

Chun Wo Construction &  
Engineering Co Ltd

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**Contract No HY/2005/06**  
**Castle Peak Road**  
**Improvement – West of**  
**Tsing Lung Tau**

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Monthly Environmental  
Monitoring and Audit  
Report for Reclamation  
Works (EP No EP-  
219/2005)  
July 2006

**Second Issue**

Chun Wo Construction &  
Engineering Co Ltd

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Monthly Environmental  
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July 2006

August 2006

**Ove Arup & Partners Hong Kong Ltd**

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This report takes into account the particular  
instructions and requirements of our client.  
It is not intended for and should not be relied  
upon by any third party and no responsibility  
is undertaken to any third party

Job number 24583

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Your Ref.: --

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By Fax (2417 0134) and PostMeinhardt Halcrow JV  
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421 Queen's Road West,  
Hong KongAttn : Mr. Jeff S K Yu

11 August 2006

Dear Sir,

**Contract No. HY/2005/06****Castle Peak Road Improvement – West of Tsing Lung Tau****Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – July 2006**

We refer to the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – July 2006 received via emails on 9 August 2006 from Ove Arup & Partners Hong Kong Ltd., the Environmental Team (ET) of Castle Peak Road Improvement – West of Tsing Lung Tau (Remaining Contract).

Having addressed the IEC's comment on 10 August 2006, the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – July 2006 is verified to be acceptable for onward submission to the Engineer, HyD, EPD and AFCD.

Should you have any inquiry or comment, please do not hesitate to contact the undersigned or our Miss Connie Wong at 3105 8530.

Yours faithfully  
for and on behalf of  
**Maunsell Environmental  
Management Consultants Ltd**



**Y T Tang**  
Independent Environmental Checker

cc MHJV - Mr. Simon Illingworth (Fax: 2559 1613)  
Arup - Mr. Sam Tsui / Mr. Fredrick Leong (Fax: 2268 3950)

Job title Contract No HY/2005/06 Castle Peak Road Improvement – West of Tsing Lung Tau Job number 24583

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## Contents

	Page
Executive Summary	i
1 Introduction	1
1.1 Project Background	1
1.2 Project Organisation	2
1.3 Impact EM&A Requirements	4
1.4 Purpose of the Report	4
2 Scope of Construction Works	4
2.1 Construction Programme	4
2.2 Construction Activities of the Month	4
3 Summary of EM&A Requirements	4
3.1 Construction Noise	4
3.2 Marine Water Quality	6
3.3 Performance Limits and Event and Action Plan	7
3.4 Site Inspection and Environmental Complaint Handling	13
4 Noise Monitoring	16
4.1 Monitoring Equipment	16
4.2 Methodology	16
4.3 Results and Observations	16
5 Marine Water Quality Monitoring	17
5.1 Marine Water Quality Monitoring Equipment	17
5.2 Methodology	17
5.3 Results and Observations	18
6 Site Inspection, Waste Disposal, environmental complaints, environmental licenses and non-compliance records	24
6.1 Site Audit Findings	24
6.2 Waste Disposal	25
6.3 Complaint Record	26
6.4 Exceedance	26
6.5 Notification of Summons and Successful Prosecution	27
6.6 Environmental Licenses	27
7 Conclusions	27
8 References	28

## **Tables**

- Table 3-1: Construction noise monitoring parameters and frequency  
Table 3-2: Construction noise monitoring locations  
Table 3-3: Marine water quality monitoring locations  
Table 3-4: Action and Limit Levels of construction noise  
Table 3-5: Event and Action Plan for construction noise  
Table 3-6: Action and Limit Levels of marine water quality established in Baseline Monitoring Report #  
Table 3-7: Marine water quality data obtained in the baseline check on 27 February 2006  
Table 3-8: Event-Action plan for marine water quality  
Table 5-1: Equipment list for construction noise monitoring  
Table 5-1: Marine water quality monitoring equipment  
Table 6-1: Findings of weekly environmental site audit in July 2006  
Table 6-2: Waste disposal quantity in July 2006  
Table 6-3: Summary of exceedances of marine water quality monitoring not related to construction works of the Project in July 2006  
Table 6-4: Summary of valid environmental licences in July 2006

## **Figures**

- Figure 1-1: Site location plan  
Figure 1-2: Project organisation chart  
Figure 3-1: Noise monitoring station  
Figure 3-2: Marine water quality monitoring locations  
Figure 3-3: Complaint procedure  
Figure 5-1: DO levels (surface and middle level) at mid-ebb tide in July 2006  
Figure 5-2: DO levels (bottom level) at mid-ebb tide in July 2006  
Figure 5-3: DO levels (surface and middle level) at mid-flood tide in July 2006  
Figure 5-4: DO levels (bottom level) at mid-flood tide in July 2006  
Figure 5-5: Turbidity levels at mid-ebb tide in July 2006  
Figure 5-6: Turbidity levels at mid-flood tide in July 2006  
Figure 5-7: SS levels at mid-ebb tide in July 2006  
Figure 5-8: SS levels at mid-flood tide in July 2006

## **Appendices**

- Appendix A Construction programme  
Appendix B Monitoring schedule for July and August 2006  
Appendix C Calibration certificates of marine monitoring equipment  
Appendix D Marine water quality monitoring results

## Executive Summary

This is the fifth monthly environmental monitoring and audit (EM&A) report presenting the progress of environmental monitoring and audit works for the reporting period between 1 July 2006 and 31 July 2006. Noise monitoring at Grand Bay Villa was temporarily suspended as the premises were vacant with no resident. Marine water monitoring and weekly environmental site audit were carried out during the reporting period.

### **Marine Water Quality**

Impact marine water quality monitoring was conducted during mid-ebb and mid-flood tidal cycles at 10 designated locations including 5 impact and 5 control stations. A baseline check was conducted on 27 February 2006 prior to the commencement of marine works and a compliance checking mechanism was established in accordance with the criteria specified in Baseline Monitoring Report.

#### **Summary of Mid-Ebb Tide**

The lowest DO level for surface & middle position was 5.63 mg/L at WWA1 on 31 July 2006 and the lowest DO level for bottom position was 5.42 mg/L at WWFCZ1 and WWA1 on 10 July 2006 and 31 July 2006 respectively. There were no exceedances of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 10.2 Nephelometric Turbidity Unit (NTU) at WWA2 on 19 July 2006. There were 1 exceedance of Tby Baseline Check Criteria, 3 exceedances of Tby Action Level and 4 exceedances of Tby Limit Level at WWA1, WWA2 and WWA3 on 19, 21 and 24 July 2006 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 15.7 mg/L at WWFCZ2 on 10 July 2006. There was 1 exceedance of SS Baseline Check Criteria at WWA1 on 28 July 2006 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

#### **Summary of Mid-Flood Tide**

The lowest DO level for surface & middle position was 5.67 mg/L at WWA3 and WWFCZ1 on 14 July 2006 and 31 July 2006 respectively and the lowest DO level for bottom position was 5.42 at WWA2 and WWA1 on 14 July 2006 and 19 July 2006 respectively. There were no exceedances of DO levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 6.4 NTU at WWA1 on 28 July 2006. There were no exceedances of Tby Levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 16.2 mg/L at WWA1 on 3 July 2006. There were no exceedances of SS Levels during the reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

### **Environmental Auditing**

A total of 4 environmental site audits were conducted on a weekly basis in July 2006. No non-conformance to the environmental requirements was identified during the reporting period. The improvement actions against observations during the site audits for the CT included:

**Air quality:** Regular watering on exposed slopes and excavated materials;

**Water quality:** Frequent clearing of mud trails and stagnant water; provision of treatment of groundwater before discharging; and

**Waste management:** Frequent clearing of construction waste and general refuse

### **Waste Disposal**

A total of 12 tonnes of Construction & Demolition (C&D) waste and a total of 2,238 tonnes of C&D materials (transported by trucks) were disposed of at WENT Landfill and Public Filling Reception Facility at Tuen Mun Area 38 respectively in July 2006. No chemical waste was disposed of during the reporting period.

### **Complaint Records**

No environmental complaint was received during the reporting period.

### **Exceedance**

There were exceedances of Tby and SS levels for marine water quality in July 2006 when compared with A/L Levels and baseline check criteria.

No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations on 19, 21 and 24 July 2006 by ET's field staff. The exceedances of Tby were only marginal to the Baseline Check Criteria, Action and Limit Levels at WWA1, WWA2 and WWA3. In addition, there were no exceedances of SS levels, which were relatively low (4.1 - 12.2 mg/L), on the same stations on the same day. Hence, the exceedances were unlikely due to the construction works of the Project.

Similarly, no muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations on 28 July 2006 by ET's field staff. The exceedance of SS at WWA1 was only marginal to the Baseline Check Criteria. In addition, there was no exceedance of Tby level, which was relatively low (3.4 NTU), on the same station on the same day. Hence, the exceedance was unlikely due to the construction works of the Project.

Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.

### **Notification of Summons and Successful Prosecution**

No notification of summon and prosecution was received during the reporting period.

### **Environmental Licences**

There was no environmental licence granted during the reporting period.



# 1 Introduction

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by the Contractor (CT) – Chun Wo Construction & Engineering Co. Ltd as the Environmental Team (ET) for *Contract No. HY/2005/06 Castle Peak Road Improvements – West of Tsing Lung Tau* (hereafter called the “Project”). The reclamation at west of Tsing Lung Tau is covered by an Environmental Permit (EP) No. EP-219/2005 issued in June 2005 with reference to Section 6 of the Technical Memorandum on Environmental Impact Assessment Ordinance (TM-EIAO). The EP was issued following the approval of the application to apply directly for an EP based upon the Project Profile. In accordance with the EM&A Manual, environmental monitoring for construction noise and marine water quality will be required during the construction and operational phases. The construction phase of the Project commenced on 28 February 2006.

## 1.1 Project Background

The Castle Peak Road (CPR) Improvement works consist of upgrading the existing CPR to provide a dual two-lane carriageway of “Rural Road A” classification between Area 2 (Tusen Wan) and Ka Loon Tsuen. The CPR Improvement project is divided into three contracts, namely HY/99/18 (West Contract), HY/99/19 (Middle Contract) and HY/2000/02 (East Contract).

Prior to inviting tenders for Contract No. HY/99/18, a section of the proposed works, between Ch.1+800 and Ch.2+240, west of Tsing Lung Tau, was excised from the Project and entrusted to the Route 10 – North Lantau to Yuen Long Highway project. This 440m long section of CPR was located under the proposed Route 10 suspension bridge, and was to form part of the works area for the Route 10 project. The Route 10 project team revised the alignment of this section of CPR accordingly to suit the arrangement of the Route 10 suspension bridge.

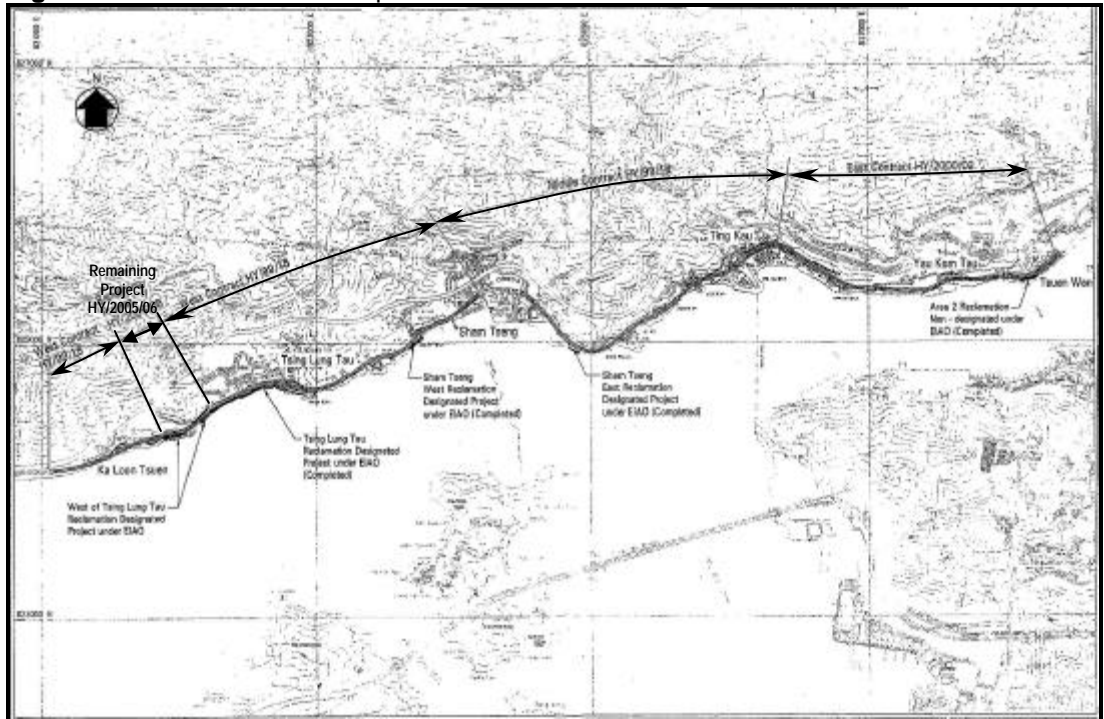
Following subsequent developments, the Route 10 project was placed under review, and Government therefore decided to implement the excised section of CPR (the Remaining Project) under the original CPR Improvement project. **Figure 1-1** shows the site location plan.

Additional reclamation (0.58 ha) at west of Tsing Lung Tau is required to support part of the remaining section of road improvement works and the additional reclamation works constitutes a material change to the reclamation works at Tsing Lung Tau.

The scope of the construction works covered by this Project is summarised as follows:

- The area of reclamation to the east of Grand Bay Villa is about 0.12 ha. The length of this part of the reclamation, measured parallel to the road, is about 107 m, and the maximum width, measured from the existing High Water Mark (HWM) to the proposed toe of the scour apron is about 16 m, of which about 13 m is sloping revetment;
- The area of reclamation west of Grand Bay Villa is about 0.46 ha. The length of this part of the reclamation, measured parallel to the road, is about 172 m, and the maximum width, measured from the existing High Water Mark (HWM) to the proposed toe of the scour apron is about 38 m, of which about 15 m is sloping revetment.

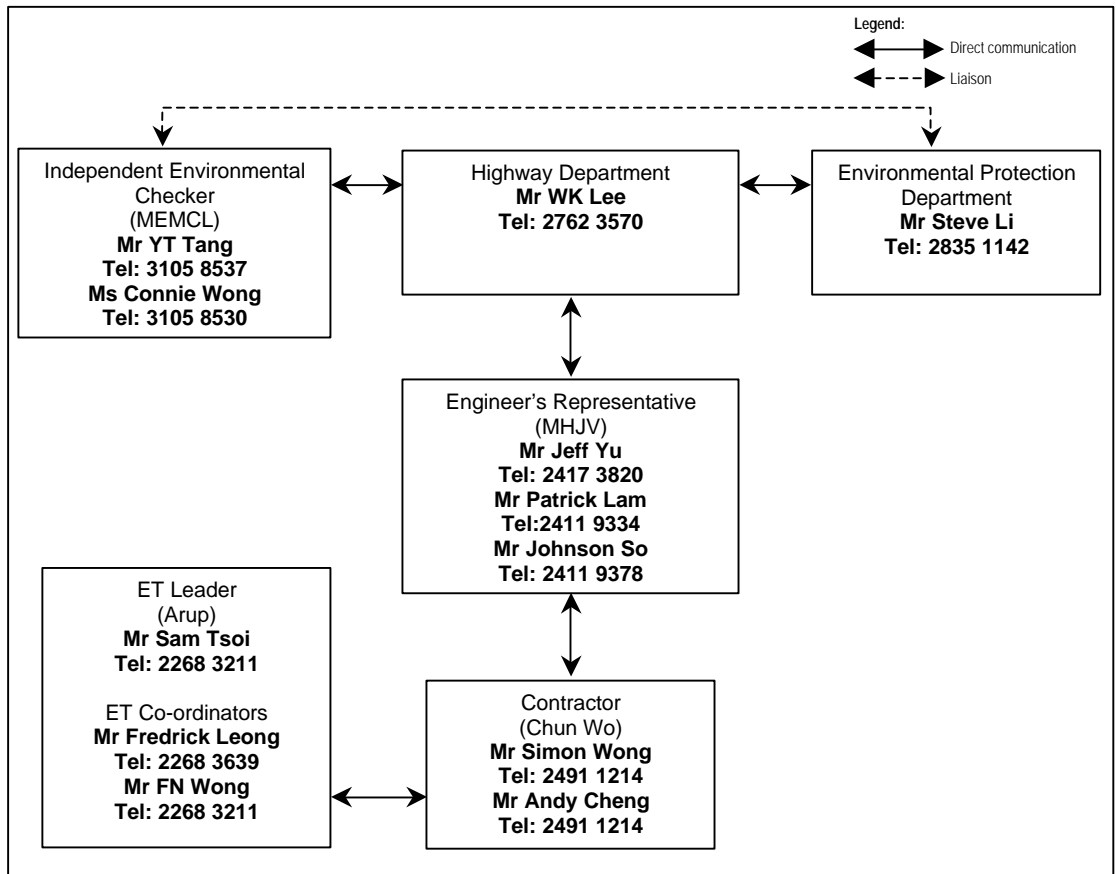
**Figure 1-1:** Site location plan



**1.2 Project Organisation**

The project organisation chart for environmental management is shown in **Figure 1.2**.

**Figure 1-2:** Project organisation chart



The Project Proponent is Highway Department; the Engineer's Representative (ER) is Meinhardt Halcrow Joint Venture (MHJV); the Contractor (CT) is Chun Wo Construction & Engineering Co. Ltd; the Independent Environmental Checker (IEC) is Maunsell Environmental Management Consultants Ltd (MEMCL) and the ET leader is Ove Arup & Partners Hong Kong Ltd (Arup).

The overall duties of ET Leader and the team are as follows:

- sampling, analysis and statistical evaluation of monitoring parameters with reference to the EIA study and subsequent reviews recommendations and requirements in respect of noise, dust and water quality;
- environmental site surveillance;
- audit of compliance with environmental protection and pollution prevention and control regulations;
- monitor the implementation of environmental mitigation measures;
- monitor compliance with the environmental protection clauses/specifications in the Contract;
- review construction programme and comment as necessary;
- review construction methodology and comment as necessary;
- complaint investigation, evaluation and identification of corrective measures;
- audit of the effectiveness of mitigation measures and EMS (if applicable) and recommend and implement any changes as appropriate.
- liaison with IEC on all environmental performance matters;
- advice to the CT on environmental improvement, awareness, enhancement matter, etc., on site; and
- Timely submission of the EM&A reports to the ER, IEC and DEP.

The duties of IEC include the followings:

- review and audit all aspects of the EM&A programme;
- validate and confirm the accuracy of monitoring results, monitoring equipment, monitoring locations, monitoring procedures and locations of sensitive receivers;
- carry out random sample check and audit on monitoring data and sampling procedures, etc;
- conduct random site inspection;
- audit the EIA, subsequent reviews and Environmental Permit recommendations and requirements against the status of implementation of environmental protection measures on site.
- review the effectiveness of environmental mitigation measures and project environmental performance;
- audit the CT's construction methodology and agree the least impact alternative in consultation with ET Leader and the CT;
- check compliant cases and the effectiveness of corrective measures;
- review EM&A report submitted by the ET Leader; and
- feedback audit results to ET Leader by signing off relevant EM&A proformas.

### 1.3 Impact EM&A Requirements

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The impact environmental monitoring and audit for the Project included noise, marine water quality and environmental site audit.

### 1.4 Purpose of the Report

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The purpose of the monthly EM&A report is to provide the information on monitoring methodology, monitoring results, environmental permit status, site audit findings, recommendations and conclusions for the scope of impact EM&A specified under EP No. EP-219/2005.

This is the fifth monthly EM&A report summarising the monitoring methodology, locations, periods, frequencies, results and any observation from the noise, marine water quality and environmental site audit from 1 July 2006 to 31 July 2006.

## 2 Scope of Construction Works

### 2.1 Construction Programme

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The construction work was commenced on 28 February 2006. An up-to-date construction programme is attached in **Appendix A**.

### 2.2 Construction Activities of the Month

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The major construction activities carried out by CT in July 2006 included:

- Placement of armour rock and construction of lower RC retaining wall at Seawall A; and
- Construction of RC retaining wall at Seawall B.

## 3 Summary of EM&A Requirements

Marine water quality and noise monitoring at Grand Bay Villa will be conducted by an ET at all specified monitoring locations during the construction stage. Environmental site audits will also be carried out.

The monitoring schedule for July 2006 and the tentative schedule for August 2006 are attached in **Appendix B**.

### 3.1 Construction Noise

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#### 3.1.1 Monitoring Parameters

Construction noise monitoring will be measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).  $L_{10}$  and  $L_{90}$  will also be recorded as supplementary reference information for data auditing.

#### 3.1.2 Monitoring Frequency

Noise measurements will be conducted on a weekly basis. The monitoring time periods, monitoring parameters and frequency are summarised in **Table 3-1**.

**Table 3-1:** Construction noise monitoring parameters and frequency

Time Period (when construction activity is found)	Parameters	Monitoring Frequency	No. of Measurements for Each Monitoring
Between 0700-1900 hours on normal weekdays	$L_{eq}(30 \text{ min})$	Once per week	1
Between 1900-2300 hours on normal weekdays	$L_{eq}(5 \text{ min})^*$		3 (consecutive)
Between 2300-0700 hours of next day			
Between 0700-1900 hours on holidays			

\* The  $L_{eq}(5 \text{ min})$  will only be measured if construction activities are conducted in holidays and between the period of 1900 and 0700 hours during normal weekdays.

3.1.3 Monitoring Location

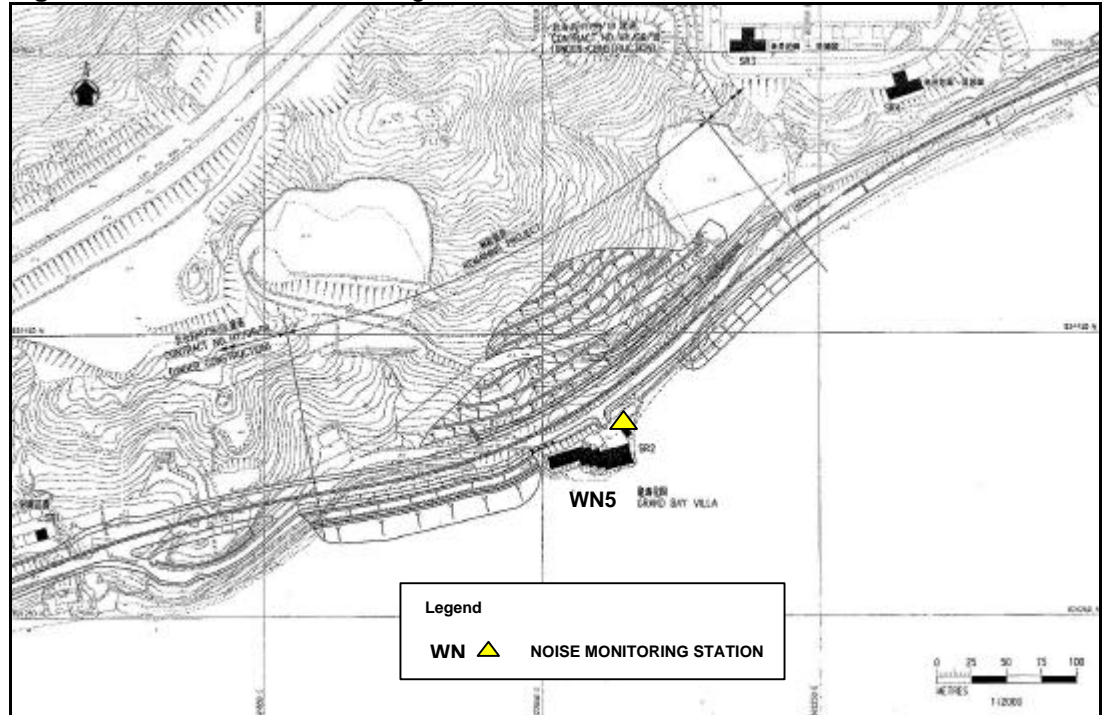
Noise monitoring will be conducted at one designated location as shown in **Figure 3-1**. The details of the noise monitoring location are given in **Table 3-2**. The measurements will be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

**Table 3-2:** Construction noise monitoring locations

Noise Monitoring Station No.	Location	Monitoring Point	Remarks
WN5	Grand Bay Villa	G/F, House 1	Monitoring temporarily suspended *

\* Grand Bay Villa is currently vacant with no resident. Construction noise monitoring at WN5 temporarily suspended until the premises are occupied.

**Figure 3-1:** Noise monitoring station



## 3.2 Marine Water Quality

### 3.2.1 Monitoring Parameters

Marine water quality monitoring will include Turbidity (Tby) in the unit of NTU, Dissolved Oxygen (DO) in the unit of mg/L and Suspended Solids (SS) in the unit of mg/L. In addition to the water quality parameters, other relevant data such as monitoring location/position, time, water depth, water temperature, salinity, DO saturation, weather conditions, sea conditions, tidal stage will be recorded as far as practicable together with observations of any special phenomena, works underway at the construction site, etc.

### 3.2.2 Monitoring Frequency

Impact marine water quality monitoring will be conducted three times per week, at mid-flood and mid-ebb tides and at 10 designated monitoring locations. The interval between two sets of monitoring will not be less than 36 hours.

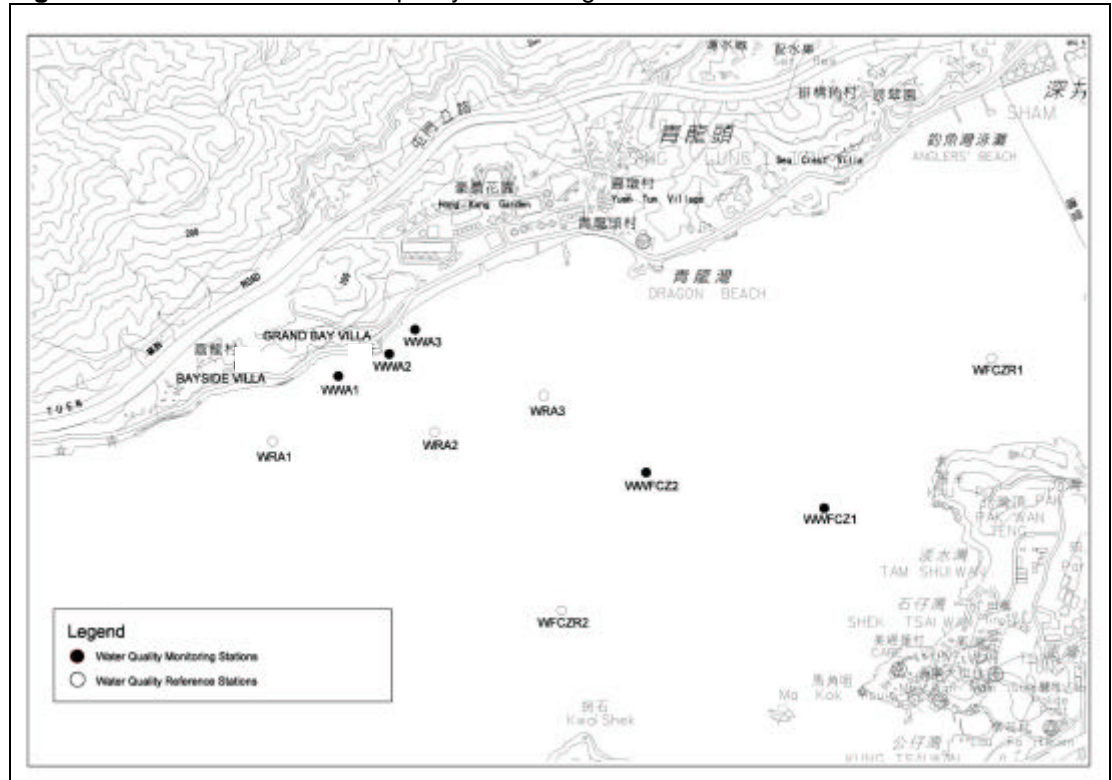
### 3.2.3 Monitoring Locations

A total of 10 locations, 5 for impact and 5 for control were specified for marine water quality monitoring in accordance with the EM&A Manual, which are summarised in **Table 3-3** and shown in **Figure 3-2**.

