tue 05/11/29	Frl 06/6/16			1	1			
d.	Approval of specialist contractor	30 days	The 05/11/29	Wed 05/12/28			-	1			
1	Liaison with CLP and EMSD	60 days	The 05/12/29	Sun 06/2/26	100			5			
2 1	lostaflation	100 days	Мон 06/2/27	Tue 06/6/6	162,184	***		i.	1 <sup>30</sup>		
i.	Testing	10 days	Wed 06/6/7	Fri 06/6/16	1.62		12	-	1 1 1		
5	Construction of Boor finish	130 days	Thu 06/3/9	Sun 06/7/16				i.	1		
	Malerial submissions	90 days	Thu 06/3/9	Tac 06-6/6	-			i.			
7	Site works	40 days	Wed 06/6/7	Sun 06/7/16	134,185,171			1			
1	Construction of hand railing, senting benches and notice hourds	(50 days	141 06/2/17	Sun 86/7/16	· · · · · · · · · · · · · · ·						
1	Materral submission	60 days	Pri 06/2/17	Man 06/4/17	-			1		8	
	Centurgation	90 days	Tue 06/4/18	Son 06/7/16	183						
ġ.	Installation of feuler system	190 days	Sun 06/1/8	Sun 86/7/16					1		
	Material submission	31 days	Sun D6/178	Tue 06/2/7				1	-		
1	Ordering of insterial	59 days	Wed 06/2/8	Ini 06/4/7	191			÷			
3	Site werks	100 days	Sat 06/4/8	Stats 06/7/16	192			đ	ŧ		
1	Relocation of navigation light by Marine Dept.	92 days	Mon 06/4/17	Mon 06/7/17				4	1		
	Application to Marine Department	91 days	Mon 06/4/17	Sunt 06/7/16		<u> </u>					
	Relocation	l day	Mon 06/7/17	Mon 06/7/17	113,193,195,396,189			1	4		
1	Commissioning of the pler	1 day	Tue #6/7/18	Tue 06/7/18	126			÷.		1	
	Demolition of the temporary burth and the existing pier	141 days	Sun 06/3/19	Sun 06/8/6					1		
1	Survey to existing structure	31 days	Son 06/3/19	The 064418				1	1	1	
3	Design and ICE checking of demolition plan	őt days	Wed 06/4/19	Sun 06/6/18	195			4		4	
1	Subarission for Engineer's comments	30 days	Men 06/6/19	The 06/7/18	2895			1	1.0		
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s'i	Demolition	19 days	Wed 06/7/19	Sim 05/8/6	197,702,201				1	1	
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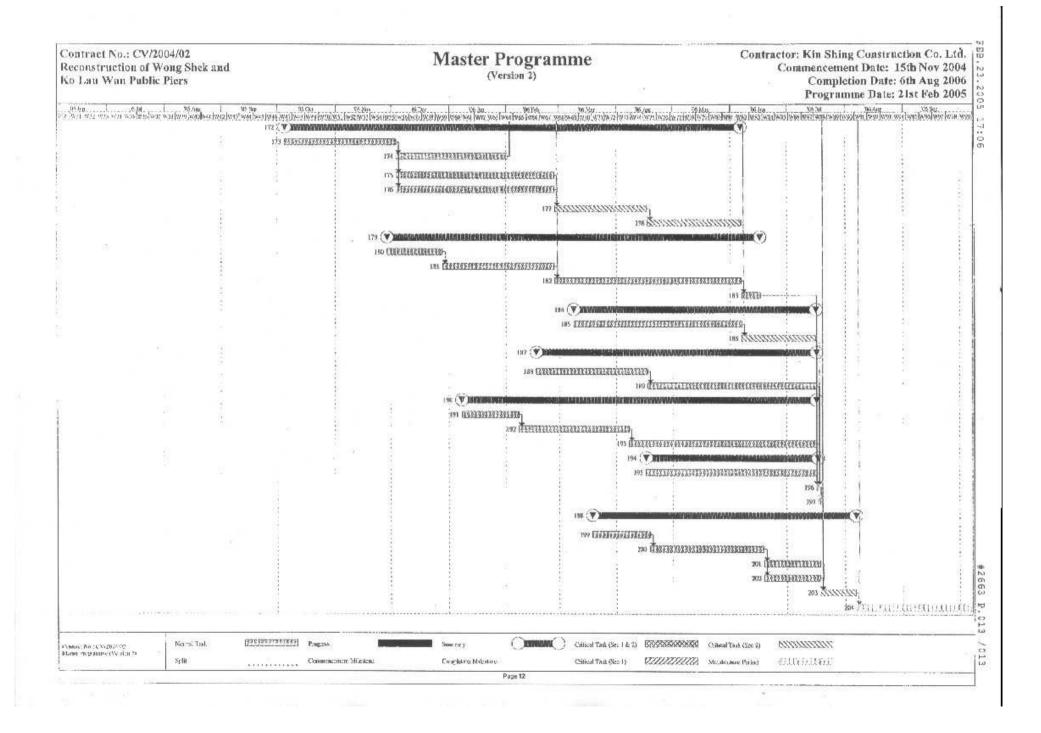




Figure 4.1

Layout of Environmental Monitoring Stations

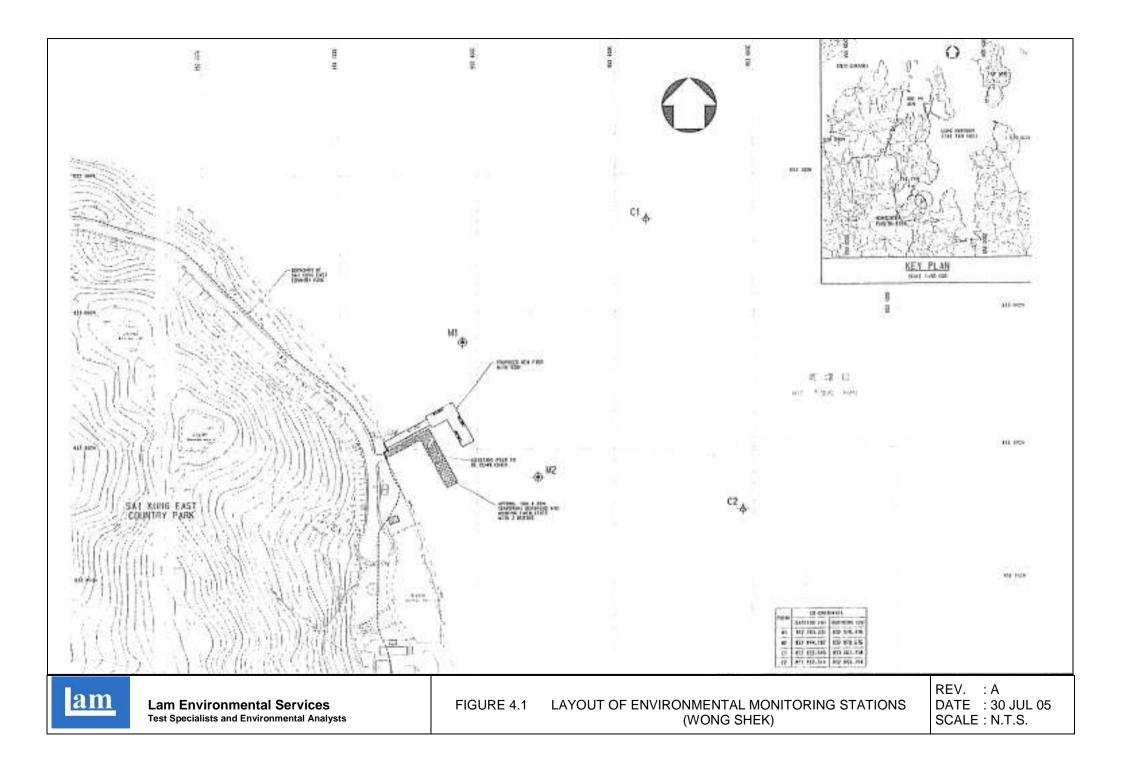
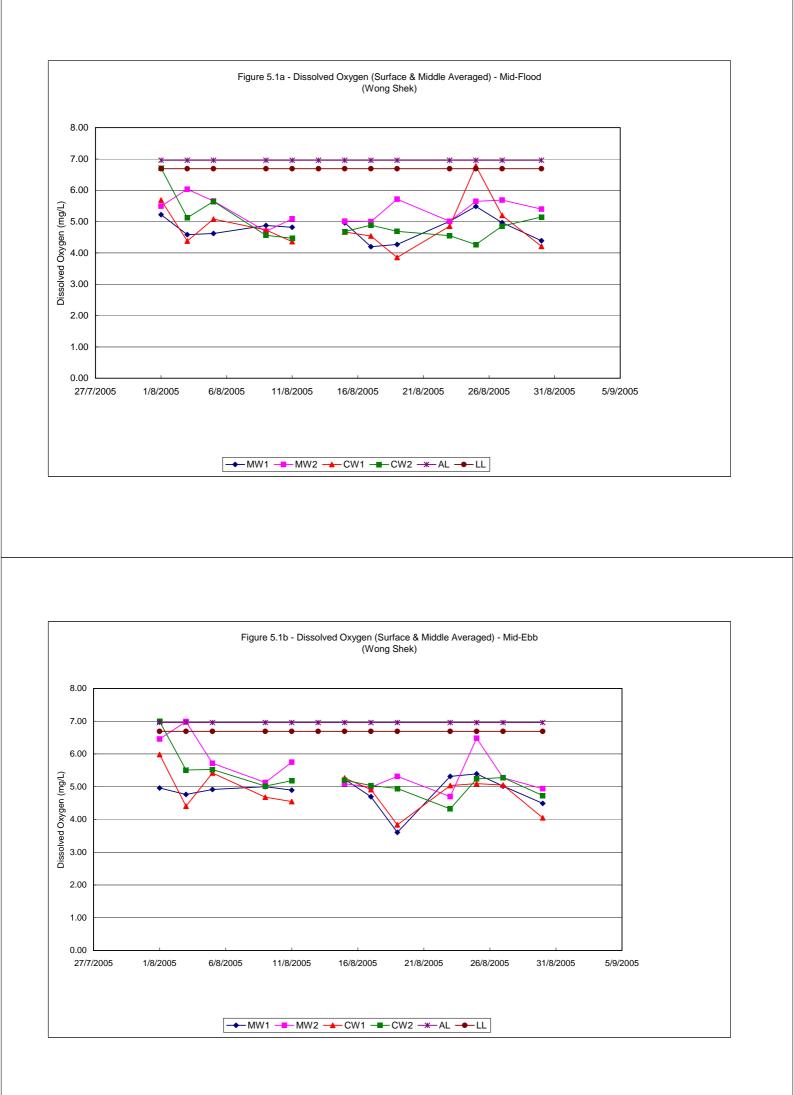
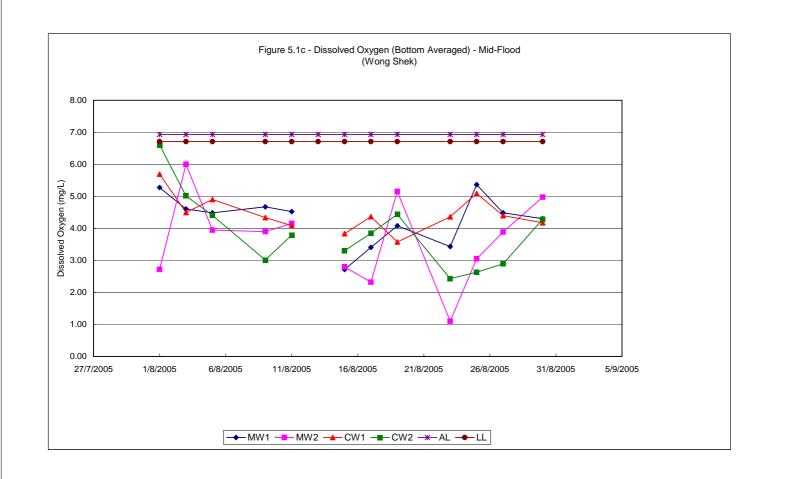


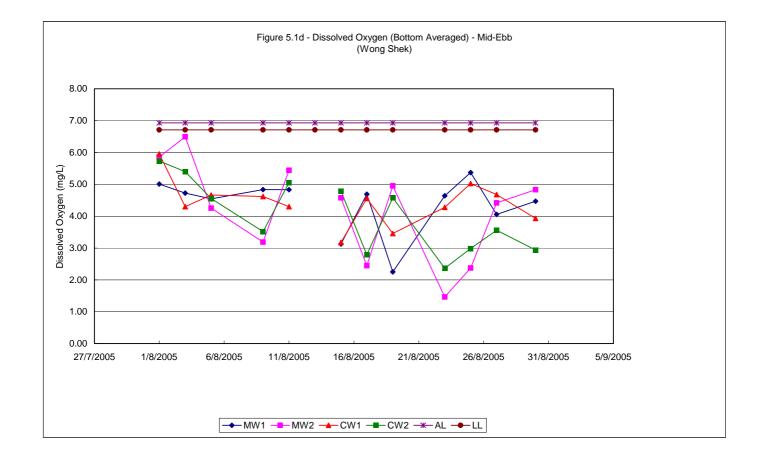


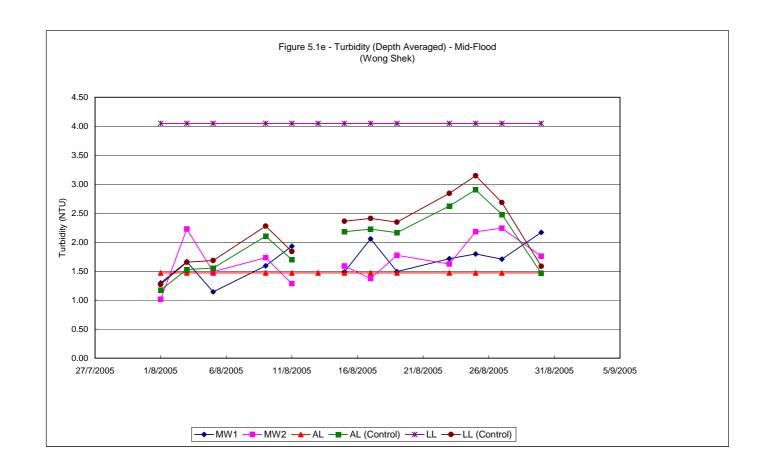
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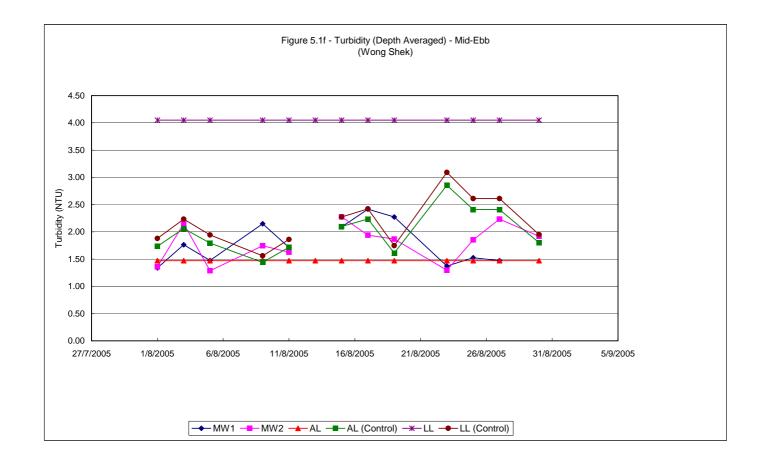
Graphical Plots of Water Quality Monitoring Results

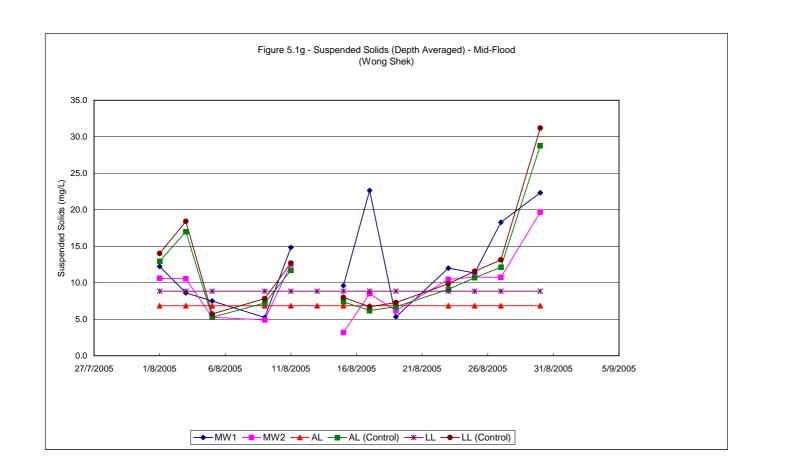


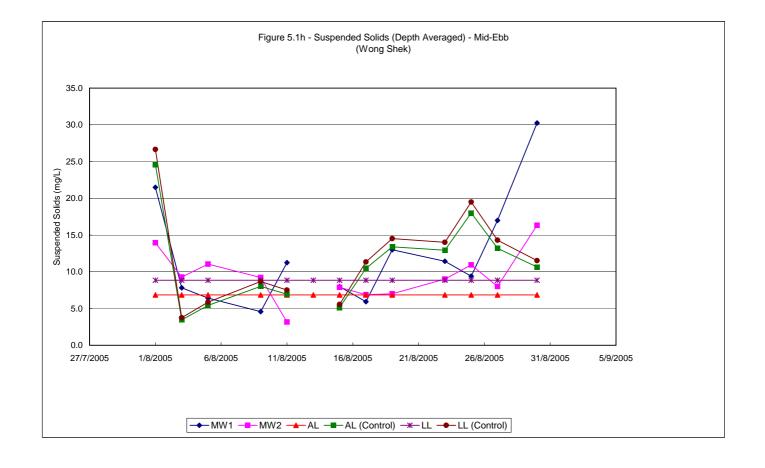














Appendix A

Organization Chart



**Project Proponent Environmental Protection Department Civil Engineering and Development** Civil Engineering Office Mr. W. H. Lee (Tel: 2760 5737; Fax: 2714 2054; Mobile: 96301235) **Environmental Team** Independent Environmental Checker Lam Environmental Services MateriaLab Consultants Limited Mr. Jason T. L. Poon Mr. Raymond Dai Senior Environmental Scientist Manager (Tel: 2975 3300; Fax: 2897 5509; Mobile: 9738 0738) (Tel: 2452 7140; Fax: 2450 6138; Mobile: 9450 1968)

> Main Contractor Kin Shing Construction Co. Ltd. Mr. Simon Fok Site Agent (Tel: 27296779; Fax: 2729 7858; Mobile: 60108730)



Appendix B

Implementation Schedule of Mitigation Measures

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.	Idle silt curtain stirring up seabed on shallow waters	Remove idle silt curtain away from shallow waters
	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.	Gap at the silt curtain during pile-washing	Close the gap

#### 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.	Inadequate spacing between pile and silt curtain to contain the silt	Maintain adequate spacing between pile and silt
	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	-

#### 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	-
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	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	-
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	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.	Idle silt curtain stirring up seabed on shallow waters	Remove idle silt curtain away from shallow waters
	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.	Gap at the silt curtain during pile-washing	Close the gap

#### 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.	Inadequate spacing between pile and silt curtain to contain the silt	Maintain adequate spacing between pile and silt
	WQ11	No dredging and spoil dumping shall be conducted.	Not applicable at this stage	-
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	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	-

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



Appendix C

Calibration Certificates for Monitoring Equipment

## Record sheet for calibration of Water Sonde

Item Stock No : $\underline{F, VZ}$ Date of Calibration : $\underline{V}$	A
Temp.: $\underline{}_{2,0}$ Operator : $\underline{}_{2,\ell}$	Signature :
A <u>Temperature Check</u>	
Reference Equipment Used : Mercury-in- Glass th	ermometer Stock No.: (33
Reference Equipment reading : <u>\\$4.() °C</u>	Sonde reading%_0°C
Reference Equipment reading : <u>C</u>	Sonde reading : °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 reading 0.00 %

## C <u>Conductivity (Salinity Calibration)</u>

Standards Used : \_\_\_\_\_ ppt \_\_\_\_ , \_\_\_\_\_ ,

Check Standard : ppt Readout Value : ppt

Difference between readout value and actual value should be less than 3%.