**Table 3-3: Marine water quality monitoring locations**

Marine Water Quality Monitoring Location No.		Location	
		Eastings	Northings
West of Grand Bay Villa	WWA1 (Impact Location)	821981	824282
	WRA1 (Control Location)	821776	824078
Grand Bay Villa	WWA2 (Impact Location)	822141	824352
	WRA2 (Control Location)	822283	824107
East of Grand Bay Villa	WWA3 (Impact Location)	822222	824429
	WRA3 (Control Location)	822625	824222
Ma Wan Fish Culture Zone	WWFCZ1 (Impact Location)	823500	823870
	WWFCZ2 (Impact Location)	822943	823983
	WFCZR1 (Control Location)	824024	824333
	WFCZR2 (Control Location)	822677	823547

**Figure 3-2:** Marine water quality monitoring locations



**3.3 Performance Limits and Event and Action Plan**

The monitoring results will be checked against appropriate standards and requirements. A two-tier system performance limits have been established in the Project specific EM&A Manual. The “Action Level” and the “Limit Level” (A/L) are established according to the EPD requirements. The ET, ER, IEC, and CT will take corresponding action in accordance with the Event-Action Plans if the monitoring results exceed the performance limits.

**3.3.1 Construction Noise**

The A/L Levels for the construction noise have been established during the baseline monitoring as summarised in **Table 3-4**.

**Table 3-4:** Action and Limit Levels of construction noise

Time Period	Action Level	Limit Level
0700 - 1900 hours on any day not being a Sunday or public holiday	When one documented complaint is received	75dB(A)

The action required to be taken by different parties in the case of exceedance of A/L Levels are summarised in the Event and Action Plan in **Table 3-5**.

**Table 3-5: Event and Action Plan for construction noise**

Event	Action			
	ET Leader	IEC	ER	CT
Action Level	<ol style="list-style-type: none"> <li>1. Notify IEC and the CT.</li> <li>2. Carry out investigation.</li> <li>3. Report the results of investigation to the IEC and the CT.</li> <li>4. Discuss with the CT and formulate remedial measures.</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Review with the analysed results submitted by ET.</li> <li>2. Review the proposed remedial measures by the CT and advise ER accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing.</li> <li>2. Notify the CT.</li> <li>3. Require the CT to propose remedial measures for the analysed noise problem.</li> <li>4. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IEC.</li> <li>2. Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol style="list-style-type: none"> <li>1. Notify the IEC, the ER, the DEP and the CT.</li> <li>2. Identify the source.</li> <li>3. Repeat measurement to confirm findings.</li> <li>4. Increase monitoring frequency.</li> <li>5. Carry out analysis of CT's working procedures to determine possible mitigation to be implemented.</li> <li>6. Inform the IEC, the ER, and the DEP the causes &amp; actions taken for the exceedances.</li> <li>7. Assess effectiveness of the CT's remedial actions and keep the IEC, the DEP and the ER informed of the results.</li> <li>8. If exceedance stops, cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst the ER, the ET Leader and the CT on the potential remedial actions.</li> <li>2. Review the CT's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing.</li> <li>2. Notify the CT.</li> <li>3. Require the CT to propose remedial measures for the analysed noise problem.</li> <li>4. Ensure remedial measures are properly implemented.</li> <li>5. If exceedance continues, consider what activity of the work is responsible and instruct the CT to stop that activity of work until the exceedance is abated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance.</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>3. Implement the agreed proposals.</li> <li>4. Resubmit proposals if problem still not under control.</li> <li>5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.</li> </ol>



### 3.3.2 Marine Water Quality

Based on the baseline water quality monitoring data obtained. The A/L levels established using the baseline marine water quality monitoring data are shown in **Table 3-6**. If the water quality monitoring results at any impact stations exceeded the criteria, the actions in accordance with the Event-Action Plan in **Table 3-8** should be carried out.

As the baseline monitoring was conducted in September to October 2005, the established A/L Levels will be more representative to the marine water quality during summer months. To cope with any potential variation of baseline levels due to change in weather conditions, baseline check will be conducted in bi-annual basis in order to update any variation of the baseline water quality at the monitoring locations.

The first baseline check was conducted on 27 February 2006 prior to the commencement of marine works and the updated marine water quality monitoring data were summarised in **Table 3-7**. Compliance assessment for future impact monitoring data will be made against the updated baseline check criteria as follows:

- Tier 1 - Comparison of water quality monitoring data at Impact Stations with the A/L Levels (**Table 3-6**) established in the Baseline Monitoring Report. If the data comply with A/L Levels, go to Tier 2. Otherwise, non-compliance will be reported and Event and Action Plan will be triggered.
- Tier 2 - Comparison of water quality monitoring data at Impact Stations with the Baseline Check Level (80% of average values of baseline check data collected at 10 monitoring locations for DO and 120% of average values of baseline check data collected at 10 monitoring locations for Tby and SS) (**Table 3-7**). If the impact water quality is better than Baseline Check Level, compliance will be reported. Otherwise, go to Tier 3.
- Tier 3 - Comparison of water quality monitoring data at Impact Stations with the respective Control Stations. If the impact water quality is better than the respective Control Station, compliance will be reported. Otherwise, non-compliance will be reported and Event-Action Plan will be triggered for implementation of action based on exceedance of Action Level.

**Table 3-6:** Action and Limit Levels of marine water quality established in Baseline Monitoring Report #

Parameters		Monitoring locations									
		WWA1		WWA2		WWA3		WWFCZ1		WWFCZ2	
		Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
<b>Mid-ebb</b>											
DO (mg/L)	Surface & middle	3.5	3.5	3.5	3.4	3.4	3.3	5.0 *	5.0	5.0 *	5.0
	Bottom	3.4	3.4	3.4	3.3	3.4	3.2	3.7	2.0	3.6	2.0
Tby (NTU)		7.4	7.7	6.7	6.9	7.8	8.3	6.4	8.6	6.7	7.0
SS (mg/L)		25.3	26.0	22.2	23.1	24.6	25.2	26.3	30.3	22.6	22.9
<b>Mid-flood</b>											
DO (mg/L)	Surface & middle	3.3	3.3	3.4	3.3	3.5	3.3	5.0 *	5.0	5.0 *	5.0
	Bottom	3.2	3.2	3.2	3.2	3.2	3.2	3.3	2.0	3.5	2.0
Tby (NTU)		6.9	7.2	7.6	8.2	8.7	10.7	7.4	11.0	5.9	6.5
SS (mg/L)		24.1	24.3	23.5	23.6	22.3	23.5	24.4	25.8	27.4	28.0

Notes:

# Action and Limit Level for marine water quality were extracted from Baseline Monitoring Report, April 2006.

\* Based on the criteria in Table 4-6 of Baseline Monitoring Report, the originally established action levels of DO for fish culture zone at surface & middle level were all below the 5.0 mg/L.

**Table 3-7:** Marine water quality data obtained in the baseline check on 27 February 2006

Parameters		Monitoring locations				
		WWA1	WWA2	WWA3	WWFCZ1	WWFCZ2
<b>Mid-ebb</b>						
DO (mg/L)	Surface & middle	5.4	5.4	5.4	5.4	5.4
	Bottom	5.4	5.4	5.4	5.4	5.4
Tby (NTU)		6.5	6.5	6.5	6.5	6.5
SS (mg/L)		13.0	13.0	13.0	13.0	13.0
<b>Mid-flood</b>						
DO (mg/L)	Surface & middle	5.3	5.3	5.3	5.3	5.3
	Bottom	5.3	5.3	5.3	5.3	5.3
Tby (NTU)		6.6	6.6	6.6	6.6	6.6
SS (mg/L)		17.0	17.0	17.0	17.0	17.0

**Table 3-8: Event-Action plan for marine water quality**

Event	Action			
	ET Leader	IEC	ER	CT
<b>Action Level</b>				
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> <li>Repeat in-situ measurement to confirm findings.</li> <li>Identify source(s) of impact.</li> <li>Inform the IEC and the CT.</li> <li>Check monitoring data, all plant, equipment and the CT's working methods.</li> <li>Discuss mitigation measures with the IEC and the CT.</li> <li>Repeat measurement on next day of exceedance.</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with the ET Leader and the CT on the mitigation measures.</li> <li>Review proposals on mitigation measures submitted by the CT and advised the ER accordingly.</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with the IEC on the proposed mitigation measures.</li> <li>Make agreement on the mitigation measures to be implemented.</li> </ol>	<ol style="list-style-type: none"> <li>Inform the ER and confirm notification of the non-compliance in writing.</li> <li>Rectify unacceptable practice.</li> <li>Check all plants and equipment.</li> <li>Consider changes of working methods.</li> <li>Discuss with the ET Leader and the IEC and propose mitigation measures to the IEC and the ER.</li> <li>Implement the agreed mitigation measures.</li> </ol>
Action level being exceeded by more than one consecutive days	<ol style="list-style-type: none"> <li>Repeat in-situ measurement to confirm findings.</li> <li>Identify source(s) of impact.</li> <li>Inform the IEC and the CT.</li> <li>Check monitoring data, all plant, equipment and the CT's working methods.</li> <li>Discuss mitigation measures with the IEC and the CT.</li> <li>Ensure mitigation measures are implemented.</li> <li>Prepare to increase the monitoring frequency to daily.</li> <li>Repeat measurement on next day of exceedance.</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with the ET Leader and the CT on the mitigation measures.</li> <li>Review proposals on mitigation measures submitted by the CT and advised the ER accordingly.</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with IEC on the proposed mitigation measures.</li> <li>Make agreement on the mitigation measures to be implemented.</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>Inform the ER and confirm notification of the non-compliance in writing.</li> <li>Rectify unacceptable practice.</li> <li>Check all plants and equipment.</li> <li>Consider changes of working methods.</li> <li>Discuss with the ET Leader and the IEC and propose mitigation measures to the IEC and the ER within 3 working days.</li> <li>Implement the agreed mitigation measures.</li> </ol>
<b>Limit Level</b>				
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> <li>Repeat in-situ measurement to confirm findings.</li> <li>Identify source(s) of impact.</li> <li>Inform the IEC, the CT and the DEP.</li> <li>Check monitoring data, all plant, equipment and the CT's working methods.</li> <li>Discuss mitigation measures with the IEC, the ER and the CT.</li> <li>Ensure mitigation measures are implemented.</li> <li>Increase the monitoring frequency to daily until no exceedance of the Limit Level.</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with the ET Leader and the CT on the mitigation measures.</li> <li>Review proposals on mitigation measures submitted by the CT and advised the ER accordingly.</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with IEC, the ET Leader and the CT on the proposed mitigation measures.</li> <li>Request the CT to critically review the working methods.</li> <li>Make agreement on the mitigation measures to be implemented.</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>Inform the ER and confirm notification of the non-compliance in writing.</li> <li>Rectify unacceptable practice.</li> <li>Check all plants and equipment.</li> <li>Consider changes of working methods.</li> <li>Discuss with the ET Leader, the IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days.</li> <li>Implement the agreed mitigation measures.</li> </ol>
Limit level being exceeded by more than one consecutive days	<ol style="list-style-type: none"> <li>Repeat in-situ measurement to confirm findings.</li> <li>Identify source(s) of impact.</li> <li>Inform the IEC, the CT and the DEP.</li> <li>Check monitoring data, all plant, equipment and the CT's working methods.</li> <li>Discuss mitigation measures with the IEC, the ER and the CT.</li> <li>Ensure mitigation measures are implemented.</li> <li>Increase the monitoring frequency to daily until no exceedance of the Limit Level for two consecutive days.</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with the ET Leader and the CT on the mitigation measures.</li> <li>Review proposals on mitigation measures submitted by the CT and advised the ER accordingly.</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>Discuss with IEC, the ET Leader and the CT on the proposed mitigation measures.</li> <li>Request the CT to critically review the working methods.</li> <li>Make agreement on the mitigation measures to be implemented.</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> <li>Consider and instruct, if necessary, the CT to slow down or to stop all or part of the marine work until no exceedance of Limit Level.</li> </ol>	<ol style="list-style-type: none"> <li>Inform the ER and confirm notification of the non-compliance in writing.</li> <li>Rectify unacceptable practice.</li> <li>Check all plants and equipment.</li> <li>Consider changes of working methods.</li> <li>Discuss with the ET Leader, the IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days.</li> <li>Implement the agreed mitigation measures.</li> <li>As directed by the ER, slow down or stop all or part of the construction activities.</li> </ol>

### 3.4 Site Inspection and Environmental Complaint Handling

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#### 3.4.1 Site Inspection Frequency and Areas Covered

Regular site inspections will be carried out on a weekly basis. The areas of inspection cover the different environmental impacts, such as air, noise, water and waste, and their pollution controls and mitigation measures for both within and outside the site area.

*Ad hoc* site inspection will be carried out if significant environmental non-compliance is identified. Inspections may also be carried out subsequent to receipt of any environmental complaints, or as part of the investigation work, as specified in the Event and Action Plans.

#### 3.4.2 Site Inspection Procedures

- a) The CT and/or ER will advise the Environmental Auditor (EA) of the ET for all information on any environmental related aspects.
- b) The EA will discuss with the CT and/or ER to sort out and forecast any potential environmental impact.
- c) The EA will conduct a site walk with the CT and/or ER, particularly the areas with extensive construction works.
- d) The EA will conduct inspection for the main environmental facilities and measures such as wheel washing facilities located at site exits, water spraying truck, temporary noise barrier, and internal noise-reducing measures of the heavy equipment etc, to ensure that these environmental facilities operate normally and effectively.
- e) The EA will fill up a site inspection checklist during the site inspection for recording any special observations.
- f) The EA will conduct post-discussion with the CT and/or ER for the establishment of additional/special measures if any non-conformance is found. The completion date for such additional measures will be confirmed during the post-discussion.
- g) The EA will propose a reasonable timeframe together with the CT and/or ER, for the preparation of the proposal for remediation of environmental non-compliance.
- h) The completed site inspection checklist will be signed by the EA, the CT and/or ER, for reference and for taking action in accordance with the agreed procedures, reporting systems and time frame.

#### 3.4.3 Environmental Complaints

A 24-hour complaint hotline at 6277 7465 has been established for the Project. In accordance with the EM&A Manual, environmental complaints will be referred to the ET for initiation of the complaint investigation procedures. The ET will undertake the following procedures upon receipt of complaints:

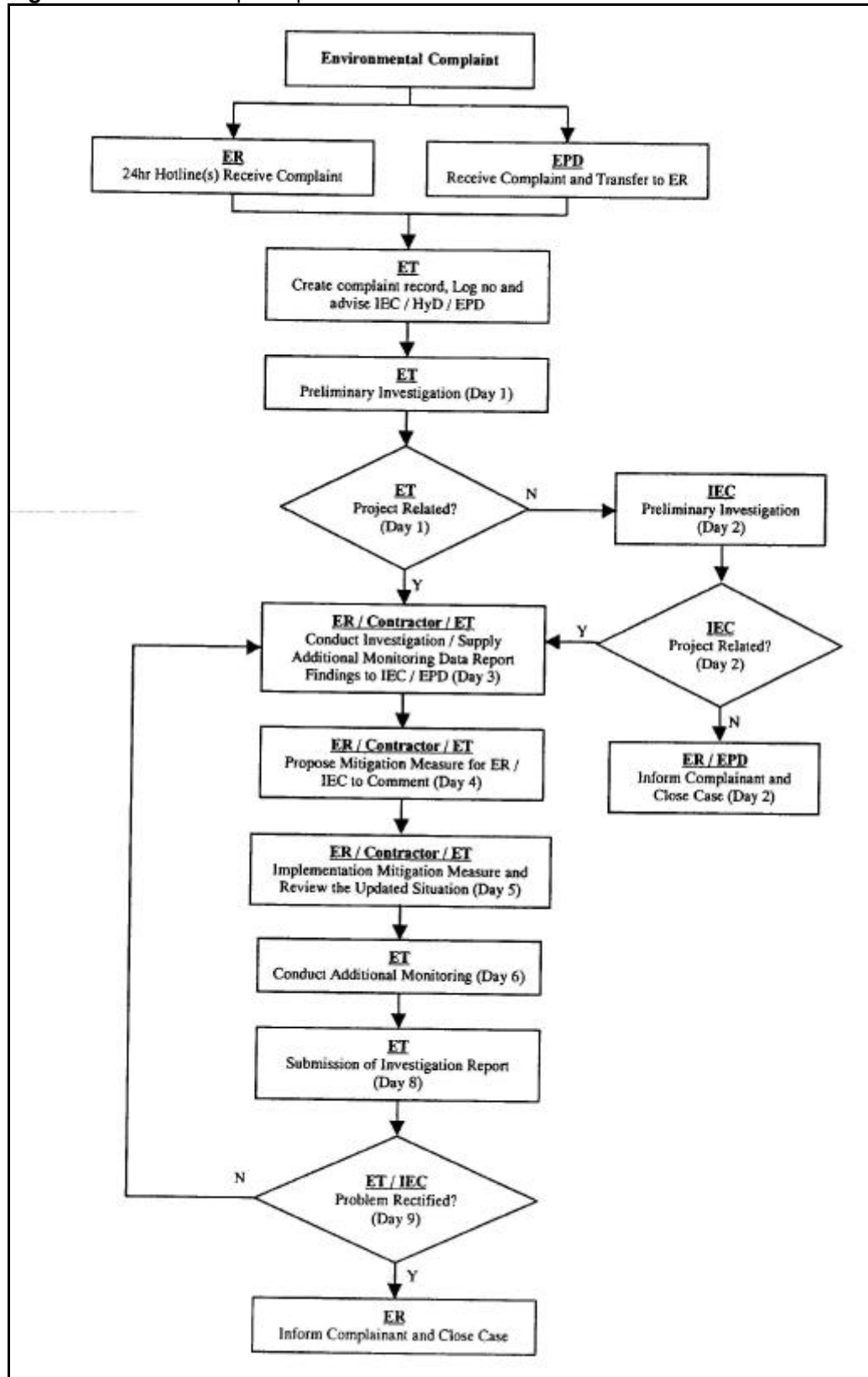
- a) The ET will record the details of the complaint and the date of receipt into the complaint database, and inform ER immediately.
- b) The ET will perform compliant investigation to determine its validity and to assess whether the source of the problem is due to work activities.
- c) The ER will instruct the CT to identify mitigation measures in consultation with the ET, if the compliant is valid and due to works.
- d) The ET will liaise with the CT on their mitigation measure proposals and implementation, if required.

- e) The ET will conduct review of the CT's response on the identified mitigation measures, and of the updated situation.
- f) The ET will submit interim report to EPD if the complaint is received via EPD. The interim report will clearly state the status of the complaint investigation and the follow-up action within the time frame assigned by EPD.
- g) The ET will undertake additional monitoring and audit to verify the situation if necessary, and ensure that any valid reason for complaint does not recur.
- h) The ET will report on the investigation results and the subsequent actions to the source of complaint for responding to the complainant. If the source of complaint is via EPD, the results will be reported within the time frame assigned by EPD.
- i) The ET will record the details of the complaint, investigation, subsequent actions and results in the monthly EM&A report.

During the complaint investigation work undertaken by the ET, the CT and ER should cooperate with the ET on providing all the necessary information and assistance for completion of the investigation. If mitigation measures are identified as necessary after the investigation, the CT should promptly carry out the required mitigation to the satisfaction of ET. The ER should ensure that the CT has carried out such identified measures.

A flow chart of the complaint response procedures is shown in **Figure 3-3** for reference.

**Figure 3-3:** Complaint procedure



## 4 Noise Monitoring

### 4.1 Monitoring Equipment

Details of the integrating sound level meters used in the noise monitoring are shown in **Table 5-1**.

**Table 5-1:** Equipment list for construction noise monitoring

Equipment	Manufacturer & Model No.	Precision Grade	Qty.
Integrating sound level meter	Rion NA-27	IEC 651 Type 1 IEC 804 Type 1	1
Windshield	Briel & Kjaer UA0237		1
Acoustical calibrator	Briel & Kjaer 4226		1
LCD wind speed indicator	Kestrel Vane Anemometer	--	1

### 4.2 Methodology

#### 4.2.1 Occupancy Status of Grand Bay Villa

The property management company of Grand Bay Villa (WN5) will be coordinated a monthly basis within 10 working days of each month to confirm the occupancy status of these premises. Once this location is confirmed occupied, noise monitoring will be resumed within 1 week.

#### 4.2.2 Field Measurement

- The sound level meter and battery were checked to ensure that they were in proper condition.
- The sound level meter was set on a tripod at 1.2m above ground and at 1m from the exterior of the building façade.
- Before conducting the measurement, the sound level meter was calibrated by an acoustical calibrator.
- The measurement parameter was set to A-weighted sound pressure level. The time weighting was set in fast response and the time period of measurement at 30 minutes.
- The wind speed was checked during noise monitoring to ensure the steady wind speed did not exceed 5m/s, or wind with gusts did not exceed 10m/s.
- Any abnormal conditions that generated intrusive noise during the measurement were recorded on the field record sheet.
- After each measurement, the equivalent continuous sound pressure level ( $L_{eq}$ ),  $L_{10}$  and  $L_{90}$  were recorded on the field record sheet.
- The sound level meter was re-calibrated by the acoustical calibrator to confirm that there was no significant drift of reading.

#### 4.2.3 Equipment Maintenance and Calibration

All sound level meters comply with the standards of IEC 651 (Fast, Slow, Impulse RMS detector tests) and IEC 804 ( $L_{eq}$  functions). The acoustical calibrator model no. 4226 complies with IEC 942.

### 4.3 Results and Observations

#### 4.3.1 Occupancy Status of Grand Bay Villa

In the reporting period, Grand Bay Villa (WN5) was vacant with no resident and noise monitoring was temporarily suspended.



## 5 Marine Water Quality Monitoring

### 5.1 Marine Water Quality Monitoring Equipment

Monitoring of Turbidity (Tby) in NTU, Dissolved Oxygen (DO) in mg/L and Suspended Solids (SS) in mg/L was carried to ensure that any deteriorating water quality would be readily detected and timely action would be taken to rectify the situation. Tby and DO were measured in-situ while SS was determined in the laboratory. A list of the marine water quality monitoring equipment is summarised in **Table 5-1**.

**Table 5-1:** Marine water quality monitoring equipment

Equipment	Manufacturer & Model No.	Qty
Handheld DO, Temperature & Salinity Meter	YSI Model 85	1
pH meter	Hanna	1
Turbidimeter	HACH 2100P	1

### 5.2 Methodology

#### 5.2.1 DO, Temperature and Salinity Measuring Equipment

The equipment to measure DO, temperature and salinity complied with the following:

- i. The instrument was a portable, weatherproof dissolved oxygen measuring instrument complete with cable and used a DC power source. It was capable of measuring:
  - A dissolved oxygen level in the range of 0-20 mg/L and 0-200% saturation;
  - A temperature of 0-45°C; and
  - A salinity level in the range of 0-40 ppt.
- ii. It had a membrane electrode with automatic temperature compensation complete with a cable.

#### 5.2.2 Tby Measurement Instrument

The instrument was a portable, weatherproof turbidity-measuring instrument complete with comprehensive operations manual. The equipment used a DC power source. It had a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and was complete with a cable.

#### 5.2.3 SS

The following equipment was used to monitor the SS:

- i. A water sampler comprised a transparent PVC cylinder, with a capacity of not less than 2 litres and which can be effectively sealed with latex cups at both ends. The sampler had a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was at the selected water depth.
- ii. Water samples for SS measurement were collected in high density polythene bottles, packed in ice (cooled at 4°C without being frozen) and delivered to the laboratory as soon as possible after collection.

#### 5.2.4 Water Depth Detector

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring.

### 5.2.5 Location of the Monitoring Site

A hand-held Global Positioning System (GPS) was used during monitoring to ensure the monitoring vessel was at the correct location before taking measurements.

### 5.2.6 Calibration and Accuracy of Instrumentation

All *in-situ* monitoring instruments were checked, calibrated and certified by a HOKLAS accredited laboratory or any other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Response of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before measurement at each monitoring location. The calibration certificates are attached in **Appendix C**. For the on site calibration of field equipment, the BS 1427:1993, "Guide to Field and on-site test methods for the analysis of waters" was followed.

## 5.3 Results and Observations

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### 5.3.1 Weather Conditions and Other Factors

No adverse weather conditions were recorded during the reporting period.

### 5.3.2 Summary of Results

Impact marine water quality monitoring was undertaken during mid-ebb and mid-flood tidal cycles at 10 designated locations including 5 impact and 5 control stations. A baseline check was conducted on 27 February 2006 prior to the commencement of marine works and a compliance checking mechanism was established in accordance with the Baseline Monitoring Report. Detailed water quality monitoring results are given in **Appendix D**. Graphical presentation of the monitoring results are illustrated in **Figures 5-1 to 5-8**.