## D <u>Conductivity Calibration</u>

Standards Used : \_\_\_\_\_\_, \_\_\_\_\_, (mS/cm)

Check Standard : Readout Value : (mS/cm)

Difference between readout value and actual value should be less than 2%.

#### E <u>Turbidity Calibration</u>

Standards Used : \_\_\_\_\_\_, \_\_\_\_\_, (NTU)

Check Standard : \_\_\_\_\_ Readout Value : \_\_\_\_(NTU)

Difference between readout value and actual value should be less than 10%.

F <u>pH check</u> Standards Used : pH 7.00, pH 10.00. Buffer standard: pH 9.00. QC Check Standard : pH 9.182. Readout Value : pH 9.182.

Difference between readout value and actual value should be +/- 0.03pH unit.

Date : 16 Sunt 016\_\_\_\_ Certified by:

Lam Geotechnics Ltd Environmental Laboratory Procedure IC 51 Version No. : 1 Date : 30 December 2001

## CALIBRATION OF BIOCHEMICAL OXYGEN DEMAND PROBE (BY WINKLER TITRATION)

Equipment No.:  $\underline{H4B} \underline{H44}$ Conducted by :  $\underline{S} \underline{L}$ Checked by :  $\underline{H4B} \underline{H44}$  Calibration Temperature :  $22^{\circ}$ Date : 281905Date : 39-PJ5

(1) Standardization of sodium thiosulphate  $(Na_2S_2O_3)$  solution

	·		1
	Trial 1	Trial 2	
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used, mL			
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used, mL			-
Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> consumed (O), mL			
Normality of $Na_2S_2O_3$ solution (N), N			ŀ
Average normality of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> solution	0.023		
<i>Calculation</i> : $N = 1/O$	standardized	Lon. 20171	200J

(2) Calibration of DO meter with distilled/deionised water

	Trial 1	Trial 2	Trial 3
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used, mL	10-3 X3	33.8	45.7
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used, mL	[03]	ב- הר	33,8
Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (V), mL	12.0	11.5	11.4
Dissolved oxygen,(DO) mg/L	Pri-	7.18	7.05
Average of dissolved oxygen	)	7.085	
DO determined by BOD probe		7.05	
Acceptance criteria, Deviation	Less	than +/- 0.3 mg	g DO/L

Calculation:

 $DO(mg/L) = V \times N \times 7999.7/(300-2)$ 

Cartified by:

\\Lab\Common\Calibration\ICform\Ic51

Lam Geotechnics Ltd Environmental Laboratory Procedure IC 51 Version No. : 1 Date : 30 December 2000

	Trial 1	Trial 2	Trial 3
Final Vol. of $Na_2S_2O_3$ used, mL	20.7	31. J-	GB (1.4
Initial Vol. of $Na_2S_2O_3$ used, mL	10.3	20.7	31.2
Vol. of $Na_2S_2O_3$ used (V), mL	10.4	105	(0.)
Dissolved oxygen,(DO) mg/L	b.41	6.50.	631
Average of dissolved oxygen		6.42.	
DO determined by BOD probe	· · · ·	625.	
Acceptance criteria, Deviation	Less	than +/- 0.3 mg	g DO/L

Calculation:

 $DO(mg/L) = V \times N \times 7999.7/(300-2)$ 

(4) Calibration of temperature compensator

(3) Calibration of salinity compensator [10 ppt or 20 ppt]

	Trial 1	Trial 2
Temperature reading from BOD probe		
Temperature reading from reference thermometer ( )		
Acceptance criteria, Deviation	Less than	+/- 1°C

(5) Linearity Check of BOD probe

	Reading form BOD probe	Result from Winker Titration
	I Reading form BOD probe	
First point (7 – 9 mg/L)		
Second point (4 - 6 mg/L)		
Third point (1 –3 mg/L)		
Linearity, R		
Acceptance Criteria, R	R > 0.	996

# Record sheet for calibration of Water Sonde

$\mathcal{F}_{\mathcal{A}} \mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A}$ . Item Stock No : Date of Calibration :	28 (9 (55 Procedure Used : <u>IC 34</u>
Temp.: $\gamma$ Operator : $\gamma$	Signature : M

#### A <u>Temperature Check</u>

Reference Equipment Used : Me	ercury-in- Glass th	ermometer Stock	No.:	
Reference Equipment reading :	<u>°C</u>	Sonde reading_	yan an ana ang ang ang ang ang ang ang an	°C
Reference Equipment reading :	°C	Sonde reading :		°C
	usedings to be	<0.5°C )		

(Note: Difference between the two readings to be  $<0.5^{\circ}$ 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 reading	%		In D.D. calibration
	· · ·	Regnarks:	10 pp.t. stal.
C <u>Conductivity (Salinity</u>	y Calibration)		+ 10.35 ppt
Standards Used :	ppt,	,	
Check Standard : 35.35	ppt Readout Value : 35	25 ppt	
Difference between readout v	value and actual value should b	be less than 3%	ю.

## D Conductivity Calibration

 Standards Used :
 , \_\_\_\_\_\_, \_\_\_\_\_ (mS/cm)

 Check Standard :
 Readout Value :
 (mS/cm)

Difference between readout value and actual value should be less than 2%.

#### E Turbidity Calibration

Standards Used :	,	·	(NTU)	
Check Standard :	Readou	t Value :		(NTU)

Difference between readout value and actual value should be less than 10%.



Appendix D

Water Quality Monitoring Results

D-1 -		4/0/00-	_		1	e e elizi	0				A	- 4 <b>T</b> -	-tun 00			-	Field Ct. 1	N 614 171			
Date of	Sampling:	1/8/2005	Ď	- v	/eather C	ondition:	Sunny			-	Ambie	nt Temper	ature, °C:	31			Tide State:	Mid-Floo	bd	_	
Station	Time	Sea Condition	Overall Depth, m	Sampling Depth,m	Tempera a	ature, °C b	Dissolve a	d Oxyge b	n, mg/L Average	Dissolve a	b b	n, % Average	Salinity, a	ppt b	Turbidity a	, NTU b	Average	Suspend	ded Soli	ds, mg/L Depth Average	Remarks
MW1 S	17:10			1	28.3	28.2	5.36	5.37		81.9	81.4		32.5	32.5	0.87	0.90		23	16		
MW1 M	17:12		5	2.5	27.7	27.7	5.08	5.07	5.22	74.1	73.9	77.8	32.6	32.6	1.25	1.26	1.30	11	15	12	
MW1 B	17:14			4	27.6	27.6	5.27	5.28	5.28	80.2	80.1	80.2	32.6	32.6	1.76	1.74		5	4		
MW2 S	17:02			1	28.5	28.5	5.55	5.57		84.3	84.7		32.5	32.5	0.75	0.81		14	12		
MW2 M	17:05		10	5	28.3	28.3	5.43	5.42	5.49	82.7	82.4	83.5	32.5	32.5	0.92	1.04	1.02	12	14	11	
MW2 B	17:08			9	28.0	28.1	2.74	2.70	2.72	48.3	47.9	48.1	32.7	32.7	1.27	1.30		6	6		
CW1 S	16:56			1	28.7	28.7	5.71	5.69		87.3	87.1		32.5	32.5	0.74	0.79		10	13		
CW1 M	16:58		5	2.5	28.6	28.6	5.68	5.67	5.69	87.0	87.0	87.1	32.6	32.6	0.91	0.89	0.98	14	14	11	
CW1 B	16:59	_		4	28.5	28.5	5.70	5.69	5.70	86.3	86.2	86.3	32.6	32.6	1.25	1.29		7	7		
CW2 S	17:17			1	28.7	28.7	6.81	6.82		103.5	103.8		32.4	32.4	1.25	1.29		12	13		
CW2 M	17:20	_	11	5.5	28.5	28.5	6.59	6.60	6.71	100.6	101.2	102.3	32.8	32.9	1.47	1.50	1.46	17	16	11	
CW2 B	17:23			10	28.3	28.3	6.61	6.60	6.61	100.8	100.8	100.8	32.9	32.9	1.62	1.64		6	5		
Equipmer	t used:	Dissolved C Turbidity Me		er:	EM EM	6167 2365			ion Check: ion Check:		<u> </u>	-					Sampled Checked	-	Chow k	Kin Pong nd Dai	-
		Salinity Met	er:		EM	6167		Calibrati	ion Check:		35.5	ppt					Date:		8/8/200	5	_
		Thermomete	er:		EM	6167															
Project:	Contract	No. CV/2004	/02 Recons	truction of V	Vong She	ek and Ko	Lau Wa	n Public	Piers	-	Client:	Kin Shing	Constru	ction Co.	, Ltd.		Job No.:	J429	-		
Date of	Sampling:	1/8/2005	5	<u> </u>	/eather C	ondition:	Sunny		-		Ambie	nt Temper	ature,°C:	31			Tide State:	Mid-Ebb	)	-	
Station	Time	Sea	Overall	Sampling	· · ·	ature, °C				Dissolve	1	1	Salinity,	<u> </u>	Turbidity			Suspend	ded Soli	ds, 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	10:32			1	27.8	27.8	4.95	4.97	4.96	72.9	73.0	73.0	32.5	32.5	1.14	1.12		22	28		
MW1 M			4														1.34			22	
MW1 B	10:35			3	27.5	27.5	5.00	5.02	5.01	76.6	76.7	76.7	32.9	32.9	1.54	1.55		18	18		
									T				T				-			T	
MW2 S	10:45			1	27.5	27.5	6.51	6.53	6.46	98.9	99.2	98.2	32.5	32.5	1.09	1.07		18	16		

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Chow Kin Pong
	Turbidity Meter:	EM	2365	Calibration Check:	9.9	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.5	ppt	Date:	8/8/2005
	Thermometer:	EM	6167					

89.2

91.5

90.4

108.1

105.1

95.0

89.3

91.5

90.5

106.7

95.0

89.4

91.4

90.5

108.1

105.5

94.9

32.9

32.5

32.6

32.5

32.9

33.2

32.9

32.5

32.6

32.5

32.8

33.2

1.62

1.62

1.85

1.25

1.41

1.65

1.65

1.58

1.83

1.27

1.42

1.67

1.72

1.45

10

14

19

13

13

40

12

11

13

12

9

36

14

21

5.86

5.99

5.96

7.07

6.94

5.72

5.85

5.98

5.95

7.07

6.90

5.74

5.86

5.99

5.96

7.00

5.73

MW2 B

CW1 S

CW1 M

CW1 B

CW2 S

CW2 M

CW2 B

10:50

10:38

10:41

10:52

10:54

10:56

4

10

8

1

3

1

5

9

27.1

27.7

27.5

27.6

27.3

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								,		0			`	0		,					
Project:	Contract	No. CV/2004/	02 Recons	truction of V	/ong She	ek and Ko	Lau Wa	n Public	Piers	_	Client:	Kin Shing	Constru	ction Co.	, Ltd.		Job No.:	J429	_		
Date of	Sampling:	3/8/2005	5	w	eather C	ondition:	Sunny			_	Ambie	ent Temper	ature,°C:	32	!	ī	Fide State:	Mid-Floo	bd	-	
Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxvae	n ma/l	Dissolve	ed Oxyge	n %	Salinity,	ppt	Turbidity	NTU		Suspen	ded Solic	ts ma/l	Remarks
otation	Time	Condition	Depth, m		a	b	a	b	Average	a	b	Average	a	b	a	b	Average	ouspen		Depth Average	Kelluno
MW1 S	16:15	-		1	28.7	28.7	4.57	4.58	4.59	71.3	71.4	71.4	32.4	32.4	1.49	1.55		6	5		
MW1 M	16:18	-	5	2.5	27.2	27.3	4.60	4.59		71.4	71.3		32.4	32.5	1.74	1.79	1.66	10	11	9	
MW1 B	16:20			4	27.0	27.0	4.60	4.61	4.61	71.7	71.4	71.6	32.5	32.5	1.70	1.71		10	10		<u> </u>
MW2 S	16:32			1	28.5	28.5	6.05	6.08	6.03	93.5	94.2	93.6	32.2	32.2	2.10	2.04		10	11	-	
MW2 M	16:35		10	5	28.1	28.1	6.00	6.00		93.3	93.2		32.3	32.3	2.19	2.20	2.23	12	12	11	
MW2 B	16:38			9	27.9	27.8	5.99	6.01	6.00	93.2	93.0	93.1	32.5	32.4	2.40	2.43		9	9		1
CW1 S	16:22	-		1	28.5	28.4	4.37	4.36	4.38	68.3	68.5	68.1	32.5	32.5	1.12	1.15		20	21	-	
CW1 M	16:25	-	5	2.5	27.3	27.3	4.39	4.39		67.7	67.9		32.5	32.5	1.37	1.40	1.27	9	11	14	
CW1 B	16:28			4	26.9	26.9	4.48	4.51	4.50	69.2	69.4	69.3	32.3	32.3	1.27	1.33		11	13		<u> </u>
CW2 S	16:41	-		1	28.1	28.0	5.07	5.07	5.13	79.4	79.3	79.4	32.2	32.2	1.20	1.25	4.50	7	10		
CW2 M CW2 B	16:44 16:47		11	5.5 10	26.9 25.5	26.9 25.6	5.17 4.99	5.19 5.04	5.02	79.3 76.4	79.4 77.0	76.7	32.5 32.6	32.5 32.6	1.59 1.88	1.58 1.85	1.56	18 14	19 18	14	
CW2 D	10.47			10	20.0	23.0	4.33	5.04	5.02	70.4	11.0	70.7	52.0	52.0	1.00	1.00		14	10		
Equipmer	nt used:	Dissolved O	xygen Mete	er:	EM	6167		Calibrati	ion Check:		100	100%:					Sampled	By:	Pong &	Wai	_
		Turbidity Me	ter:		EM	2365		Calibrati	ion Check:		9.8	NTU					Checked	By:	Raymor	nd Dai	_
		Salinity Mete	ər:		EM	6167		Calibrati	ion Check:		35.6	ppt					Date:		10/8/20	05	-
		Thermomete	er:		EM	6167															
Project:	Contract	No. CV/2004/	02 Recons	truction of V	/ong She	ek and Ko	) Lau Wa	n Public	Piers		Client:	Kin Shing	Constru	ction Co.	. Ltd.		Job No.:	J429			
		3/8/2005			eather C					-		ent Temper					Fide State:		- )	_	
Chatics	Time	6.00	0	Complian	Terrer	otura 00	Diec-h	4 0	n mc/	Diarel	ad 0:		Collinit	201	Truck 140	NTU		Cuer -	ded 0-7	la mal	Demorter
Station	Time	Sea Condition	Overall Depth, m	Sampling Depth,m	a a	ature, °C b	a	b b	n, mg/L Average	a	ed Oxyge b	n, % Average	Salinity, a	b b	Turbidity a	b	Average	Suspend	ded Solic	Depth Average	Remarks
MW1 S	11:16			1	29.3	29.3	4.75	4.78	4.77	73.9	73.9	73.9	32.4	32.4	1.59	1.64		11	13		
MW1 M			4						4.77			13.9					1.76			8	
MW1 B	11:18			3	28.8	28.8	4.73	4.72	4.73	73.8	73.5	73.7	32.5	32.5	1.88	1.94		3	4		
MW2 S	11:28			1	29.2	29.3	7.16	7.17	6.99	111.2	111.4	- 108.6	32.3	32.3	1.97	1.98		13	9		
MW2 M	11:31		9	4.5	28.6	28.6	6.84	6.79		106.1	105.5		32.4	32.4	2.11	2.14	2.15	12	13	9	
MW2 B	11:34			8	28.1	28.0	6.49	6.50	6.50	98.4	98.9	98.7	32.6	32.6	2.37	2.33		5	4		<u> </u>
		1	1	I .			l		1	l	I	1	l		1	I	1	l	I	1	1

32.5 1.42 CW1 S 11:22 29.4 29.4 4.41 69.8 16 11 1 4.40 70.3 32.5 1.44 4.41 70.1 CW1 M 4 1.58 8 CW1 B 11:25 3 28.7 4.32 1.75 3 2 28.7 4.28 4.30 64.1 65.0 64.6 32.4 32.5 1.70 CW2 S 11:36 1 30.0 30.0 5.48 5.49 86.6 86.9 32.2 32.2 1.42 1.50 2 2 85.8 5.51 CW2 M 5.53 84.7 3 3 11:39 10 5 28.5 28.5 5.54 84.8 32.5 32.5 1.76 1.77 1.72 3 CW2 B 11:44 9 28.0 28.0 5.43 5.37 5.40 83.1 82.7 82.9 32.6 32.6 1.92 1.94 3 4

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Pong & Wai
	Turbidity Meter:	EM	2365	Calibration Check:	9.8	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.6	ppt	Date:	10/8/2005
	Thermometer:	EM	6167					

							guun	Ly IVI	ornitor	ing i			-	-							
Project:	Contract	No. CV/2004/	02 Recons	truction of W	/ong She	k and Ko	) Lau Wa	n Public	Piers	-	Client:	Kin Shing	Constru	ction Co.	, Ltd.	-	Job No.:	J429	-		
Date of	Sampling:	5/8/2005	i	w	eather C	ondition:	Sunny			-	Ambie	nt Temper	ature,°C:	34		٦	Fide State:	Mid-Floo	bd	-	
Station	Time	Sea	Overall	Sampling			Dissolve				ed Oxyge		Salinity,	<u> </u>	Turbidity			Suspend	ded Solid	ds, mg/L	Remarks
		Condition	Depth, m	Deptn,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	16:17			1	29.8	29.8	4.72	4.69	4.62	74.2	73.8	72.6	32.2	32.2	0.79	0.80		6	5		
MW1 M	16:20		5	2.5	29.6	29.6	4.56	4.51	4.02	71.6	70.8	72.0	32.3	32.3	1.24	1.26	1.14	2	2	8	
MW1 B	16:23			4	29.5	29.5	4.51	4.46	4.49	70.7	69.7	70.2	32.4	32.4	1.37	1.40		15	15		
MW2 S	16:33			1	29.7	29.7	5.29	8.32		81.9	82.0		31.6	31.6	1.37	1.40		10	11		
MW2 M	16:35	_	10	5	29.4	29.4	4.50	4.52	5.66	70.9	71.3	76.5	31.8	31.8	1.45	1.41	1.49	2	1	5	
MW2 B	16:38			9	29.0	29.0	3.97	3.92	3.95	62.9	62.6	62.8	32.5	32.6	1.62	1.70		3	4		
CW1 S	16:25			1	29.7	29.7	5.22	5.19		82.0	81.6		32.2	32.2	1.25	1.27		2	3		
CW1 M	16:27		5	2.5	29.4	29.4	4.92	4.99	5.08	76.9	78.1	79.7	32.4	32.4	1.17	1.19	1.30	4	4	4	
CW1 B	16:30	-		4	29.2	29.2	4.91	4.89	4.90	76.4	76.2	76.3	32.5	32.5	1.43	1.46		6	8	-	
CW2 S	16:42			1	29.8	29.8	5.88	5.86		92.6	92.3		31.7	32.0	0.95	0.96		5	5		 
CW2 M	16:45	-	11	5.5	28.3	28.3	5.39	5.45	5.65	83.3	84.0	88.1	32.5	32.4	1.14	1.16	1.15	9	11	6	
CW2 M	16:48	-		10	27.8	27.8	4.40	4.41	4.41	68.8	70.0	69.4	32.5	32.4	1.14	1.10		3	4	Ť	
Equipmei	nt used:	Dissolved O Turbidity Me			EM EM	6167 2365	•		ion Check: ion Check:		<u>100</u> 9.8	-					Sampled Checked		Derek 8		-
							•					-						Dy.			-
		Salinity Mete			EM	6167		Calibrati	ion Check:		34.5	ppt					Date:		12/8/20	05	-
		Thermomete	<i>.</i>		EM	6167	•														
Project:	Contract	No. CV/2004/	02 Recons	truction of W	/ong She	k and Ko	) Lau Wa	n Public	Piers	-	Client:	Kin Shing	Constru	ction Co.	, Ltd.	•	Job No.:	J429	-		
Date of	Sampling:	5/8/2005	i	w	eather C	ondition:	Sunny			-	Ambie	nt Temper	ature,°C:	34		. 1	Fide State:	Mid-Ebb	)	_	
Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	ed Oxyge	n, mg/L	Dissolve	ed Oxyge	n, %	Salinity,	ppt	Turbidity	, NTU		Suspend	ded Solid		Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	12:05			1	29.9	29.9	4.92	4.91	4.02	78.0	77.9	78.0	32.2	32.2	1.34	1.36		8	7		
MW1 M			4						4.92			78.0					1.48			6	
MW1 B	12"07	1		3	29.6	29.5	4.57	4.52	4.55	71.7	70.8	71.3	32.3	32.2	1.61	1.59		5	6	1	
MW2 S	12:14			1	30.0	29.9	5.94	5.95		93.6	93.7		31.9	31.9	0.98	0.97		17	16		
MW2 M	12:17	Calm	10	5	28.2	28.2	5.49	5.48	5.72	84.5	84.4	89.1	32.6	32.6	1.23	1.25	1.29	5	6	11	
MW2 B	12:20	1		9	27.8	27.8	4.26	4.25	4.26	65.0	64.7	64.9	32.7	32.7	1.65	1.64		10	12		
CW1 S	12:10			1	29.9	29.9	5.45	5.39	<u> </u>	85.8	84.8		32.2	32.2	1.18	1.20		7	7		
CW1 M		-	4						5.42			85.3					1.40			7	
CW1 B	12:12	1		3	29.5	29.5	4.73	4.60	4.67	74.2	71.9	73.1	32.4	32.4	1.62	1.58		7	7	-	
CW2 S			1	1	29.9	29.9	5.73	5.74		90.1	90.4		31.8	31.8	1.37	1.40		3	4	1	
5112 0	12.27	-			20.0	20.0	0.10	0.14	5.53	50.1	55.4	86.1	01.0	01.0	1.57				-	-	

EM 6167 100 100%: Equipment used: Dissolved Oxygen Meter: Calibration Check: Sampled By: Derek & Pong 2365 9.8 NTU Raymond Dai Turbidity Meter: EM Calibration Check: Checked By: 12/8/2005 EM 6167 34.5 ppt Salinity Meter: Calibration Check: Date: EM Thermometer: 6167

82.4 81.4

71.9

72.1

72.0

32.6

32.9

32.6 1.79

1.25

32.8

1.85

1.31

1.50

7

4

6

4

5

CW2 M

CW2 B

12:26

12:29

4.5

8

9

28.4

28.1

28.4

28.1

5.35

4.54

5.28

4.57

4.56

Project:	Contract	No. CV/2004/	02 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	9/8/2005		w	/eather C	ondition:	Sunny				Ambie	nt Tempera	ature,°C:	33		. 1	Fide State:	Mid-Floo	od	_	
tation	Time	Sea Condition	Overall Depth, m	Sampling Depth,m	Tempera a	ature, °C b	Dissolve a	d Oxyge b	n, mg/L Average	Dissolve a		n, % Average	Salinity, a	ppt b	Turbidity a		Average	Suspend	ded Solid	ds, mg/L Depth Average	Remarks
MW1 S	8:22			1	27.5	27.4	4.88	4.87		77.1	76.9		32.5	32.5	1.47	1.50		5	6		
MW1 M			4						4.88			77.0					1.59			5	
MW1 B	8:25			3	26.3	26.4	4.68	4.66	4.67	74.0	73.8	73.9	32.9	32.9	1.68	1.72		5	5		
MW2 S	8:27			1	27.9	27.7	5.07	5.10	4.69	78.7	79.0	71.2	32.6	32.6	1.62	1.68		6	4		
MW2 M	8:30	rubbish	10	5	25.9	25.9	4.28	4.30		63.5	63.6		33.7	33.7	1.75	1.74	1.73	4	6	5	
MW2 B	8:33			9	24.7	24.7	3.89	3.91	3.90	56.3	56.3	56.3	34.1	34.1	1.80	1.81		6	4		
CW1 S	8:17			1	27.8	27.7	4.71	4.75	4 70	73.1	72.9	72.0	32.7	32.7	1.64	1.65		7	7		
CW1 M			4						4.73			73.0					1.75			6	
CW1 B	8:20			3	26.9	26.9	4.35	4.32	4.34	66.4	66.4	66.4	33.4	33.5	1.82	1.90		5	6		
CW2 S	8:35			1	27.1	27.1	4.89	4.80	4.50	74.0	73.8	67.0	32.6	32.6	1.62	1.65		3	4		
CW2 M	8:38	1	11	5.5	25.5	25.6	4.29	4.27	4.56	60.7	60.4	67.2	33.8	33.7	1.84	1.86	1.92	3	3	4	
CW2 B	8:40	1		10	24.0	24.0	3.00	3.02	3.01	45.3	45.5	45.4	34.3	34.3	2.25	2.27		6	6	1	
		Turbidity Me Salinity Mete	er:		EM EM	2365 6167 6167			on Check: on Check:		10.1 35.4	-					Checked I Date:	By:	Raymor 16/8/20		-
	Contract Sampling:	Salinity Mete Thermomete No. CV/2004/	er: er: 02 Recons	truction of V	EM EM	6167 6167 ek and Ko	) Lau Wa	Calibrati	on Check:		35.4 Client:							J429	16/8/20		-
Date of		Salinity Mete Thermomete No. CV/2004/	er: 02 Recons	truction of V	EM EM Vong She	6167 6167 ek and Ko ondition:	) Lau Wa	Calibrati n Public	on Check: Piers	Dissolve	35.4 Client: Ambie	ppt <u>Kin Shing</u> nt Tempera		33		1	Date: Job No.:	J429	16/8/20	-	Remarks
Date of	Sampling	Salinity Mete Thermomete No. CV/2004/ :	er: 02 Recons	truction of V	EM EM Vong She	6167 6167 ek and Ko ondition:	D Lau Wa	Calibrati n Public	on Check: Piers		35.4 Client: Ambie	ppt <u>Kin Shing</u> nt Tempera	ature,°C:	33		1	Date: Job No.:	J429 Mid-Ebb	16/8/20	-	Remarks
Date of Station	Sampling	Salinity Mete Thermomete No. CV/2004/ : <u>9/8/2005</u> Sea	er: 02 Recons	truction of V	EM EM Vong She /eather C Tempera	6167 6167 ek and Kc ondition: ature, °C	D Lau Wa Sunny Dissolve	Calibrati n Public	on Check: Piers n, mg/L Average	Dissolve	35.4 Client: Ambie d Oxyge	ppt Kin Shing nt Tempera	ature,⁰C: Salinity,	33 ppt	Turbidity	, NTU	Date: Job No.: Fide State:	J429 Mid-Ebb	16/8/20	05 - Is, mg/L Depth	Remarks
Date of Station MW1 S	Sampling: Time	Salinity Mete Thermomete No. CV/2004/ : <u>9/8/2005</u> Sea	er: 02 Recons	truction of V W Sampling Depth,m	EM EM Vong She /eather C Tempera a	6167 6167 ek and Ko ondition: ature, °C b	b Lau Wa Sunny Dissolve a	Calibrati n Public d Oxyge b	on Check: Piers	Dissolve a	35.4 Client: Ambie d Oxyge b	ppt Kin Shing nt Tempera n, % Average	ature,⁰C: Salinity, a	33 ppt b	Turbidity a	, NTU b	Date: Job No.: Fide State:	J429 Mid-Ebb	16/8/20	05 - Is, mg/L Depth	Remarks
Date of Station MW1 S MW1 M	Sampling: Time	Salinity Mete Thermomete No. CV/2004/ : <u>9/8/2005</u> Sea	or: 02 Recons Overall Depth, m	truction of V W Sampling Depth,m	EM EM Vong She /eather C Tempera a	6167 6167 ek and Ko ondition: ature, °C b	b Lau Wa Sunny Dissolve a	Calibrati n Public d Oxyge b	on Check: Piers n, mg/L Average	Dissolve a	35.4 Client: Ambie d Oxyge b	ppt Kin Shing nt Tempera n, % Average	ature,⁰C: Salinity, a	33 ppt b	Turbidity a	, NTU b	Date: Job No.: Fide State: Average	J429 Mid-Ebb	16/8/20	o5 is, mg/L Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B	Sampling: Time 14:32	Salinity Mete Thermomete No. CV/2004/ : <u>9/8/2005</u> Sea	or: 02 Recons Overall Depth, m	Sampling Depth,m	EM EM Vong She /eather C Tempera a 29.4	6167 6167 ok and Ko ondition: ature, °C b 29.3	Dissolve a 5.01	Calibrati n Public d Oxyge b 4.99	n, mg/L Average 5.00 4.84	Dissolve a 77.9	35.4 Client: Ambie d Oxyge b 78.2	ppt Kin Shing nt Tempera n, % Average 78.1 74.0	ature,°C: Salinity, a 32.5	33 ppt b 32.6	Turbidity a 1.71	r, NTU b 1.82	Date: Job No.: Fide State: Average	J429 Mid-Ebb	16/8/20	o5 is, mg/L Depth Average	Remarks
Date of Station MW1 S MW1 M	Sampling: Time 14:32 14:35	Salinity Mete Thermomete No. CV/2004/ : <u>9/8/2005</u> Sea	or: 02 Recons Overall Depth, m	truction of V W Sampling Depth,m 1 2	EM EM Vong She /eather C Tempera a 29.4 28.0	6167 6167 ek and Ko ondition: ature, °C b 29.3 28.1	Dissolve a 5.01 4.82	Calibrati n Public d Oxyge b 4.99 4.85	on Check: Piers n, mg/L Average 5.00	Dissolve a 77.9 74.2	35.4 Client: Ambie b 78.2 73.8	ppt Kin Shing nt Tempera Average 78.1	ature, °C: Salinity, a 32.5 33.0	33 ppt b 32.6 33.0	Turbidity a 1.71 2.52	r, NTU b 1.82 2.54	Date: Job No.: Fide State: Average	J429 Mid-Ebb Suspend	16/8/20	o5 is, mg/L Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S	Sampling: Time 14:32 14:35 14:42	Salinity Meter Thermometer No. CV/2004/ : 9/8/2005 Sea Condition	or: 02 Recons Overall Depth, m 3	truction of V W Sampling Depth,m 1 2 1	EM EM Vong She reather C Tempera a 29.4 28.0 28.0	6167 6167 ek and Ko ondition: ature, °C b 29.3 28.1 28.5	Dissolve a 5.01 4.82 5.27	Calibrati n Public d Oxyge b 4.99 4.85 5.30	n, mg/L Average 5.00 4.84	Dissolve a 77.9 74.2 81.4	35.4 Client: Ambie b 78.2 73.8 81.6	ppt Kin Shing nt Tempera n, % Average 78.1 74.0	ature,°C: Salinity, a 32.5 33.0 32.7	33 ppt b 32.6 33.0 32.7	Turbidity a 1.71 2.52 1.65	r, NTU b 1.82 2.54 1.70	Date: Job No.: Fide State: Average 2.15	J429 Mid-Ebb Suspend 5 3 10	16/8/20 ded Solid	o5 is, mg/L Depth Average 5	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M	Sampling: Time 14:32 14:35 14:42 14:45	Salinity Meter Thermometer No. CV/2004/ : 9/8/2005 Sea Condition	or: 02 Recons Overall Depth, m 3	truction of V W Sampling Depth,m 1 2 1 4.5	EM EM Vong She /eather C 29.4 29.4 28.0 28.6 25.8	6167 6167 6k and Kc ondition: ature, °C b 29.3 28.1 28.5 25.8	Dissolve a 5.01 4.82 5.27 4.99	Calibrati n <u>Public</u> d <u>Oxyge</u> b 4.99 4.85 5.30 4.95	on Check: Piers Average 5.00 4.84 5.13 3.19	Dissolve a 77.9 74.2 81.4 74.0	35.4 Client: Ambie b 78.2 73.8 81.6 73.5	ppt <u>Kin Shing</u> nt Tempera Average 78.1 74.0 77.6 46.8	ature, °C: Salinity, a 32.5 33.0 32.7 33.8	33 ppt b 32.6 33.0 32.7 33.8	Turbidity a 1.71 2.52 1.65 1.76	7, NTU b 1.82 2.54 1.70 1.74	Date: Job No.: Fide State: Average 2.15	J429 Mid-Ebb Suspend 5 3 10 4	16/8/20 	o5 is, mg/L Depth Average 5	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S	Sampling: Time 14:32 14:35 14:42 14:45 14:48	Salinity Meter Thermometer No. CV/2004/ : 9/8/2005 Sea Condition	or: 02 Recons Overall Depth, m 3	truction of V Sampling Depth,m 1 2 1 4.5 8	EM EM Vong She (eather C Tempera a 29.4 28.0 28.0 28.6 28.6 25.8 23.7	6167 6167 6k and Ko ondition: ature, °C b 29.3 28.1 28.5 28.5 25.8 23.7	Dissolve a 5.01 4.82 5.27 4.99 3.17	Calibrati n Public d Oxyge b 4.99 4.85 5.30 4.95 3.20	n, mg/L Average 5.00 4.84 5.13	Dissolve a 77.9 74.2 81.4 74.0 46.5	35.4 Client: Ambie b 78.2 73.8 81.6 73.5 47.0	ppt Kin Shing nt Tempera n, % Average 78.1 74.0 77.6	ature, °C: Salinity, a 32.5 33.0 32.7 33.8 34.7	33 ppt b 32.6 33.0 32.7 33.8 34.7	Turbidity a 1.71 2.52 1.65 1.76 1.80	7, NTU b 1.82 2.54 1.70 1.74 1.82	Date: Job No.: Fide State: Average 2.15	J429 Mid-Ebb Suspend 5 3 10 4 15	16/8/20 	o5 is, mg/L Depth Average 5	Remarks
Date of itation MW1 S MW1 M MW2 S MW2 M MW2 B CW1 S CW1 M	Sampling: Time 14:32 14:35 14:42 14:45 14:48	Salinity Meter Thermometer No. CV/2004/ : 9/8/2005 Sea Condition	or: 02 Recons Overall Depth, m 3 9 9	truction of V Sampling Depth,m 1 2 1 4.5 8	EM EM Vong She (eather C Tempera a 29.4 28.0 28.0 28.6 28.6 25.8 23.7	6167 6167 6k and Ko ondition: ature, °C b 29.3 28.1 28.5 28.5 25.8 23.7	Dissolve a 5.01 4.82 5.27 4.99 3.17	Calibrati n Public d Oxyge b 4.99 4.85 5.30 4.95 3.20	on Check: Piers Average 5.00 4.84 5.13 3.19	Dissolve a 77.9 74.2 81.4 74.0 46.5	35.4 Client: Ambie b 78.2 73.8 81.6 73.5 47.0	ppt <u>Kin Shing</u> nt Tempera Average 78.1 74.0 77.6 46.8	ature, °C: Salinity, a 32.5 33.0 32.7 33.8 34.7	33 ppt b 32.6 33.0 32.7 33.8 34.7	Turbidity a 1.71 2.52 1.65 1.76 1.80	7, NTU b 1.82 2.54 1.70 1.74 1.82	Date: Job No.: Tide State: 2.15 1.75	J429 Mid-Ebb Suspend 5 3 10 4 15	16/8/20 	os is, mg/L Depth Average 5 5	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 S CW1 M	Sampling: Time 14:32 14:35 14:42 14:45 14:45 14:48 14:37	Salinity Meter Thermometer No. CV/2004/ : 9/8/2005 Sea Condition	or: 02 Recons Overall Depth, m 3 9 9	truction of V W Sampling Depth,m 1 2 1 4.5 8 1	EM EM Vong She (eather C 29.4 28.0 28.0 28.6 25.8 23.7 29.5	6167 6167 ek and Ko ondition: ature, °C b 29.3 28.1 28.5 25.8 23.7 29.6	Dissolve a 5.01 4.82 5.27 4.99 3.17 4.66	Calibrati n Public d Oxyge b 4.99 4.85 5.30 4.95 3.20 4.70	on Check: Piers n, mg/L Average 5.00 4.84 5.13 3.19 4.68 4.62	Dissolve a 77.9 74.2 81.4 74.0 46.5 73.6	35.4 Client: Ambie b 78.2 73.8 81.6 73.5 47.0 73.2	ppt           Kin Shing           nt Tempera           n, %           Average           78.1           74.0           77.6           46.8           73.4           71.3	ature, °C: <u>Salinity,</u> a 32.5 33.0 32.7 33.8 34.7 32.4	33 ppt b 32.6 33.0 32.7 33.8 34.7 32.4	Turbidity a 1.71 2.52 1.65 1.76 1.80 2.16	x, NTU b 1.82 2.54 1.70 1.74 1.82 2.17	Date: Job No.: Tide State: 2.15 1.75	J429 Mid-Ebb Suspend 5 3 10 4 15 9	16/8/20 16/	os is, mg/L Depth Average 5 5	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B	Sampling: Time 14:32 14:35 14:45 14:45 14:48 14:37 14:40	Salinity Meter Thermometer No. CV/2004/ : 9/8/2005 Sea Condition	or: 02 Recons Overall Depth, m 3 9 9	truction of V W Sampling Depth,m 1 2 1 4.5 8 1 1 2	EM EM Vong She /eather C Tempera a 29.4 28.0 28.0 28.6 23.7 29.5 29.5 28.2	6167 6167 6k and Ko ondition: ature, °C b 29.3 28.1 28.5 25.8 23.7 29.6 29.6 28.2	Lau Wa           Sunny           Dissolve           a           5.01           4.82           5.27           4.99           3.17           4.66           4.61	Calibrati n Public d Oxyge b 4.99 4.85 5.30 4.95 3.20 4.70 4.63	on Check: Piers n, mg/L Average 5.00 4.84 5.13 3.19 4.68	Dissolve a 77.9 74.2 81.4 74.0 46.5 73.6 71.3	35.4 Client: Ambie b 78.2 73.8 81.6 73.5 47.0 73.2 73.2 71.2	ppt           Kin Shing           nt Temperative           n, %           Average           78.1           74.0           77.6           46.8           73.4	ature, °C: Salinity, a 32.5 33.0 32.7 33.8 34.7 32.4 33.0	33 ppt b 32.6 33.0 32.7 33.8 34.7 32.4 33.0	Turbidity a 1.71 2.52 1.65 1.76 1.80 2.16 2.38	, NTU b 1.82 2.54 1.70 1.74 1.82 2.17 2.39	Date: Job No.: Tide State: 2.15 1.75	J429 Mid-Ebb Suspend 5 3 10 4 15 9 6	16/8/20 Jed Solid 6 4 8 4 14 8 5	os is, mg/L Depth Average 5 5	Remarks

 pment used:
 Dissolved Oxygen Meter:
 EM
 6167
 Calibration Check:
 100
 100%:
 Sampled By:
 Chow Kin Pong