### Summary of Mid-Ebb Tide

The lowest DO level for surface & middle position was 5.63 mg/L at WWA1 on 31 July 2006 and the lowest DO level for bottom position was 5.42 mg/L at WWFCZ1 and WWA1 on 10 July 2006 and 31 July 2006 respectively. There were no exceedances of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 10.2 Nephelometric Turbidity Unit (NTU) at WWA2 on 19 July 2006. There were 1 exceedance of Tby Baseline Check Criteria, 3 exceedances of Tby Action Level and 4 exceedances of Tby Limit Level at WWA1, WWA2 and WWA3 on 19, 21 and 24 July 2006 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 15.7 mg/L at WWFCZ2 on 10 July 2006. There was 1 exceedance of SS Baseline Check Criteria at WWA1 on 28 July 2006 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

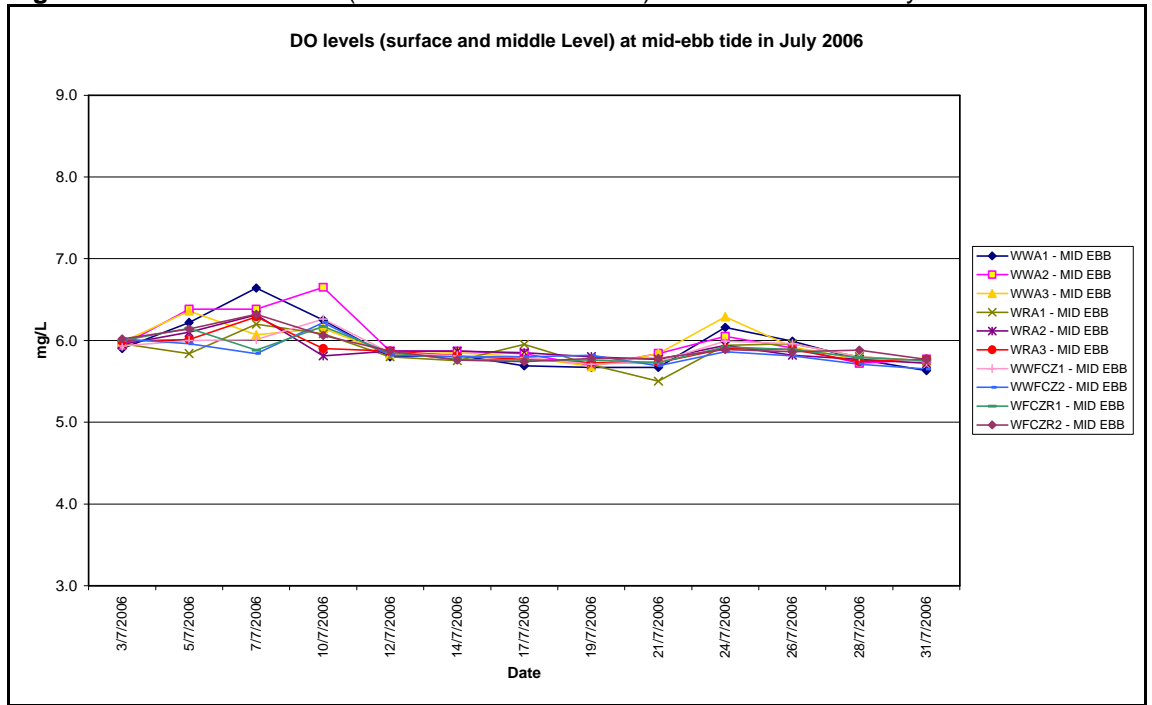
### Summary of Mid-Flood Tide

The lowest DO level for surface & middle position was 5.67 mg/L at WWA3 and WWFCZ1 on 14 July 2006 and 31 July 2006 respectively and the lowest DO level for bottom position was 5.42 at WWA2 and WWA1 on 14 July 2006 and 19 July 2006 respectively. There were no exceedances of DO levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

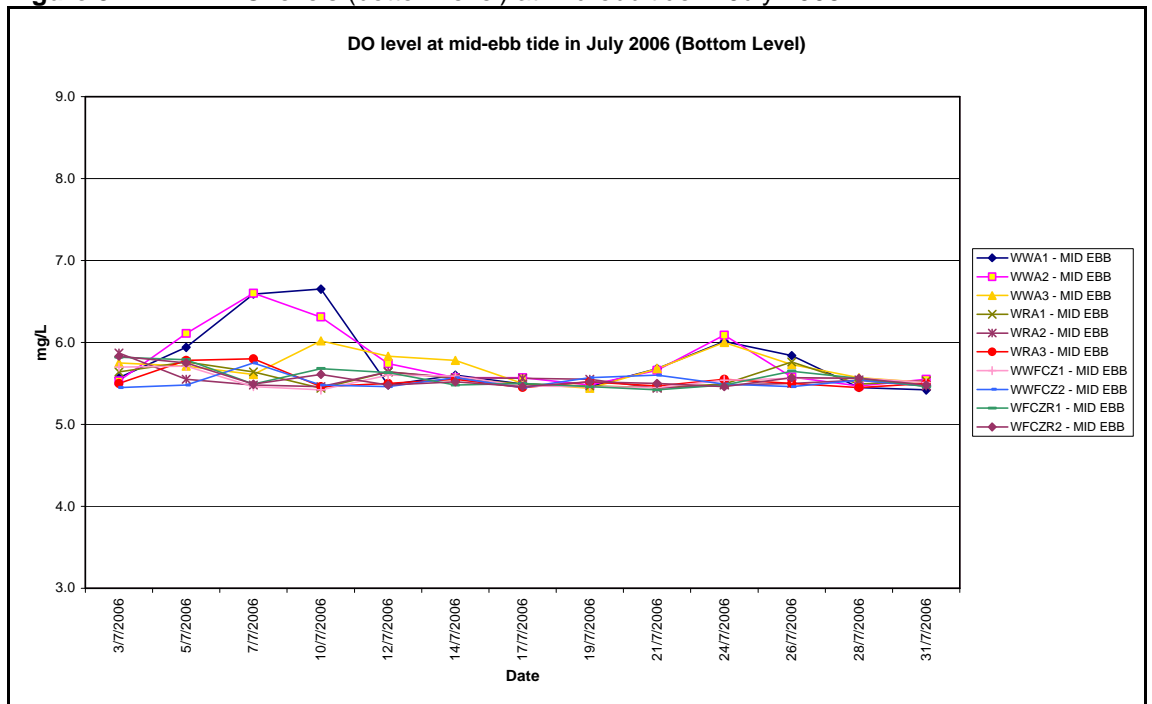
The highest depth-averaged Tby level was 6.4 NTU at WWA1 on 28 July 2006. There were no exceedances of Tby Levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 16.2 mg/L at WWA1 on 3 July 2006. There were no exceedances of SS Levels during the reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

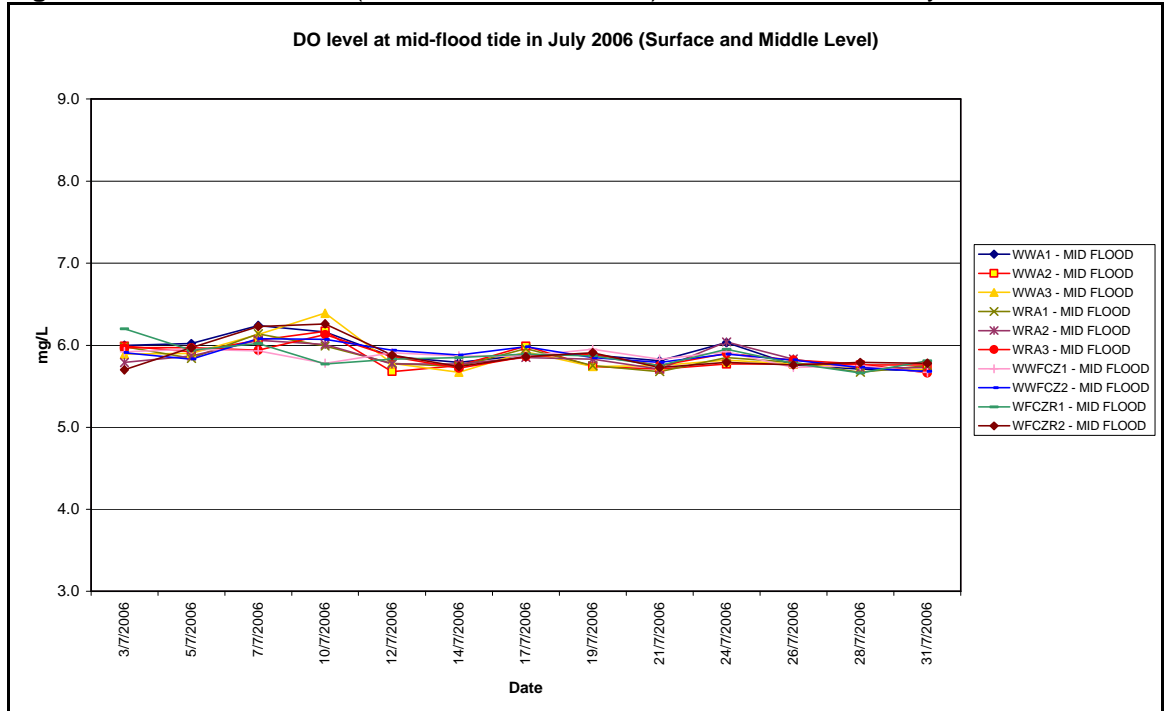
**Figure 5-1:** DO levels (surface and middle level) at mid-ebb tide in July 2006



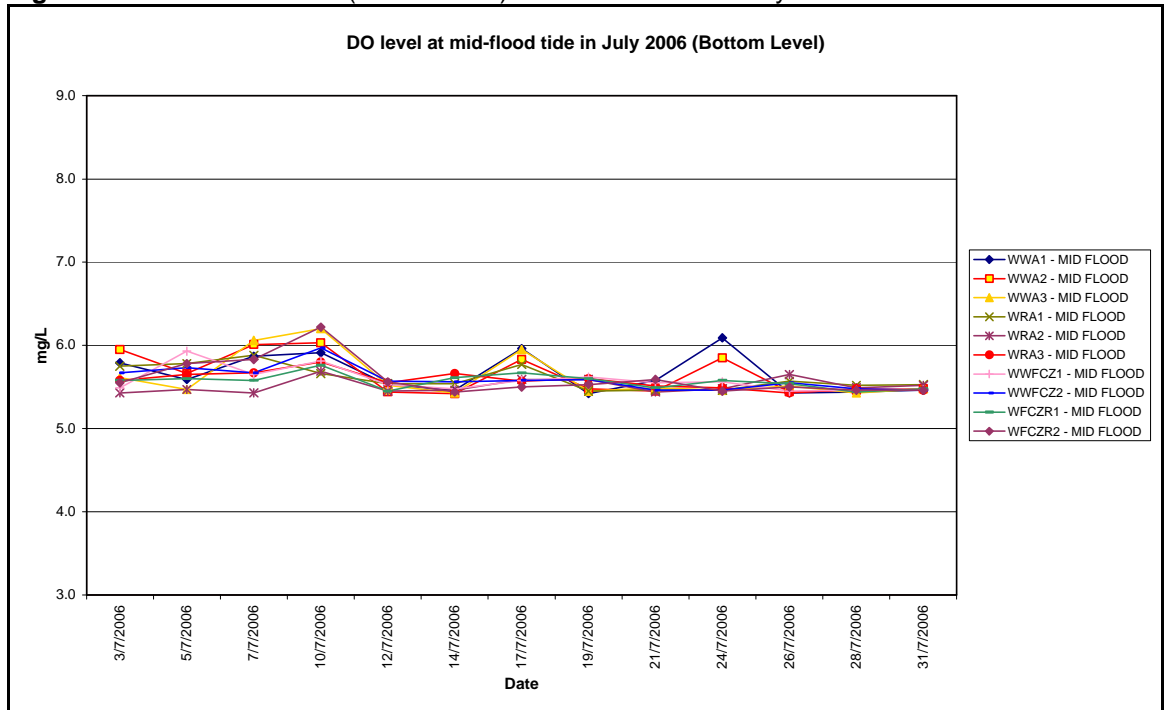
**Figure 5-2:** DO levels (bottom level) at mid-ebb tide in July 2006



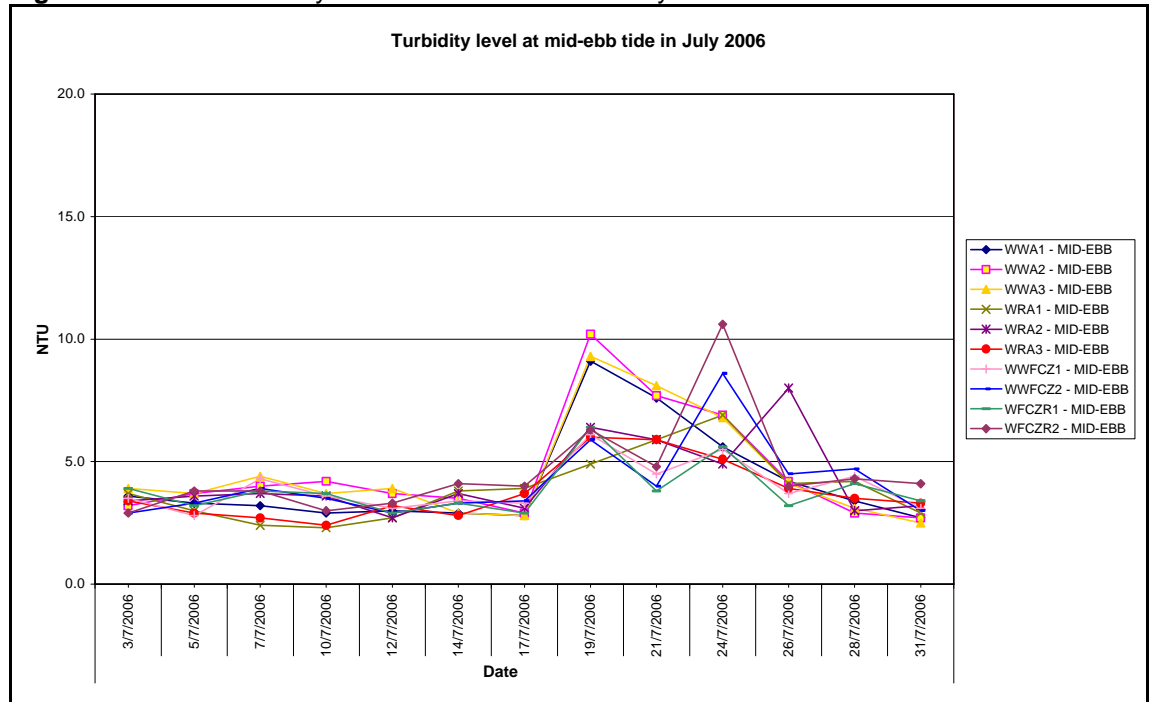
**Figure 5-3:** DO levels (surface and middle level) at mid-flood tide in July 2006



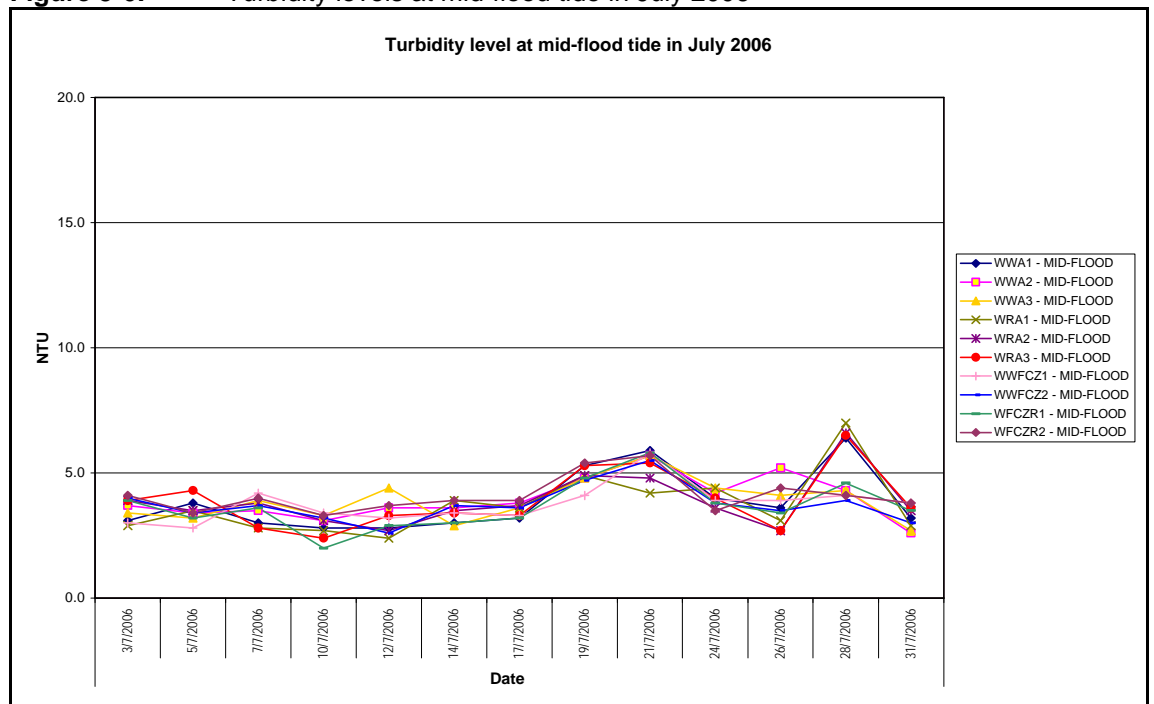
**Figure 5-4:** DO levels (bottom level) at mid-flood tide in July 2006



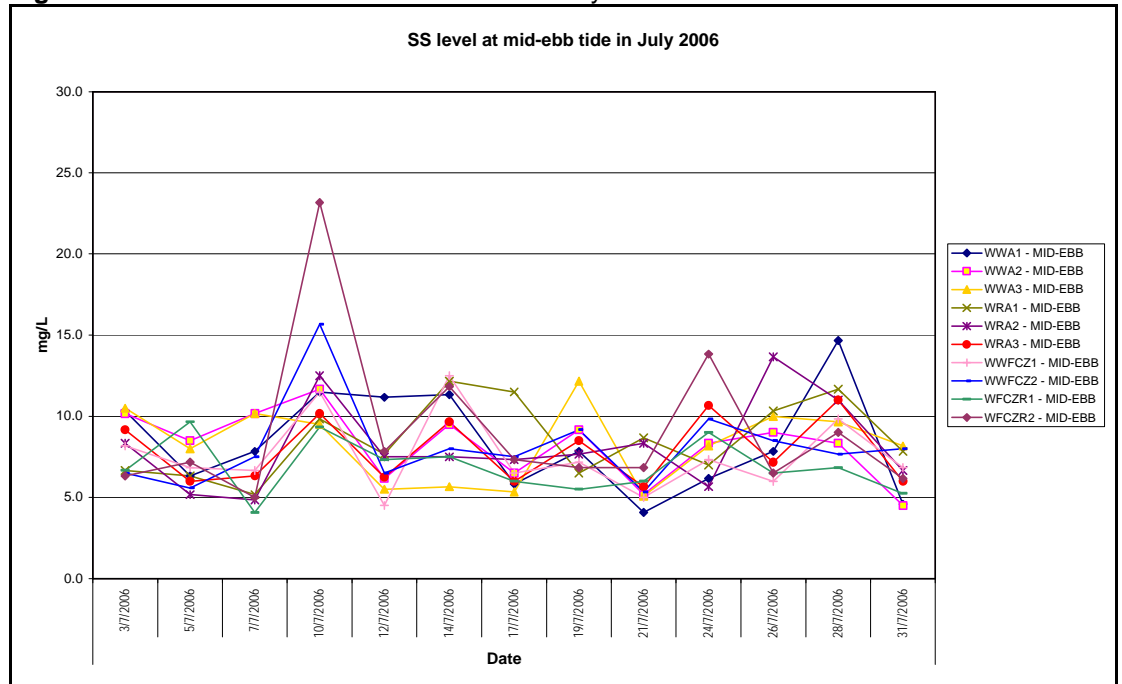
**Figure 5-5:** Turbidity levels at mid-ebb tide in July 2006



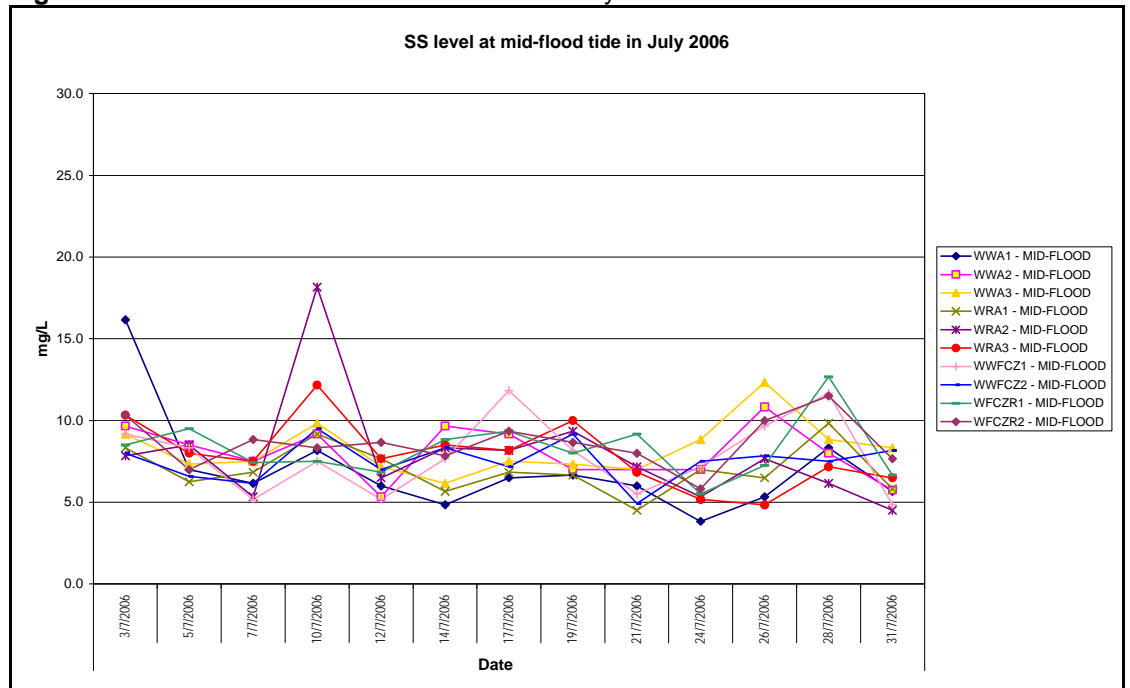
**Figure 5-6:** Turbidity levels at mid-flood tide in July 2006



**Figure 5-7: SS levels at mid-ebb tide in July 2006**



**Figure 5-8: SS levels at mid-flood tide in July 2006**



## 6 Site Inspection, Waste Disposal, environmental complaints, environmental licenses and non-compliance records

### 6.1 Site Audit Findings

Four weekly environmental site audits were carried out on 6, 13, 22 and 25 July 2006. The findings of the site audits are summarised in **Table 6-1**.

**Table 6-1:** Findings of weekly environmental site audit in July 2006

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
06 July 2006 (WTLT 024)	1. Stagnant water was observed within the site.	CT was reminded to clear the stagnant water to prevent mosquito breeding.	Agreed with the ET's advice.	13 July 2006
	2. Mud trails were observed on Castle Peak Road within the site.	CT was reminded to clear the mud trails.	Agreed with the ET's advice.	
	3. Fine sand / cement was left on the exit road near to site office from a concrete mixing vehicle. Turbid water, which was generated from flushing of the fine sand and cement, was observed discharging into storm drainage system.	CT was reminded to provide appropriate mitigation measures to avoid the recurrence of the incident.	Agreed with the ET's advice.	
13 July 2006 (WTLT 025)	1. Silt curtain at Seawall A was observed broken.	CT was reminded to repair the silt curtain.	Agreed with the ET's advice.	22 July 2006
	2. Muddy water, which arising from groundwater passing through unpaved area, was observed discharging to the gully near to wheel washing facilities.	CT was reminded to divert groundwater to desilting facilities.	Agreed with the ET's advice.	
	3. Cover was observed broken on the slope near to Seawall B and muddy water was washed down from the slope to the sea.	CT was reminded to repair the cover.	Agreed with the ET's advice.	
	4. Eastern end of silt curtain at Seawall B was observed broken.	CT was reminded to repair the silt curtain.	Agreed with the ET's advice.	
	5. General refuse was observed at Seawall B.	CT was reminded to clear the waste.	Agreed with the ET's advice.	



Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
	6. Muddy water was observed discharging to storm drainage system at bore piling site.	CT was reminded to adopt appropriate mitigation measures	Agreed with the ET's advice.	
22 July 2006 (WTLT 026)	1. Excavated materials were stockpiled at Carpark area and covered by tarpaulin sheet.	CT was reminded to provide dust suppression and water quality measures.	Agreed with the ET's advice.	25 July 2006
	2. Stagnant water was observed on Slope D.	CT was reminded to clear the stagnant water or provide control measures to prevent mosquito breeding.	Agreed with the ET's advice.	
	3. Exposed / un-paved areas were observed along the site.	CT was reminded to provide dust suppression measures during dry and windy days and water quality mitigation measures during rainy days.	Agreed with the ET's advice.	
	4. General refuse and construction waste were observed at bore piling site.	CT was reminded to conduct regular clearing of refuse and construction waste.	Agreed with the ET's advice.	
	5. Dry surface was observed within Seawall B.	CT was reminded to provide adequate dust suppression measures during dry and windy days.	Agreed with the ET's advice.	
25 July 2006 (WTLT 027)	1. Excavated materials were observed not fully covered by tarpaulin sheet.	CT was reminded to implement appropriate air and water quality mitigation measures.	Agreed with the ET's advice.	3 August 2006
	2. Exposed / unpaved areas were observed at carpark, Seawall A and B.	CT was reminded to provide dust suppression measures during dry and windy days and water quality mitigation measures during rainy days.	Agreed with the ET's advice.	
	3. Construction materials and waste were observed within the bore piling site.	CT was reminded to conduct regular clearing of refuse and construction waste.	Agreed with the ET's advice.	

## 6.2 Waste Disposal

Disposal of waste material in the reporting period generally complied with the corresponding waste disposal requirements. The waste disposal quantity in the reporting period is summarised in **Table 6-2**.

**Table 6-2:** Waste disposal quantity in July 2006

Type of waste or material		Disposal at	No. of loads or quantities
C&D waste		WENT Landfill	12 tonnes
C&D material	By truck	Public Filling Reception Facility in Tuen Mun Area 38	2,238 tonnes
	By barge		0 tonne
Chemical waste		Collected by licensed collector	0

In accordance with the Project Profile “Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen, Tsuen Wan, Remaining Works Contract, Construction of Reclamation West of Tsing Lung Tau”, all dredged material will be transported by trucks to Public Fill Reception Facility (PFRF) at Tuen Mun Area 38 for ultimate reuse by alternative projects. As the depth of marine water near the reclamation site is found to be sufficient for barges to manoeuvre, the CT proposed to deliver the dredged material by barge to the PFRF. It will reduce the double handling of dredged material to the seashore and then to trucks by backhoe. EPD agreed with the CT’s proposal on 18 May 2006 via e-mail. The CT commenced to transport the dredged material by barge on 24 May 2006. During the reporting period, no C&D materials were transported to PFRF by barge.

### 6.3 Complaint Record

There was no environmental complaint received in July 2006.

### 6.4 Exceedance

There were exceedances of Tby and SS levels for marine water quality in July 2006 when compared with A/L Levels and baseline check criteria. After ET’s investigation, all exceedances were unlikely due to the construction activities of the Project. These exceedances are summarised in **Table 6.3**.

**Table 6-3:** Summary of exceedances of marine water quality monitoring not related to construction works of the Project in July 2006

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
19-Jul	mid-ebb	WWA1	4.9	9.1	Limit Level	-	-	-
19-Jul	mid-ebb	WWA2	6.4	10.2	Limit Level	-	-	-
19-Jul	mid-ebb	WWA3	6.0	9.3	Limit Level	-	-	-
21-Jul	mid-ebb	WWA1	5.9	7.6	Action Level	-	-	-
21-Jul	mid-ebb	WWA2	5.9	7.7	Limit Level	-	-	-
21-Jul	mid-ebb	WWA3	5.9	8.1	Action Level	-	-	-
24-Jul	mid-ebb	WWA2	4.9	6.9	Action Level	-	-	-
24-Jul	mid-ebb	WWA3	5.1	6.8	Baseline Check	-	-	-
28-Jul	Mid-ebb	WWA1	-	-	-	11.7	14.7	Baseline Check

No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations on 19, 21 and 24 July 2006 by ET's field staff. The exceedances of Tby were only marginal to the Baseline Check Criteria, Action and Limit Levels at WWA1, WWA2 and WWA3. In addition, there were no exceedances of SS levels, which were relatively low (4.1 - 12.2 mg/L), on the same stations on the same day. Hence, the exceedances were unlikely due to the construction works of the Project.

Similarly, no muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations on 28 July 2006 by ET's field staff. The exceedance of SS at WWA1 was only marginal to the Baseline Check Criteria. In addition, there was no exceedance of Tby level, which was relatively low (3.4 NTU), on the same station on the same day. Hence, the exceedance was unlikely due to the construction works of the Project.

Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.

#### 6.5 Notification of Summons and Successful Prosecution

No notification of summons and prosecution was received in July 2006.

#### 6.6 Environmental Licences

A summary of the valid environmental licences is given in **Table 6-4**. There was no environmental licence granted during the reporting period.

**Table 6-4:** Summary of valid environmental licences in July 2006

Type of Licence	Reference No.	Valid from	Valid to
Environmental Permit	EP-219/2005	20 Jun 2005	Not applicable
Registration of Chemical Waste Producer	5111-336-C2869-49	16 Feb 2006	Not applicable
Water Discharge Licence	EP760/336/011348 I	31 Mar 2006	31 Mar 2011
Delivery of C&D Materials to PFRF at Tuen Mun Area 38 by Barge	Application No.: CEDD00087 Billing Account No.: 5005407	12 May 2006	15 Aug 2006
Construction Noise Permit	GW-RW0326-06	9 June 2006	8 December 2006
Construction Noise Permit	GW-RW0349-06	23 June 2006	22 December 2006

## 7 Conclusions

The construction phase of the Project was commenced on 28 February 2006. The EM&A programme has been implemented since then, including marine water quality monitoring and environmental site audits. Noise monitoring at Grand Bay Villa was temporarily suspended as these premises were vacant with no resident.

Exceedances of marine water quality were detected from the monitoring data. After ET's investigation, all exceedances were unlikely due to the construction activities of the Project.

No complaint, summons or prosecution related to environmental issues was received during the reporting month.

Weekly environmental site audit was carried out during the reporting month. The major environmental concerns were related to air quality, water quality and waste management.

All C&D materials were transported to PFRF at Tuen Mun Area 38 by trucks during the reporting period.

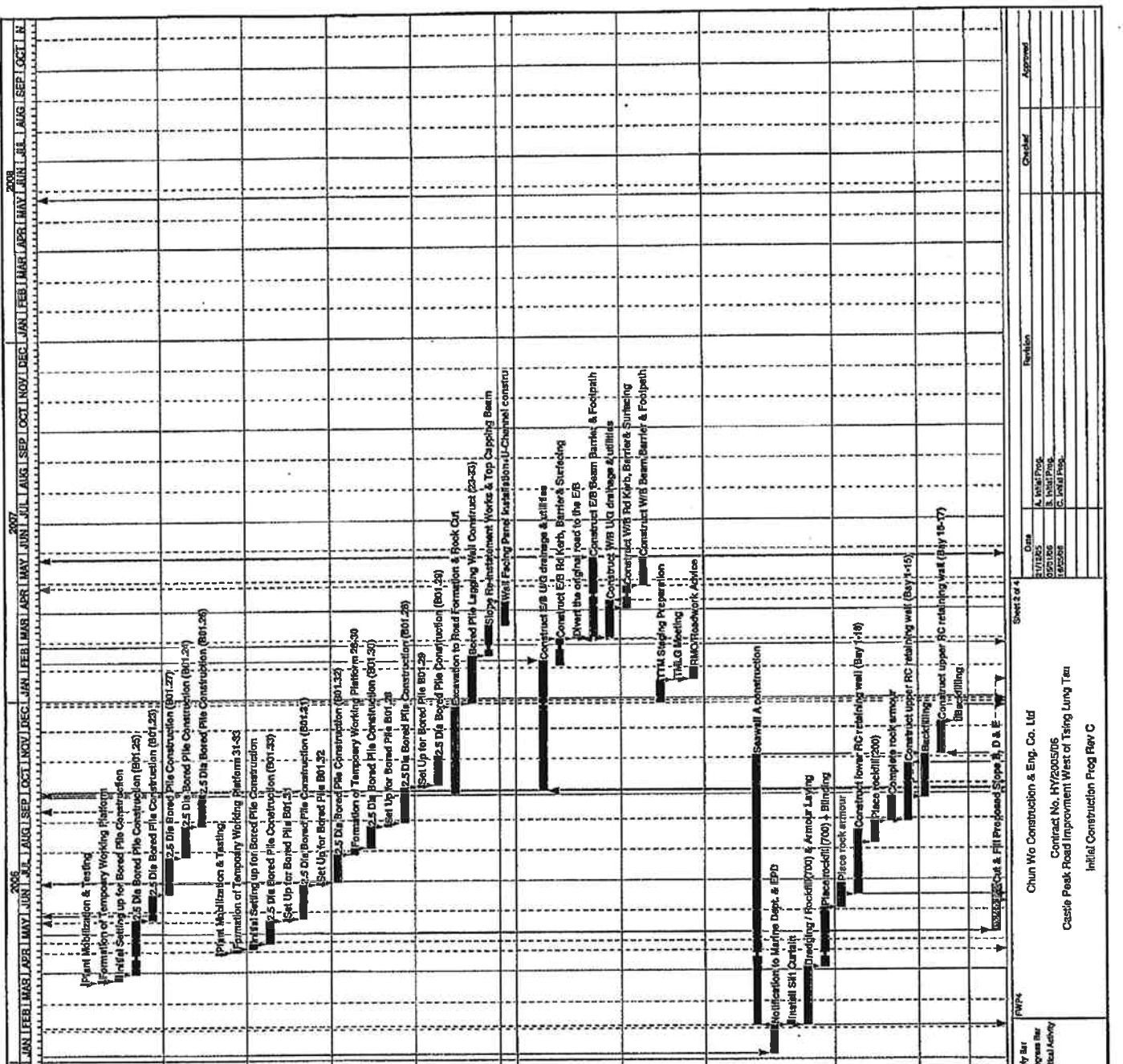
## 8 References

- [1] Mouchel Halcrow Joint Venture. January 2006. Supplementary Agreement No.1 – Remaining Project EM&A Manual for Construction of Reclamation West of Tsing Lung Tau.
- [2] Ove Arup & Partners Hong Kong Limited. April 2006. Contract No.HY2005/06 Castle Peak Road Improvement – West of Tsing Lung Tau. Environmental Baseline Monitoring Report for Reclamation Works (EP No. EP-219/2005) (Second Issue)

Appendix A  
**Construction  
programme**

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
4BP3000	Pile Mobilization & Testing	2	20/03/06	21/03/06
4BP3010	Formation of Temporary Working Platform	3	22/03/06	24/03/06
4BP3020	Initial Setting up for Bored Pile Construction	5	24/03/06	29/03/06
4BP3030	2.5 Dia Bored Pile Construction (B01.25)	41	30/03/06	23/05/06
4BP3040	2.5 Dia Bored Pile Construction (B01.27)	21	24/05/06	17/06/06
4BP3050	2.5 Dia Bored Pile Construction (B01.27)	31	19/06/06	25/07/06
4BP3060	2.5 Dia Bored Pile Construction (B01.24)	27	28/07/06	25/08/06
4BP3070	2.5 Dia Bored Pile Construction (B01.26)	28	26/08/06	27/09/06
4BP3080	Pile Mobilization & Testing	2	18/04/06	20/04/06
4BP3090	Formation of Temporary Working Platform 31-33	3	20/04/06	22/04/06
4BP3100	Initial Setting up for Bored Pile Construction	5	24/04/06	29/04/06
4BP3110	2.5 Dia Bored Pile Construction (B01.33)	18	29/04/06	20/05/06
4BP3115	Set Up for Bored Pile B01.31	2	23/05/06	24/05/06
4BP3120	2.5 Dia Bored Pile Construction (B01.31)	29	25/05/06	27/08/06
4BP3125	Set Up for Bored Pile B01.32	2	28/06/06	29/06/06
4BP3130	2.5 Dia Bored Pile Construction (B01.32)	23	30/06/06	27/07/06
4BP3131	Formation of Temporary Working Platform 28-30	5	28/07/06	02/08/06
4BP3132	2.5 Dia Bored Pile Construction (B01.30)	19	02/08/06	24/08/06
4BP3133	Set Up for Bored Pile B01.28	2	25/08/06	26/08/06
4BP3134	2.5 Dia Bored Pile Construction (B01.28)	31	28/08/06	03/10/06
4BP3135	Set Up for Bored Pile B01.29	2	04/10/06	05/10/06
4BP3136	2.5 Dia Bored Pile Construction (B01.29)	23	06/10/06	09/11/06
4BP3150	Excavation to Road Formation & Rock Cut	71	28/09/06	23/12/06
4BP3160	Bored Pile Lagging Wall Construct (23-33)	40	27/11/06	19/02/07
4BP3170	Slope Re-instatement Works & Top Capping Beam	22	13/02/07	15/03/07
4BP3180	Wall Facing Panel Installation-U-Channel constr	20	16/03/07	05/04/07
4RW4100	Construct E&B U/G drainage & utilities	105	30/03/06	07/06/07
4RW4110	Construct E&B Rd Kerb, Barrier & Surfacing	16	03/05/07	01/06/07
4RW4150	Divert the original road to the E&B	1	02/05/07	02/05/07
4RW4200	Construct E&B Beam Barrier & Footpath	65	03/05/07	23/05/07
4RW4300	Construct U/G drainage & utilities	32	03/05/07	10/04/07
4RW4400	Construct W&B Rd Kerb, Barrier & Surfacing	15	03/04/07	24/04/07
4RW4510	Construct W&B Beam Barrier & Footpath	24	25/04/07	23/05/07
4RW4620	TTM Staging Preparation	19	27/12/06	16/01/07
4RW4630	TTM.G Meeting	1	18/01/07	18/01/07
4RW4640	RMC/Trackwork Advice	10	20/01/07	31/01/07
<b>Area 3 Construction (Ch1.4-825 to Ch2+030)</b>				
<b>Seawall A Construction</b>				
3SWA0500	Seawall A construction	223	04/02/06	03/11/06
3SWA0600	Notification to Marine Dept. & EPD	28	07/01/06	03/02/06
3SWA0700	Install SR Curtain	4	04/02/06	08/02/06
3SWA1000	Dredging / Rockfill(700) & Armour Laying	50	04/02/06	03/04/06
3SWA1100	Pile rockfill(700) & Blinding	45	04/04/06	02/06/06
3SWA1200	Pile rock armour	21	03/06/06	27/06/06
3SWA1300	Construct lower RC retaining wall (Bay 1-16)	55	16/06/06	19/08/06
3SWA1400	Pile rockfill(200)	20	07/08/06	26/09/06
3SWA1500	Complete rock armour	22	23/09/06	22/08/06
3SWA1600	Construct upper RC retaining wall (Bay 1-15)	47	30/09/06	25/10/06
3SWA1700	Backfilling	34	20/09/06	03/11/06
3SWA0900	Construct upper RC retaining wall (Bay 16-17)	28	04/11/06	08/12/06
3SWA0800	Backfilling	3	07/12/06	09/12/06
<b>Slope Works</b>				
3SW1000	Cut & Fill Proposed Slope B, D & E	40	06/05/06	24/06/06



Activity ID	Activity Description	Orig. Dur	Early Start	Early Finish	2005	2006	2007	2008
3SRV2000	Slope stabilisation works	40	09/09/06	26/07/08	JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
<b>Roadworks Construction</b>								
3RW2100	Construct WB UG drainage & utilities	64	06/10/06	22/12/06				
3RW2110	Construct WB Rd Kerb, Barriers, Surfacing	18	23/12/06	16/01/07				
3RW2500	Divert the original road to the WB	1	17/01/07	17/01/07				
3RW2505	Construct WB Beam Barrier & Footpath	24	18/01/07	14/02/07				
3RW2600	Construct EB UG drainage & utilities	50	18/01/07	29/03/07				
3RW2605	Construct EB Rd Kerb, Barriers & Surfacing	18	30/03/07	24/04/07				
3RW2608	Construct EB Beam Barrier & Footpath	24	25/04/07	23/05/07				
3RW2610	TTM Staging Preparation	19	21/11/06	12/12/06				
3RW2620	TMUG Meeting	1	13/12/06	13/12/06				
3RW2630	RMC/Roadwork Advice	10	14/12/06	28/12/06				
3RW2650	Construct Perm Drainage EB for Temp Diversion	20	26/02/06	23/10/06				
3RW2655	Construct Temp Road (S-Turn) Ch2-300	10	21/11/06	02/11/06				
3RW2660	Divert the original road to the EB	1	03/11/06	03/11/06				
3RW2665	TTM Staging Preparation	19	04/03/06	23/03/06				
3RW2670	TMUG Meeting	1	30/03/06	30/03/06				
3RW2675	RMC/Roadwork Advice	10	03/10/06	14/10/06				
<b>Area 5 Construction (Ch2+150 to Ch2+300)</b>								
<b>Seawall B Construction</b>								
3SWB3000	Seawall B construction	1227	04/02/06	13/09/06				
3SWB3100	Install Silt Curtain	3	04/02/06	07/02/06				
3SWB3110	Dredging / Rockfill & Armour Laying (1st stage)	50	04/02/06	03/04/06				
3SWB3120	Place rockfill & Construct L-shaped Wall Footing	28	04/04/06	12/05/06				
3SWB3130	Place rock armour (2 stage)	14	13/05/06	20/05/06				
3SWB3140	Construct RC retaining wall (Bay 5-12)	54	30/05/06	02/08/06				
3SWB3150	Backfilling	28	27/07/06	28/08/06				
3SWB3160	Complete rock armour	14	28/08/06	13/09/06				
3SWB3170	Construct RC Retaining Wall (Bay 1-4)	28	06/11/06	11/12/06				
3SWB3180	Backfilling	40	13/12/06	23/12/06				
3SWB3190	Complete Rock Armour	5	27/12/06	02/01/07				
<b>Roadworks Construction</b>								
3RW3000	Construct WB UG drainage & utilities	63	21/10/06	08/01/07				
3RW3010	Construct WB Rd Kerb, Barriers, Surfacing	18	30/12/06	20/01/07				
3RW3020	Divert the original road to the WB	1	22/01/07	22/01/07				
3RW3030	Construct WB Beam Barrier & Footpath	18	22/01/07	10/02/07				
3RW3040	Construct EB UG drainage & utilities	62	23/01/07	11/04/07				
3RW3050	Construct EB Rd Kerb, Barriers & Surfacing	15	03/04/07	24/04/07				
3RW3060	Construct EB Beam Barrier & Footpath	18	23/04/07	16/05/07				
3RW3070	TTM Staging Preparation	19	25/11/06	18/12/06				
3RW3080	TMUG Meeting	1	19/12/06	18/12/06				
3RW3090	RMC/Roadwork Advice	10	19/12/06	03/01/07				
3RW3100	Approval of Temporary Diversion Scheme	90	06/02/06	27/05/06				
3RW3110	Temporary Diversion of Water Main	30	29/05/06	04/07/06				
3RW3120	Construct Perm Drainage EB for Temp Diversion	20	30/03/06	25/10/06				
3RW3130	Construct Temp Road (S-Turn) Ch2-150	10	28/10/06	07/11/06				
3RW3140	Divert the original road to the EB	1	03/11/06	03/11/06				
3RW3150	TTM Staging Preparation	19	10/03/06	05/10/06				
3RW3160	TMUG Meeting	1	06/10/06	06/10/06				
3RW3170	RMC/Roadwork Advice	10	09/10/06	19/10/06				
<b>OUTFALL EA &amp; EB CONSTRUCTION</b>								
3OF1000	Lower section construction	557	16/08/09	06/10/08				
3OF1100	Construct outlets	45	18/08/06	03/09/06				
3OF1200	Construct cascades & pipes	58	31/07/06	06/10/06				
3OF2000	Upper section construction	57	18/07/07	30/03/07				
3OF2100	Reconstruct Inlets (At Carrageway Portico)	35	18/07/07	05/03/07				

Gantt Date: 21/12/06  
 Field Date: 20/06/06  
 Run Date: 20/06/06 15:27

Program Bar:  Early Bar  
 Critical Activity

PWS4  
 Chun Wo Construction & Eng. Co. Ltd  
 Contract No. HY2005708  
 Castle Peak Road Improvement West of Tshing Lung Tau  
 Initial Construction Prog Rev C

Sheet 3 of 4  
 Drawn: 21/12/05  
 Checked: 22/01/06  
 Revised: 03/02/06  
 Approved:





Appendix B  
**Monitoring schedule for  
July and August 2006**

## Environmental Monitoring and Audit Schedule - July 2006

- Note 1: L30 denotes  $L_{eq(30\text{ min})}$  monitoring
- Note 2: TSP denotes Total Suspended Particulate monitoring
- Note 3: MV denotes marine water monitoring
- Note 4: L&V denotes Landscape and Visual audit and monitoring

Jul-2006						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					



Appendix C

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**Calibration certificates  
of marine water  
monitoring equipment**



## CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.  
Address : Level 5 Festival Walk,  
80 Tat Chee Avenue,  
Kowloon Tong,  
Kowloon.

Report No. : CR 000073  
Page No. : 1 of 5  
Issue Date : 12/05/2006

Received Date : 09/05/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 11/05/2006

### Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument

Serial No. : 99G0526 AJ

Calibration Method : APHA 18e 2520 A & B

Date of Calibration : 09/05/2006

Results: :

#### Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.4
15	14.9
35	34.1
39.3	38.0

Approval Signatory:



## CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.  
Address : Level 5 Festival Walk,  
80 Tat Chee Avenue,  
Kowloon Tong,  
Kowloon.

Report No. : CR 000073  
Page No. : 2 of 5  
Issue Date : 12/05/2006

Received Date : 09/05/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 11/05/2006

### Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument  
Serial No. : 99G0526 AJ  
Calibration Method : In house method  
Date of Calibration : 09/05/2006  
Results: :

#### Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	10.5
20.0	20.5
30.0	30.1
40.0	40.7

Approval Signatory:



Environmental Management Division

## CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.  
Address : Level 5 Festival Walk,  
80 Tat Chee Avenue,  
Kowloon Tong,  
Kowloon.

Report No. : CR 000073  
Page No. : 3 of 5  
Issue Date : 12/05/2006

Received Date : 09/05/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 11/05/2006

### Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument

Serial No. : 99G0526 AJ

Calibration Method : APHA 18e 4500-O A, B, C & D

Date of Calibration : 09/05/2006

Results: :

#### Dissolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
3.45	3.69
4.35	4.52
5.30	5.52
6.10	6.62
8.00	7.80
8.90	8.61

Approval Signatory:





## CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.  
Address : Level 5 Festival Walk,  
80 Tat Chee Avenue,  
Kowloon Tong,  
Kowloon.

Report No. : CR 000073  
Page No. : 4 of 5  
Issue Date : 12/05/2006

Received Date : 09/05/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 11/05/2006

### Calibration Results:

Item : HACH 2100P Turbidimeter

Serial No. : 011100024354

Calibration Method : APHA 18e 2130 B

Date of Calibration : 09/05/2006

Results: :

#### Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0.15
2	2.18
4	4.12
16	14.4
40	37.6
80	75.9

Approval Signatory:



## CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.  
Address : Level 5 Festival Walk,  
80 Tat Chee Avenue,  
Kowloon Tong,  
Kowloon.

Report No. : CR 000073  
Page No. : 5 of 5  
Issue Date : 12/05/2006

Received Date : 09/05/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 11/05/2006

### Calibration Results:

Item : HANNA instrument HI 98128 membrane pH meter

Serial No. : 1377140

Calibration Method : In house method

Date of Calibration : 09/05/2006

Results: :

#### pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4	4.10
7	7.09
10	9.97

Approval Signatory:

Appendix D

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**Marine water quality  
monitoring results**

West Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
1	WWA1	S	MID-EBB	3-Jul-06	16:25	7.00	29.2	6.10	6.06	5.90	106.7	103.2	8.1	18.8	3.8	3.8	3.6	12.5	10.3
2	WWA1	M	MID-EBB	3-Jul-06			28.2	5.59	5.86		97.5	99.5	8.1	22.0	3.0	2.7		9.0	
3	WWA1	B	MID-EBB	3-Jul-06			28.0	5.66	5.48		91.6	89.2	8.2	22.0	4.3	4.2		9.5	
4	WWA2	S	MID-EBB	3-Jul-06	16:35	10.70	29.5	6.05	6.00	5.94	98.1	94.6	8.1	18.6	3.8	3.5	3.2	12.5	10.2
5	WWA2	M	MID-EBB	3-Jul-06			28.7	5.88	5.82		95.4	90.4	8.1	21.0	2.8	2.9		10.5	
6	WWA2	B	MID-EBB	3-Jul-06			28.0	5.55	5.50		99.1	98.9	8.1	22.7	3.2	3.1		7.5	
7	WWA3	S	MID-EBB	3-Jul-06	16:44	7.50	29.3	6.01	6.04	5.98	103.1	104.0	8.1	18.6	4.0	4.3	3.9	14.0	10.5
8	WWA3	M	MID-EBB	3-Jul-06			28.9	5.96	5.90		99.5	99.1	8.1	20.1	3.8	3.6		9.5	
9	WWA3	B	MID-EBB	3-Jul-06			28.6	5.79	5.70		96.0	91.2	8.1	21.0	4.0	3.5		8.0	
10	WRA1	S	MID-EBB	3-Jul-06	16:13	30.10	29.3	6.06	6.03	5.96	106.8	101.0	7.4	19.8	4.2	4.0	3.7	10.5	6.7
11	WRA1	M	MID-EBB	3-Jul-06			27.2	5.89	5.86		99.4	96.0	7.5	26.3	4.3	4.2		4.0	
12	WRA1	B	MID-EBB	3-Jul-06			26.0	5.73	5.55		99.9	92.0	7.4	30.5	3.0	2.9		5.5	
13	WRA2	S	MID-EBB	3-Jul-06	16:01	25.90	28.6	6.00	6.05	5.95	101.6	105.2	7.6	20.8	3.2	3.4	3.4	11.5	8.3
14	WRA2	M	MID-EBB	3-Jul-06			26.8	5.89	5.86		97.4	92.2	7.6	27.1	4.0	4.2		8.5	
15	WRA2	B	MID-EBB	3-Jul-06			26.1	5.97	5.76		98.1	89.7	7.6	30.3	3.0	2.8		5.0	
16	WRA3	S	MID-EBB	3-Jul-06	15:50	24.80	28.8	6.12	6.09	5.99	103.3	100.5	7.4	20.2	3.1	3.2	3.4	9.5	9.2
17	WRA3	M	MID-EBB	3-Jul-06			27.1	5.89	5.89		100.5	87.9	7.4	26.9	3.3	3.1		7.0	
18	WRA3	B	MID-EBB	3-Jul-06			26.1	5.51	5.49		95.7	89.3	7.4	30.2	3.9	3.9		11.0	
19	WWFCZ1	S	MID-EBB	3-Jul-06	15:13	32.10	28.5	6.10	6.06	5.93	105.8	107.1	8.1	20.1	3.0	2.6	3.5	11.5	8.2
20	WWFCZ1	M	MID-EBB	3-Jul-06			26.5	5.80	5.75		90.8	86.9	8.1	28.5	3.1	3.3		4.5	
21	WWFCZ1	B	MID-EBB	3-Jul-06			26.3	5.83	5.56		93.0	88.0	8.1	29.1	4.2	4.7		8.5	
22	WWFCZ2	S	MID-EBB	3-Jul-06	15:26	31.80	29.1	6.11	6.09	6.02	108.3	104.0	8.1	20.2	3.0	2.8	2.9	7.0	6.5
23	WWFCZ2	M	MID-EBB	3-Jul-06			26.4	5.96	5.93		96.6	89.0	8.1	29.0	2.9	2.8		8.0	
24	WWFCZ2	B	MID-EBB	3-Jul-06			26.2	5.48	5.41		91.8	86.0	8.1	29.6	2.9	2.9		4.5	
25	WFCZR1	S	MID-EBB	3-Jul-06	15:00	40.50	29.7	6.03	6.01	6.00	101.5	100.8	7.7	11.6	3.6	3.7	3.9	4.5	6.7
26	WFCZR1	M	MID-EBB	3-Jul-06			27.8	6.01	5.96		97.8	95.3	7.7	24.9	4.1	4.1		8.0	
27	WFCZR1	B	MID-EBB	3-Jul-06			26.6	5.87	5.76		93.2	87.1	7.7	28.9	4.0	3.8		7.5	
28	WFCZR2	S	MID-EBB	3-Jul-06	15:39	42.00	29.2	6.13	6.09	6.02	116.1	106.4	8.0	19.6	2.6	2.9	2.9	8.5	6.3
29	WFCZR2	M	MID-EBB	3-Jul-06			26.9	5.96	5.90		94.1	88.5	8.0	26.9	2.9	2.8		3.5	
30	WFCZR2	B	MID-EBB	3-Jul-06			25.7	5.86	5.80		92.2	86.5	8.1	30.6	3.1	3.2		7.0	
31	WWA1	S	MID-FLOOD	3-Jul-06	12:24	8.00	29.3	6.10	6.09	6.00	105.8	100.9	8.1	16.5	2.2	2.4	3.1	19.5	16.2
32	WWA1	M	MID-FLOOD	3-Jul-06			27.1	5.89	5.92		100.4	100.8	8.0	20.3	3.2	3.4		14.5	
33	WWA1	B	MID-FLOOD	3-Jul-06			27.8	5.86	5.71		96.7	95.3	8.1	22.5	3.7	3.7		14.5	
34	WWA2	S	MID-FLOOD	3-Jul-06	12:34	11.00	28.4	5.97	5.95	5.95	101.1	98.6	8.1	16.4	3.9	3.8	3.7	12.5	9.7
35	WWA2	M	MID-FLOOD	3-Jul-06			28.6	6.01	6.04		101.0	99.7	8.1	18.9	3.4	3.2		9.5	
36	WWA2	B	MID-FLOOD	3-Jul-06			27.9	5.99	5.90		97.8	96.8	8.1	22.9	4.0	3.8		7.0	
37	WWA3	S	MID-FLOOD	3-Jul-06	12:43	7.50	29.3	6.08	6.00	5.89	99.2	98.6	8.1	16.3	3.6	3.5	3.4	11.0	9.2
38	WWA3	M	MID-FLOOD	3-Jul-06			28.6	5.77	5.70		100.3	105.2	8.1	18.7	3.8	3.6		6.0	
39	WWA3	B	MID-FLOOD	3-Jul-06			28.6	5.61	5.60		96.0	90.9	8.1	18.4	3.0	2.9		10.5	
40	WRA1	S	MID-FLOOD	3-Jul-06	12:14	30.60	28.8	6.11	6.08	5.98	99.6	98.2	8.2	16.8	2.9	2.8	2.9	13.5	8.3
41	WRA1	M	MID-FLOOD	3-Jul-06			26.6	5.86	5.85		89.0	88.5	8.2	27.1	2.9	2.8		5.0	
42	WRA1	B	MID-FLOOD	3-Jul-06			26.1	5.79	5.70		95.5	86.6	8.2	29.1	3.2	3.2		6.5	
43	WRA2	S	MID-FLOOD	3-Jul-06	12:03	26.50	29.0	6.08	6.01	5.79	108.6	105.1	8.4	16.9	3.7	3.8	3.9	10.5	7.8
44	WRA2	M	MID-FLOOD	3-Jul-06			27.2	5.56	5.52		96.8	91.1	8.4	25.4	3.9	3.7		8.0	
45	WRA2	B	MID-FLOOD	3-Jul-06			26.7	5.40	5.45		91.0	86.0	8.4	26.8	4.1	4.2		5.0	