 Turbidity Meter:
 EM
 2365
 Calibration Check:
 10.1
 NTU
 Checked By:
 Raymond Dai

 Salinity Meter:
 EM
 6167
 Calibration Check:
 35.4
 ppt
 Date:
 16/8/2005

Thermometer:

EM 6167

Project:	Contract	No. CV/2004/0	02 Recons	truction of W	/ona She	k and Ko	Lau Wa	n Public	Piers		Client:	Kin Shing	Construe	tion Co	Ltd.		Job No.:	J429			
Date of	Sampling:	11/8/2005		W	eather C	ondition:	Sunny				Ambie	nt Tempera	ature,⁰C:	33		T	ide State:	Mid-Floc	od	-	
Station	Time	Sea Condition	Overall Depth, m	Sampling	Tempera a	ature, ⁰C b	Dissolve a	d Oxyge b	n, mg/L Average	Dissolve	ed Oxyge b	n, % Average	Salinity, a	ppt b	Turbidity a	, NTU b	Average	Suspend	ded Solid	ls, mg/L Depth	Remarks
		Condition	Deptil, III	Deptil,ill	a	U	a	b	Average	a	D	Average	a	b	a	D	Average		1	Average	
MW1 S	9:52			1	29.0	29.0	4.84	4.83	4.82	74.5	74.2	74.1	31.8	31.8	1.13	1.09		15	15		
MW1 M	9:56		5	2.5	28.8	28.8	4.79	4.81		73.8	73.7		32.0	32.0	1.95	1.92	1.93	12	13	15	
MW1 B	9:58			4	28.1	28.1	4.54	4.51	4.53	70.4	69.7	70.1	32.7	32.7	2.73	2.77		17	17		
MW2 S	10:07			1	29.3	29.3	5.52	5.53	5.09	84.2	84.5	77.9	32.0	32.0	0.60	0.62		17	20		
MW2 M	10:10		10	5	27.5	27.6	4.66	4.64	0.00	71.5	71.4	11.5	32.5	32.5	1.45	1.43	1.29	8	11	13	
MW2 B	10:12			9	26.3	26.2	4.15	4.16	4.16	64.5	64.6	64.6	33.1	33.1	1.79	1.82		10	9		
CW1 S	10:01			1	29.4	29.4	4.32	4.40	1.00	66.9	67.1	07.0	32.2	32.2	1.28	1.30		16	18		
CW1 M			4						4.36			67.0					1.42			10	
CW1 B	10:05			3	29.1	29.1	4.07	4.10	4.09	62.6	63.0	62.8	33.6	33.5	1.53	1.55		2	3		
CW2 S	10:14			1	29.4	29.5	4.92	4.94		76.5	76.3	05.5	31.1	31.1	1.51	1.48		7	6		
CW2 M	10:17		11	5.5	27.4	27.4	4.02	3.99	4.47	61.6	61.4	69.0	33.1	33.1	2.13	2.12	1.98	12	11	8	
CW2 B	10:20			10	26.2	26.2	3.68	3.90	3.79	58.7	58.5	58.6	33.7	33.7	2.30	2.34		7	4		
						. <u> </u>														•	
Equipmer	it used:	Dissolved Ox	kygen Mete	er:	EM	6167		Calibrati	ion Check:		100	100%:					Sampled	By:	Chow K	in Pong	-
		Turbidity Met	er:		EM	2365		Calibrati	ion Check:		9.8	NTU					Checked	By:	Raymon	id Dai	-
		Salinity Mete	r:		EM	6167		Calibrati	ion Check:		35.5	ppt					Date:		18/8/200	05	-
		Thermomete	r:		EM	6167															
Project:	Contract	No. CV/2004/																			
		10. 01/2004/0	12 Pecone	truction of W	long She	k and Ko	Lau Wa	n Public	Piere		Client	Kin Shina	Constru	tion Co	l td		lob No :	1429			
Station	oampiing.	11/8/2005		truction of W	-			n Public	Piers			Kin Shing					Job No.:		-		
otation	Time	11/8/2005		W	eather C	ondition:	Sunny			Dissolve	Ambie	nt Tempera	ature,°C:	33		1	Job No.: Fide State:	Mid-Ebb		-	Pamarka
	Time	11/8/2005 Sea Condition		W	eather C		Sunny			Dissolve		nt Tempera		33		1		Mid-Ebb	ded Solid	Depth	Remarks
MW1 S	Time 15:33	Sea	Overall	W	eather C	ondition: ature, °C	Sunny Dissolve	d Oxyge	n, mg/L		Ambie ad Oxyge	nt Tempera	ature,°C: Salinity,	33 ppt	Turbidity	, NTU	Tide State:	Mid-Ebb			Remarks
MW1 S MW1 M		Sea	Overall	W Sampling Depth,m	Tempera a	ondition: ature, °C b	Sunny Dissolve a	d Oxyge b	n, mg/L	а	Ambie ed Oxyge b	nt Tempera	ature,⁰C: Salinity, a	33 ppt b	Turbidity a	, NTU b	Tide State:	Mid-Ebb	ded Solid	Depth	Remarks
		Sea	Overall Depth, m	W Sampling Depth,m	Tempera a	ondition: ature, °C b	Sunny Dissolve a	d Oxyge b	n, mg/L Average	а	Ambie ed Oxyge b	nt Tempera n, % Average	ature,⁰C: Salinity, a	33 ppt b	Turbidity a	, NTU b	Fide State:	Mid-Ebb	ded Solid	Depth Average	Remarks
MW1 M	15:33	Sea	Overall Depth, m	W Sampling Depth,m 1	Tempera a 28.7	ature, °C b 28.8	Sunny Dissolve a 4.89	d Oxyge b 4.90	n, mg/L Average 4.90	a 76.0	Ambie b 75.7	nt Tempera n, % Average 75.9	ature,°C: Salinity, a 32.2	33 ppt b 32.2	Turbidity a 1.39	, NTU b 1.40	Fide State:	Mid-Ebb Suspend	ded Solid	Depth Average	Remarks
MW1 M MW1 B	15:33 15:35	Sea	Overall Depth, m	W Sampling Depth,m 1 3	eather C Tempera a 28.7 28.7	ature, °C b 28.8 28.7	Sunny Dissolve a 4.89 4.85	d Oxyge b 4.90 4.81	n, mg/L Average 4.90	a 76.0 75.2	Ambie b 75.7 74.9	nt Tempera n, % Average 75.9	ature, °C: Salinity, a 32.2 32.3	33 ppt b 32.2 32.3	Turbidity a 1.39 2.04	, NTU b 1.40 2.02	Fide State:	Mid-Ebb Suspenc 6 19	ded Solid 6 14	Depth Average	Remarks
MW1 M MW1 B MW2 S	15:33 15:35 15:43	Sea	Overall Depth, m 4	W Sampling Depth,m 1 3 1	Tempera a 28.7 28.7 28.7 28.6	28.7 28.7	Sunny Dissolve a 4.89 4.85 5.83	d Oxyge b 4.90 4.81 5.89	n, mg/L Average 4.90 4.83	a 76.0 75.2 88.9	Ambie d Oxyge b 75.7 74.9 89.2	nt Tempera Average 75.9 75.1	ature,°C: Salinity, a 32.2 32.3 32.1	33 ppt b 32.2 32.3 32.3 32.2	Turbidity a 1.39 2.04 0.95	, NTU b 1.40 2.02 0.94	Fide State: Average	Mid-Ebb Suspence 6 19 3	6 14 3	Depth Average 11	Remarks
MW1 M MW1 B MW2 S MW2 M	15:33 15:35 15:43 15:45	Sea	Overall Depth, m 4	W Sampling Depth,m 1 3 1 4.5	eather C Tempera 28.7 28.7 28.6 28.6 28.0	ature, °C b 28.8 28.7 28.7 28.7 27.9	Sunny Dissolve a 4.89 4.85 5.83 5.65	d Oxyge b 4.90 4.81 5.89 5.63	n, mg/L Average 4.90 4.83 5.75	a 76.0 75.2 88.9 86.9	Ambie b 75.7 74.9 89.2 87.0	nt Tempera n, % Average 75.9 75.1 88.0	Salinity,         a         32.2         32.3         32.1         32.8         32.9	33 ppt b 32.2 32.3 32.3 32.2 32.8	Turbidity a 1.39 2.04 0.95 1.66	, NTU b 1.40 2.02 0.94 1.67	Fide State: Average	Mid-Ebb Suspend 6 19 3 2	6 14 3 3	Depth Average 11	Remarks
MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S	15:33 15:35 15:43 15:45 15:48	Sea	Overall Depth, m 4	W Sampling Depth,m 1 3 1 4.5 8	eather C Tempera 28.7 28.7 28.6 28.0 27.6	ondition: ature, °C b 28.8 28.7 28.7 28.7 27.9 27.6	Sunny Dissolve a 4.89 4.85 5.83 5.65 5.45	d Oxyge b 4.90 4.81 5.89 5.63 5.43	n, mg/L Average 4.90 4.83 5.75	a 76.0 75.2 88.9 86.9 83.2	Ambie d Oxyge b 75.7 74.9 89.2 87.0 83.1	nt Tempera n, % Average 75.9 75.1 88.0	ature, °C: Salinity, a 32.2 32.3 32.1 32.8	33 ppt b 32.2 32.3 32.3 32.2 32.8 33.0	Turbidity a 1.39 2.04 0.95 1.66 2.25	, NTU b 1.40 2.02 0.94 1.67 2.29	Fide State: Average	Mid-Ebb Suspend 6 19 3 2 4	6 14 3 4	Depth Average 11	Remarks
MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 M	15:33 15:35 15:43 15:45 15:48 15:38	Sea	Overall Depth, m 4	W Sampling Depth,m 1 3 1 4.5 8 1	eather C Tempera 28.7 28.7 28.6 28.0 27.6 28.9	ature, °C         b         28.8         28.7         28.7         27.9         27.6         28.9	Sunny Dissolve a 4.89 4.85 5.83 5.65 5.45 4.55	d Oxyge b 4.90 4.81 5.89 5.63 5.43 4.54	n, mg/L Average 4.90 4.83 5.75 5.44 4.55	a 76.0 75.2 88.9 86.9 83.2 70.1	Ambie b 75.7 74.9 89.2 87.0 83.1 70.2	nt Tempera n, % Average 75.9 75.1 88.0 83.2 70.2	ature, °C: <u>Salinity,</u> a 32.2 32.3 32.1 32.8 32.9 32.0	33 ppt b 32.2 32.3 32.2 32.8 33.0 32.1	Turbidity a 1.39 2.04 0.95 1.66 2.25 1.12	NTU b 1.40 2.02 0.94 1.67 2.29 1.09	Tide State: Average 1.71 1.63	Mid-Ebb Suspend 6 19 3 2 4 8	6 14 3 3 4 9	Depth Average 11 3	Remarks
MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 M CW1 B	15:33 15:35 15:43 15:45 15:48 15:38 15:38	Sea	Overall Depth, m 4	W Sampling Depth,m 1 3 1 4.5 8 1 2	eather C Tempera a 28.7 28.7 28.6 28.0 27.6 28.9 28.9 28.5	28.8 28.7 28.7 27.9 27.6 28.9 28.5	Sunny Dissolve a 4.89 4.85 5.83 5.65 5.45 4.55 4.30	4.90 4.90 4.81 5.89 5.63 5.43 4.54 4.30	n, mg/L Average 4.90 4.83 5.75 5.44	a 76.0 75.2 88.9 86.9 83.2 70.1 66.7	Ambie d Oxyge b 75.7 74.9 89.2 87.0 83.1 70.2 67.2	nt Tempera n, % Average 75.9 75.1 88.0 83.2	ature, °C: Salinity, 32.2 32.3 32.1 32.8 32.9 32.0 32.0 32.5	33 ppt b 32.2 32.3 32.2 32.8 33.0 32.1 32.1 32.5	Turbidity a 1.39 2.04 0.95 1.66 2.25 1.12 1.65	, NTU b 1.40 2.02 0.94 1.67 2.29 1.09	Tide State: Average 1.71 1.63	Mid-Ebb Suspence 6 19 3 2 4 8 8 6	6 14 3 4 9 6	Depth Average 11 3	Remarks
MW1 M MW2 S MW2 M MW2 B CW1 S CW1 M CW1 B CW2 S	15:33 15:35 15:43 15:45 15:48 15:38 15:38 15:40 15:52	Sea	Overall Depth, m 4 9 3	W Sampling Depth,m 1 3 1 4.5 8 1 2 2 1	eather C Tempera 28.7 28.7 28.6 28.0 27.6 28.9 28.5 28.5 28.6	28.7 27.9 28.5 28.5	Sunny           Dissolve           a           4.89           4.85           5.83           5.65           5.45           4.55           4.30           5.26	d Oxyge b 4.90 4.81 5.63 5.63 5.43 4.54 4.30 5.24	n, mg/L Average 4.90 4.83 5.75 5.44 4.55	a 76.0 75.2 88.9 86.9 83.2 70.1 66.7 87.3	Ambie d Oxyge b 75.7 74.9 89.2 87.0 83.1 70.2 67.2 80.9	nt Tempera n, % Average 75.9 75.1 88.0 83.2 70.2	ature, °C: Salinity, a 32.2 32.3 32.1 32.8 32.9 32.0 32.5 32.5	33           ppt           b           32.2           32.3           32.2           32.3           32.4           33.0           32.1           32.5           32.5	Turbidity           a           1.39           2.04           0.95           1.66           2.25           1.12           1.65           1.09	, NTU b 1.40 2.02 0.94 1.67 2.29 1.09 1.68 1.10	Tide State: Average 1.71 1.63	Mid-Ebb Suspence 6 19 3 2 4 8 6 6 8	6 14 3 4 9 6 6 6	Depth Average 11 3 8	Remarks
MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 M CW1 B	15:33 15:35 15:43 15:45 15:48 15:38 15:38	Sea	Overall Depth, m 4	W Sampling Depth,m 1 3 1 4.5 8 1 2	eather C Tempera a 28.7 28.7 28.6 28.0 27.6 28.9 28.9 28.5	28.8 28.7 28.7 27.9 27.6 28.9 28.5	Sunny Dissolve a 4.89 4.85 5.83 5.65 5.45 4.55 4.30	4.90 4.90 4.81 5.89 5.63 5.43 4.54 4.30	n, mg/L Average 4.90 4.83 5.75 5.44 4.55 4.30	a 76.0 75.2 88.9 86.9 83.2 70.1 66.7	Ambie d Oxyge b 75.7 74.9 89.2 87.0 83.1 70.2 67.2	nt Tempera n, % Average 75.9 75.1 88.0 83.2 70.2 67.0	ature, °C: Salinity, 32.2 32.3 32.1 32.8 32.9 32.0 32.0 32.5	33 ppt b 32.2 32.3 32.2 32.8 33.0 32.1 32.1 32.5	Turbidity a 1.39 2.04 0.95 1.66 2.25 1.12 1.65	, NTU b 1.40 2.02 0.94 1.67 2.29 1.09	Tide State: Average 1.71 1.63	Mid-Ebb Suspence 6 19 3 2 4 8 8 6	6 14 3 4 9 6	Depth Average 11 3	Remarks

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Chow Kin Pong
	Turbidity Meter:	EM	2365	Calibration Check:	9.8	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.5	ppt	Date:	18/8/2005
	Thermometer:	EM	6167					

Project:	Contract	No. CV/2004/0	02 Recons	truction of V	Vong She	ek and Ko	Lau Wa	n Public	Piers	•	Client:	Kin Shing	Constru	ction Co.	, Ltd.		Job No.:	J429	_		
Date of	Sampling:	13/8/2005		v	eather C	ondition:	Typhoor	n Signal I	No.1		Ambie	nt Tempera	ature,ºC:				Tide State:	Mid-Floo	bd		
Station	Time	Sea	Overall	Sampling	Tempera	ature, °C	Dissolve	d Oxyge	n, mg/L	Dissolve	ed 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	
MW1 S																				ritolago	
									#DIV/0!			#DIV/0!					#DIV/0!			#DIV/0!	
MW1 M																	#DIV/0!			#DIV/0!	
MW1 B									#DIV/0!			#DIV/0!									
MW2 S									#DIV/0!			90.0									
MW2 M																	#DIV/0!			#DIV/0!	
MW2 B									#DIV/0!			80.8									
CW1 S																					
CW1 M									#DIV/0!			#DIV/0!					#DIV/0!			#DIV/0!	
CW1 B									#DIV/0!			#DIV/0!									
CW2 S																					
CW2 M									#DIV/0!			#DIV/0!					#DIV/0!			#DIV/0!	
CW2 B									#DIV/0!			#DIV/0!					-				
CVV2 B									#DIV/0!			#DIV/0!									
Equipmer	t used:	Dissolved Ox	waan Mate	ar.	EM	6167		Calibrati	on Check:		100	100%:					Sampled	Bv:	Pong &	Daniel	
Equipmen	1 4364.			51.								-									
		Turbidity Met	er:		EM	2365		Calibrati	on Check:		0	NTU					Checked	ву:	Raymon		
		Salinity Mete	r:		EM	6167		Calibrati	on Check:		0	ppt					Date:		20/8/200	)5	
		Thermomete	r:		EM	6167															
						0101															
		0.1/000.4/							<b>D</b> .		01		<b>a</b>					1400			
		No. CV/2004/0			Vong She	ek and Ko	Lau Wa					Kin Shing					Job No.:				
		No. CV/2004/0 13/8/2005			Vong She		Lau Wa					Kin Shing					Job No.: Tide State:		-		
Date of		13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L	Dissolve	Ambier ad Oxyger	nt Tempera	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State:	Mid-Ebb	ded Solid		Remarks
Date of	Sampling:	13/8/2005		Sampling	Vong She /eather C	ek and Ko	Lau Wa	n Signal N	No.1		Ambier ad Oxyger	nt Temper	ature,°C:		-			Mid-Ebb	ded Solid	s, mg/L Depth Average	Remarks
Date of	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L Average	Dissolve	Ambier ad Oxyger	nt Tempera n, % Average	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State:	Mid-Ebb	ded Solid	Depth	Remarks
Date of Station	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L	Dissolve	Ambier ad Oxyger	nt Tempera	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State:	Mid-Ebb	ded Solid	Depth	Remarks
Date of Station MW1 S	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L Average	Dissolve	Ambier ad Oxyger	nt Tempera n, % Average	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average	Mid-Ebb	ded Solid	Depth Average	Remarks
Date of Station MW1 S MW1 M	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 Average #DIV/0! #DIV/0!	Dissolve	Ambier ad Oxyger	n, % Average #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average	Mid-Ebb	ded Solid	Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	n, mg/L Average #DIV/0!	Dissolve	Ambier ad Oxyger	nt Tempera Average #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average	Mid-Ebb	ded Solid	Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 Average #DIV/0! #DIV/0!	Dissolve	Ambier ad Oxyger	n, % Average #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0!	Mid-Ebb	ded Solid	Depth Average #DIV/0!	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L Average #DIV/0! #DIV/0! *#DIV/0!	Dissolve	Ambier ad Oxyger	n, % Average #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0!	Mid-Ebb	ded Solid	Depth Average #DIV/0!	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L Average #DIV/0! #DIV/0! *#DIV/0!	Dissolve	Ambier ad Oxyger	n, % Average #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0! #DIV/0!	Mid-Ebb	ded Solid	Depth Average #DIV/0! #DIV/0!	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 S	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	Dissolve	Ambier ad Oxyger	nt Tempera n, % Average #DIV/0! #DIV/0! #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0!	Mid-Ebb	ded Solid	Depth Average #DIV/0!	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 S CW1 B	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L Average #DIV/0! #DIV/0! #DIV/0! #DIV/0!	Dissolve	Ambier ad Oxyger	nt Tempera Average #DIV/0! #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0! #DIV/0!	Mid-Ebb	ded Solid	Depth Average #DIV/0! #DIV/0!	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 S CW1 M CW1 B CW2 S	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	Dissolve	Ambier ad Oxyger	nt Tempera n, % Average #DIV/0! #DIV/0! #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0! #DIV/0! #DIV/0!	Mid-Ebb	ded Solid	Depth Average #DIV/0! #DIV/0! #DIV/0!	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 S CW1 B	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	Dissolve	Ambier ad Oxyger	nt Tempera n, % Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0! #DIV/0!	Mid-Ebb	ded Solid	Depth Average #DIV/0! #DIV/0!	Remarks
Date of Station MW1 S MW1 M MW2 B MW2 M MW2 B CW1 S CW1 S CW1 M CW1 B CW2 S	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	Dissolve	Ambier ad Oxyger	nt Tempera n, % Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0! #DIV/0! #DIV/0!	Mid-Ebb	ded Solid	Depth Average #DIV/0! #DIV/0! #DIV/0!	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 M CW1 B CW1 B CW2 S CW2 S	Sampling:	13/8/2005 Sea	Overall	Sampling	Vong She /eather C Temper	ek and Ko condition: ature, °C	Lau Wa Typhoor Dissolve	n Signal N ed Oxyge	No.1 n, mg/L Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	Dissolve	Ambier ad Oxyger	nt Tempera n, % Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0! #DIV/0! #DIV/0!	Mid-Ebb	ded Solid	Depth Average #DIV/0! #DIV/0! #DIV/0!	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 M CW1 B CW1 B CW2 S CW2 S	Sampling:	13/8/2005 Sea	Overall Depth, m	V Sampling Depth,m	Vong She /eather C Temper	ek and Ko condition: ature, °C	Dissolve a	Signal 1	No.1 n, mg/L Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!		Ambier ad Oxyger	nt Tempera n, % Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0! #DIV/0! #DIV/0!	Mid-Ebb Suspend	ded Solid	Depth Average #DIV/0! #DIV/0! #DIV/0!	Remarks
Date of Station MW1 S MW1 M MW2 B MW2 M MW2 B CW1 S CW1 S CW1 B CW1 B CW1 B CW1 B CW2 S CW2 M	Sampling:	13/8/2005	Overall Depth, m	V Sampling Depth,m	Vong She Veather C a	ek and Ko condition: b	Lau Wa Typhoor Dissolve a	Signal 1 d Oxyge b	No.1 n, mg/L Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!		Ambien	n, % Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	ature,⁰C: Salinity,	ppt	Turbidity	, NTU	Tide State: Average #DIV/0! #DIV/0! #DIV/0! #DIV/0!	Mid-Ebb		Depth Average #DIV/0! #DIV/0! #DIV/0! #DIV/0! Daniel	Remarks

Thermometer:

EM 6167

Project.	Contract	No. CV/2004/	02 Recons	truction of M	long She	k and Ko	lau Wa	n Public I	Piers		Client	Kin Shing	Constru	ction Co	Ltd		Job No.:	1429			
-		15/8/2005			eather C							nt Tempera					Tide State:		d		
Station	Time	Sea	Overall	Sampling		ature, ⁰C					d Oxyger		Salinity,		Turbidity	·	I	Suspend	led Solid		Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	16:02			1	27.0	27.1	5.17	5.15	4.96	79.8	79.6	76.7	32.5	32.5	0.86	0.85		21	19		
MW1 M	16:05		5	2.5	26.1	26.1	4.77	4.76	4.50	73.9	73.5	10.1	32.5	32.5	1.45	1.47	1.49	5	4	10	
MW1 B	16:08			4	25.6	25.6	2.71	2.72	2.72	41.4	41.5	41.5	33.1	33.1	2.14	2.16		4	4		
MW2 S	16:15			1	27.1	27.1	5.22	5.20	E 01	80.4	80.2	77.0	32.4	32.4	1.29	1.30		4	5		
MW2 M	16:18		10	5	26.6	26.6	4.81	4.82	5.01	74.2	74.5	77.3	32.7	32.7	1.37	1.41	1.59	3	3	3	
MW2 B	16:20			9	24.3	24.3	2.78	2.82	2.80	42.0	42.3	42.2	33.5	33.5	2.07	2.09		2	2		
CW1 S	16:10			1	27.6	27.6	4.65	4.68		71.5	71.8		32.5	32.5	1.38	1.41		7	6		
CW1 M		1	4						4.67			71.7					1.82			6	
CW1 B	16:13	1		3	26.7	26.7	3.81	3.86	3.84	58.1	58.5	58.3	33.2	33.2	2.22	2.26		6	5		
CW2 S	16:23			1	27.2	27.3	4.84	4.86		74.6	74.8		32.7	32.8	1.40	1.38		2	3		
CW2 M	16:25		11	5.5	26.7	26.6	4.50	4.52	4.68	68.6	68.8	71.7	32.8	32.8	1.92	1.93	2.02	5	7	5	
CW2 B	16:29			10	24.6	24.5	3.29	3.32	3.31	51.2	51.5	51.4	33.0	33.0	2.74	2.76		6	7		
quipme	nt used:	Dissolved O	xygen Mete	er:	EM	6167		Calibrati	on Check:		100	100%:					Sampled	By:	Chow K	in Pona	
		Turbidity Me	ter:		EM	2365		Calibrati	on Check:		10.1						Checked I		Raymor		-
		Turbidity Me Salinity Mete			EM EM	2365 6167			on Check: on Check:		10.1 35.6	NTU						By:		id Dai	- - -
			er:									NTU					Checked I	By:	Raymor	id Dai	-
Project:	Contract	Salinity Mete	er: er:		EM EM	6167 6167		Calibrati	on Check:		35.6	NTU	Construc	ction Co.,	Ltd.		Checked I	By:	Raymor	id Dai	-
		Salinity Mete	er: er: 02 Reconsi	truction of W	EM EM	6167 6167 k and Ko	Lau Wa	Calibrati	on Check:		35.6 Client:	NTU ppt					Checked I Date:	By:	Raymor 22/8/200	id Dai	-
Date of		Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	er: 02 Recons	truction of W W Sampling	EM EM /ong She eather Co Tempera	6167 6167 k and Ko ondition: ature, °C	Lau Wa Sunny Dissolve	Calibration n Public I	on Check: Piers	Dissolve	35.6 Client: Ambier d Oxyger	NTU ppt Kin Shing nt Tempera	ature,⁰C: Salinity,	31 ppt	Turbidity	, NTU	Checked I Date: Job No.: Tide State:	By:	Raymor 22/8/200	ld Dai 05	Remarks
Date of	Sampling	Salinity Mete Thermomete No. CV/2004/ 	er: er: 02 Recons	truction of W W Sampling	EM EM /ong She eather Co	6167 6167 k and Ko ondition:	Lau Wa	Calibrati	on Check: Piers		35.6 Client: Ambier	NTU ppt Kin Shing nt Tempera	ature,⁰C:	31		. 1	Checked I Date: Job No.:	By: J429 Mid-Ebb	Raymor 22/8/200	ud Dai 05	Remarks
Date of	Sampling	Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	er: 02 Recons	truction of W W Sampling	EM EM /ong She eather Co Tempera	6167 6167 k and Ko ondition: ature, °C	Lau Wa Sunny Dissolve	Calibration n Public I	on Check: Piers	Dissolve	35.6 Client: Ambier d Oxyger	NTU ppt Kin Shing nt Tempera	ature,⁰C: Salinity,	31 ppt	Turbidity	, NTU	Checked I Date: Job No.: Tide State:	By: J429 Mid-Ebb	Raymor 22/8/200	d Dai 05 Is, mg/L Depth	Remarks
Date of Station MW1 S	Sampling: Time	Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	er: 02 Recons	truction of W W Sampling Depth,m	EM EM /ong She eather Co Tempera a	6167 6167 k and Ko ondition: ature, °C b	Lau Wa Sunny Dissolve a	Calibrati n Public d Oxyger b	on Check: Piers n, mg/L Average	Dissolve	35.6 Client: Ambier d Oxyger b	NTU ppt <u>Kin Shing</u> nt Tempera n, % Average	ature,⁰C: Salinity, a	31 ppt b	Turbidity a	r, NTU b	Checked I Date: Job No.: Tide State:	By: J429 Mid-Ebb Suspenc	Raymor 22/8/200	d Dai 05 Is, mg/L Depth	Remarks
	Sampling: Time	Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	or: 02 Recons Overall Depth, m	truction of W W Sampling Depth,m	EM EM /ong She eather Co Tempera a	6167 6167 k and Ko ondition: ature, °C b	Lau Wa Sunny Dissolve a	Calibrati n Public d Oxyger b	on Check: Piers n, mg/L Average	Dissolve	35.6 Client: Ambier d Oxyger b	NTU ppt <u>Kin Shing</u> nt Tempera n, % Average	ature,⁰C: Salinity, a	31 ppt b	Turbidity a	r, NTU b	Checked I Date: Job No.: Tide State: Average	By: J429 Mid-Ebb Suspenc	Raymor 22/8/200	id Dai 05 is, mg/L Depth Average	Remarks
Date of Station MW1 S MW1 M	Sampling: Time 10:35 10:37	Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	or: 02 Recons Overall Depth, m	truction of W W Sampling Depth,m	EM EM /ong She eather Co Tempera a 28.5	6167 6167 k and Ko ondition: ature, °C b 28.5	Lau Wa Sunny Dissolve a 5.25	Calibrati n Public d Oxygee b 5.21	on Check: Piers n, mg/L Average 5.23	Dissolve a 80.9	35.6 Client: Ambier d Oxyger b 80.5	NTU ppt Kin Shing nt Tempera 7, % Average 80.7	ature,⁰C: Salinity, a 32.5	31 ppt b 32.5	Turbidity a 1.94	7, NTU b 1.96	Checked I Date: Job No.: Tide State: Average	By: J429 Mid-Ebb Suspenc	Raymor 22/8/200 Jed Solid	id Dai 05 is, mg/L Depth Average	Remarks
Date of itation MW1 S MW1 M MW1 B MW2 S	Sampling: Time 10:35 10:37 10:19	Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	or: 02 Recons Overall Depth, m	truction of W W Sampling Depth,m 1 3	EM /ong She eather Co Tempera a 28.5 27.8	6167 6167 k and Ko ondition: ature, °C b 28.5 28.5	Lau Wa Sunny Dissolve a 5.25 3.11	Calibrati n Public b 5.21 3.14	n, mg/L Average 5.23 3.13	Dissolve a 80.9 47.1	35.6 Client: Ambieu b 80.5 47.4	NTU ppt Kin Shing nt Tempera Average 80.7 47.3	ature, °C: Salinity, a 32.5 33.3	31 ppt b 32.5 33.4	Turbidity a 1.94 2.20	r, NTU b 1.96 2.26	Checked I Date: Job No.: Tide State: Average	By: J429 Mid-Ebb Suspenc 5 9	Raymor 22/8/200	id Dai 05 is, mg/L Depth Average	Remarks
Date of station MW1 S MW1 M MW1 B MW2 S MW2 M	Sampling: Time 10:35 10:37 10:19	Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	or: 02 Recons 02 Recons 02 Recons 02 Recons 02 Recons 04	truction of W W Sampling Depth,m 1 3 1	EM EM /ong She eather Co Tempera a 28.5 27.8 29.0	6167 6167 k and Ko ondition: ature, °C b 28.5 28.5 27.7 29.0	Lau Wa Sunny Dissolve a 5.25 3.11 5.25	Calibration n Public b 5.21 3.14 5.27	n, mg/L Average 5.23 3.13	Dissolve a 80.9 47.1 80.3	35.6 Client: Ambier b 80.5 47.4 80.5	NTU ppt Kin Shing nt Tempera Average 80.7 47.3	ature,°C: Salinity, a 32.5 33.3 32.2	31 ppt 32.5 33.4 32.2	Turbidity a 1.94 2.20 1.50	7, NTU b 1.96 2.26 1.48	Checked I Date: Job No.: Tide State: Average	By: J429 Mid-Ebb Suspenc 5 9 5	Raymor 22/8/200 4 4 13 4	ld Dai	Remarks
Date of tation MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B	Sampling: Time 10:35 10:37 10:19 10:21	Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	or: 02 Recons 02 Recons 02 Recons 02 Recons 02 Recons 04	truction of W W Sampling Depth,m 1 3 1 4.5	EM EM /ong She eather Co Tempera a 28.5 27.8 29.0 26.7	6167 6167 k and Ko ondition: ature, °C b 28.5 27.7 29.0 26.7	Lau Wa Sunny Dissolve a 5.25 3.11 5.25 4.94	Calibration n Public b 5.21 3.14 5.27 4.91	on Check: Piers Average 5.23 3.13 5.09 4.58	Dissolve a 80.9 47.1 80.3 76.3	35.6 Client: Ambieu b 80.5 47.4 80.5 76.1	NTU ppt Kin Shing nt Tempera N, % Average 80.7 47.3 78.3 78.3	ature, °C: Salinity, a 32.5 33.3 32.2 32.8	31 ppt 32.5 33.4 32.2 32.8	Turbidity a 1.94 2.20 1.50 2.44	7, NTU b 1.96 2.26 1.48 2.46	Checked I Date: Job No.: Tide State: Average	By: J429 Mid-Ebb Suspence 5 9 5 9 5 9	Raymor 22/8/200	ld Dai	Remarks
Date of tation MW1 S MW1 M MW2 S MW2 M MW2 B MW2 B	Sampling: Time 10:35 10:37 10:19 10:21 10:25	Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	or: 02 Recons 02 Recons 02 Recons 02 Recons 02 Recons 04	truction of W W Sampling Depth,m 1 3 1 4.5 8	EM EM /ong She eather Cr 7 empera a 28.5 27.8 29.0 26.7 25.1	6167 6167 k and Ko ondition: ature, °C b 28.5 27.7 29.0 26.7 25.0	Lau War Sunny Dissolve a 5.25 3.11 5.25 4.94 4.58	Calibration n Public 1 d Oxygee b 5.21 3.14 5.27 4.91 4.57	n, mg/L Average 5.23 3.13 5.09	Dissolve a 80.9 47.1 80.3 76.3 70.7	35.6 Client: Ambier b 80.5 47.4 80.5 76.1 70.6	NTU ppt Kin Shing nt Tempera n, % Average 80.7 47.3 78.3	ature, °C: Salinity, a 32.5 33.3 32.2 32.8 32.8	31 ppt b 32.5 33.4 32.2 32.8 32.9	Turbidity a 1.94 2.20 1.50 2.44 2.88	7, NTU b 1.96 2.26 1.48 2.46 2.89	Checked I Date: Job No.: Tide State: Average	By: J429 Mid-Ebb Suspenc 5 9 5 9 11	Raymor 22/8/200 ied Solic 4 13 4 9 9	ld Dai	Remarks
Date of tation MW1 S MW1 M MW2 S MW2 M MW2 B CW1 S CW1 M	Sampling: Time 10:35 10:37 10:19 10:21 10:25 10:40	Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	er: 02 Recons Overall Depth, m 4 9	truction of W W Sampling Depth,m 1 3 1 4.5 8	EM EM /ong She eather Cr 7 empera a 28.5 27.8 29.0 26.7 25.1	6167 6167 k and Ko ondition: ature, °C b 28.5 27.7 29.0 26.7 25.0	Lau War Sunny Dissolve a 5.25 3.11 5.25 4.94 4.58	Calibration n Public 1 d Oxygee b 5.21 3.14 5.27 4.91 4.57	on Check: Piers Average 5.23 3.13 5.09 4.58	Dissolve a 80.9 47.1 80.3 76.3 70.7	35.6 Client: Ambier b 80.5 47.4 80.5 76.1 70.6	NTU ppt Kin Shing nt Tempera N, % Average 80.7 47.3 78.3 78.3	ature, °C: Salinity, a 32.5 33.3 32.2 32.8 32.8	31 ppt b 32.5 33.4 32.2 32.8 32.9	Turbidity a 1.94 2.20 1.50 2.44 2.88	7, NTU b 1.96 2.26 1.48 2.46 2.89	Checked I Date: Job No.: Tide State: 2.09 2.28	By: J429 Mid-Ebb Suspenc 5 9 5 9 11	Raymor 22/8/200 ied Solic 4 13 4 9 9	ld Dai	Remarks
Date of Station MW1 S MW1 M MW1 B	Sampling: Time 10:35 10:37 10:19 10:21 10:25 10:40	Salinity Mete Thermomete No. CV/2004/ : 15/8/2005 Sea	er: 02 Recons Overall Depth, m 4 9	truction of W W Sampling Depth,m 1 3 1 4.5 8 1	EM EM /ong She eather C Tempera a 28.5 27.8 29.0 26.7 25.1 28.9	6167 6167 k and Ko ondition: ature, °C b 28.5 27.7 29.0 26.7 25.0 28.9	Lau War Sunny Dissolve a 5.25 3.11 5.25 4.94 4.58 5.28	Calibration n Public 1 d Oxygee b 5.21 3.14 5.27 4.91 4.57 5.25	on Check: Piers Average 5.23 3.13 5.09 4.58 5.27	Dissolve           a           80.9           47.1           80.3           76.3           70.7           81.5	35.6 Client: Ambieu d Oxyger b 80.5 47.4 80.5 76.1 70.6 81.2	NTU ppt <u>Kin Shing</u> nt Tempera Average 80.7 47.3 78.3 78.3 70.7 81.4	ature, °C: <u>Salinity,</u> a 32.5 33.3 32.2 32.8 32.8 32.1	31 ppt b 32.5 33.4 32.2 32.8 32.9 32.2	Turbidity a 1.94 2.20 1.50 2.44 2.88 1.59	7, NTU b 1.96 2.26 1.48 2.46 2.89 1.60	Checked I Date: Job No.: Tide State: 2.09 2.28	By: J429 Mid-Ebb Suspenc 5 9 5 9 11 9 11	Raymor 22/8/200 4 4 13 4 9 9 7 7	ld Dai	Remarks

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Chow Kin Pong
	Turbidity Meter:	EM	2365	Calibration Check:	10.1	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.6	ppt	Date:	22/8/2005
	Thermometer:	EM	6167					

73.5

73.2

73.4

32.2

32.2 2.41 2.39

2

3

24.6 24.6 9

4.80

4.78

4.79

CW2 B

10:32

Water Quality Monitoring Data Sheet (Wong Shek)