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West Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
46	WRA3	S	MID-FLOOD	3-Jul-06	11:52	25.30	29.0	6.12	6.08	5.97	102.4	99.6	8.5	16.9	4.7	4.1	3.9	15.0	10.3
47	WRA3	M	MID-FLOOD	3-Jul-06			27.1	5.89	5.80		93.9	88.0	8.5	26.5	3.2	3.6		5.0	
48	WRA3	B	MID-FLOOD	3-Jul-06			26.3	5.60	5.55		93.0	90.1	8.5	28.6	3.7	3.8		11.0	
49	WWFCZ1	S	MID-FLOOD	3-Jul-06	11:14	34.60	28.7	6.10	6.06	5.92	100.2	101.5	8.1	17.2	2.9	2.9	3.0	10.0	9.2
50	WWFCZ1	M	MID-FLOOD	3-Jul-06			26.9	5.79	5.72		90.6	89.1	8.1	26.3	3.0	3.2		9.5	
51	WWFCZ1	B	MID-FLOOD	3-Jul-06			26.4	5.51	5.46		89.0	88.0	8.1	28.0	3.0	2.9		8.0	
52	WWFCZ2	S	MID-FLOOD	3-Jul-06	11:27	32.80	28.6	6.00	5.99	5.91	101.4	99.9	8.0	17.4	4.2	4.1	4.0	5.5	8.0
53	WWFCZ2	M	MID-FLOOD	3-Jul-06			26.5	5.83	5.80		93.1	85.0	8.0	28.0	3.9	3.8		11.5	
54	WWFCZ2	B	MID-FLOOD	3-Jul-06			26.1	5.71	5.62		98.0	92.0	8.0	28.8	4.1	4.1		7.0	
55	WFCZR1	S	MID-FLOOD	3-Jul-06	11:00	43.50	28.7	6.95	7.01	6.20	99.5	110.5	7.2	18.4	3.7	3.6	3.9	12.0	8.5
56	WFCZR1	M	MID-FLOOD	3-Jul-06			26.7	5.53	5.30		85.7	84.0	7.2	28.3	3.9	4.0		6.5	
57	WFCZR1	B	MID-FLOOD	3-Jul-06			25.5	5.64	5.51		98.5	86.3	7.2	31.5	4.1	4.1		7.0	
58	WFCZR2	S	MID-FLOOD	3-Jul-06	11:40	42.30	28.4	5.90	5.82	5.70	108.5	98.2	7.5	18.4	4.1	5.1	4.1	10.0	10.3
59	WFCZR2	M	MID-FLOOD	3-Jul-06			27.5	5.59	5.49		99.4	89.2	7.5	24.2	4.1	3.8		7.5	
60	WFCZR2	B	MID-FLOOD	3-Jul-06			25.7	5.68	5.42		94.0	87.8	7.5	29.1	3.9	3.9		13.5	
61	WWA1	S	MID-EBB	5-Jul-06	9:52	7.90	28.5	6.43	6.38	6.22	100.2	108.1	8.5	8.5	2.9	2.5	3.3	6.0	6.3
62	WWA1	M	MID-EBB	5-Jul-06			28.9	6.01	6.05		101.0	100.8	8.5	12.9	3.2	3.3		6.5	
63	WWA1	B	MID-EBB	5-Jul-06			28.7	5.98	5.90		101.8	101.5	8.5	14.7	3.6	4.1		6.5	
64	WWA2	S	MID-EBB	5-Jul-06	9:41	10.60	29.5	6.53	6.48	6.38	107.6	107.7	8.6	9.2	3.5	3.2	3.7	9.0	8.5
65	WWA2	M	MID-EBB	5-Jul-06			29.1	6.22	6.30		105.9	103.2	8.6	11.6	3.6	3.7		8.0	
66	WWA2	B	MID-EBB	5-Jul-06			29.1	6.10	6.12		99.7	99.8	8.6	11.0	3.9	4.1		8.5	
67	WWA3	S	MID-EBB	5-Jul-06	9:30	6.70	29.5	6.47	6.45	6.36	109.8	108.4	8.5	8.7	3.3	3.3	3.7	6.5	8.0
68	WWA3	M	MID-EBB	5-Jul-06			29.3	6.30	6.21		105.7	105.2	8.5	11.4	4.1	4.0		7.5	
69	WWA3	B	MID-EBB	5-Jul-06			28.9	5.81	5.61		101.1	99.1	8.5	13.4	3.9	3.8		10.0	
70	WRA1	S	MID-EBB	5-Jul-06	10:07	28.90	29.5	5.99	5.82	5.84	105.2	104.2	8.4	8.4	2.7	2.8	3.0	6.5	6.3
71	WRA1	M	MID-EBB	5-Jul-06			26.9	5.79	5.77		94.6	96.8	8.4	25.5	3.0	2.9		3.5	
72	WRA1	B	MID-EBB	5-Jul-06			26.8	5.80	5.71		89.6	87.4	8.4	26.7	3.2	3.2		9.0	
73	WRA2	S	MID-EBB	5-Jul-06	10:17	25.70	29.2	6.47	6.43	6.10	108.9	107.3	8.4	9.0	3.2	3.3	3.6	6.0	5.2
74	WRA2	M	MID-EBB	5-Jul-06			27.9	5.79	5.69		87.2	85.9	8.4	22.1	4.1	4.1		5.0	
75	WRA2	B	MID-EBB	5-Jul-06			26.2	5.60	5.50		92.1	85.7	8.4	29.1	3.2	3.5		4.5	
76	WRA3	S	MID-EBB	5-Jul-06	10:28	24.60	29.4	6.10	6.02	6.01	100.1	99.7	8.3	8.9	2.9	2.7	3.2	7.0	9.7
77	WRA3	M	MID-EBB	5-Jul-06			29.4	5.96	5.94		99.2	101.0	8.3	8.7	2.8				

West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
91	WWA1	S	MID-FLOOD	5-Jul-06	17:30	8.30	29.9	6.04	6.10	6.02	105.6	100.3	6.2	9.9	3.8	3.9	3.8	6.5	7.0
92	WWA1	M	MID-FLOOD	5-Jul-06			29.4	5.99	5.95		102.1	101.7	8.2	12.9	3.8	3.2		8.0	
93	WWA1	B	MID-FLOOD	5-Jul-06			28.8	5.60	5.57		88.5	97.3	8.2	15.9	4.1	4.1		8.0	
94	WWA2	S	MID-FLOOD	5-Jul-06	17:42	11.80	29.1	5.93	6.00	5.92	101.8	98.6	6.3	13.4	3.6	3.7	3.4	7.0	8.5
95	WWA2	M	MID-FLOOD	5-Jul-06			29.3	5.90	5.85		100.8	97.6	6.2	11.9	3.7	3.6		10.5	
96	WWA2	B	MID-FLOOD	5-Jul-06			28.8	5.72	5.60		90.5	87.3	6.2	16.1	2.8	2.8		8.5	
97	WWA3	S	MID-FLOOD	5-Jul-06	17:56	7.70	30.0	5.95	5.90	5.90	97.6	95.5	6.2	9.5	2.9	2.8	3.2	6.0	7.3
98	WWA3	M	MID-FLOOD	5-Jul-06			29.5	5.92	5.82		91.6	90.5	6.2	11.8	3.2	3.2		7.5	
99	WWA3	B	MID-FLOOD	5-Jul-06			28.1	5.50	5.44		88.7	88.0	6.2	15.8	3.2	3.9		6.0	
100	WRA1	S	MID-FLOOD	5-Jul-06	17:16	29.50	29.7	6.01	5.96	5.84	101.6	99.6	6.2	10.3	3.2	3.1	3.5	10.5	6.3
101	WRA1	M	MID-FLOOD	5-Jul-06			27.5	5.80	5.60		93.4	89.7	6.2	23.9	2.8	2.9		4.3	
102	WRA1	B	MID-FLOOD	5-Jul-06			26.6	5.84	5.72		92.1	87.2	6.2	28.4	4.2	4.7		4.0	
103	WRA2	S	MID-FLOOD	5-Jul-06	17:03	26.70	29.5	5.97	5.96	5.87	103.8	100.2	6.2	10.2	3.7	3.9	3.5	10.0	8.5
104	WRA2	M	MID-FLOOD	5-Jul-06			27.3	5.80	5.75		90.2	85.6	6.3	25.1	2.8	3.0		8.0	
105	WRA2	B	MID-FLOOD	5-Jul-06			26.8	5.49	5.45		89.7	86.5	6.3	21.9	3.7	3.9		7.5	
106	WRA3	S	MID-FLOOD	5-Jul-06	16:49	25.50	29.7	6.03	6.01	5.97	103.2	101.0	6.2	10.1	3.8	3.7	4.3	13.5	8.0
107	WRA3	M	MID-FLOOD	5-Jul-06			27.8	5.94	5.90		98.6	89.9	6.2	23.7	4.2	4.4		6.5	
108	WRA3	B	MID-FLOOD	5-Jul-06			26.9	5.66	5.63		91.7	87.2	6.2	27.9	5.0	4.8		4.0	
109	WWFCZ1	S	MID-FLOOD	5-Jul-06	16:37	35.20	29.7	6.05	6.01	5.95	101.6	100.4	6.3	10.0	2.7	2.6	2.8	12.0	8.3
110	WWFCZ1	M	MID-FLOOD	5-Jul-06			27.0	5.89	5.83		88.9	88.2	6.3	26.1	2.7	2.7		5.5	
111	WWFCZ1	B	MID-FLOOD	5-Jul-06			26.3	5.97	5.88		96.0	94.3	6.2	28.8	3.1	3.2		7.5	
112	WWFCZ2	S	MID-FLOOD	5-Jul-06	16:12	34.30	29.6	5.89	5.86	5.83	100.8	100.0	6.2	9.9	3.3	3.3	3.4	6.0	6.6
113	WWFCZ2	M	MID-FLOOD	5-Jul-06			27.4	5.80	5.75		92.8	88.9	6.3	29.3	4.2	4.2		10.0	
114	WWFCZ2	B	MID-FLOOD	5-Jul-06			26.8	5.74	5.71		88.8	87.9	6.3	26.7	2.8	2.7		3.8	
115	WFCZR1	S	MID-FLOOD	5-Jul-06	16:25	42.70	29.7	6.10	6.03	5.94	102.6	100.9	6.2	10.0	2.8	3.0	3.2	11.5	9.5
116	WFCZR1	M	MID-FLOOD	5-Jul-06			27.5	5.82	5.80		98.0	89.7	6.3	24.2	3.1	3.1		3.5	
117	WFCZR1	B	MID-FLOOD	5-Jul-06			27.2	5.62	5.58		92.8	88.0	6.3	25.2	3.2	3.7		13.5	
118	WFCZR2	S	MID-FLOOD	5-Jul-06	16:00	41.50	30.3	6.06	5.99	5.97	100.6	100.0	6.3	9.2	2.8	2.9	3.4	13.5	7.0
119	WFCZR2	M	MID-FLOOD	5-Jul-06			27.4	5.93	5.90		92.6	91.9	6.2	25.4	4.2	4.1		3.0	
120	WFCZR2	B	MID-FLOOD	5-Jul-06			26.4	5.86	5.70		89.0	87.8	6.2	30.2	3.2	3.4		4.5	
121	WWA1	S	MID-EBB	7-Jul-06	10:20	7.00	30.0	7.02	7.00	6.64	101.3	99.9	6.4	9.0	2.6	2.9	3.2	8.0	7.8
122	WWA1	M	MID-EBB	7-Jul-06			29.5	6.26	6.27		91.8	90.8	6.4	12.0	3.1	3.8		7.5	
123	WWA1	B	MID-EBB	7-Jul-06			29.3	6.60	6.57		95.0	93.1	6.4	12.2	3.2	4.0		8.0	
124	WWA2	S	MID-EBB	7-Jul-06	10:10	9.30	29.8	6.26	6.29	6.38	93.4	94.0	6.4	9.9	2.8	2.7	4.0	6.5	10.2
125	WWA2	M	MID-EBB	7-Jul-06			29.7	6.52	6.45		95.2	95.3	6.4	10.4	4.1	4.2		10.5	
126	WWA2	B	MID-EBB	7-Jul-06			29.6	6.62	6.58		98.9	100.6	6.4	10.2	5.1	5.1		11.5	
127	WWA3	S	MID-EBB	7-Jul-06	10:00	6.60	29.7	6.16	6.17	6.07	101.7	100.3	6.4	10.1	3.9	3.9	4.4	10.0	10.2
128	WWA3	M	MID-EBB	7-Jul-06			29.7	5.98	5.97		96.4	96.2	6.4	9.5	4.1	4.1		10.5	
129	WWA3	B	MID-EBB	7-Jul-06			29.8	5.80	5.61		98.4	100.9	6.4	10.9	5.2	5.2		10.0	
130	WRA1	S	MID-EBB	7-Jul-06	10:33	28.50	30.4	6.68	6.64	6.20	94.7	93.5	6.1	7.6	1.8	1.8	2.4	5.0	5.2
131	WRA1	M	MID-EBB	7-Jul-06			27.1	5.89	5.59		94.9	87.4	6.1	26.9	2.3	2.8		5.0	
132	WRA1	B	MID-EBB	7-Jul-06			26.3	5.66	5.61		87.9	89.8	6.1	29.1	2.9	2.8		5.5	
133	WRA2	S	MID-EBB	7-Jul-06	10:46	26.30	29.7	6.57	6.57	6.31	101.3	100.3	6.0	8.5	3.1	3.2	3.7	5.0	4.8
134	WRA2	M	MID-EBB	7-Jul-06			29.0	6.07	6.02		95.0	92.9	6.0	14.5	4.1	4.3		4.5	
135	WRA2	B	MID-EBB	7-Jul-06			26.0	5.50	5.45		92.7	88.6	6.0	30.5	3.9	3.7		5.0	

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Page 3 of 18

West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
136	WRA3	S	MID-EBB	7-Jul-06	10:59	25.60	29.8	6.80	6.77	6.29	98.1	96.6	7.8	8.6	2.8	2.8	2.7	6.0	6.3
137	WRA3	M	MID-EBB	7-Jul-06			27.4	5.80	5.78		82.1	90.6	7.8	24.8	2.6	2.6		6.5	
138	WRA3	B	MID-EBB	7-Jul-06			26.9	5.61	5.98		83.4	83.0	7.8	25.6	2.8	2.7		7.0	
139	WWFCZ1	S	MID-EBB	7-Jul-06	11:36	32.00	30.2	6.06	6.05	6.01	94.9	95.8	8.0	7.3	3.9	3.5	4.3	7.0	6.7
140	WWFCZ1	M	MID-EBB	7-Jul-06			27.6	5.98	5.96		94.1	89.0	8.0	24.1	4.0	4.3		6.0	
141	WWFCZ1	B	MID-EBB	7-Jul-06			26.8	5.50	5.41		89.2	85.0	8.0	26.9	5.1	5.1		7.5	
142	WWFCZ2	S	MID-EBB	7-Jul-06	11:23	35.00	27.8	5.94	5.96	5.84	98.0	97.4	7.6	10.0	3.7	3.6	3.9	6.0	7.5
143	WWFCZ2	M	MID-EBB	7-Jul-06			27.8	5.71	5.74		89.0	88.4	7.6	24.8	3.7	3.8		9.0	
144	WWFCZ2	B	MID-EBB	7-Jul-06			27.6	5.89	5.60		94.0	91.2	7.6	20.1	4.1	4.1		3.0	
145	WFCZR1	S	MID-EBB	7-Jul-06	11:49	36.60	30.2	6.09	6.06	5.88	99.1	98.1	7.5	7.9	3.2	3.4	3.8	3.0	4.1
146	WFCZR1	M	MID-EBB	7-Jul-06			26.9	5.70	5.65		86.1	84.6	7.5	27.4	4.1	4.2		3.3	
147	WFCZR1	B	MID-EBB	7-Jul-06			25.8	5.58	5.40		86.7	86.9	7.5	31.0	3.8	3.9		6.0	
148	WFCZR2	S	MID-EBB	7-Jul-06	11:11	42.80	30.1	6.86	6.85	6.32	94.5	94.3	7.4	7.3	3.2	3.1	3.8	5.0	5.0
149	WFCZR2	M	MID-EBB	7-Jul-06			26.9	5.79	5.76		90.6	85.4	7.4	27.1	4.2	4.2		4.5	
150	WFCZR2	B	MID-EBB	7-Jul-06			28.1	5.50	5.47		89.6	84.8	7.4	31.2	4.3	4.1		5.5	
151	WWA1	S	MID-FLOOD	7-Jul-06	16:17	7.90	30.5	6.32	6.41	6.24	108.6	102.7	8.3	8.4	2.3	2.6	3.0	6.0	6.2
152	WWA1	M	MID-FLOOD	7-Jul-06			30.2	6.10	6.12		107.4	103.0	8.3	8.8	3.2	3.2		6.0	
153	WWA1	B	MID-FLOOD	7-Jul-06			30.0	5.88	5.85		97.0	93.0	8.3	9.6	3.3	3.4		6.5	
154	WWA2	S	MID-FLOOD	7-Jul-06	16:08	9.50	30.6	6.10	6.05	6.06	109.3	108.7	8.3	8.7	3.0	2.9	3.5	8.0	7.5
155	WWA2	M	MID-FLOOD	7-Jul-06			30.6	6.05	6.02		110.9	112.7	8.3	8.6	3.2	3.4		6.0	
156	WWA2	B	MID-FLOOD	7-Jul-06			30.4	6.04	5.98		100.3	99.9	8.3	8.7	4.2	4.2		8.5	
157	WWA3	S	MID-FLOOD	7-Jul-06	16:00	6.80	30.9	6.18	6.15	6.13	108.1	107.6	8.3	8.6	4.2	5.0	3.9	7.0	7.5
158	WWA3	M	MID-FLOOD	7-Jul-06			30.4	6.14	6.06		100.9	99.4	8.3	8.8	3.9	3.9		9.0	
159	WWA3	B	MID-FLOOD	7-Jul-06			30.5	6.09	6.02		103.0	103.1	8.3	8.8	3.2	3.4		6.5	
160	WRA1	S	MID-FLOOD	7-Jul-06	16:28	29.30	30.5	6.33	6.27	6.14	101.8	99.6	8.0	7.8	2.2	2.1	2.8	7.5	6.8
161	WRA1	M	MID-FLOOD	7-Jul-06			27.6	5.99	5.98		90.1	88.4	8.0	26.5	3.5	3.5		8.5	
162	WRA1	B	MID-FLOOD	7-Jul-06			27.0	5.89	5.86		91.9	87.6	8.0	26.8	2.9	2.8		4.5	
163	WRA2	S	MID-FLOOD	7-Jul-06	16:39	27.20	30.2	6.40	6.08	6.06	106.6	105.5	7.8	8.2	3.3	3.7	3.8	6.5	5.3
164	WRA2	M	MID-FLOOD	7-Jul-06			28.6	5.92	5.85		99.2	91.8	7.8	19.2	4.2	4.2		5.0	
165	WRA2	B	MID-FLOOD	7-Jul-06			26.6	5.44	5.42		84.1	85.0	7.8	28.9	3.8	3.7		4.5	
166	WRA3	S	MID-FLOOD	7-Jul-06	16:49	26.50	30.1	6.11	6.09	5.94	106.0	101.7	8.1	8.4	3.0	2.9	2.8	8.0	7.5
167	WRA3	M	MID-FLOOD	7-Jul-06			27.0	5.79	5.76		96.0	95.1	8.						

West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
181	WWA1	S	MID-EBB	10-Jul-06	12:50	6.70	29.1	6.53	6.50	6.25	97.0	96.2	8.3	14.6	2.7	2.9	2.9	10.0	11.5
182	WWA1	M	MID-EBB	10-Jul-06			28.7	5.98	5.99		92.6	90.1	8.3	16.7	2.6	2.5		12.5	
183	WWA1	B	MID-EBB	10-Jul-06			28.1	6.64	6.65		96.3	95.8	8.3	16.3	3.2	3.2		12.0	
184	WWA2	S	MID-EBB	10-Jul-06	12:40	8.70	29.1	6.68	6.66	6.65	100.2	99.2	8.3	14.5	3.6	3.9	4.2	9.0	11.7
185	WWA2	M	MID-EBB	10-Jul-06			29.0	6.63	6.64		94.2	96.6	8.3	14.7	4.1	4.3		11.0	
186	WWA2	B	MID-EBB	10-Jul-06			29.0	6.29	6.32		91.9	91.8	8.3	14.9	4.5	4.7		15.0	
187	WWA3	S	MID-EBB	10-Jul-06	12:30	6.90	29.3	6.22	6.30	6.15	95.0	96.4	8.3	7.3	3.9	3.8	3.7	9.0	9.5
188	WWA3	M	MID-EBB	10-Jul-06			28.9	6.04	6.02		95.6	94.7	8.3	10.4	3.8	3.8		9.5	
189	WWA3	B	MID-EBB	10-Jul-06			28.8	6.05	5.99		92.4	91.3	8.3	16.0	3.6	3.5		10.0	
190	WRA1	S	MID-EBB	10-Jul-06	13:05	27.60	29.1	6.50	6.41	6.08	102.6	102.0	8.0	13.7	1.9	2.1	2.3	10.5	9.8
191	WRA1	M	MID-EBB	10-Jul-06			27.4	5.71	5.68		88.0	87.2	8.0	24.4	2.2	2.3		10.0	
192	WRA1	B	MID-EBB	10-Jul-06			27.0	5.45	5.43		85.1	84.9	8.0	25.1	2.8	2.8		9.0	
193	WRA2	S	MID-EBB	10-Jul-06	13:17	26.90	29.2	6.08	6.00	5.81	100.0	100.6	7.6	13.5	3.1	3.2	3.6	9.0	12.5
194	WRA2	M	MID-EBB	10-Jul-06			27.8	5.54	5.60		91.1	85.4	7.6	24.0	3.7	3.6		11.0	
195	WRA2	B	MID-EBB	10-Jul-06			26.6	5.47	5.45		89.5	84.5	7.7	27.2	4.1	4.1		17.5	
196	WRA3	S	MID-EBB	10-Jul-06	13:29	26.40	29.0	6.05	6.06	5.90	99.3	98.0	8.1	13.3	1.8	1.9	2.4	10.5	10.2
197	WRA3	M	MID-EBB	10-Jul-06			27.8	5.76	5.71		86.5	85.7	8.1	22.3	2.7	2.8		7.0	
198	WRA3	B	MID-EBB	10-Jul-06			27.0	5.50	5.42		86.6	84.7	8.1	26.0	2.7	2.8		13.0	
199	WWFCZ1	S	MID-EBB	10-Jul-06	14:10	32.30	29.2	6.67	6.63	6.26	98.0	97.1	8.2	13.4	2.7	2.6	3.6	9.0	11.5
200	WWFCZ1	M	MID-EBB	10-Jul-06			27.5	5.88	5.84		85.6	84.1	8.1	24.7	4.0	3.9		6.0	
201	WWFCZ1	B	MID-EBB	10-Jul-06			26.7	5.40	5.43		83.9	84.1	8.1	27.0	4.2	4.2		19.5	
202	WWFCZ2	S	MID-EBB	10-Jul-06	13:53	33.70	29.0	6.55	6.47	6.22	102.6	101.2	8.1	13.9	3.2	3.8	3.5	13.0	15.7
203	WWFCZ2	M	MID-EBB	10-Jul-06			28.1	5.96	5.91		93.2	90.6	8.1	20.0	3.2	3.2		21.0	
204	WWFCZ2	B	MID-EBB	10-Jul-06			26.8	5.49	5.46		86.4	85.1	8.1	27.1	3.9	3.7		13.0	
205	WFCZR1	S	MID-EBB	10-Jul-06	14:25	36.90	29.1	6.45	6.39	6.17	103.8	103.7	8.2	13.6	3.2	3.4	3.7	11.5	9.3
206	WFCZR1	M	MID-EBB	10-Jul-06			27.2	5.93	5.90		91.0	87.0	8.2	26.4	4.2	4.2		8.0	
207	WFCZR1	B	MID-EBB	10-Jul-06			27.2	5.70	5.65		84.2	83.9	8.2	26.3	3.3	3.6		8.5	
208	WFCZR2	S	MID-EBB	10-Jul-06	13:41	40.50	29.1	6.34	6.20	6.06	102.0	100.9	8.2	13.7	3.3	3.0	3.0	8.0	23.2
209	WFCZR2	M	MID-EBB	10-Jul-06			27.3	5.96	5.84		88.2	86.2	8.2	25.4	2.8	2.8		10.0	
210	WFCZR2	B	MID-EBB	10-Jul-06			26.6	5.64	5.58		85.6	84.3	8.2	28.8	3.1	3.2		51.5	
211	WWA1	S	MID-FLOOD	10-Jul-06	9:20	8.10	29.1	6.16	6.05	6.16	106.7	107.5	8.1	12.7	2.5	2.8	2.8	6.5	8.2
212	WWA1	M	MID-FLOOD	10-Jul-06			28.4	6.23	6.18		109.4	107.3	8.1	15.8	2.5	2.8		8.5	
213	WWA1	B	MID-FLOOD	10-Jul-06			28.0	5.95	5.86		105.8	103.7	8.1	19.2	3.2	3.2		9.5	
214	WWA2	S	MID-FLOOD	10-Jul-06	9:10	9.70	29.2	6.24	6.17	6.17	109.2	108.7	8.1	11.5	3.8	3.6	3.1	7.0	9.2
215	WWA2	M	MID-FLOOD	10-Jul-06			28.3	6.18	6.10		109.5	108.3	8.1	11.7	2.6	2.8		7.5	
216	WWA2	B	MID-FLOOD	10-Jul-06			27.9	6.05	6.01		107.2	105.3	8.1	19.3	2.9	2.9		13.0	
217	WWA3	S	MID-FLOOD	10-Jul-06	9:00	6.90	29.2	6.36	6.27	6.39	112.5	110.3	8.1	9.7	3.2	3.2	3.3	8.0	9.8
218	WWA3	M	MID-FLOOD	10-Jul-06			28.1	6.54	6.38		115.7	113.6	8.1	15.3	3.8	3.8		11.0	
219	WWA3	B	MID-FLOOD	10-Jul-06			27.6	6.27	6.13		109.2	107.4	8.1	16.2	3.0	2.8		10.5	
220	WRA1	S	MID-FLOOD	10-Jul-06	9:33	28.70	29.2	6.16	6.23	5.99	101.5	100.3	8.1	10.9	2.1	2.1	2.7	8.5	9.2
221	WRA1	M	MID-FLOOD	10-Jul-06			28.1	5.84	5.73		97.5	96.3	8.1	23.7	3.0	2.8		11.0	
222	WRA1	B	MID-FLOOD	10-Jul-06			27.6	5.69	5.63		92.4	91.2	8.1	24.5	3.0	3.2		8.0	
223	WRA2	S	MID-FLOOD	10-Jul-06	9:48	26.90	29.3	6.16	6.09	6.01	101.7	99.5	8.0	12.1	2.8	2.6	3.1	10.5	18.2
224	WRA2	M	MID-FLOOD	10-Jul-06			28.5	5.92	5.88		98.6	97.2	8.1	23.9	3.8	3.8		16.5	
225	WRA2	B	MID-FLOOD	10-Jul-06			27.8	5.75	5.62		96.1	96.3	8.1	22.7	2.9	2.8		27.5	