Date of	Contract	No. CV/2004/	02 Recons	truction of W	/ong She	k and Ko	Lau Wa	n Public	Piers	-	Client:	Kin Shing	Construc	ction Co.,	, Ltd.	-	Job No.:	J429	-		
24.0 01	Sampling	17/8/2005		w	eather C	ondition:	Raining			-	Ambier	nt Tempera	ature,⁰C:	28		٦	Tide State:	Mid-Floo	bd	-	
Station	Time	Sea	Overall		Tempera	ature, ⁰C	Dissolve			Dissolve	d Oxygei		Salinity,		Turbidity	, NTU		Suspend	ded Solid	-	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	10:25	_		1	27.2	27.2	4.68	4.67	4.20	71.0	70.9	64.1	30.3	30.3	1.65	1.69		41	41		
MW1 M	10:28	_	5	2.5	28.0	27.9	3.74	3.70		57.4	57.0		32.5	32.5	1.97	2.00	2.06			23	
MW1 B	10:32			4	27.8	27.8	3.40	3.41	3.41	53.0	53.1	53.1	32.3	32.3	2.53	2.51		4	4		
MW2 S	10:05	_		1	27.2	27.2	5.64	5.70	5.00	86.2	86.5	77.6	31.1	31.3	0.74	0.71		11	11		
MW2M	10:08	-	10	5	26.9	26.8	4.32	4.34		68.6	68.9		32.8	32.9	1.56	1.54	1.37	5	5	9	
MW2 B	10:12			9	26.2	26.2	2.33	2.31	2.32	34.7	34.5	34.6	33.3	33.3	1.84	1.85		9	10		
CW1 S	10:35			1	27.3	27.4	4.55	4.53	4.54	68.7	68.4	68.6	29.1	29.1	1.51	1.53		4	5		
CW1 M			4						J			00.0					1.86	5	6	5	
CW1 B	10:38			3	27.1	27.1	4.37	4.36	4.37	64.2	64.0	64.1	32.1	32.1	2.20	2.18		4	7		
CW2 S	10:15			1	27.3	27.3	5.02	5.05	4.89	77.1	77.2	74.3	30.5	30.5	1.46	1.45		5	4		
CW2 M	10:18		11	5	28.2	28.3	4.73	4.74	4.05	71.4	71.6	74.5	31.9	31.9	2.28	2.30	2.17	17	15	14	
CW2 B	10:22			10	27.7	27.7	3.87	3.82	3.85	59.9	59.9	59.9	32.6	32.6	2.76	2.74		19	25		
Equipme	nt used:	Dissolved O	xygen Mete	er:	EM	6167		Calibrati	on Check:		100						Sampled I	By:	Chow K	in Pong	
		Turbidity Me	ter:		EM	2265															
						2365		Calibrati	on Check:		10.1						Checked I	By:	Raymon	nd Dai	
		Salinity Mete			EM	6167			on Check:		10.1 35.4						Checked I Date:	-	Raymon 24/8/200		
		Salinity Mete	er:															-			
Project:	Contract	-	er: er:		EM EM	6167 6167		Calibrati	on Check:		35.4		Construc	ction Co.,	, Ltd.						
		Thermomete	er: er: 02 Recons	truction of W	EM EM /ong She	6167 6167	Lau Wa	Calibrati	on Check:		35.4 Client:	ppt					Date:	J429	24/8/200		
Date of		Thermomete No. CV/2004/ 17/8/2005 Sea	er: 02 Recons	truction of W W Sampling	EM EM /ong She eather C Tempera	6167 6167 k and Ko ondition: ature, °C	Lau Wa Raining Dissolve	Calibrati n Public	on Check: Piers	Dissolve	35.4 Client: Ambier d Oxyger	ppt Kin Shing nt Tempera	ature,°C: Salinity,	29 ppt	Turbidity	, NTU	Date: Job No.: Fide State:	J429	24/8/200	05 - Is, mg/L	Remarks
Date of	Sampling	Thermomete No. CV/2004/ 17/8/2005	er: 02 Recons	truction of W W Sampling	EM EM /ong She eather C	6167 6167 k and Ko ondition:	Lau Wa Raining	Calibrati n Public	on Check: Piers	-	35.4 Client: Ambier d Oxyger	ppt <u>Kin Shing</u> nt Tempera	ature,°C:	29	-	. 1	Date: Job No.: Fide State:	J429 Mid-Ebb	24/8/200	-	Remarks
Date of Station	Sampling	Thermomete No. CV/2004/ 17/8/2005 Sea	er: 02 Recons	truction of W W Sampling	EM EM /ong She eather C Tempera	6167 6167 k and Ko ondition: ature, °C	Lau Wa Raining Dissolve	Calibrati n Public	on Check: Piers n, mg/L Average	Dissolve	35.4 Client: Ambier d Oxyger	ppt <u>Kin Shing</u> nt Tempera n, % Average	ature,°C: Salinity,	29 ppt	Turbidity	, NTU	Date: Job No.: Fide State:	J429 Mid-Ebb	24/8/200	05 - Is, mg/L Depth	Remarks
Date of	Sampling: Time 16:20	Thermomete No. CV/2004/ 17/8/2005 Sea	er: 02 Recons	truction of W W Sampling Depth,m	EM EM /ong She eather C Tempera a	6167 6167 k and Ko ondition: ature, °C b	Lau Wa Raining Dissolve a	Calibrati n Public d Oxyge	on Check: Piers	Dissolve	35.4 Client: Ambier d Oxyger b	ppt Kin Shing nt Tempera	ature,°C: Salinity, a	29 ppt b	Turbidity a	, NTU b	Date: Job No.: Fide State:	J429 Mid-Ebb Suspenc		05 - Is, mg/L Depth	Remarks
Date of Station MW1 S	Sampling: Time 16:20	Thermomete No. CV/2004/ 17/8/2005 Sea	or: 02 Recons Overall Depth, m	truction of W W Sampling Depth,m	EM EM /ong She eather C Tempera a	6167 6167 k and Ko ondition: ature, °C b	Lau Wa Raining Dissolve a	Calibrati n Public d Oxyge	on Check: Piers n, mg/L Average	Dissolve	35.4 Client: Ambier d Oxyger b	ppt <u>Kin Shing</u> nt Tempera n, % Average	ature,°C: Salinity, a	29 ppt b	Turbidity a 2.13	, NTU b	Date: Job No.: Tide State: Average	J429 Mid-Ebb Suspenc		05 Is, mg/L Depth Average	Remarks
Date of Station MW1 S MW1 M	Sampling: Time 16:20 16:23	Thermomete No. CV/2004/ 17/8/2005 Sea	or: 02 Recons Overall Depth, m	truction of W W Sampling Depth,m	EM EM /ong She eather C Tempera a 28.3	6167 6167 k and Ko ondition: ature, °C b 28.3	Lau Wa Raining Dissolve a 4.69	Calibrati n Public d Oxyge b 4.70	n, mg/L Average 4.70 4.69	Dissolve a 71.2	35.4 Client: Ambieu d Oxyger b 71.1	ppt Kin Shing nt Tempera n, % Average 71.2 71.7	ature,°C: Salinity, a 30.3	29 ppt b 30.3	Turbidity a 2.13	r, NTU b 2.15	Date: Job No.: Tide State: Average	J429 Mid-Ebb Suspend	24/8/200	05 Is, mg/L Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S	Sampling: Time 16:20 16:23 16:02	Thermomete No. CV/2004/ 17/8/2005 Sea	or: 02 Recons Overall Depth, m	truction of W W Sampling Depth,m 1 3	EM EM /ong She eather C Tempera a 28.3 28.2	6167 6167 k and Ko ondition: ature, °C b 28.3 28.3	Lau Wa Raining Dissolve a 4.69 4.69	Calibrati n Public d Oxyge b 4.70 4.69	n, mg/L Average	Dissolve a 71.2 71.7	35.4 Client: Ambieu b 71.1 71.7	ppt <u>Kin Shing</u> nt Tempera n, % Average 71.2	Salinity, a 30.3 31.8	29 ppt b 30.3 31.8	Turbidity a 2.13 2.70	r, NTU b 2.15 2.68	Date: Job No.: Tide State: Average	J429 Mid-Ebb Suspence 4	24/8/200	05 Is, mg/L Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M	Sampling: Time 16:20 16:23 16:02 16:05	Thermomete No. CV/2004/ 17/8/2005 Sea	r: 02 Recons Overall Depth, m 4	truction of W W Sampling Depth,m 1 3 1	EM EM /ong She eather C Tempera a 28.3 28.2 28.2 28.4	6167 6167 k and Ko ondition: ature, °C b 28.3 28.2 28.2 28.4	Lau Wa Raining Dissolve a 4.69 4.69 5.84	Calibrati n Public d Oxyge b 4.70 4.69 5.86	n, mg/L Average 4.70 4.69	Dissolve a 71.2 71.7 88.5	35.4 Client: Ambier b 71.1 71.7 88.9	ppt Kin Shing nt Tempera n, % Average 71.2 71.7	ature,°C: Salinity, a 30.3 31.8 30.2	29 ppt 30.3 31.8 30.2	Turbidity a 2.13 2.70 1.25	7, NTU b 2.15 2.68 1.28	Date: Job No.: Tide State: Average 2.42	J429 Mid-Ebb Suspence 4 8 7	24/8/200 ded Solid 4 8 5		Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M	Sampling: Time 16:20 16:23 16:02 16:05 16:08	Thermomete No. CV/2004/ 17/8/2005 Sea	r: 02 Recons Overall Depth, m 4	truction of W W Sampling Depth,m 1 3 1 4.5	EM EM /ong She eather C Tempera a 28.3 28.2 28.4 28.4 27.3	6167 6167 k and Ko ondition: ature, °C b 28.3 28.2 28.4 28.4 27.3	Lau Wa Raining Dissolve a 4.69 4.69 5.84 4.12	Calibrati n <u>Public</u> b 4.70 4.69 5.86 4.13	on Check: Piers Average 4.70 4.69 4.99 2.45	Dissolve a 71.2 71.7 88.5 64.2	35.4 Client: Ambieu d Oxygen b 71.1 71.7 88.9 62.6	ppt <u>Kin Shing</u> nt Tempera Average 71.2 71.7 76.1 37.7	ature, °C: Salinity, a 30.3 31.8 30.2 32.8	29 ppt 30.3 31.8 30.2 32.8	Turbidity a 2.13 2.70 1.25 1.99	7, NTU b 2.15 2.68 1.28 2.02	Date: Job No.: Tide State: Average 2.42	J429 Mid-Ebb Suspend 4 8 7 7	24/8/200 ded Solid 4 5 5 5		Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S	Sampling: Time 16:20 16:23 16:02 16:05 16:08	Thermomete No. CV/2004/ 17/8/2005 Sea	r: 02 Recons Overall Depth, m 4	truction of W W Sampling Depth,m 1 3 1 4.5 8	EM EM /ong She eather C Tempera a 28.3 28.2 28.4 27.3 26.0	6167 6167 k and Ko ondition: ature, °C b 28.3 28.2 28.4 27.3 26.0	Lau Wa Raining Dissolve a 4.69 4.69 5.84 4.12 2.49	Calibrati n Public d Oxyge b 4.70 4.69 5.86 4.13 2.40	n, mg/L Average 4.70 4.99	Dissolve a 71.2 71.7 88.5 64.2 37.8	35.4 Client: Ambier b 71.1 71.7 88.9 62.6 37.5	ppt <u>Kin Shing</u> nt Tempera n, % Average 71.2 71.7 76.1	ature, °C: Salinity, a 30.3 31.8 30.2 32.8 33.3	29 ppt b 30.3 31.8 30.2 32.8 33.3	Turbidity a 2.13 2.70 1.25 1.99 2.54	2.15 2.68 1.28 2.02 2.56	Date: Job No.: Tide State: Average 2.42	J429 Mid-Ebb Suspence 4 8 7 7 8	24/8/200		Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S	Sampling: Time 16:20 16:23 16:02 16:05 16:05 16:08 16:26	Thermomete No. CV/2004/ 17/8/2005 Sea	r: 02 Recons Overall Depth, m 4 9	truction of W W Sampling Depth,m 1 3 1 4.5 8	EM EM /ong She eather C Tempera a 28.3 28.2 28.4 27.3 26.0	6167 6167 k and Ko ondition: ature, °C b 28.3 28.2 28.4 27.3 26.0	Lau Wa Raining Dissolve a 4.69 4.69 5.84 4.12 2.49	Calibrati n Public d Oxyge b 4.70 4.69 5.86 4.13 2.40	on Check: Piers Average 4.70 4.69 4.99 2.45	Dissolve a 71.2 71.7 88.5 64.2 37.8	35.4 Client: Ambier b 71.1 71.7 88.9 62.6 37.5	ppt <u>Kin Shing</u> nt Tempera Average 71.2 71.7 76.1 37.7	ature, °C: Salinity, a 30.3 31.8 30.2 32.8 33.3	29 ppt b 30.3 31.8 30.2 32.8 33.3	Turbidity a 2.13 2.70 1.25 1.99 2.54	2.15 2.68 1.28 2.02 2.56	Date: Job No.: Tide State: 2.42 1.94	J429 Mid-Ebb Suspence 4 8 7 7 8	24/8/200	os is, mg/L Depth Average 6 7	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 M MW2 B CW1 S CW1 M	Sampling: Time 16:20 16:23 16:02 16:05 16:08 16:26 16:29	Thermomete No. CV/2004/ 17/8/2005 Sea	r: 02 Recons Overall Depth, m 4 9	truction of W W Sampling Depth,m 1 3 1 4.5 8 1	EM EM /ong She eather C Tempera a 28.3 28.2 28.4 27.3 26.0 28.2	6167 6167 k and Ko ondition: ature, °C b 28.3 28.2 28.4 27.3 26.0 28.3	Lau Wa Raining Dissolve a 4.69 4.69 5.84 4.12 2.49 4.92	Calibrati n Public d Oxyge b 4.70 4.69 5.86 4.13 2.40 4.90	on Check: Piers n, mg/L Average 4.70 4.69 4.99 2.45 4.91	Dissolve a 71.2 71.7 88.5 64.2 37.8 74.9	35.4 Client: Ambieu d Oxyger b 71.1 71.7 88.9 62.6 37.5 74.5	ppt <u>Kin Shing</u> nt Tempera <u>n, %</u> Average 71.2 71.7 76.1 37.7 74.7	ature, °C: Salinity, a 30.3 31.8 30.2 32.8 33.3 30.8	29 ppt b 30.3 31.8 30.2 32.8 33.3 30.8	Turbidity a 2.13 2.70 1.25 1.99 2.54 1.27	7, NTU b 2.15 2.68 1.28 2.02 2.56 1.24	Date: Job No.: Tide State: 2.42 1.94	J429 Mid-Ebb Suspence 4 8 7 7 8 6	24/8/200 ded Solid 4 8 5 5 9 9 5	os is, mg/L Depth Average 6 7	Remarks

EM 6167 100 100%: Equipment used: Dissolved Oxygen Meter: Calibration Check: Sampled By: Chow Kin Pong 10.1 NTU 2365 Raymond Dai Turbidity Meter: EM Calibration Check: Checked By: 24/8/2005 Salinity Meter: EM 6167 Calibration Check: 35.4 ppt Date: EM Thermometer: 6167

44.3

44.0

44.2

33.5

33.6

2.63

2.61

12

13

CW2 B

16:17

9

25.8

25.8

2.78

2.80

2.79

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 Weather Condition: Raining Ambient Temperature,°C: 27 Date of Sampling: 19/8/2005 Tide State: Mid-Flood Dissolved Oxygen, mg/L a b Average NTU Suspended Solids, mg/L tation Overall Sampling Turbidity Remarks īme lea empera issolv d Oxygen alinity, ppt b Depth Condition Depth, m Depth,m b b Average b Average а а а а Average MW1 S 16:25 27.6 27.6 4.30 4.32 64.7 64.8 31.5 31.5 0.89 0.87 5 7 1 4.27 64.3 MW1 M 16:28 5 2.5 27.0 27.0 4.24 4.22 63.7 64.0 32.0 32.1 1.45 1.44 1.49 4 5 5 MW1 B 4 26.6 4.08 2.15 4 16:33 26.6 4.08 4.08 62.2 62.2 62.2 32.1 32.1 2.16 6 MW2 S 16:35 1 27.6 5 27.6 5.97 6.00 90.0 90.5 31.9 31.9 1.42 1.41 3 5.72 86.5 10 MW2 M 16:37 5 27.0 27.1 5.45 5.44 82.8 82.6 32.2 32.2 1.80 1.78 1.77 9 7 6 MW2 B 16:39 9 26.3 26.3 5.14 5.16 78.8 78.2 32.4 32.4 2.13 5 5.15 78.5 2.10 8 CW1 S 16:20 1 27.6 27.6 3.89 3.82 59.0 59.2 31.7 31.8 1.51 1.47 4 5 3.86 59.1 CW1 M 4 1.81 6 CW1 B 16:23 3 27.3 27.3 3.57 3.58 3.58 54.8 54.6 54.7 32.3 32.3 2.11 2.13 7 7 4.77 CW2 S 16:44 29.0 27.1 4.76 72.3 72.3 31.9 31.9 1.27 1.26 3 4 1 4 69 71.2 CW2 M 16:47 11 5.5 26.3 26.3 4.60 4.62 69.9 70.2 32.2 32.2 1.78 1.76 1.88 18 13 10 CW2 B 16:50 25.4 25.3 4.44 4.44 67.6 67.6 32.3 32.3 2.61 2.59 9 10 4.43 67.6 14 Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100% Sampled By: Chow Kin Pong 10.1 NTU 2365 EM Turbidity Meter: Calibration Check: Checked By: Raymond Dai 35.5 ppt Salinity Meter: EM 6167 Calibration Check: 26/8/2005 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: 19/8/2005 Weather Condition: Raining Ambient Temperature,°C: 28 Tide State: Mid-Ebb Turbidity, NTU Station Time Overall Sampling Temperature, °C Dissolved Oxygen, mg/L Dissolved Oxygen, % Salinity, ppt Suspended Solids, mg/L Remarks Condition Depth, m Depth,m а b b Average а b Average а b b Average Depth а Average MW1 S 12:34 26.7 26.7 3.79 3.81 57.5 58.0 32.1 32.1 1.74 1.73 12 12 1 3.61 53.6 MW1 M 4 26.0 26.0 3 40 3.42 49.4 49.6 32.1 32.1 2 23 2 21 2.27 13 MW1 B 12:37 25.5 25.5 2.24 2.26 2.25 33.0 33.2 32.2 2.87 2.86 13 3 33.1 32.1 15 MW2 S 12:06 26.5 26.5 5.43 5.40 82.4 82.2 31.6 31.7 1.12 1.07 5 5 1 5.32 80.8 MW2 M 12:09 9 4.5 25.7 25.7 5.23 5.20 79.5 79.1 32.2 32.2 2.20 1.87 12 12 7 2.18 MW2 B 12:13 8 24.2 24.1 4 96 4 94 4.95 76.6 76.5 76.6 32.3 32.3 2 32 2 31 4 4 CW1 S 12:40 1 26.4 26.4 3.82 55.8 31.0 1.79 1.80 7 3.85 56.1 31.0 9 3.84 56.0 CW1 M 3 1.98 10 CW1 B 12:44 2 26.3 3.46 50.2 50.4 2.15 2.16 26.3 3.45 3.46 50.3 32.0 32.0 11 13

6167 Equipment used: Dissolved Oxygen Meter: EM Calibration Check: 100 100% Sampled By: Chow Kin Pong 10.1 NTU EM 2365 Calibration Check: Turbidity Meter: Checked By: Raymond Dai Salinity Meter: EM 6167 Calibration Check: 35.5 ppt 26/8/2005 Date: Thermometer: EM 6167

77.0

73.6

70.0

4.95

4.58

77.1

73.4

69.7

31.9

32.2

32.2

75.3

69.9

31.9

32.2

32.3

0.94

1.12

1.96

0.93

1.14

1.97

1.34

5

14

13

6

16

13

11

CW2 S

CW2 M

CW2 B

12:16

12:19

12:30

1

9

10

27.6

27.1

25.6

27.6

27.1

25.6

5.08

4.83

4.57

5.06

4.82

4.58

Project:	Contract	No. CV/2004/	02 Reconst	truction of W	/ong She	k and Ko	Lau Wa	n Public	Piers		Client:	Kin Shing	Construc	tion Co.	, Ltd.		Job No.:	J429			
-		23/8/2005			eather C							nt Tempera					Fide State:		od	_	
Station	Time	Sea	Overall	Sampling	Tempera	ature, ⁰C	Dissolve	d Oxvae	n ma/l	Dissolve	ed Oxyge	n %	Salinity,	nnt	Turbidity	NTU		Suspend	ded Solid	ts ma/l	Remarks
otation	Time	Condition	Depth, m	-	a	b	a	b	Average	a	b	Average	a	b	a	b	Average	ouspend		Depth Average	
MW1 S	8:46			1	27.8	27.8	5.20	5.21	5.01	78.0	78.1	75.4	28.0	28.0	0.89	0.92		17	19		
MW1 M	8:48		5	2.5	26.3	26.4	4.83	4.80		72.8	72.5		31.1	31.1	1.60	1.62	1.72	8	7	12	
MW1 B	8:51			4	25.9	25.9	3.42	3.44	3.43	53.1	53.4	53.3	31.9	31.9	2.62	2.64		10	11		
MW2 S	8:53	-		1	27.5	27.4	5.58	5.56	5.01	83.3	83.2	74.1	29.3	29.3	1.48	1.50		13	13		
MW2 M	8:55	-	10	5	26.8	26.8	4.42	4.47		64.7	65.0		30.9	30.9	1.57	1.60	1.62	8	6	10	
MW2 B	8:58			9	24.2	24.2	1.08	1.12	1.10	15.7	14.9	15.3	34.3	34.3	1.78	1.81		12	11		
CW1 S	8:40	-		1	28.2	28.2	4.85	4.86	4.86	73.1	73.2	73.2	27.6	27.6	2.14	2.16		10	9		
CW1 M		-	4														2.19			8	
CW1 B	8:43			3	27.3	27.3	4.35	4.37	4.36	65.2	65.1	65.2	31.1	31.1	2.21	2.24		6	5		
CW2 S	9:02	-		1	27.8	27.8	5.45	5.51	4.55	80.4	81.0	67.5	28.5	28.5	1.48	1.50	-	11	14		
CW2 M	9:06	-	11	5.5	27.4	27.4	3.61	3.63		54.1	54.5		32.4	32.4	2.33	2.35	2.12	11	12	12	
CW2 B	9:10			10	23.1	23.1	2.45	2.41	2.43	37.6	37.4	37.5	34.5	34.6	2.54	2.51		13	11		
Equipmen	nt used:	Dissolved O	kygen Mete	er:	EM	6167		Calibrati	ion Check:		100	100%:					Sampled	By:	Chow K	in Pong	
		Turbidity Met			EM	2365		Calibrati	ion Check:		10.1	NTU					Checked	By:	Raymor	nd Dai	-
		Salinity Mete	r:		EM	6167		Calibrati	ion Check:		35.4	ppt					Date:		30/8/20	05	
		Thermomete	r:		EM	6167															
						6167															
Project:		0.1/000.1/										1/1 OL -	<b>a</b>					1400			
		No. CV/2004/	02 Reconst	truction of W	/ong She	k and Ko		n Public	Piers			Kin Shing					Job No.:		-		
Date of	Sampling:	23/8/2005	02 Reconst	truction of W	/ong She eather Co	k and Ko	Sunny				Ambie	nt Temper	ature,°C:	33		1	Job No.: Fide State:	Mid-Ebb		-	h
			02 Reconst	truction of M W Sampling	/ong She eather Co	k and Ko	Sunny					nt Temper		33		1		Mid-Ebb	- o ded Solid	ds, mg/L Depth Average	Remarks
Date of	Sampling:	23/8/2005 Sea	02 Reconsi Overall	truction of M W Sampling	/ong She eather Co Tempera	k and Ko ondition: ature, °C	Sunny Dissolve	d Oxyge	n, mg/L Average	Dissolve	Ambie d Oxyge	nt Tempera n, % Average	ature,⁰C: Salinity,	33 ppt	Turbidity	, NTU	Fide State:	Mid-Ebb		Depth	Remarks
Date of Station	Sampling: Time	23/8/2005 Sea	02 Reconsi Overall	W Sampling Depth,m	/ong She eather Co Tempera a	k and Ko ondition: ature, °C b	Sunny Dissolve a	d Oxyge b	n, mg/L	Dissolve a	Ambie d Oxyge b	nt Tempera	ature,⁰C: Salinity, a	33 ppt b	Turbidity a	, NTU b	Fide State:	Mid-Ebb	ded Solid	Depth	Remarks
Date of Station MW1 S	Sampling: Time	23/8/2005 Sea	Overall Depth, m	W Sampling Depth,m	/ong She eather Co Tempera a	k and Ko ondition: ature, °C b	Sunny Dissolve a	d Oxyge b	n, mg/L Average	Dissolve a	Ambie d Oxyge b	nt Tempera n, % Average	ature,⁰C: Salinity, a	33 ppt b	Turbidity a	, NTU b	Fide State:	Mid-Ebb	ded Solid	Depth Average	Remarks
Date of Station MW1 S MW1 M	Sampling: Time 14:37	23/8/2005 Sea	Overall Depth, m	Sampling Depth,m	/ong She eather Co Tempera a 28.3	k and Ko ondition: ature, °C b 28.3	Sunny Dissolve a 5.31	d Oxyge b 5.32	n, mg/L Average 5.32 4.64	Dissolve a 79.9	Ambie b b 80.1	nt Temper Average 80.0 72.2	ature,°C: Salinity, a 28.0	33 ppt b 28.1	Turbidity a 1.16	7, NTU b 1.18	Fide State:	Mid-Ebb	10	Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B	Sampling: Time 14:37 14:40	23/8/2005 Sea	Overall Depth, m	Sampling Depth,m 1 3	/ong She eather Co Tempera a 28.3 27.3	k and Ko ondition: ature, °C b 28.3 27.4	Sunny Dissolve a 5.31 4.67	d Oxyge b 5.32 4.61	n, mg/L Average 5.32	Dissolve a 79.9 72.4	Ambie b 80.1 71.9	nt Tempera n, % Average 80.0	Salinity, a 28.0 30.7	33 ppt b 28.1 30.7	Turbidity a 1.16 1.57	, NTU b 1.18 1.58	Fide State:	Mid-Ebb Suspend 10 13	10 13	Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S	Sampling: Time 14:37 14:40 14:45	23/8/2005 Sea	Overall Depth, m 4	Sampling Depth,m 1 3 1	/ong She eather Co Tempera a 28.3 27.3 27.8	k and Ko ondition: ature, °C b 28.3 28.3 27.4 27.8	Sunny Dissolve a 5.31 4.67 5.76	d Oxyge b 5.32 4.61 5.77	n, mg/L Average 5.32 4.64	Dissolve a 79.9 72.4 85.9	Ambie d Oxyge b 80.1 71.9 86.1	nt Temper Average 80.0 72.2	ature,°C: Salinity, a 28.0 30.7 29.1	33 ppt b 28.1 30.7 29.1	Turbidity a 1.16 1.57 1.23	, NTU b 1.18 1.58 1.24	Average	Mid-Ebb Suspend 10 13 6	ded Solid 10 13 7	Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M	Sampling: Time 14:37 14:40 14:45 14:45	23/8/2005 Sea	Overall Depth, m 4	Sampling Depth,m 1 3 1 4.5	/ong She eather Co Tempera a 28.3 27.3 27.8 26.2	k and Ko ondition: ature, °C b 28.3 27.4 27.8 26.1	Sunny Dissolve a 5.31 4.67 5.76 3.62	d Oxyge b 5.32 4.61 5.77 3.64	n, mg/L Average 5.32 4.64 4.70	Dissolve a 79.9 72.4 85.9 56.3	Ambie b 80.1 71.9 86.1 56.0	nt Tempera n, % Average 80.0 72.2 71.1	ature, °C: Salinity, a 28.0 30.7 29.1 32.6	33 ppt b 28.1 30.7 29.1 32.6	Turbidity a 1.16 1.57 1.23 1.16	1.18 1.58 1.24 1.18	Average	Mid-Ebb	ded Solid 10 13 7 13	Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B	Sampling: Time 14:37 14:40 14:45 14:47 14:50	23/8/2005 Sea	Overall Depth, m 4	xuction of W W Sampling Depth,m 1 3 1 4.5 8	/ong She eather Co Tempera a 28.3 27.3 27.8 26.2 24.0	k and Ko ondition: ature, °C b 28.3 27.4 27.8 26.1 24.0	Sunny Dissolve a 5.31 4.67 5.76 3.62 1.46	d Oxyge b 5.32 4.61 5.77 3.64 1.47	n, mg/L Average 5.32 4.64 4.70 1.47	Dissolve a 79.9 72.4 85.9 56.3 21.1	Ambie d Oxyge b 80.1 71.9 86.1 56.0 21.2	nt Tempera Average 80.0 72.2 71.1 21.2	Salinity,         a         28.0         30.7         29.1         32.6         34.2	33 ppt b 28.1 30.7 29.1 32.6 24.2	Turbidity a 1.16 1.57 1.23 1.16 1.47	, NTU b 1.18 1.58 1.24 1.18 1.49	Average	Mid-Ebb Suspend 10 13 6 14 7	ded Solid           10           13           7           13           7           13           7	Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S	Sampling: Time 14:37 14:40 14:45 14:47 14:50	23/8/2005 Sea	Overall Depth, m 4 9	xuction of W W Sampling Depth,m 1 3 1 4.5 8	/ong She eather Co Tempera a 28.3 27.3 27.8 26.2 24.0	k and Ko ondition: ature, °C b 28.3 27.4 27.8 26.1 24.0	Sunny Dissolve a 5.31 4.67 5.76 3.62 1.46	d Oxyge b 5.32 4.61 5.77 3.64 1.47	n, mg/L Average 5.32 4.64 4.70 1.47	Dissolve a 79.9 72.4 85.9 56.3 21.1	Ambie d Oxyge b 80.1 71.9 86.1 56.0 21.2	nt Tempera Average 80.0 72.2 71.1 21.2	Salinity,         a         28.0         30.7         29.1         32.6         34.2	33 ppt b 28.1 30.7 29.1 32.6 24.2	Turbidity a 1.16 1.57 1.23 1.16 1.47	, NTU b 1.18 1.58 1.24 1.18 1.49	Average	Mid-Ebb Suspend 10 13 6 14 7	ded Solid           10           13           7           13           7           13           7	Depth Average 11 9	Remarks
Date of Station MW1 S MW1 M MW2 B MW2 M MW2 B CW1 S CW1 M	Sampling: Time 14:37 14:40 14:45 14:47 14:50 14:30	23/8/2005 Sea	Overall Depth, m 4 9	xuction of W W Sampling Depth,m 1 3 1 4.5 8 1	/ong She eather Co 28.3 27.3 27.8 26.2 24.0 28.7	k and Ko ondition: ature, °C b 28.3 27.4 27.8 26.1 24.0 28.7	Sunny Dissolve a 5.31 4.67 5.76 3.62 1.46 5.05	d Oxyge b 5.32 4.61 5.77 3.64 1.47 5.02	n, mg/L Average 5.32 4.64 4.70 1.47 5.04	Dissolve a 79.9 72.4 85.9 56.3 21.1 76.3	Ambie d Oxyge b 80.1 71.9 86.1 56.0 21.2 76.1	nt Tempera n, % Average 80.0 72.2 71.1 21.2 76.2	ature, °C: <u>Salinity</u> , a 28.0 30.7 29.1 32.6 34.2 27.5	33 ppt b 28.1 30.7 29.1 32.6 24.2 27.5	Turbidity a 1.16 1.57 1.23 1.16 1.47 2.16	NTU b 1.18 1.58 1.24 1.18 1.49 2.15	Average	Mid-Ebb Suspend 10 13 6 14 7 8	10 13 7 13 7 8	Depth Average 11 9	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S CW1 S CW1 B	Sampling: Time 14:37 14:40 14:40 14:45 14:45 14:50 14:30 14:35	23/8/2005 Sea	Overall Depth, m 4 9	truction of W W Sampling Depth,m 1 3 1 4.5 8 1 1 2	/ong She eather Cr 7 28.3 27.3 27.3 27.8 26.2 24.0 28.7 28.7	k and Ko ondition: b 28.3 27.4 27.4 27.8 26.1 24.0 28.7 28.7	Sunny Dissolve a 5.31 4.67 5.76 3.62 1.46 5.05 4.26	d Oxyge b 5.32 4.61 5.77 3.64 1.47 5.02 4.30	n, mg/L Average 5.32 4.64 4.70 1.47 5.04 4.28	Dissolve a 79.9 72.4 85.9 56.3 21.1 76.3 66.6	Ambie d Oxyge b 80.1 71.9 86.1 56.0 21.2 76.1 66.8	nt Tempera n, % Average 80.0 72.2 71.1 21.2 76.2 66.7	ature,°C: Salinity, a 28.0 30.7 29.1 32.6 34.2 27.5 31.1	33 ppt b 28.1 30.7 29.1 32.6 24.2 27.5 31.1	Turbidity a 1.16 1.57 1.23 1.16 1.47 2.16 2.52	NTU b 1.18 1.58 1.24 1.18 1.49 2.15 2.52	Average	Mid-Ebb Suspend 10 13 6 14 7 8 8 10	ded Solid           10           13           7           13           7           8           11	Depth Average 11 9	Remarks

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Chow Kin Pong
	Turbidity Meter:	EM	2365	Calibration Check:	10.1	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.4	ppt	Date:	30/8/2005
	Thermometer:	EM	6167					

Project:	Contract	No. CV/2004/	02 Recons	truction of V	Vong She	ek and Ko	Lau Wa	n Public	Piers		Client:	Kin Shing	Constru	ction Co.	, Ltd.		Job No.:	J429	_		
Date of	Sampling	25/8/2005		. w	eather C	ondition:	Cloudy				Ambie	nt Tempera	ature,⁰C:	31			Tide State:	Mid-Floo	bd	-	
Station	Time	Sea	Overall	Sampling		ature, °C					d Oxyge		Salinity,	<u> </u>	Turbidity	<u> </u>		Suspen	ded Solid		Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	10:30			1	27.9	27.9	5.41	5.45		80.4	80.9		27.3	27.3	1.57	1.53		17	20		
MW1 M	10:33		5	2.5	27.5	27.4	5.51	5.57	5.49	82.0	82.4	81.4	27.7	27.7	1.43	1.44	1.80	4	4	11	
MW1 B	10:36			4	27.1	27.1	5.36	5.37	5.37	80.6	80.4	80.5	27.7	27.2	2.40	2.41		13	10		
MW2 S	10:39			1	27.8	27.8	5.99	6.03	5.05	88.1	88.4	05.0	27.1	27.1	1.78	1.77		7	7		
MW2 M	10:42		11	5.5	27.0	27.0	5.27	5.30	5.65	82.7	83.0	85.6	28.2	28.2	2.36	2.34	2.18	13	14	11	
MW2 B	10:45			10	24.2	24.3	3.04	3.06	3.05	46.5	46.7	46.6	33.6	33.5	2.41	2.42		11	13		
CW1 S	10:21			1	27.9	27.9	6.77	6.79		99.5	99.9		27.3	27.4	2.29	2.24		6	8		
CW1 M		1	4						6.78			99.7					2.42			9	
CW1 B	10:25	1		3	27.1	27.1	5.10	5.08	5.09	75.5	75.2	75.4	27.7	27.7	2.58	2.57	1	11	10		
CW2 S	10:48			1	27.2	27.2	4.52	4.51	4.07	69.6	69.4	50.0	30.8	30.8	1.63	1.61		7	8		
CW2 M	10:51		10	5	26.0	26.0	4.02	4.01	4.27	49.6	49.7	59.6	30.3	30.3	2.11	2.09	1.99	6	5	12	
CW2 B	10:54			9	23.5	23.5	2.64	2.62	2.63	37.7	37.5	37.6	34.4	34.4	2.27	2.24		25	20		
		Turbidity Mer Salinity Mete Thermomete	er:		EM EM	2365 6167 6167			ion Check:		9.9 35.5	-					Checked Date:	By:	Raymor 1/9/2009		
		No. CV/2004/					) Lau Wa	n Public	Piers			Kin Shing				•	Job No.: Tide State:		- ,		
Station	Time	Sea	Overall	Sampling		ature, ⁰C	Dissolve				d Oxyge		Salinity,	<u> </u>	Turbidity		T	Suspen	ded Solid	_	Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	15:38			1	27.2	27.2	5.40	5.38	5.39	80.3	80.1	80.2	27.4	27.4	1.29	1.31		6	7		
MW1 M			4						0.00			55.2					1.53			9	
MW1 B	15:41			3	27.0	27.1	5.37	5.37	5.37	80.0	80.0	80.0	27.7	27.7	1.74	1.76		11	13		
MW2 S	15:44			1	27.9	27.8	6.58	6.56	6.48	96.8	96.6	95.9	27.0	27.1	1.50	1.49		16	13		
MW2 M	15:47		10	5	27.1	27.1	6.38	6.40	0.40	95.1	95.2	55.5	28.0	28.0	1.82	1.81	1.85	11	12	11	
MW2 B	15:50			9	23.3	23.3	2.36	2.38	2.37	33.3	33.5	33.4	34.2	34.2	2.25	2.24		6	7		
CW1 S	15:32			1	28.0	28.0	5.08	5.11	5.10	75.3	75.6	75.5	27.3	27.4	1.51	1.49		16	12		
CW1 M			3						5.10			10.0					1.45			11	
CW1 B	15:35			2	28.2	28.2	5.04	5.01	5.03	74.9	74.5	74.7	27.7	27.6	1.43	1.38		8	8		
CW2 S	15:53			1	27.6	27.7	5.17	5.20	5.24	76.7	76.2	78.7	27.1	27.1	1.45	1.47		18	18		

Equipment used:	Dissolved Oxygen Meter:	EM	6167	Calibration Check:	100	100%:	Sampled By:	Chow Kin Pong
	Turbidity Meter:	EM	2365	Calibration Check:	9.9	NTU	Checked By:	Raymond Dai
	Salinity Meter:	EM	6167	Calibration Check:	35.5	ppt	Date:	1/9/2005
	Thermometer:	EM	6167					