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West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
226	WRA3	S	MID-FLOOD	10-Jul-06	10:02	28.10	29.5	6.24	6.16	6.13	103.2	101.5	8.1	12.7	1.9	1.9	2.4	13.0	12.2
227	WRA3	M	MID-FLOOD	10-Jul-06			28.2	6.09	6.02		99.1	98.7	8.1	23.8	2.1	2.3		18.5	
228	WRA3	B	MID-FLOOD	10-Jul-06			27.6	5.89	5.71		97.5	97.3	8.1	25.7	3.1	3.1		5.0	
229	WWFCZ1	S	MID-FLOOD	10-Jul-06	10:58	33.90	29.3	5.87	5.82	5.80	103.0	101.6	8.1	9.3	2.8	2.8	3.4	9.5	7.5
230	WWFCZ1	M	MID-FLOOD	10-Jul-06			28.7	5.74	5.69		95.9	94.6	8.1	25.1	3.1	3.2		5.5	
231	WWFCZ1	B	MID-FLOOD	10-Jul-06			28.6	5.82	5.79		96.3	95.1	8.1	25.9	4.2	4.2		7.5	
232	WWFCZ2	S	MID-FLOOD	10-Jul-06	10:29	34.70	29.5	6.12	6.09	6.07	101.2	98.7	8.1	9.2	3.3	3.1	3.2	12.0	9.5
233	WWFCZ2	M	MID-FLOOD	10-Jul-06			28.5	6.07	6.00		99.5	98.6	8.2	22.5	2.5	2.8		4.5	
234	WWFCZ2	B	MID-FLOOD	10-Jul-06			28.7	5.98	5.95		96.4	95.3	8.2	24.6	3.8	3.8		12.0	
235	WFCZR1	S	MID-FLOOD	10-Jul-06	10:43	38.60	30.0	5.87	5.64	5.77	98.7	96.5	8.1	9.2	1.7	1.7	2.0	7.0	7.5
236	WFCZR1	M	MID-FLOOD	10-Jul-06			28.9	5.83	5.75		94.8	93.5	8.2	26.3	2.1	2.1		6.5	
237	WFCZR1	B	MID-FLOOD	10-Jul-06			28.5	5.79	5.72		95.3	94.9	8.2	27.1	2.2	2.4		9.0	
238	WFCZR2	S	MID-FLOOD	10-Jul-06	10:16	40.50	29.3	6.38	6.27	6.26	104.8	102.5	8.1	8.1	2.7	3.1	3.3	9.5	8.3
239	WFCZR2	M	MID-FLOOD	10-Jul-06			28.4	6.24	6.16		105.7	104.3	8.1	23.9	2.9	2.8		6.5	
240	WFCZR2	B	MID-FLOOD	10-Jul-06			28.0	6.23	6.21		106.2	106.5	8.1	22.7	4.1	4.2		9.0	
241	WWA1	S	MID-EBB	12-Jul-06	13:50	6.80	28.4	5.93	5.86	5.80	96.2	90.5	7.6	20.1	2.9	2.6	3.0	12.5	11.2
242	WWA1	M	MID-EBB	12-Jul-06			28.2	5.74	5.68		94.5	89.9	7.6	20.9	2.6	2.7		7.5	
243	WWA1	B	MID-EBB	12-Jul-06			28.3	5.50	5.46		94.4	88.4	7.6	20.4	3.5	3.7		13.5	
244	WWA2	S	MID-EBB	12-Jul-06	13:40	8.70	28.7	5.93	5.86	5.87	97.1	93.5	7.6	19.7	3.6	3.7	3.7	4.0	6.2
245	WWA2	M	MID-EBB	12-Jul-06			28.6	5.87	5.80		96.8	91.8	7.7	20.0	4.1	4.1		8.5	
246	WWA2	B	MID-EBB	12-Jul-06			28.3	5.76	5.72		88.1	84.3	7.7	20.1	3.3	3.7		6.0	
247	WWA3	S	MID-EBB	12-Jul-06	13:30	7.20	29.3	5.92	5.89	5.83	92.6	89.8	7.6	19.4	4.2	4.2	3.9	4.5	5.5
248	WWA3	M	MID-EBB	12-Jul-06			28.8	5.79	5.71		91.9	86.6	7.6	20.4	3.8	3.8		5.5	
249	WWA3	B	MID-EBB	12-Jul-06			28.6	5.86	5.80		97.0	93.4	7.6	18.5	3.5	3.6		6.5	
250	WRA1	S	MID-EBB	12-Jul-06	14:05	31.80	28.5	5.88	5.81	5.80	93.3	86.9	8.1	19.6	2.5	2.3	2.7	6.5	7.7
251	WRA1	M	MID-EBB	12-Jul-06			27.4	5.76	5.73		94.5	89.8	8.1	25.1	2.4	2.7		5.5	
252	WRA1	B	MID-EBB	12-Jul-06			26.9	5.66	5.61		89.1	86.8	8.1	25.1	3.1	3.3		11.0	
253	WRA2	S	MID-EBB	12-Jul-06	14:16	28.70	28.9	5.96	5.91	5.87	96.4	91.3	8.2	18.2	3.0	2.9	2.7	4.5	7.5
254	WRA2	M	MID-EBB	12-Jul-06			28.3	5.82	5.80		93.6	91.5	8.2	20.4	2.1	2.3		5.5	
255	WRA2	B	MID-EBB	12-Jul-06			26.9	5.66	5.62		89.7	87.3	8.2	26.8	3.0	2.9		12.5	
256	WRA3	S	MID-EBB	12-Jul-06	14:27	26.40	28.9	5.95	5.90	5.87	95.9	89.6	8.4	18.0					



West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
271	WWA1	S	MID-FLOOD	12-Jul-06	10:28	7.80	26.9	5.96	5.91	5.86	96.8	90.1	7.5	24.4	2.9	2.8	2.8	4.0	6.0
272	WWA1	M	MID-FLOOD	12-Jul-06			26.8	5.82	5.76		92.1	87.3	7.5	26.2	2.5	2.9		7.0	
273	WWA1	B	MID-FLOOD	12-Jul-06			26.4	5.56	5.50		90.7	85.6	7.5	27.1	2.6	2.9		7.0	
274	WWA2	S	MID-FLOOD	12-Jul-06	10:38	10.00	27.1	5.89	5.58	5.68	92.8	87.3	7.6	23.9	3.2	3.2	3.6	4.5	5.3
275	WWA2	M	MID-FLOOD	12-Jul-06			26.9	5.81	5.62		93.5	88.1	7.6	26.9	3.9	3.8		5.0	
276	WWA2	B	MID-FLOOD	12-Jul-06			26.4	5.45	5.42		89.8	84.9	7.6	27.8	3.6	3.7		6.5	
277	WWA3	S	MID-FLOOD	12-Jul-06	10:48	8.40	27.3	5.88	5.82	5.78	93.1	87.6	7.6	23.7	4.2	4.4	4.4	5.0	7.2
278	WWA3	M	MID-FLOOD	12-Jul-06			26.9	5.73	5.69		84.0	87.3	7.6	25.8	4.1	4.1		10.0	
279	WWA3	B	MID-FLOOD	12-Jul-06			27.0	5.56	5.48		92.4	88.4	7.6	24.8	4.9	4.7		6.5	
280	WRA1	S	MID-FLOOD	12-Jul-06	10:17	33.60	27.7	5.98	5.81	5.78	96.7	88.4	8.1	21.1	2.2	2.1	2.4	8.5	7.7
281	WRA1	M	MID-FLOOD	12-Jul-06			26.1	5.69	5.64		97.4	90.6	8.1	28.6	2.2	2.5		7.5	
282	WRA1	B	MID-FLOOD	12-Jul-06			25.8	5.60	5.48		89.1	84.3	8.1	31.1	2.7	2.8		7.0	
283	WRA2	S	MID-FLOOD	12-Jul-06	10:05	30.00	26.8	5.96	5.89	5.54	97.5	94.5	8.1	23.7	3.0	3.0	2.7	6.5	6.5
284	WRA2	M	MID-FLOOD	12-Jul-06			25.4	5.68	5.55		95.4	90.0	8.1	30.5	2.9	2.7		4.5	
285	WRA2	B	MID-FLOOD	12-Jul-06			25.5	5.49	5.41		93.3	87.7	8.1	31.5	2.5	2.2		8.5	
286	WRA3	S	MID-FLOOD	12-Jul-06	9:53	27.20	27.6	5.99	5.90	5.55	97.8	91.8	8.2	21.5	2.8	2.5	3.3	5.5	7.7
287	WRA3	M	MID-FLOOD	12-Jul-06			26.0	5.80	5.73		94.0	85.8	8.1	30.2	3.2	3.5		10.0	
288	WRA3	B	MID-FLOOD	12-Jul-06			25.6	5.60	5.50		89.6	85.7	8.2	30.8	3.8	3.8		7.5	
289	WWFCZ1	S	MID-FLOOD	12-Jul-06	9:14	35.00	27.8	5.93	5.91	5.91	94.3	86.6	8.2	21.9	3.2	3.2	3.2	4.0	5.2
290	WWFCZ1	M	MID-FLOOD	12-Jul-06			26.1	5.94	5.86		89.1	84.7	8.2	29.5	3.0	2.8		6.5	
291	WWFCZ1	B	MID-FLOOD	12-Jul-06			26.2	5.55	5.50		92.9	87.6	8.2	30.0	3.5	3.3		5.0	
292	WWFCZ2	S	MID-FLOOD	12-Jul-06	9:26	34.60	28.0	6.02	5.81	5.94	95.6	90.0	8.1	20.8	2.1	2.1	2.6	9.5	7.0
293	WWFCZ2	M	MID-FLOOD	12-Jul-06			25.9	5.99	5.93		95.4	89.6	8.1	30.6	2.5	2.8		5.0	
294	WWFCZ2	B	MID-FLOOD	12-Jul-06			25.3	5.60	5.53		93.1	88.6	8.1	30.6	3.1	3.2		6.5	
295	WFCZR1	S	MID-FLOOD	12-Jul-06	9:00	39.00	27.2	5.99	5.89	5.83	92.0	88.2	8.2	25.7	3.0	2.5	2.9	5.0	6.8
296	WFCZR1	M	MID-FLOOD	12-Jul-06			25.7	5.73	5.69		90.3	86.3	8.1	29.9	3.0	3.2		7.5	
297	WFCZR1	B	MID-FLOOD	12-Jul-06			25.6	5.50	5.40		94.9	88.8	8.1	30.9	2.9	2.8		8.0	
298	WFCZR2	S	MID-FLOOD	12-Jul-06	9:39	44.00	27.6	5.99	5.91	5.88	93.5	91.7	8.1	21.0	3.1	3.3	3.7	6.0	8.7
299	WFCZR2	M	MID-FLOOD	12-Jul-06			25.6	5.86	5.75		93.2	86.6	8.1	30.4	3.5	3.8		7.5	
300	WFCZR2	B	MID-FLOOD	12-Jul-06			25.2	5.60	5.52		89.2	86.0	8.1	31.4	4.2	4.5		12.5	
301	WWA1	S	MID-EBB	14-Jul-06	15:18	7.60	28.2	5.93	5.66	5.82	92.9	87.6	8.0	22.1	3.0	2.8	2.9	7.5	11.3
302	WWA1	M	MID-EBB	14-Jul-06			27.9	5.76	5.71		93.4	88.4	8.0	23.6	3.1	3.3		15.5	
303	WWA1	B	MID-EBB	14-Jul-06			27.7	5.66	5.53		89.4	85.8	8.1	24.3	2.9	2.6		11.0	
304	WWA2	S	MID-EBB	14-Jul-06	15:09	9.30	28.4	5.99	5.90	5.87	95.9	92.1	8.1	22.4	4.2	4.1	3.5	6.0	9.5
305	WWA2	M	MID-EBB	14-Jul-06			28.2	5.80	5.77		94.3	89.9	8.1	23.2	3.3	3.2		10.5	
306	WWA2	B	MID-EBB	14-Jul-06			28.1	5.62	5.51		94.0	90.9	8.1	23.4	3.3	3.0		12.0	
307	WWA3	S	MID-EBB	14-Jul-06	15:00	7.20	29.3	5.89	5.84	5.85	88.7	86.7	8.0	10.2	2.6	2.7	2.9	4.0	5.7
308	WWA3	M	MID-EBB	14-Jul-06			28.9	5.88	5.79		94.4	92.1	8.0	23.1	2.9	2.7		8.5	
309	WWA3	B	MID-EBB	14-Jul-06			28.2	5.80	5.75		93.8	90.3	8.0	23.2	3.2	3.4		4.5	
310	WRA1	S	MID-EBB	14-Jul-06	15:30	32.80	29.1	5.85	5.80	5.75	93.1	90.0	8.0	19.3	4.0	3.8	3.8	10.0	12.2
311	WRA1	M	MID-EBB	14-Jul-06			26.2	5.70	5.65		91.9	85.0	8.0	30.0	4.2	4.2		12.5	
312	WRA1	B	MID-EBB	14-Jul-06			25.1	5.60	5.52		91.7	84.0	8.0	21.2	3.2	3.2		14.0	
313	WRA2	S	MID-EBB	14-Jul-06	15:40	29.20	28.6	5.91	5.90	5.87	97.4	92.4	8.0	19.9	4.2	4.1	3.7	6.0	7.5
314	WRA2	M	MID-EBB	14-Jul-06			27.9	5.86	5.81		96.1	90.9	8.0	22.7	3.8	3.4		5.0	
315	WRA2	B	MID-EBB	14-Jul-06			26.3	5.60	5.53		88.5	84.9	8.0	30.2	3.2	3.2		11.5	

West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
316	WRA3	S	MID-EBB	14-Jul-06	15:51	27.90	28.5	5.92	5.66	5.81	91.1	87.0	8.1	19.9	3.1	2.9	2.8	5.5	9.7
317	WRA3	M	MID-EBB	14-Jul-06			28.6	5.74	5.70		90.0	86.3	8.1	27.9	2.7	2.8		13.5	
318	WRA3	B	MID-EBB	14-Jul-06			26.9	5.60	5.50		89.2	86.4	8.1	25.8	2.9	2.8		10.0	
319	WWFCZ1	S	MID-EBB	14-Jul-06	16:31	31.70	29.1	5.92	5.82	5.81	93.9	92.9	8.2	17.3	2.9	2.6	3.4	9.0	12.5
320	WWFCZ1	M	MID-EBB	14-Jul-06			26.8	5.79	5.71		95.4	87.0	8.2	30.1	3.2	3.2		14.5	
321	WWFCZ1	B	MID-EBB	14-Jul-06			27.0	5.61	5.56		86.0	83.1	8.2	26.6	4.2	4.2		14.0	
322	WWFCZ2	S	MID-EBB	14-Jul-06	16:08	36.50	29.1	5.86	5.84	5.80	94.6	91.7	8.2	17.2	3.1	3.6	3.3	7.5	8.0
323	WWFCZ2	M	MID-EBB	14-Jul-06			27.4	5.79	5.71		92.7	87.8	8.2	25.7	2.9	2.8		7.5	
324	WWFCZ2	B	MID-EBB	14-Jul-06			26.0	5.61	5.52		90.8	87.2	8.2	30.0	3.9	3.6		9.0	
325	WFCZR1	S	MID-EBB	14-Jul-06	16:20	37.20	29.3	5.85	5.83	5.77	93.8	91.8	8.1	17.2	3.2	3.4	3.3	5.5	7.5
326	WFCZR1	M	MID-EBB	14-Jul-06			26.6	5.71	5.69		88.9	87.4	8.1	28.3	3.3	3.4		8.5	
327	WFCZR1	B	MID-EBB	14-Jul-06			28.8	5.51	5.44		88.9	84.2	8.1	27.0	3.2	3.2		13.0	
328	WFCZR2	S	MID-EBB	14-Jul-06	15:53	39.70	29.5	5.86	5.80	5.76	93.4	91.0	8.1	17.1	4.2	4.2	4.1	9.5	11.8
329	WFCZR2	M	MID-EBB	14-Jul-06			27.1	5.71	5.66		86.9	82.3	8.1	26.0	3.8	3.6		9.5	
330	WFCZR2	B	MID-EBB	14-Jul-06			26.0	5.56	5.48		85.0	80.0	8.1	30.5	4.2	4.4		13.0	
331	WWA1	S	MID-FLOOD	14-Jul-06	10:55	8.40	26.0	5.93	5.89	5.79	94.2	86.4	8.1	28.5	3.4	3.0	3.0	4.0	4.8
332	WWA1	M	MID-FLOOD	14-Jul-06			26.2	5.69	5.63		90.4	86.0	8.1	28.5	2.9	2.6		6.0	
333	WWA1	B	MID-FLOOD	14-Jul-06			26.3	5.49	5.42		94.6	88.1	8.1	28.7	2.9	3.0		4.5	
334	WWA2	S	MID-FLOOD	14-Jul-06	11:04	10.10	26.5	5.86	5.83	5.75	95.1	90.0	8.2	26.4	3.1	3.2	3.6	7.0	9.7
335	WWA2	M	MID-FLOOD	14-Jul-06			26.3	5.70	5.61		91.7	86.5	8.2	28.5	4.1	4.2		9.5	
336	WWA2	B	MID-FLOOD	14-Jul-06			26.1	5.44	5.40		89.6	85.2	8.2	28.6	3.2	3.6		12.5	
337	WWA3	S	MID-FLOOD	14-Jul-06	11:13	8.00	26.4	5.80	5.72	5.67	89.8	86.1	8.1	28.2	2.8	2.7	2.9	4.5	6.2
338	WWA3	M	MID-FLOOD	14-Jul-06			26.3	5.60	5.55		90.0	84.6	8.1	28.5	2.5	2.6		5.5	
339	WWA3	B	MID-FLOOD	14-Jul-06			26.2	5.44	5.41		91.0	84.1	8.1	28.5	3.2	3.5		8.5	
340	WRA1	S	MID-FLOOD	14-Jul-06	10:45	34.00	27.6	5.87	5.82	5.74	94.4	87.3	8.1	22.9	5.0	4.8	3.9	6.0	5.7
341	WRA1	M	MID-FLOOD	14-Jul-06			26.2	5.66	5.61		86.2	84.8	8.1	29.2	3.8	3.8		5.5	
342	WRA1	B	MID-FLOOD	14-Jul-06			25.5	5.56	5.51		87.4	83.9	8.1	30.0	2.8	3.0		5.5	
343	WRA2	S	MID-FLOOD	14-Jul-06	10:34	30.40	26.1	5.93	5.87	5.54	93.2	86.0	8.1	28.4	3.0	3.2	3.5	11.0	8.3
344	WRA2	M	MID-FLOOD	14-Jul-06			25.8	5.69	5.60		87.4	85.6	8.1	29.9	3.9	3.6		6.0	
345	WRA2	B	MID-FLOOD	14-Jul-06			25.2	5.50	5.42		88.2	84.0	8.1	30.8	3.2	3.9		8.0	
346	WRA3	S	MID-FLOOD	14-Jul-06	10:23	29.80	26.4	5.86	5.80	5.72	94.0	85.0	8.1	28.1	2.9	2.7	3.4	8.5	8.5
347	WRA3																		

West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
361	WWA1	S	MID-EBB	17-Jul-06	17:27	8.30	26.9	5.80	5.75	5.69	93.2	88.8	8.1	19.9	2.8	3.0	2.8	4.5	5.8
362	WWA1	M	MID-EBB	17-Jul-06			26.9	5.64	5.58		94.9	91.1	8.1	20.6	2.9	2.2		6.5	
363	WWA1	B	MID-EBB	17-Jul-06			26.7	5.51	5.46		89.2	86.0	8.1	21.5	3.1	3.2		6.5	
364	WWA2	S	MID-EBB	17-Jul-06	17:37	10.10	27.3	5.94	5.90	5.84	98.8	94.0	8.1	18.1	2.5	2.9	2.9	5.0	6.5
365	WWA2	M	MID-EBB	17-Jul-06			26.8	5.79	5.71		95.6	92.4	8.1	21.4	2.9	2.6		6.5	
366	WWA2	B	MID-EBB	17-Jul-06			26.8	5.60	5.54		91.4	87.7	8.1	21.3	3.1	3.2		8.0	
367	WWA3	S	MID-EBB	17-Jul-06	17:46	8.10	27.2	5.91	5.86	5.80	97.1	93.7	8.0	18.8	3.0	2.9	2.8	4.0	5.3
368	WWA3	M	MID-EBB	17-Jul-06			26.9	5.74	5.67		90.7	87.5	8.0	20.7	2.6	2.5		6.0	
369	WWA3	B	MID-EBB	17-Jul-06			26.9	5.52	5.48		89.3	86.3	8.0	20.8	2.8	2.9		6.0	
370	WRA1	S	MID-EBB	17-Jul-06	17:17	33.20	28.3	6.12	6.00	5.95	95.4	92.6	8.0	13.4	3.8	3.8	3.9	12.0	11.5
371	WRA1	M	MID-EBB	17-Jul-06			25.6	5.88	5.79		90.4	86.4	8.0	27.6	3.2	4.0		15.0	
372	WRA1	B	MID-EBB	17-Jul-06			25.2	5.50	5.48		87.0	85.2	8.0	29.1	4.1	4.2		7.5	
373	WRA2	S	MID-EBB	17-Jul-06	17:07	29.70	27.6	5.96	5.90	5.85	96.8	92.5	8.0	16.9	3.7	3.7	3.1	8.5	7.3
374	WRA2	M	MID-EBB	17-Jul-06			26.3	5.80	5.74		92.4	88.8	8.0	23.4	3.0	2.9		6.0	
375	WRA2	B	MID-EBB	17-Jul-06			25.0	5.62	5.50		89.6	84.3	8.0	30.2	2.6	2.7		7.5	
376	WRA3	S	MID-EBB	17-Jul-06	16:55	30.20	27.5	5.89	5.80	5.77	97.1	97.8	8.0	19.0	3.2	3.2	3.7	6.5	6.0
377	WRA3	M	MID-EBB	17-Jul-06			25.6	5.72	5.66		94.4	90.0	8.0	26.6	3.8	3.7		6.0	
378	WRA3	B	MID-EBB	17-Jul-06			26.1	5.50	5.40		92.7	87.7	8.0	30.0	4.1	4.2		5.5	
379	WWFCZ1	S	MID-EBB	17-Jul-06	16:13	32.50	27.2	5.89	5.82	5.79	93.2	90.1	8.0	20.2	2.8	2.7	3.3	4.5	6.5
380	WWFCZ1	M	MID-EBB	17-Jul-06			25.0	5.86	5.58		92.4	88.6	8.0	29.0	3.4	3.7		5.5	
381	WWFCZ1	B	MID-EBB	17-Jul-06			24.4	5.50	5.44		91.6	87.9	8.0	31.1	3.9	3.7		9.0	
382	WWFCZ2	S	MID-EBB	17-Jul-06	16:26	31.70	27.8	5.98	5.89	5.80	94.1	90.7	8.1	14.7	2.5	2.8	3.4	6.5	7.5
383	WWFCZ2	M	MID-EBB	17-Jul-06			25.8	5.69	5.63		92.7	88.5	8.1	27.8	3.2	4.0		7.0	
384	WWFCZ2	B	MID-EBB	17-Jul-06			24.7	5.48	5.41		89.6	84.4	8.1	30.3	4.1	4.1		6.0	
385	WFCZR1	S	MID-EBB	17-Jul-06	16:00	36.50	28.0	5.90	5.82	5.76	93.0	90.6	7.7	11.6	2.9	2.8	2.9	6.0	6.0
386	WFCZR1	M	MID-EBB	17-Jul-06			27.2	5.70	5.62		91.7	87.4	7.7	21.6	2.5	2.8		6.0	
387	WFCZR1	B	MID-EBB	17-Jul-06			25.2	5.53	5.46		89.4	85.8	7.7	31.3	3.1	3.2		6.0	
388	WFCZR2	S	MID-EBB	17-Jul-06	16:40	39.80	27.7	5.89	5.81	5.74	95.6	91.4	7.9	17.5	4.2	4.1	4.0	5.0	7.3
389	WFCZR2	M	MID-EBB	17-Jul-06			25.4	5.65	5.59		94.6	90.0	7.9	27.5	3.8	3.8		6.5	
390	WFCZR2	B	MID-EBB	17-Jul-06			25.3	5.50	5.41		89.5	85.4	7.9	30.2	4.1	4.2		10.5	
391	WWA1	S	MID-FLOOD	17-Jul-06	12:26	9.20	28.2	5.95	5.91	5.88	96.6	93.0	8.2	12.4	3.5	3.9	3.2	7.0	6.5
392	WWA1	M	MID-FLOOD	17-Jul-06			28.0	5.84	5.80		96.0	92.5	8.2	13.8	2.8	2.7		7.0	
393	WWA1	B	MID-FLOOD	17-Jul-06			28.0	5.98	5.94		94.2	92.4	8.2	13.3	3.2	3.3		5.5	
394	WWA2	S	MID-FLOOD	17-Jul-06	12:35	11.30	28.1	6.18	6.13	5.99	99.5	95.0	8.2	12.4	3.2	3.3	3.8	11.0	9.2
395	WWA2	M	MID-FLOOD	17-Jul-06			28.0	5.84	5.79		92.6	88.5	8.2	13.9	4.1	4.1		9.5	
396	WWA2	B	MID-FLOOD	17-Jul-06			27.8	5.85	5.80		96.4	92.2	8.2	14.9	4.1	4.1		7.0	
397	WWA3	S	MID-FLOOD	17-Jul-06	12:45	9.20	28.1	5.88	5.90	5.92	99.2	93.8	8.2	12.4	3.6	3.6	3.6	5.5	7.5
398	WWA3	M	MID-FLOOD	17-Jul-06			28.6	5.92	5.96		98.8	91.8	8.2	12.9	4.0	3.8		8.0	
399	WWA3	B	MID-FLOOD	17-Jul-06			27.7	5.99	5.91		94.4	93.3	8.2	14.2	3.4	3.3		9.0	
400	WRA1	S	MID-FLOOD	17-Jul-06	12:17	34.80	27.7	6.10	6.06	5.96	99.9	95.9	8.1	12.4	4.0	3.6	3.6	8.0	6.8
401	WRA1	M	MID-FLOOD	17-Jul-06			26.1	5.86	5.81		98.7	93.5	8.1	25.5	2.9	2.9		5.5	
402	WRA1	B	MID-FLOOD	17-Jul-06			26.1	5.81	5.73		92.0	87.0	8.1	27.2	4.2	4.4		7.0	
403	WRA2	S	MID-FLOOD	17-Jul-06	12:05	31.20	27.5	5.97	5.90	5.85	95.9	92.1	8.1	12.2	3.2	3.1	3.7	7.0	8.2
404	WRA2	M	MID-FLOOD	17-Jul-06			26.2	5.80	5.74		91.8	88.0	8.1	24.9	3.7	3.5		6.5	
405	WRA2	B	MID-FLOOD	17-Jul-06			25.2	5.62	5.56		90.0	86.1	8.1	28.5	4.2	4.2		11.0	

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Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
406	WRA3	S	MID-FLOOD	17-Jul-06	11:53	31.90	29.1	5.99	5.93	5.86	96.0	92.0	8.1	12.7	3.2	3.9	3.3	5.0	8.2
407	WRA3	M	MID-FLOOD	17-Jul-06			26.4	5.78	5.72		94.0	89.2	8.1	24.3	2.8	2.8		8.5	
408	WRA3	B	MID-FLOOD	17-Jul-06			26.1	5.60	5.53		91.2	87.5	8.1	24.7	3.6	3.7		11.0	
409	WWFCZ1	S	MID-FLOOD	17-Jul-06	11:13	34.10	27.5	5.99	5.92	5.87	100.3	94.9	8.0	25.9	2.8	2.8	3.3	8.5	11.8
410	WWFCZ1	M	MID-FLOOD	17-Jul-06			26.7	5.81	5.76		97.0	91.0	8.0	21.6	3.4	3.3		13.0	
411	WWFCZ1	B	MID-FLOOD	17-Jul-06			25.6	5.60	5.55		91.3	85.2	8.0	28.4	3.9	3.6		14.0	
412	WWFCZ2	S	MID-FLOOD	17-Jul-06	11:26	33.80	27.4	6.12	6.02	5.98	99.8	95.6	8.1	12.3	3.1	3.2	3.6	5.0	7.2
413	WWFCZ2	M	MID-FLOOD	17-Jul-06			26.2	5.92	5.84		89.2	84.4	8.1	24.6	3.3	3.9		8.5	
414	WWFCZ2	B	MID-FLOOD	17-Jul-06			26.2	5.63	5.52		88.7	85.0	8.1	24.5	4.2	4.1		8.0	
415	WFCZR1	S	MID-FLOOD	17-Jul-06	11:00	39.60	29.3	5.99	5.92	5.89	95.0	92.8	8.1	12.2	3.2	3.4	3.2	9.0	9.3
416	WFCZR1	M	MID-FLOOD	17-Jul-06			26.3	5.86	5.80		89.7	86.2	8.1	26.2	3.2	3.0		10.0	
417	WFCZR1	B	MID-FLOOD	17-Jul-06			25.4	5.72	5.61		90.0	84.2	8.1	28.1	3.2	3.3		9.0	
418	WFCZR2	S	MID-FLOOD	17-Jul-06	11:39	41.00	27.6	5.96	5.93	5.86	100.2	96.3	8.1	12.3	4.2	4.2	3.9	9.0	9.3
419	WFCZR2	M	MID-FLOOD	17-Jul-06			26.4	5.87	5.68		97.1	93.6	8.1	25.3	3.7	3.9		6.5	
420	WFCZR2	B	MID-FLOOD	17-Jul-06			25.3	5.54	5.45		92.6	87.1	8.1	29.2	3.9	3.6		12.5	
421	WWA1	S	MID-EBB	19-Jul-06	9:49	7.00	28.8	5.78	5.74	5.67	89.6	89.1	7.8	5.5	9.8	10.3	9.1	9.0	7.8
422	WWA1	M	MID-EBB	19-Jul-06			28.9	5.60	5.56		86.8	85.1	7.8	6.3	9.6	9.6		7.0	
423	WWA1	B	MID-EBB	19-Jul-06			28.8	5.49	5.43		85.2	84.3	7.8	7.0	7.5	7.7		8.0	
424	WWA2	S	MID-EBB	19-Jul-06	9:40	9.60	28.7	5.80	5.74	5.69	93.4	88.9	7.9	6.5	11.4	11.6	10.2	8.0	9.2
425	WWA2	M	MID-EBB	19-Jul-06			28.7	5.65	5.58		86.2	87.7	7.8	7.3	8.8	9.5		10.0	
426	WWA2	B	MID-EBB	19-Jul-06			28.4	5.50	5.46		86.0	84.6	7.8	9.6	9.7	10.1		9.5	
427	WWA3	S	MID-EBB	19-Jul-06	9:30	6.70	28.8	5.80	5.76	5.68	93.0	90.3	7.9	6.1	8.1	7.8	9.3	8.5	12.2
428	WWA3	M	MID-EBB	19-Jul-06			28.3	5.62	5.55		89.7	86.4	7.9	10.0	9.9	10.2		14.0	
429	WWA3	B	MID-EBB	19-Jul-06			28.3	5.46	5.42		86.2	83.6	7.8	9.5	10.4	9.7		14.0	
430	WRA1	S	MID-EBB	19-Jul-06	10:03	28.40	28.8	5.80	5.74	5.70	91.6	89.2	8.0	7.0	4.6	4.5	4.9	7.5	6.5
431	WRA1	M	MID-EBB	19-Jul-06			26.1	5.66	5.60		90.6	86.4	8.0	24.7	5.2	5.1		5.5	
432	WRA1	B	MID-EBB	19-Jul-06			25.5	5.52	5.42		89.0	84.0	8.0	27.8	5.0	5.0		6.5	
433	WRA2	S	MID-EBB	19-Jul-06	10:14	24.90	28.4	5.90	5.85	5.80	92.5	86.5	8.1	7.4	8.8	9.3	6.4	7.0	7.7
434	WRA2	M	MID-EBB	19-Jul-06			26.5	5.76	5.70		91.9	88.5	8.1	23.3	5.1	4.8		7.0	
435	WRA2	B	MID-EBB	19-Jul-06			25.0	5.60	5.49		87.0	83.2	8.1	29.1	5.4	5.3		9.0	
436	WRA3	S	MID-EBB	19-Jul-06	10:26	24.10	28.8	5.82	5.76	5.73	90.0	89.0	8.1	7.4	7.9	8.1	6.0	8.0	8.5
437																			



West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
451	WWA1	S	MID-FLOOD	19-Jul-06	16:10	8.10	27.8	5.98	5.92	5.88	95.7	91.2	7.9	12.2	6.5	6.6	5.3	7.0	6.7
452	WWA1	M	MID-FLOOD	19-Jul-06			27.0	5.83	5.79		89.2	85.6	7.9	20.7	5.0	4.6		6.5	
453	WWA1	B	MID-FLOOD	19-Jul-06	16:19	11.00	26.2	5.44	5.40	5.74	93.1	86.0	7.7	10.3	5.9	5.7	4.8	7.5	7.0
454	WWA2	S	MID-FLOOD	19-Jul-06			28.8	5.84	5.80		90.6	86.6	7.7	21.3	4.6	4.4		5.0	
455	WWA2	M	MID-FLOOD	19-Jul-06	16:29	7.80	26.0	5.50	5.46	5.48	92.9	86.6	7.7	24.5	4.2	4.2	4.8	8.5	7.3
456	WWA2	B	MID-FLOOD	19-Jul-06			28.4	5.88	5.83		95.1	91.2	7.9	10.5	6.6	6.5		7.0	
457	WWA3	S	MID-FLOOD	19-Jul-06	15:55	32.80	26.8	5.64	5.61	5.75	92.9	89.7	7.9	21.0	3.8	3.9	4.9	6.0	6.7
458	WWA3	M	MID-FLOOD	19-Jul-06			26.5	5.49	5.41		88.2	86.4	7.9	23.1	4.0	4.1		5.5	
459	WWA3	B	MID-FLOOD	19-Jul-06	15:45	27.70	28.6	5.89	5.80	5.83	97.2	90.9	8.0	11.5	6.0	5.9	4.9	6.0	9.3
460	WRA1	S	MID-FLOOD	19-Jul-06			25.6	5.67	5.62		92.6	87.6	8.0	26.2	4.7	3.8		5.5	
461	WRA1	M	MID-FLOOD	19-Jul-06	15:35	26.80	24.7	5.48	5.42	5.59	87.9	85.0	8.0	30.9	4.5	4.6	5.3	8.5	10.0
462	WRA1	B	MID-FLOOD	19-Jul-06			28.0	5.96	5.84		97.9	92.7	8.1	11.4	6.1	6.1		6.0	
463	WRA2	S	MID-FLOOD	19-Jul-06	14:57	37.30	26.2	5.80	5.73	5.83	90.0	85.1	8.1	26.0	4.0	3.8	4.1	10.0	8.2
464	WRA2	M	MID-FLOOD	19-Jul-06			24.2	5.62	5.56		89.7	84.8	8.1	31.1	4.6	4.9		12.0	
465	WRA2	B	MID-FLOOD	19-Jul-06	15:10	35.60	26.8	5.97	5.93	5.85	96.2	91.8	8.0	12.2	5.9	5.9	4.7	12.0	9.2
466	WRA3	S	MID-FLOOD	19-Jul-06			25.2	5.84	5.80		87.7	85.6	8.0	29.2	4.5	4.7		6.5	
467	WRA3	M	MID-FLOOD	19-Jul-06	14:57	37.30	24.1	5.64	5.56	5.62	87.4	86.5	8.0	31.7	5.4	5.5	4.1	11.5	8.2
468	WRA3	B	MID-FLOOD	19-Jul-06			29.0	6.10	6.02		98.6	92.7	7.7	8.7	6.6	6.4		9.0	
469	WWFCZ1	S	MID-FLOOD	19-Jul-06	14:45	44.20	29.2	5.86	5.80	5.85	87.6	86.9	7.7	30.6	3.6	3.6	4.7	6.5	8.0
470	WWFCZ1	M	MID-FLOOD	19-Jul-06			24.9	5.65	5.58		86.4	85.8	7.7	29.5	2.1	2.1		9.0	
471	WWFCZ1	B	MID-FLOOD	19-Jul-06	15:23	41.40	28.3	5.96	5.88	5.91	94.8	89.2	7.5	10.8	5.5	5.5	5.4	8.5	8.7
472	WWFCZ2	S	MID-FLOOD	19-Jul-06			24.9	5.56	5.49		89.0	86.4	7.5	29.5	4.7	4.3		8.5	
473	WWFCZ2	M	MID-FLOOD	19-Jul-06	10:09	7.30	25.0	5.80	5.76	5.68	94.0	87.3	7.5	30.1	4.2	3.9	7.6	10.5	4.1
474	WWFCZ2	B	MID-FLOOD	19-Jul-06			24.6	5.61	5.57		89.3	81.3	7.9	12.6	6.5	5.3		7.0	
475	WFCZR1	S	MID-FLOOD	19-Jul-06	10:00	10.50	29.0	5.98	5.90	5.84	94.3	91.3	7.9	12.6	6.5	5.3	7.7	9.0	5.2
476	WFCZR1	M	MID-FLOOD	19-Jul-06			25.1	5.62	5.76		88.9	86.9	7.9	30.8	4.6	4.1		8.0	
477	WFCZR1	B	MID-FLOOD	19-Jul-06	9:50	8.20	24.2	5.64	5.56	5.68	89.3	87.0	7.9	32.0	4.7	4.7	8.1	8.0	5.1
478	WFCZR2	S	MID-FLOOD	19-Jul-06			28.1	6.02	5.96		97.1	92.2	7.4	12.0	6.0	6.0		7.0	
479	WFCZR2	M	MID-FLOOD	19-Jul-06	10:22	29.20	27.0	5.88	5.79	5.53	89.6	87.6	7.4	22.7	3.5	3.6	5.9	8.0	8.7
480	WFCZR2	B	MID-FLOOD	19-Jul-06			24.9	5.56	5.49		90.6	87.6	7.4	31.1	6.7	6.8		11.0	
481	WWA1	S	MID-EBB	21-Jul-06	10:09	7.30	28.9	5.58	5.54	5.64	86.4	84.0	7.9	8.1	6.0	7.9	7.7	3.3	5.2
482	WWA1	M	MID-EBB	21-Jul-06			28.8	5.77	5.78		89.9	86.9	7.9	6.1	7.5	8.3		4.0	
483	WWA1	B	MID-EBB	21-Jul-06	10:00	10.50	28.7	5.70	5.66	5.68	87.9	86.1	8.0	8.9	6.9	7.1	8.1	5.0	5.1
484	WWA2	S	MID-EBB	21-Jul-06			28.8	5.70	5.62		88.3	85.7	8.0	8.0	8.2	6.4		4.5	
485	WWA2	M	MID-EBB	21-Jul-06	9:50	8.20	28.6	5.84	5.80	5.68	93.7	90.1	8.0	9.0	7.0	7.2	5.9	5.5	8.7
486	WWA2	B	MID-EBB	21-Jul-06			28.8	5.72	5.59		91.6	88.6	8.0	9.0	7.6	7.9		5.5	
487	WWA3	S	MID-EBB	21-Jul-06	10:22	29.20	29.2	5.80	5.74	5.53	86.4	85.9	7.9	8.0	8.2	8.1	5.9	3.3	5.2
488	WWA3	M	MID-EBB	21-Jul-06			28.6	5.91	5.89		90.1	88.1	7.9	8.9	7.9	8.1		5.0	
489	WWA3	B	MID-EBB	21-Jul-06	10:33	25.30	26.9	5.70	5.66	5.45	89.5	86.2	7.9	8.3	7.9	8.3	5.9	7.0	8.0
490	WRA1	S	MID-EBB	21-Jul-06			28.2	5.56	5.48		86.4	83.8	7.3	9.6	7.7	7.8		5.0	
491	WRA1	M	MID-EBB	21-Jul-06	10:09	7.30	25.2	5.50	5.45	5.50	83.7	80.9	7.3	30.4	4.9	5.4	7.7	8.5	8.7
492	WRA1	B	MID-EBB	21-Jul-06			24.3	5.48	5.42		89.7	83.5	7.3	31.8	4.7	5.0		12.5	
493	WRA2	S	MID-EBB	21-Jul-06	10:33	25.30	28.1	5.81	5.76	5.77	97.4	90.9	7.3	9.1	8.2	8.2	5.9	6.5	8.3
494	WRA2	M	MID-EBB	21-Jul-06			25.7	5.78	5.72		88.3	84.5	7.3	26.3	4.3	4.9		9.5	
495	WRA2	B	MID-EBB	21-Jul-06			24.4	5.46	5.41	5.44	89.9	85.0	7.3	32.0	4.8	4.8		9.0	

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West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
496	WRA3	S	MID-EBB	21-Jul-06	10:45	24.60	27.8	5.82	5.80	5.73	94.7	69.1	7.3	8.6	7.7	7.7	5.9	3.5	5.7
497	WRA3	M	MID-EBB	21-Jul-06			26.2	5.70	5.60		87.5	81.6	7.3	25.1	4.5	4.7		7.5	
498	WRA3	B	MID-EBB	21-Jul-06	11:24	29.90	24.6	5.50	5.43	5.47	90.4	85.8	7.3	30.9	5.3	5.6	4.5	6.0	5.0
499	WWFCZ1	S	MID-EBB	21-Jul-06			28.3	5.86	5.82		97.2	89.2	7.4	7.5	6.1	5.9		3.0	
500	WWFCZ1	M	MID-EBB	21-Jul-06	11:12	30.70	25.6	5.69	5.60	5.69	86.6	82.9	7.5	27.8	3.9	4.0	4.0	7.0	5.3
501	WWFCZ1	B	MID-EBB	21-Jul-06			24.5	5.48	5.41		85.2	80.7	7.5	31.5	3.7	3.5		6.0	
502	WWFCZ2	S	MID-EBB	21-Jul-06	11:37	36.50	27.9	5.88	5.79	5.73	92.7	87.4	7.6	7.2	6.5	6.5	3.8	6.0	6.0
503	WWFCZ2	M	MID-EBB	21-Jul-06			24.9	5.59	5.49		82.6	80.9	7.6	29.5	2.5	2.7		5.5	
504	WWFCZ2	B	MID-EBB	21-Jul-06	11:00	40.30	25.1	5.69	5.50	5.50	94.3	88.4	7.6	30.0	3.0	3.0	4.8	4.5	6.8
505	WFCZR1	S	MID-EBB	21-Jul-06			27.7	5.86	5.83		95.1	89.2	7.9	7.8	5.6	5.4		6.0	
506	WFCZR1	M	MID-EBB	21-Jul-06	16:16	8.70	26.0	5.66	5.58	5.81	91.8	88.5	7.9	28.6	2.8	2.7	5.9	6.5	6.0
507	WFCZR1	B	MID-EBB	21-Jul-06			24.8	5.44	5.40		92.8	86.0	7.9	31.5	3.2	3.1		5.5	
508	WFCZR2	S	MID-EBB	21-Jul-06	16:00	8.60	26.3	5.89	5.81	5.75	95.8	90.1	7.4	29.0	6.1	6.1	5.7	8.5	7.0
509	WFCZR2	M	MID-EBB	21-Jul-06			29.4	5.71	5.69		86.4	82.2	7.4	29.0	6.1	6.1		7.5	
510	WFCZR2	B	MID-EBB	21-Jul-06	16:51	26.10	24.3	5.54	5.46	5.45	88.0	84.1	7.4	31.1	3.0	3.1	5.4	4.5	6.8
511	WWA1	S	MID-FLOOD	21-Jul-06			30.1	5.70	5.67		88.7	84.0	7.4	6.0	6.0	8.0		6.0	
512	WWA1	M	MID-FLOOD	21-Jul-06	16:00	8.60	29.0	5.95	5.90	5.58	92.9	88.9	7.4	9.2	6.0	6.1	5.7	5.5	6.0
513	WWA1	B	MID-FLOOD	21-Jul-06			28.8	5.62	5.54		86.8	84.8	7.4	10.4	5.7	5.8		6.5	
514	WWA2	S	MID-FLOOD	21-Jul-06	16:08	11.80	29.8	5.80	5.74	5.71	92.6	87.7	7.4	5.9	6.0	5.2	5.7	5.0	7.0
515	WWA2	M	MID-FLOOD	21-Jul-06			28.4	5.66	5.63		95.0	89.5	7.4	13.6	5.2	5.2		8.0	
516	WWA2	B	MID-FLOOD	21-Jul-06	16:28	29.20	28.3	5.48	5.41	5.46	93.2	89.9	7.4	9.2	6.6	6.0	4.2	8.0	4.5
517	WWA3	S	MID-FLOOD	21-Jul-06			31.0	5.89	5.82		89.1	85.4	7.4	5.9	5.3	5.2		5.0	
518	WWA3	M	MID-FLOOD	21-Jul-06	17:28	33.50	29.6	5.69	5.59	5.55	89.1	84.5	7.4	8.8	5.9	5.6	5.8	5.5	5.5
519	WWA3	B	MID-FLOOD	21-Jul-06			28.6	5.51	5.46		92.0	86.5	7.4	13.4	6.4	5.8		10.5	
520	WRA1	S	MID-FLOOD	21-Jul-06	16:51	26.10	29.9	5.74	5.70	5.49	90.0	85.8	7.4	5.7	5.3	5.9	5.7	3.5	7.0
521	WRA1	M	MID-FLOOD	21-Jul-06			27.0	5.69	5.60		87.4	84.1	7.4	19.7	3.2	2.8		3.0	
522	WRA1	B	MID-FLOOD	21-Jul-06	17:05	41.60	26.5	5.49	5.43	5.59	94.3	88.1	7.4	21.2	4.				

West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
541	WWA1	S	MID-EBB	24-Jul-06	14:08	6.20	29.1	6.29	6.19	6.16	95.9	95.1	7.3	13.7	5.6	5.4	5.6	7.0	6.2
542	WWA1	M	MID-EBB	24-Jul-06			29.0	6.11	6.06		91.5	90.7	7.3	14.7	6.1	6.1		5.5	
543	WWA1	B	MID-EBB	24-Jul-06			29.0	6.01	6.00		92.5	91.5	7.3	14.9	4.9	5.4		6.0	
544	WWA2	S	MID-EBB	24-Jul-06			28.9	6.11	6.07		92.0	90.6	7.3	15.0	5.7	6.3		6.0	
545	WWA2	M	MID-EBB	24-Jul-06	13:58	9.50	28.7	6.02	5.99	6.05	94.8	94.4	7.3	15.9	7.1	7.4	6.9	9.0	8.3
546	WWA2	B	MID-EBB	24-Jul-06			28.8	6.12	6.05		93.7	92.5	7.3	16.0	7.6	7.2		10.0	
547	WWA3	S	MID-EBB	24-Jul-06			29.6	6.40	6.32		89.3	88.9	7.3	9.9	6.1	6.2		7.0	
548	WWA3	M	MID-EBB	24-Jul-06			29.1	6.24	6.18		92.7	92.5	7.3	15.3	6.9	6.6		8.5	
549	WWA3	B	MID-EBB	24-Jul-06	13:50	6.50	28.9	6.00	5.99	6.00	91.2	90.4	7.3	15.7	7.5	7.5	6.8	9.0	8.2
550	WRA1	S	MID-EBB	24-Jul-06			29.2	6.13	6.08		92.3	90.0	7.3	13.5	6.3	5.8		5.0	
551	WRA1	M	MID-EBB	24-Jul-06			27.0	5.80	5.73		86.0	81.9	7.3	26.8	6.1	7.6		8.5	
552	WRA1	B	MID-EBB	24-Jul-06			26.5	5.51	5.46		86.9	83.2	7.3	27.0	6.9	6.9		7.5	
553	WRA2	S	MID-EBB	24-Jul-06	14:19	29.00	28.5	6.17	6.12	5.94	94.6	93.4	7.3	14.5	5.9	5.8	6.9	6.0	7.0
554	WRA2	M	MID-EBB	24-Jul-06			27.7	5.80	5.68		87.7	85.6	7.3	17.7	4.2	4.4		5.0	
555	WRA2	B	MID-EBB	24-Jul-06			27.0	5.50	5.46		90.5	87.3	7.3	21.5	4.6	4.3		6.0	
556	WRA3	S	MID-EBB	24-Jul-06			28.6	6.11	6.04		95.4	93.7	7.3	14.3	5.3	5.7		7.0	
557	WRA3	M	MID-EBB	24-Jul-06	14:41	24.20	27.5	5.76	5.68	5.90	88.0	84.2	7.3	20.6	3.9	3.7	5.1	8.5	10.7
558	WRA3	B	MID-EBB	24-Jul-06			26.8	5.60	5.50		85.9	82.7	7.3	25.6	6.3	5.9		16.5	
559	WWFCZ1	S	MID-EBB	24-Jul-06			29.2	6.20	6.19		93.9	92.1	7.7	12.8	5.9	6.3		5.0	
560	WWFCZ1	M	MID-EBB	24-Jul-06			27.4	5.80	5.75		86.1	82.0	7.7	20.8	3.5	3.5		6.5	
561	WWFCZ1	B	MID-EBB	24-Jul-06	15:20	32.70	27.4	5.60	5.48	5.54	84.5	80.9	7.7	24.3	7.1	6.7	5.5	10.5	7.3
562	WWFCZ2	S	MID-EBB	24-Jul-06			28.8	6.03	5.96		99.9	98.4	7.7	13.0	6.0	6.4		4.5	
563	WWFCZ2	M	MID-EBB	24-Jul-06			27.0	5.76	5.70		90.5	86.5	7.7	26.1	9.9	8.9		13.5	
564	WWFCZ2	B	MID-EBB	24-Jul-06			26.4	5.51	5.46		91.2	87.2	7.7	26.8	9.9	10.2		11.5	
565	WFCZR1	S	MID-EBB	24-Jul-06	15:33	38.10	29.2	6.13	6.07	5.92	97.3	93.8	7.5	13.6	6.5	6.6	8.6	8.0	9.8
566	WFCZR1	M	MID-EBB	24-Jul-06			27.8	5.78	5.69		87.6	84.2	7.5	19.8	4.1	4.0		11.5	
567	WFCZR1	B	MID-EBB	24-Jul-06			26.5	5.50	5.46		87.6	83.8	7.5	27.0	6.2	6.0		7.5	
568	WFCZR2	S	MID-EBB	24-Jul-06			29.3	6.10	6.11		95.1	93.6	7.4	12.3	6.5	6.2		5.0	
569	WFCZR2	M	MID-EBB	24-Jul-06	14:53	40.00	26.2	5.70	5.64	5.89	87.0	86.1	7.4	27.5	9.5	9.8	10.6	15.5	13.8
570	WFCZR2	B	MID-EBB	24-Jul-06			26.6	5.50	5.42		84.5	80.1	7.4	26.5	16.4	15.1		21.0	
571	WWA1	S	MID-FLOOD	24-Jul-06			28.3	6.76	6.09		95.9	94.9	8.2	15.8	4.1	4.4		4.0	
572	WWA1	M	MID-FLOOD	24-Jul-06			27.4	5.88	5.57		91.8	88.8	8.2	10.2	3.8	3.6		4.0	
573	WWA1	B	MID-FLOOD	24-Jul-06	9:34	9.40	27.6	6.08	6.09	6.03	92.5	91.2	8.2	18.4	4.0	4.1	4.0	3.5	3.8
574	WWA2	S	MID-FLOOD	24-Jul-06			27.8	5.47	5.93		93.2	90.5	8.2	17.5	4.0	4.2		8.0	
575	WWA2	M	MID-FLOOD	24-Jul-06			27.5	5.88	5.79		97.7	91.8	8.2	20.5	3.9	3.7		6.5	
576	WWA2	B	MID-FLOOD	24-Jul-06			27.4	5.84	5.85		91.9	89.7	8.2	20.4	5.0	4.7		6.5	
577	WWA3	S	MID-FLOOD	24-Jul-06	9:15	9.20	28.3	6.00	5.93	5.82	92.5	90.6	8.2	17.9	3.9	3.9	4.2	6.5	7.0
578	WWA3	M	MID-FLOOD	24-Jul-06			27.7	5.69	5.64		93.2	91.3	8.2	21.5	4.6	4.3		10.5	
579	WWA3	B	MID-FLOOD	24-Jul-06			27.7	5.48	5.44		92.4	89.9	8.2	21.3	4.6	5.0		9.5	
580	WRA1	S	MID-FLOOD	24-Jul-06			28.4	6.13	6.01		95.8	93.7	8.2	14.7	4.4	4.6		6.5	
581	WRA1	M	MID-FLOOD	24-Jul-06	9:46	28.60	25.7	5.65	5.60	5.85	86.5	83.5	8.2	28.7	4.4	4.5	4.4	9.0	7.0
582	WRA1	B	MID-FLOOD	24-Jul-06			25.1	5.50	5.42		87.5	83.1	8.2	29.2	4.3	4.2		5.5	
583	WRA2	S	MID-FLOOD	24-Jul-06			28.1	6.24	6.21		97.1	94.9	8.2	15.4	4.5	5.0		4.0	
584	WRA2	M	MID-FLOOD	24-Jul-06			25.5	5.90	5.82		90.8	87.8	8.2	27.9	2.6	3.3		5.5	
585	WRA2	B	MID-FLOOD	24-Jul-06	25.8	5.50	5.45	87.1	83.4	8.2	26.1	2.9	3.2	6.5					