48.3

48.0

48.2

34.7

34.7

2.33

2.24

2.21

11

18

10

15

15

5.28

2.99

2.98

2.99

27.1

23.1

27.1

23.2

5.5

10

CW2 B

16:00

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: 27/8/2005 Weather Condition: Sunny Ambient Temperature,°C: 27 Tide State: Mid-Flood Dissolved Oxygen, mg/L a b Average NTU Suspended Solids, mg/L tation Overall Sampling Turbidity Remarks īme lea empera issolv d Oxygen alinity, ppt b Depth Condition Depth, m Depth,m b b Average b Average а а а а Average MW1 S 12:10 27.0 27.1 5.36 5.35 77.8 77.9 27.8 27.8 1.27 1.29 33 31 1 4.97 72.9 MW1 M 12:13 5 2.5 26.7 26.6 4.59 4.57 68.1 67.9 30.8 30.8 1.33 1.34 1.71 10 11 18 MW1 B 4 25.8 4.49 2.52 12:16 25.8 4.48 4.49 65.2 65.1 65.2 31.4 31.5 2.50 13 12 MW2 S 12:20 1 27.1 7 27.0 6.04 6.02 88.6 88.3 29.6 29.6 1.54 1.56 8 5.69 83.4 2.24 MW2 M 12:24 11 5.5 25.9 25.8 5.35 5.33 78.4 78.2 31.5 31.5 2.26 2.30 12 13 11 2.90 MW2 B 12:27 24.4 24.4 3.87 3.90 55.9 56.0 32.5 32.5 2.89 12 10 3.89 56.0 13 CW1 S 12:05 1 27.7 27.7 5.19 5.20 72.5 72.5 28.7 28.7 1.83 1.84 11 12 5.20 72.5 CW1 M 4 2.07 10 CW1 B 12:07 3 26.0 26.0 4.38 4.41 4.40 64.3 64.5 64.4 30.3 30.3 2.29 2.30 10 8 CW2 S 12:30 26.9 26.9 5.18 5.19 76.2 76.4 31.0 31.0 2.11 2.14 11 10 1 4.86 71.5 CW2 M 12:33 10 5 26.0 26.0 4.53 4.53 66.6 66.6 31.3 31.3 2.34 2.36 2.46 8 6 20 CW2 B 12:37 9 24.7 24.7 2.89 41.9 41.9 41.9 32.8 32.8 2.88 2.90 41 2.89 2.89 45 Equipment used: Dissolved Oxygen Meter: EM 6167 Calibration Check: 100 100% Sampled By: Chow Kin Pong 10.1 NTU 2365 EM Turbidity Meter: Calibration Check: Checked By: Raymond Dai Salinity Meter: EM 6167 Calibration Check: 34.5 ppt 3/9/2005 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: 27/8/2005 Weather Condition: Sunny Ambient Temperature,°C: 27 Tide State: Mid-Ebb Turbidity, NTU Station Time Overall Sampling Temperature, °C Dissolved Oxygen, mg/L Dissolved Oxygen, % Salinity, ppt Suspended Solids, mg/L Remarks Condition Depth, m Depth,m а b b Average а b Average а b b Average Depth а Average MW1 S 7:48 27.1 27.1 5.02 5.02 72.4 72.6 27.9 28.0 1.37 1.40 13 14 1 5.02 72.5 MW1 M 4 1.47 17 MW1 B 7:51 25.5 25.6 4.06 58.6 58.7 58.7 31.5 1.56 21 20 3 4.05 4.06 31.6 1.55 MW2 S 7:53 27.0 27.0 5.47 5.49 79.5 79.7 29.0 29.0 1.63 1.68 9 9 1 5.28 76.6 MW2 M 7:55 10 26.1 26.2 5.06 5.08 73.3 73.8 31.6 31.6 2.61 2.23 4 3 8 5 2.56 MW2 B 7:58 9 25.2 25.2 4 4 1 4 4 2 4.42 64 4 64.5 64.5 32.3 32.3 2.42 2 50 13 10 CW1 S 7:42 1 27.2 27.1 74.3 74.6 28.4 5.04 5.06 28.4 0.90 0.92 10 12 5.05 74.5 CW1 M 3 1.29 8 CW1 B 2 26.0 4.69 68.7 31.7 7:45 26.0 4.67 4.68 68.5 68.6 31.6 1.66 1.67 6 5 CW2 S 8:02 1 26.9 26.9 5.82 5.80 85.3 85.2 28.6 58.6 1.47 1.46 15 12 5.28 77.4 25.7 4.76 7 CW2 M 8:04 25.7 4.73 69.5 69.6 31.5 31.5 2.20 2.21 8 11 5.5 2.01 11

6167 Equipment used: Dissolved Oxygen Meter: EM Calibration Check: 100 100%: Sampled By: Chow Kin Pong 10.1 NTU EM 2365 Calibration Check: Turbidity Meter: Checked By: Raymond Dai 3/9/2005 Salinity Meter: EM 6167 Calibration Check: 34.5 ppt Date: Thermometer: EM 6167

51.5

51.7

51.6

24.7

10

24.8

3.55

3.57

3.56

CW2 B

8:06

32.7

32.7

2.35

2.36

11

13

i i ojeci.	Contract	No. CV/2004/	02 Reconst	truction of W	/ong She	k and Ko	Lau Wa	n Public	Piers		Client:	Kin Shing	Construe	ction Co.,	Ltd.		Job No.:	J429			
Date of	Sampling:	30/8/2005		w	eather Co	ondition:	Sunny				Ambie	nt Tempera	ature,°C:	31		1	ide State:	Mid-Floo	od		
ation	Time	Sea		Sampling			Dissolve				d Oxyge		Salinity,		Turbidity			Suspend	ded Solid		Remarks
		Condition	Depth, m	Depth,m	а	b	а	b	Average	а	b	Average	а	b	а	b	Average			Depth Average	
MW1 S	16:08			1	28.3	28.3	4.43	4.40	4.00	67.1	67.0		29.4	29.5	1.52	1.49		18	22		
MW1 M	16:10		5	2.5	27.3	27.4	4.37	4.36	4.39	65.4	65.2	66.2	31.4	31.4	2.30	2.27	2.17	12	12	22	
MW1 B	16:12			4	27.0	27.0	4.31	4.29	4.30	64.7	64.2	64.5	31.5	31.6	2.72	2.71		36	34		
MW2 S	16:15			1	27.6	27.6	5.43	5.46	E 40	81.7	81.9	80.6	30.7	30.7	1.28	1.30		22	28		
MW2 M	16:18		10	5	26.8	26.7	5.35	5.36	5.40	79.3	79.6	80.6	31.5	31.6	1.84	1.82	1.76	22	20	20	
MW2 B	16:22			9	26.5	26.5	4.97	4.98	4.98	76.7	76.6	76.7	31.6	31.6	2.16	2.15		12	14		
CW1 S	16:00			1	29.8	29.8	4.20	4.22	4.04	63.9	64.1	04.0	30.4	30.4	0.97	0.98		23	23		
CW1 M			4						4.21			64.0					1.22			24	
CW1 B	16:05			3	27.4	27.4	4.18	4.17	4.18	63.3	63.5	63.4	31.5	31.5	1.47	1.46		27	23		
CW2 S	16:25			1	27.9	27.9	5.19	5.20	E 4 E	77.6	78.5	76.9	30.5	30.5	0.92	0.89		9	10		
CW2 M	16:28		11	5.5	26.7	26.7	5.09	5.11	5.15	75.4	75.6	76.8	31.5	31.5	1.85	1.83	1.49	4	5	8	
CW2 B	16:34			10	26.2	26.3	4.27	4.30	4.29	67.8	67.5	67.7	31.7	31.7	1.73	1.70		10	12		
		Turbidity Me	tor																		
		Salinity Mete			EM	2365 6167			on Check: on Check:		10.1 34.5						Checked		Raymon 6-Sep-0		
			er:																		
Project:	Contract	Salinity Mete	er: er:		EM EM	6167 6167		Calibrati	on Check:		34.5		Construe	ction Co.,	Ltd.						
		Salinity Mete	or: or: 02 Reconsi	truction of W	EM EM	6167 6167 k and Ko	Lau Wa	Calibrati	on Check:		34.5 Client:	ppt					Date:	J429	6-Sep-0		
Date of		Salinity Mete Thermomete No. CV/2004/	er: 02 Reconsi	truction of W W Sampling	EM EM /ong She eather Ce	6167 6167 k and Ko ondition:	Lau Wa	Calibrati n Public	on Check: Piers		34.5 Client: Ambier	ppt <u>Kin Shing</u> nt Tempera		31		. 1	Date: Job No.:	J429 Mid-Ebb	6-Sep-0	5 s, mg/L Depth	Remarks
Date of	Sampling	Salinity Mete Thermomete No. CV/2004/ 30/8/2005	er: 02 Reconsi Overall	truction of W W Sampling	EM EM /ong She eather Co Tempera	6167 6167 k and Ko ondition: ature, °C	Lau Wa Sunny Dissolve	Calibrati n Public	on Check: Piers n, mg/L Average	Dissolve	34.5 Client: Ambier	ppt <u>Kin Shing</u> nt Tempera n, % Average	ature,°C: Salinity,	31 ppt	Turbidity	۲ , NTU	Date: Job No.: Fide State:	J429 Mid-Ebb	6-Sep-0	5 s, mg/L	Remarks
Date of Station MW1 S	Sampling: Time	Salinity Mete Thermomete No. CV/2004/ 30/8/2005	er: 02 Reconsi Overall	truction of W W Sampling Depth,m	EM EM /ong She eather Co Tempera a	6167 6167 k and Ko ondition: ature, °C b	Lau Wa Sunny Dissolve a	Calibrati n Public d Oxyger b	on Check: Piers	Dissolve a	34.5 Client: Ambieu d Oxygeu b	ppt Kin Shing nt Tempera	ature,⁰C: Salinity, a	31 ppt b	Turbidity a	r, NTU b	Date: Job No.: Fide State:	J429 Mid-Ebb Suspenc	6-Sep-0	5 s, mg/L Depth	Remarks
Date of Station MW1 S MW1 M	Sampling: Time 9:42	Salinity Mete Thermomete No. CV/2004/ 30/8/2005	r: 02 Reconst Overall Depth, m	truction of W W Sampling Depth,m	EM EM /ong She eather Co Tempera a	6167 6167 k and Ko ondition: ature, °C b	Lau Wa Sunny Dissolve a	Calibrati n Public d Oxyger b	on Check: Piers n, mg/L Average	Dissolve a	34.5 Client: Ambieu d Oxygeu b	ppt <u>Kin Shing</u> nt Tempera n, % Average	ature,⁰C: Salinity, a	31 ppt b	Turbidity a	r, NTU b	Date: Job No.: Tide State: Average	J429 Mid-Ebb Suspenc	6-Sep-0	5 s, mg/L Depth Average	Remarks
Date of Station MW1 S	Sampling: Time 9:42	Salinity Mete Thermomete No. CV/2004/ 30/8/2005	r: 02 Reconst Overall Depth, m	truction of W W Sampling Depth,m	EM EM /ong She eather Co Tempera a 28.1	6167 6167 k and Ko ondition: ature, °C b 28.1	Lau Wa Sunny Dissolve a 4.50	Calibrati n Public d Oxyge b 4.48	n, mg/L Average 4.49 4.47	Dissolve a 68.3	34.5 Client: Ambien b 68.0	ppt Kin Shing nt Tempera n, % Average 68.2 67.4	ature,⁰C: Salinity, a 29.3	31 ppt b 29.3	Turbidity a 1.26	r, NTU b 1.25	Date: Job No.: Tide State: Average	J429 Mid-Ebb Suspend	6-Sep-0	5 s, mg/L Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B	Sampling: Time 9:42 9:48 9:53	Salinity Mete Thermomete No. CV/2004/ 30/8/2005	r: 02 Reconst Overall Depth, m	truction of W W Sampling Depth,m 1 3	EM /ong She eather Co Tempera a 28.1 27.3	6167 6167 k and Ko ondition: ature, °C b 28.1 28.1	Lau Wa Sunny Dissolve a 4.50 4.46	Calibrati n Public d Oxyge b 4.48	n, mg/L Average	Dissolve a 68.3 67.3	34.5 Client: Ambieu b 68.0 67.5	ppt Kin Shing nt Tempera n, % Average 68.2	Salinity, a 29.3 31.4	31 ppt b 29.3 31.4	Turbidity a 1.26 1.75	r, NTU b 1.25 1.77	Date: Job No.: Tide State: Average	J429 Mid-Ebb Suspenc 15 44	6-Sep-0 Jed Solid	5 s, mg/L Depth Average	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S	Sampling: Time 9:42 9:48 9:53	Salinity Mete Thermomete No. CV/2004/ 30/8/2005	r: 02 Reconst Overall Depth, m 4	truction of W W Sampling Depth,m 1 3 1	EM EM /ong She eather Co Tempera a 28.1 27.3 27.2	6167 6167 k and Ko ondition: ature, °C b 28.1 27.3 27.2	Lau War Sunny Dissolve a 4.50 4.46 4.95	Calibrati n Public d Oxyge b 4.48 4.48 4.99	n, mg/L Average 4.49 4.47	Dissolve a 68.3 67.3 74.3	34.5 Client: Ambien b 68.0 67.5 74.2	ppt Kin Shing nt Tempera n, % Average 68.2 67.4	ature,°C: Salinity, a 29.3 31.4 31.2	31 ppt 29.3 31.4 31.2	Turbidity a 1.26 1.75 1.36	7, NTU b 1.25 1.77 1.36	Date: Job No.: Tide State: Average	J429 Mid-Ebb Suspence 15 44 15	6-Sep-0 ded Solid 17 45 12	5 s, mg/L Depth Average 30	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M	Sampling: Time 9:42 9:48 9:53 9:59	Salinity Mete Thermomete No. CV/2004/ 30/8/2005	r: 02 Reconst Overall Depth, m 4	truction of W W Sampling Depth,m 1 3 1 4.5	EM EM /ong She eather Co Tempera a 28.1 27.3 27.2 26.8	6167 6167 k and Ko ondition: ature, °C b 28.1 27.3 27.2 26.7	Lau War Sunny Dissolve a 4.50 4.46 4.95 4.90	Calibrati n <u>Public</u> b 4.48 4.99 4.92	n, mg/L Average 4.49 4.47 4.94 4.83	Dissolve a 68.3 67.3 74.3 73.1	34.5 Client: Ambiei b 68.0 67.5 74.2 73.3	ppt <u>Kin Shing</u> nt Tempera Average 68.2 67.4 73.7 72.4	ature, °C: Salinity, a 29.3 31.4 31.2 31.6	31 ppt 29.3 31.4 31.2 31.6	Turbidity a 1.26 1.75 1.36 2.04	1.25 1.25 1.77 1.36 2.05	Date: Job No.: Tide State: Average	J429 Mid-Ebb Suspenc 15 44 15 13	6-Sep-0 ded Solid 17 45 12 13	5 s, mg/L Depth Average 30	Remarks
Date of itation MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S	Sampling: Time 9:42 9:48 9:53 9:59 10:10	Salinity Mete Thermomete No. CV/2004/ 30/8/2005	r: 02 Reconst Overall Depth, m 4	truction of W W Sampling Depth,m 1 3 1 4.5 8	EM EM /ong She eather Cr 7 empera a 28.1 27.3 27.3 27.2 26.8 26.1	6167 6167 k and Ko ondition: ature, °C b 28.1 27.3 27.2 26.7 26.1	Lau War Sunny Dissolve a 4.50 4.46 4.95 4.90 4.85	Calibrati n Public d Oxyge b 4.48 4.48 4.99 4.92 4.81	n, mg/L Average 4.49 4.94	Dissolve a 68.3 67.3 74.3 73.1 72.6	34.5 Client: Ambiel b 68.0 67.5 74.2 73.3 72.1	ppt <u>Kin Shing</u> nt Tempera n, % Average 68.2 67.4 73.7	ature, °C: Salinity, a 29.3 31.4 31.2 31.6 31.7	31 ppt 29.3 31.4 31.2 31.6 31.7	Turbidity a 1.26 1.75 1.36 2.04 2.34	, NTU b 1.25 1.77 1.36 2.05 2.36	Date: Job No.: Tide State: Average	J429 Mid-Ebb Suspenc 15 44 15 13 25	6-Sep-0 jed Solid 17 45 12 13 20	5 s, mg/L Depth Average 30	Remarks
Date of Station MW1 S MW1 M MW1 B MW2 S MW2 M MW2 B CW1 S	Sampling: Time 9:42 9:48 9:53 9:59 10:10	Salinity Mete Thermomete No. CV/2004/ 30/8/2005	r: 02 Reconst Overall Depth, m 4 9	truction of W W Sampling Depth,m 1 3 1 4.5 8	EM EM /ong She eather Cr 7 empera a 28.1 27.3 27.3 27.2 26.8 26.1	6167 6167 k and Ko ondition: b 28.1 27.3 27.2 26.7 26.1	Lau War Sunny Dissolve a 4.50 4.46 4.95 4.90 4.85	Calibrati n Public d Oxyge b 4.48 4.48 4.99 4.92 4.81	n, mg/L Average 4.49 4.47 4.94 4.83	Dissolve a 68.3 67.3 74.3 73.1 72.6	34.5 Client: Ambiel b 68.0 67.5 74.2 73.3 72.1	ppt <u>Kin Shing</u> nt Tempera Average 68.2 67.4 73.7 72.4	ature, °C: Salinity, a 29.3 31.4 31.2 31.6 31.7	31 ppt 29.3 31.4 31.2 31.6 31.7	Turbidity a 1.26 1.75 1.36 2.04 2.34	, NTU b 1.25 1.77 1.36 2.05 2.36	Date: Job No.: Tide State: 1.51 1.92	J429 Mid-Ebb Suspenc 15 44 15 13 25	6-Sep-0 jed Solid 17 45 12 13 20	5 s, mg/L Depth Average 30	Remarks
Date of Station MW1 S MW1 M MW2 S MW2 M MW2 B CW1 S CW1 M	Sampling: Time 9:42 9:48 9:53 9:59 10:10 9:30 9:30 9:37	Salinity Mete Thermomete No. CV/2004/ 30/8/2005	r: 02 Reconst Overall Depth, m 4 9	truction of W W Sampling Depth,m 1 3 1 4.5 8 1	EM EM /ong She eather C Tempera a 28.1 27.3 27.3 27.2 26.8 26.1 27.4	6167 6167 k and Ko ondition: ature, °C b 28.1 27.3 27.2 26.7 26.1 27.5	Lau War Sunny Dissolve a 4.50 4.46 4.95 4.90 4.85 4.04	Calibrati n Public d Oxyge b 4.48 4.99 4.92 4.81 4.06	on Check: Piers n, mg/L Average 4.49 4.47 4.94 4.83 4.05	Dissolve a 68.3 67.3 74.3 73.1 72.6 61.0	34.5 Client: Ambiel b 68.0 67.5 74.2 73.3 72.1 61.0	ppt <u>Kin Shing</u> nt Tempera <u>n, %</u> Average 68.2 67.4 73.7 72.4 61.0	ature, °C: Salinity, a 29.3 31.4 31.2 31.6 31.7 31.0	31 ppt b 29.3 31.4 31.2 31.6 31.7 31.1	Turbidity a 1.26 1.75 1.36 2.04 2.34 1.05	7, NTU b 1.25 1.77 1.36 2.05 2.36 1.04	Date: Job No.: Tide State: 1.51 1.92	J429 Mid-Ebb Suspence 15 44 15 13 25 12	6-Sep-0 Jed Solid 17 12 13 20 11	5 s, mg/L Depth Average 30	Remarks

6167 100 100%: Equipment used: Dissolved Oxygen Meter: EM Calibration Check: Sampled By: Chow Kin Pong 2365 10.1 NTU Raymond Dai Turbidity Meter: EM Calibration Check: Checked By: 6-Sep-05 EM 6167 Calibration Check: 34.5 ppt Salinity Meter: Date: EM Thermometer: 6167

43.5

43.2

43.4

31.1

32.1

1.51

1.49

13

10

CW2 B

10:25

9

26.1

26.1

2.95

2.93

2.94



Appendix E

Monitoring Schedule - Upcoming month

## CEDD Construction No. CV/2004/02 Reconstruction of Wong Shek and Ko Lau Wan Public Piers Water Quality Monitoring Schedule Environmental Monitoring Schedule Revised September 2005

Sunday	Monday	Tuesday		Wednesday	7	Thursday	Friday		Saturday
						1		2	3
						WQM <sup>3</sup>			WQM <sup>3</sup>
						(Ebb: 11:16)			(Ebb: 12:29)
						(Flood: 18:12)			(Flood: 19:00)
4		5	6		7	8		9	10
	WQM <sup>3</sup>			WQM <sup>3</sup>			WQM <sup>3</sup>		
	(Ebb: 13:34)			(Ebb: 14:39)			(Ebb: 15:47)		
	(Flood: 19:50)			(Flood: 8:43)			(Flood: 9:53)		
11	1	2	13		14	15		16	17
		WQM <sup>3</sup>				WQM <sup>3</sup>			WQM <sup>3</sup>
		(Ebb: 8:49)				(Ebb: 9:42)			(Ebb: 11:42)
		(Flood: 16:42)				(Flood: 17:10)			(Flood: 18:18)
18	1	)	20		21	22		23	24
		WQM <sup>3</sup>				WQM <sup>3</sup>			WQM <sup>3</sup>
		(Ebb: 13:12)				(Ebb: 8:32)			(Ebb: 15:30)
		(Flood: 19:29)				(Flood: 14:29)			(Flood: 10:03)
25	2	5	27		28	29		30	
	WQM <sup>3</sup>			WQM <sup>3</sup>			WQM <sup>3</sup>		
	(Ebb: 8:03)			(Ebb: 8:58)			(Ebb: 10:36)		
	(Flood: 16:29)			(Flood: 17:09)			(Flood: 17:29)		

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))