West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
586	WRA3	S	MID-FLOOD	24-Jul-06	10:08	27.50	28.1	6.05	5.99	5.90	97.0	93.7	8.1	15.2	4.6	4.4	4.0	5.0	5.2
587	WRA3	M	MID-FLOOD	24-Jul-06			26.1	5.80	5.74		91.2	88.4	8.1	25.4	3.0	3.1		5.0	
588	WRA3	B	MID-FLOOD	24-Jul-06			26.7	5.51	5.46		90.9	86.7	8.1	23.7	4.5	4.3		5.5	
589	WWFCZ1	S	MID-FLOOD	24-Jul-06			27.9	6.10	6.01		95.9	94.3	8.2	16.2	4.4	4.3		6.0	
590	WWFCZ1	M	MID-FLOOD	24-Jul-06	10:43	34.50	26.1	5.80	5.75	5.92	87.8	83.7	8.2	29.1	4.2	4.4	3.9	8.5	7.2
591	WWFCZ1	B	MID-FLOOD	24-Jul-06			25.8	5.60	5.51		90.6	87.9	8.2	27.1	3.1	3.3		7.0	
592	WWFCZ2	S	MID-FLOOD	24-Jul-06			28.0	6.15	6.08		96.0	94.1	8.2	13.4	4.6	5.1		8.0	
593	WWFCZ2	M	MID-FLOOD	24-Jul-06			26.5	5.70	5.63		86.1	85.4	8.2	24.9	2.8	2.9		8.0	
594	WWFCZ2	B	MID-FLOOD	24-Jul-06	10:32	35.70	26.2	5.50	5.41	5.46	86.6	86.0	8.2	25.8	3.5	3.9	3.8	6.5	7.5
595	WFCZR1	S	MID-FLOOD	24-Jul-06			27.8	6.10	6.03		97.4	95.6	8.2	16.3	4.3	4.7		5.0	
596	WFCZR1	M	MID-FLOOD	24-Jul-06			26.7	5.85	5.80		88.6	85.4	8.2	23.2	3.6	3.6		6.0	
597	WFCZR1	B	MID-FLOOD	24-Jul-06			25.2	5.60	5.56		85.4	84.8	8.2	29.5	3.2	3.0		6.5	
598	WFCZR2	S	MID-FLOOD	24-Jul-06	10:20	41.10	28.2	5.95	5.89	5.79	92.2	91.8	8.2	16.0	4.2	4.2	3.6	5.5	5.5
599	WFCZR2	M	MID-FLOOD	24-Jul-06			26.0	5.70	5.60		87.9	85.0	8.2	29.4	3.3	3.5		6.0	
600	WFCZR2	B	MID-FLOOD	24-Jul-06			25.6	5.48	5.42		86.0	82.3	8.2	30.9	2.9	2.9		5.0	
601	WWA1	S	MID-EBB	26-Jul-06			27.2	6.02	5.97		93.6	91.5	7.9	18.0	4.0	3.7		9.0	
602	WWA1	M	MID-EBB	26-Jul-06	14:18	6.20	27.1	6.00	5.98	5.99	92.4	90.5	7.9	18.8	4.3	4.3	4.2	7.0	7.8
603	WWA1	B	MID-EBB	26-Jul-06			27.1	5.87	5.81		92.5	90.4	7.9	19.0	4.4	4.5		7.5	
604	WWA2	S	MID-EBB	26-Jul-06			27.3	5.83	5.73		91.7	88.4	7.9	18.5	3.8	3.8		6.5	
605	WWA2	M	MID-EBB	26-Jul-06			27.2	6.03	6.04		91.9	89.8	7.9	18.8	4.4	4.8		12.0	
606	WWA2	B	MID-EBB	26-Jul-06	14:09	10.80	27.2	5.62	5.54	5.58	90.8	88.6	7.9	18.6	4.3	4.3	4.2	8.5	9.0
607	WWA3	S	MID-EBB	26-Jul-06			27.8	6.12	6.06		89.0	87.7	7.9	9.0	3.4	3.2		8.0	
608	WWA3	M	MID-EBB	26-Jul-06			27.1	5.76	5.71		88.0	87.3	7.9	20.4	5.0	4.4		9.5	
609	WWA3	B	MID-EBB	26-Jul-06			27.0	5.76	5.70		93.6	91.4	7.9	20.4	4.5	4.4		12.5	
610	WRA1	S	MID-EBB	26-Jul-06	14:00	7.40	27.6	5.96	5.92	5.92	93.8	91.1	7.9	19.3	3.6	3.9	4.1	6.0	10.0
611	WRA1	M	MID-EBB	26-Jul-06			27.7	6.02	5.95		88.9	89.9	7.9	26.3	4.1	4.0		14.0	
612	WRA1	B	MID-EBB	26-Jul-06			24.8	5.82	5.70		86.6	82.8	7.9	30.3	4.5	4.7		11.0	
613	WRA2	S	MID-EBB	26-Jul-06			27.0	6.01	5.91		96.9	94.2	7.9	17.3	3.8	4.1		6.5	
614	WRA2	M	MID-EBB	26-Jul-06	14:42	26.50	25.7	5.70	5.65	5.82	89.2	83.1	7.9	27.3	9.6	9.2	8.0	15.5	13.7
615	WRA2	B	MID-EBB	26-Jul-06			25.0	5.53	5.46		84.4	80.7	7.9	29.7	11.2	10.2		19.0	
616	WRA3	S	MID-EBB	26-Jul-06			27.6	6.04	6.00		94.4	90.9	7.9	16.9	3.8	3.6		7.5	
617	WRA3	M	MID-EBB	26-Jul-06			26.7	5.79	5.72		83.8	82.9	7.9	21.7	3.8	4.0		6.0	
618	WRA3	B	MID-EBB	26-Jul-06	14:54	24.70	26.2	5.54	5.46	5.89	89.1	85.7	7.9	24.4	4.3	4.0	3.9	8.0	7.2
619	WWFCZ1	S	MID-EBB	26-Jul-06			27.3	6.12	6.06		93.6	90.6	8.2						

West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
631	WWA1	S	MID-FLOOD	26-Jul-06	9:17	7.80	26.2	5.85	5.62	5.76	88.9	84.5	8.2	22.4	2.7	3.8	3.6	4.5	5.3
632	WWA1	M	MID-FLOOD	26-Jul-06			25.9	5.70	5.66		91.2	88.1	8.2	27.2	3.0	3.4		5.0	
633	WWA1	B	MID-FLOOD	26-Jul-06			25.2	5.44	5.41		89.9	85.0	8.2	28.6	4.2	4.3		6.5	
634	WWA2	S	MID-FLOOD	26-Jul-06	9:09	11.60	25.5	5.87	5.80	5.77	87.6	86.0	8.1	27.4	4.2	10.2	5.2	10.0	10.8
635	WWA2	M	MID-FLOOD	26-Jul-06			25.5	5.76	5.65		89.1	86.9	8.1	27.4	3.3	3.5		7.0	
636	WWA2	B	MID-FLOOD	26-Jul-06			25.6	5.40	5.47		86.2	84.9	8.1	27.7	2.7	2.6		15.0	
637	WWA3	S	MID-FLOOD	26-Jul-06	9:00	8.00	26.1	5.93	5.88	5.77	88.6	83.4	8.1	26.7	6.9	6.7	4.1	8.5	12.3
638	WWA3	M	MID-FLOOD	26-Jul-06			25.9	5.68	5.60		90.4	87.3	8.1	27.4	2.5	2.6		13.5	
639	WWA3	B	MID-FLOOD	26-Jul-06			25.5	5.53	5.48		90.1	86.7	8.1	27.7	2.9	2.8		6.0	
640	WRA1	S	MID-FLOOD	26-Jul-06	9:28	31.20	26.6	5.85	5.78	5.79	95.7	92.6	8.1	20.9	3.3	3.3	3.1	6.5	6.5
641	WRA1	M	MID-FLOOD	26-Jul-06			24.8	5.80	5.72		86.3	82.9	8.1	30.6	2.9	3.1		7.0	
642	WRA1	B	MID-FLOOD	26-Jul-06			24.5	5.60	5.53		85.2	81.6	8.1	30.9	3.0	2.9		12.0	
643	WRA2	S	MID-FLOOD	26-Jul-06	9:39	27.10	26.5	5.93	5.86	5.83	93.1	89.8	8.2	29.7	2.6	2.6	2.7	5.0	7.7
644	WRA2	M	MID-FLOOD	26-Jul-06			25.3	5.78	5.76		91.3	88.0	8.2	30.8	2.8	2.4		6.0	
645	WRA2	B	MID-FLOOD	26-Jul-06			24.5	5.70	5.60		91.1	86.6	8.2	30.8	2.6	2.9		3.0	
646	WRA3	S	MID-FLOOD	26-Jul-06	9:50	26.50	26.7	5.92	5.86	5.82	92.4	88.7	8.2	20.4	3.1	2.5	2.7	6.0	4.8
647	WRA3	M	MID-FLOOD	26-Jul-06			25.8	5.80	5.69		92.0	89.0	8.2	27.6	2.9	2.3		5.5	
648	WRA3	B	MID-FLOOD	26-Jul-06			24.6	5.46	5.40		88.4	84.8	8.2	31.0	2.7	2.9		8.0	
649	WWFCZ1	S	MID-FLOOD	26-Jul-06	10:27	36.40	26.4	5.82	5.76	5.73	96.0	92.2	8.2	20.4	3.2	3.2	3.9	10.0	9.7
650	WWFCZ1	M	MID-FLOOD	26-Jul-06			25.3	5.69	5.63		91.0	87.7	8.2	29.0	3.3	2.9		5.5	
651	WWFCZ1	B	MID-FLOOD	26-Jul-06			24.4	5.48	5.41		86.0	84.3	8.2	31.0	5.0	5.9		8.5	
652	WWFCZ2	S	MID-FLOOD	26-Jul-06	10:15	36.00	26.4	5.91	5.90	5.82	99.2	90.8	8.2	19.8	2.6	2.6	3.5	9.5	7.8
653	WWFCZ2	M	MID-FLOOD	26-Jul-06			25.2	5.76	5.69		91.7	87.1	8.2	30.1	2.5	2.7		8.0	
654	WWFCZ2	B	MID-FLOOD	26-Jul-06			24.5	5.59	5.50		88.2	84.6	8.2	31.5	5.8	4.9		9.5	
655	WFCZR1	S	MID-FLOOD	26-Jul-06	10:39	41.40	26.4	5.90	5.86	5.78	92.1	86.5	8.2	31.7	2.8	2.8	3.4	4.3	7.3
656	WFCZR1	M	MID-FLOOD	26-Jul-06			26.3	5.70	5.67		89.5	86.8	8.2	20.9	3.9	3.1		9.0	
657	WFCZR1	B	MID-FLOOD	26-Jul-06			24.7	5.58	5.50		89.5	86.1	8.2	30.7	3.5	4.0		8.0	
658	WFCZR2	S	MID-FLOOD	26-Jul-06	10:03	43.30	26.8	5.90	5.82	5.76	93.7	90.1	8.2	20.4	2.8	3.5	4.4	10.5	10.0
659	WFCZR2	M	MID-FLOOD	26-Jul-06			24.9	5.70	5.63		86.6	84.0	8.2	30.3	4.6	4.7		8.0	
660	WFCZR2	B	MID-FLOOD	26-Jul-06			24.5	5.53	5.47		88.1	84.2	8.2	30.1	5.4	5.3		10.5	
661	WWA1	S	MID-EBB	28-Jul-06	16:37	9.20	26.1	5.90	5.80	5.77	85.0	81.0	8.2	22.6	2.8	3.5	3.4	8.5	14.7
662	WWA1	M	MID-EBB	28-Jul-06			25.7	5.71	5.65		86.9	83.9	8.2	25.5	4.6	3.5		18.0	
663	WWA1	B	MID-EBB	28-Jul-06			25.0	5.50	5.40		86.0	85.1	8.2	26.4	2.8	3.0		17.5	
664	WWA2	S	MID-EBB	28-Jul-06	16:49	8.30	25.8	5.80	5.74	5.72	88.6	84.5	8.2	25.0	2.8	3.1	2.9	7.5	8.3
665	WWA2	M	MID-EBB	28-Jul-06			25.9	5.71	5.64		83.6	83.0	8.2	25.6	2.5	2.5		9.5	
666	WWA2	B	MID-EBB	28-Jul-06			25.9	5.50	5.44		84.7	85.0	8.2	26.0	3.5	3.0		8.0	
667	WWA3	S	MID-EBB	28-Jul-06	16:59	7.50	26.4	5.84	5.76	5.77	87.1	84.6	8.2	13.7	3.2	3.2	3.1	10.5	9.7
668	WWA3	M	MID-EBB	28-Jul-06			25.7	5.78	5.70		87.7	84.6	8.2	26.0	2.9	3.3		9.5	
669	WWA3	B	MID-EBB	28-Jul-06			25.7	5.60	5.54		89.2	86.3	8.2	24.4	2.8	3.0		9.0	
670	WRA1	S	MID-EBB	28-Jul-06	16:23	32.70	25.1	5.92	5.86	5.80	94.0	91.6	8.2	21.7	3.5	3.5	4.2	5.0	11.7
671	WRA1	M	MID-EBB	28-Jul-06			24.7	5.76	5.66		89.1	85.0	8.2	27.9	4.0	4.2		14.0	
672	WRA1	B	MID-EBB	28-Jul-06			24.4	5.50	5.48		87.7	83.6	8.2	26.1	5.2	5.1		16.0	
673	WRA2	S	MID-EBB	28-Jul-06	16:09	26.50	25.8	5.90	5.84	5.77	93.7	89.6	8.2	21.6	3.0	3.3	3.0	6.0	11.0
674	WRA2	M	MID-EBB	28-Jul-06			24.3	5.69	5.66		87.7	84.0	8.2	29.7	3.7	3.3		15.5	
675	WRA2	B	MID-EBB	28-Jul-06			24.5	5.58	5.50		89.1	85.4	8.2	28.3	2.6	2.5		11.5	

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West Contract No.HY/2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
676	WRA3	S	MID-EBB	28-Jul-06	15:59	28.30	25.7	5.93	5.79	5.74	94.0	85.7	8.2	21.1	2.3	2.7	3.5	6.5	11.0
677	WRA3	M	MID-EBB	28-Jul-06			24.7	5.66	5.59		92.4	88.0	8.2	28.2	4.1	4.0		12.5	
678	WRA3	B	MID-EBB	28-Jul-06			24.2	5.49	5.41		86.7	84.3	8.2	28.1	3.9	4.2		14.0	
679	WWFCZ1	S	MID-EBB	28-Jul-06	15:44	31.20	25.6	5.90	5.83	5.80	92.1	91.8	8.2	21.5	3.1	2.9	4.4	8.0	9.8
680	WWFCZ1	M	MID-EBB	28-Jul-06			24.4	5.78	5.70		89.4	84.9	8.2	29.6	5.6	5.3		8.5	
681	WWFCZ1	B	MID-EBB	28-Jul-06			24.3	5.60	5.52		88.0	84.0	8.2	29.0	4.8	4.9		13.0	
682	WWFCZ2	S	MID-EBB	28-Jul-06	15:28	39.80	25.9	5.86	5.82	5.71	82.7	88.3	8.2	21.4	3.0	3.2	4.7	7.0	7.7
683	WWFCZ2	M	MID-EBB	28-Jul-06			24.6	5.60	5.55		85.4	81.3	8.2	28.8	5.2	5.4		8.0	
684	WWFCZ2	B	MID-EBB	28-Jul-06			24.3	5.60	5.48		86.6	82.0	8.2	29.3	5.5	5.7		6.0	
685	WFCZR1	S	MID-EBB	28-Jul-06	15:13	41.50	25.9	5.92	5.85	5.79	97.0	91.9	8.2	21.6	3.0	2.9	4.1	7.5	6.8
686	WFCZR1	M	MID-EBB	28-Jul-06			24.8	5.74	5.65		90.5	86.2	8.2	27.5	5.1	4.7		4.0	
687	WFCZR1	B	MID-EBB	28-Jul-06			24.6	5.60	5.51		88.5	84.2	8.2	28.4	4.3	4.3		6.0	
688	WFCZR2	S	MID-EBB	28-Jul-06	15:00	42.70	25.8	5.96	5.91	5.88	89.6	84.1	8.2	20.1	2.9	2.9	4.3	7.5	9.0
689	WFCZR2	M	MID-EBB	28-Jul-06			24.7	5.85	5.80		89.1	85.0	8.2	27.4	5.0	4.8		4.0	
690	WFCZR2	B	MID-EBB	28-Jul-06			24.6	5.60	5.52		87.5	83.1	8.2	17.3	5.1	5.1		15.5	
691	WWA1	S	MID-FLOOD	28-Jul-06	11:00	9.30	24.7	5.80	5.74	5.71	88.8	85.6	8.2	28.9	3.9	4.3	6.4	8.0	8.3
692	WWA1	M	MID-FLOOD	28-Jul-06			24.7	5.69	5.60		92.7	87.2	8.2	29.0	5.5	4.0		9.0	
693	WWA1	B	MID-FLOOD	28-Jul-06			24.7	5.46	5.41		85.9	82.1	8.2	29.2	10.7	10.2		8.0	
694	WWA2	S	MID-FLOOD	28-Jul-06	11:08	8.70	24.8	5.86	5.84	5.76	90.3	86.1	8.2	28.5	4.0	4.3	4.3	6.5	6.0
695	WWA2	M	MID-FLOOD	28-Jul-06			24.7	5.68	5.64		92.2	88.7	8.2	28.9	4.4	4.1		7.5	
696	WWA2	B	MID-FLOOD	28-Jul-06			24.6	5.50	5.42		90.7	85.6	8.2	29.3	4.4	4.3		8.0	
697	WWA3	S	MID-FLOOD	28-Jul-06	11:19	8.40	25.0	5.86	5.79	5.73	96.7	86.4	8.2	27.3	4.0	4.0	4.3	6.5	6.2
698	WWA3	M	MID-FLOOD	28-Jul-06			24.7	5.66	5.59		91.9	88.6	8.2	28.9	4.5	4.3		11.0	
699	WWA3	B	MID-FLOOD	28-Jul-06			24.8	5.46	5.40		87.8	84.2	8.2	28.9	4.4	4.6		9.0	
700	WRA1	S	MID-FLOOD	28-Jul-06	10:44	33.90	25.1	5.76	5.70	5.67	92.4	86.7	8.2	26.5	3.1	3.2	7.0	7.0	9.8
701	WRA1	M	MID-FLOOD	28-Jul-06			24.3	5.62	5.58		87.3	83.2	8.2	30.4	8.8	9.5		12.0	
702	WRA1	B	MID-FLOOD	28-Jul-06			24.1	5.56	5.48		88.9	84.3	8.2	31.3	9.3	8.0		10.5	
703	WRA2	S	MID-FLOOD	28-Jul-06	10:32	27.00	25.4	5.82	5.79	5.72	90.4	86.2	8.2	24.2	3.6	3.5	6.6	6.0	6.2
704	WRA2	M	MID-FLOOD	28-Jul-06			24.9	5.68	5.59		82.6	79.6	8.2	29.3	9.5	9.2		6.5	
705	WRA2	B	MID-FLOOD	28-Jul-06			24.6	5.52	5.46		88.6	84.6	8.2	30.1	6.9	6.9		6.0	
706	WRA3	S	MID-FLOOD	28-Jul-06	10:20	28.70	24.8	5.86	5.82	5.77	88.3	83.2	8.2	28.6	4.0	3.4	6.5	6.0	7.2
707	W																		



West Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
721	WWA1	S	MID-EBB	31-Jul-06	15:20	7.40	26.4	5.79	5.68	5.63	91.7	88.2	8.0	21.5	2.5	2.8	2.7	4.0	4.6
722	WWA1	M	MID-EBB	31-Jul-06			26.1	5.56	5.50		90.6	87.7	8.0	23.8	2.6	2.7		6.5	
723	WWA1	B	MID-EBB	31-Jul-06			25.7	5.44	5.40		86.6	84.6	8.0	25.6	2.6	2.7		3.3	
724	WWA2	S	MID-EBB	31-Jul-06	15:10	10.30	26.6	5.68	5.80	5.77	89.0	85.4	8.1	22.1	2.7	2.8	2.7	5.5	4.5
725	WWA2	M	MID-EBB	31-Jul-06			25.6	5.72	5.66		92.0	89.5	8.1	22.6	2.5	2.6		3.8	
726	WWA2	B	MID-EBB	31-Jul-06			25.1	5.60	5.50		89.9	86.8	8.1	25.0	2.7	2.9		4.3	
727	WWA3	S	MID-EBB	31-Jul-06	15:00	7.23	27.2	5.86	5.79	5.74	88.8	84.1	8.2	22.1	2.3	2.5	2.5	7.5	8.2
728	WWA3	M	MID-EBB	31-Jul-06			26.2	5.70	5.60		89.1	86.0	8.2	25.0	2.5	2.3		7.5	
729	WWA3	B	MID-EBB	31-Jul-06			26.0	5.53	5.48		87.4	85.4	8.2	24.8	2.6	2.5		9.5	
730	WRA1	S	MID-EBB	31-Jul-06	15:33	29.40	26.2	5.88	5.76	5.75	91.8	88.1	8.0	22.0	2.8	2.9	2.9	6.0	7.8
731	WRA1	M	MID-EBB	31-Jul-06			24.8	5.70	5.64		86.0	84.1	8.0	29.1	2.8	2.5		7.0	
732	WRA1	B	MID-EBB	31-Jul-06			24.7	5.56	5.49		86.4	82.4	8.0	29.7	3.2	3.1		10.5	
733	WRA2	S	MID-EBB	31-Jul-06	15:44	22.50	26.2	5.82	5.79	5.72	91.9	86.5	8.1	22.0	2.7	3.3	3.2	4.0	6.7
734	WRA2	M	MID-EBB	31-Jul-06			24.6	5.66	5.60		89.4	85.5	8.1	29.3	3.5	3.3		7.0	
735	WRA2	B	MID-EBB	31-Jul-06			24.4	5.51	5.43		84.5	80.7	8.1	29.7	3.5	2.9		9.0	
736	WRA3	S	MID-EBB	31-Jul-06	15:56	28.70	26.2	5.90	5.81	5.77	96.3	90.9	8.1	22.0	2.6	2.6	3.3	4.5	6.0
737	WRA3	M	MID-EBB	31-Jul-06			24.7	5.72	5.66		89.8	85.8	8.1	29.5	3.9	4.1		8.0	
738	WRA3	B	MID-EBB	31-Jul-06			24.5	5.54	5.46		87.6	84.1	8.1	30.4	3.2	3.4		5.5	
739	WWFCZ1	S	MID-EBB	31-Jul-06	16:32	30.90	25.8	5.90	5.79	5.74	93.5	89.9	8.0	22.5	2.6	2.7	3.1	2.5	6.8
740	WWFCZ1	M	MID-EBB	31-Jul-06			24.5	5.66	5.60		84.9	80.6	8.0	29.4	3.1	4.1		8.0	
741	WWFCZ1	B	MID-EBB	31-Jul-06			24.3	5.54	5.47		88.2	84.7	8.0	29.9	3.1	2.9		10.0	
742	WWFCZ2	S	MID-EBB	31-Jul-06	16:20	36.50	25.9	5.76	5.70	5.65	93.5	90.2	8.0	22.4	3.3	3.1	3.0	4.5	8.0
743	WWFCZ2	M	MID-EBB	31-Jul-06			24.6	5.60	5.54		86.4	82.1	8.0	29.0	3.4	3.6		9.0	
744	WWFCZ2	B	MID-EBB	31-Jul-06			24.5	5.50	5.43		80.0	77.2	8.0	29.7	2.1	2.6		10.5	
745	WFCZR1	S	MID-EBB	31-Jul-06	16:45	40.30	26.4	5.86	5.78	5.75	95.5	91.5	8.1	22.7	3.3	3.4	3.4	3.0	5.3
746	WFCZR1	M	MID-EBB	31-Jul-06			25.1	5.71	5.63		90.2	86.3	8.1	29.9	4.2	4.0		5.3	
747	WFCZR1	B	MID-EBB	31-Jul-06			24.4	5.49	5.42		86.1	81.8	8.1	30.6	2.8	3.1		7.5	
748	WFCZR2	S	MID-EBB	31-Jul-06	16:08	41.20	26.3	5.84	5.79	5.77	93.5	89.6	8.0	22.8	4.3	4.1	4.1	6.5	6.2
749	WFCZR2	M	MID-EBB	31-Jul-06			24.6	5.76	5.68		85.4	84.6	8.0	28.9	4.2	3.9		6.5	
750	WFCZR2	B	MID-EBB	31-Jul-06			24.4	5.50	5.46		85.5	81.9	8.0	30.5	3.9	4.0		5.5	
751	WWA1	S	MID-FLOOD	31-Jul-06	11:20	8.00	26.0	5.79	5.70	5.69	93.8	90.2	8.1	21.1	3.4	3.4	3.2	5.5	5.7
752	WWA1	M	MID-FLOOD	31-Jul-06			25.8	5.65	5.60		92.6	89.4	8.1	23.1	3.2	3.2		8.0	
753	WWA1	B	MID-FLOOD	31-Jul-06			25.6	5.50	5.42		86.5	83.5	8.1	23.3	3.0	2.8		3.5	
754	WWA2	S	MID-FLOOD	31-Jul-06	11:29	11.50	26.1	5.84	5.80	5.76	93.7	90.0	8.2	20.6	2.8	2.5	2.6	5.8	5.8
755	WWA2	M	MID-FLOOD	31-Jul-06			25.8	5.74	5.66		89.6	86.3	8.2	22.9	2.9	2.8		6.0	
756	WWA2	B	MID-FLOOD	31-Jul-06			25.6	5.50	5.45		91.7	88.2	8.2	23.7	2.2	2.3		5.5	
757	WWA3	S	MID-FLOOD	31-Jul-06	11:39	7.80	26.0	5.79	5.74	5.70	87.7	84.4	8.2	23.3	2.6	2.5	2.7	6.0	8.3
758	WWA3	M	MID-FLOOD	31-Jul-06			25.7	5.66	5.60		90.7	86.0	8.2	23.3	3.4	3.2		11.5	
759	WWA3	B	MID-FLOOD	31-Jul-06			25.6	5.50	5.46		87.7	83.0	8.2	24.1	2.3	2.6		7.5	
760	WRA1	S	MID-FLOOD	31-Jul-06	11:11	30.90	25.7	5.86	5.81	5.75	94.8	91.0	8.1	21.9	2.3	2.2	2.9	5.5	5.8
761	WRA1	M	MID-FLOOD	31-Jul-06			25.4	5.70	5.64		90.8	87.1	8.1	24.7	3.0	3.0		6.0	
762	WRA1	B	MID-FLOOD	31-Jul-06			24.6	5.58	5.48		87.6	84.1	8.1	28.7	3.1	3.7		6.0	
763	WRA2	S	MID-FLOOD	31-Jul-06	11:00	23.80	25.6	5.82	5.78	5.73	94.6	90.7	8.1	23.4	2.7	2.8	3.5	3.3	4.5
764	WRA2	M	MID-FLOOD	31-Jul-06			25.0	5.70	5.63		93.6	90.6	8.1	28.5	3.9	4.0		2.8	
765	WRA2	B	MID-FLOOD	31-Jul-06			24.7	5.58	5.46		88.8	84.6	8.1	28.8	3.7	3.9		7.5	

West Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau  
Marine Water Quality Impact Monitoring - July 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
766	WRA3	S	MID-FLOOD	31-Jul-06	10:50	30.20	26.2	5.79	5.71	5.66	96.9	92.0	8.2	18.9	2.4	2.2	3.6	4.0	6.5
767	WRA3	M	MID-FLOOD	31-Jul-06			25.5	5.60	5.55		89.2	85.4	8.2	25.7	5.7	5.1		4.5	
768	WRA3	B	MID-FLOOD	31-Jul-06			24.9	5.50	5.42		89.3	83.8	8.2	29.0	3.1	3.2		11.0	
769	WWFCZ1	S	MID-FLOOD	31-Jul-06	10:13	31.80	26.4	5.80	5.75	5.67	92.4	88.2	8.2	18.3	2.4	2.8	3.8	3.0	4.8
770	WWFCZ1	M	MID-FLOOD	31-Jul-06			24.9	5.60	5.54		86.8	85.6	8.2	27.9	5.1	5.4		6.0	
771	WWFCZ1	B	MID-FLOOD	31-Jul-06			24.4	5.50	5.43		87.4	83.3	8.2	29.7	3.4	3.4		5.5	
772	WWFCZ2	S	MID-FLOOD	31-Jul-06	10:25	37.40	25.7	5.80	5.76	5.68	92.3	86.5	8.1	22.4	2.9	2.7	3.0	8.5	8.2
773	WWFCZ2	M	MID-FLOOD	31-Jul-06			25.3	5.61	5.56		90.2	86.7	8.1	25.5	3.1	3.0		9.0	
774	WWFCZ2	B	MID-FLOOD	31-Jul-06			24.4	5.50	5.42		83.2	79.8	8.1	28.3	3.0	3.2		7.0	
775	WFCZR1	S	MID-FLOOD	31-Jul-06	10:00	41.00	25.9	5.93	5.88	5.81	92.6	89.5	8.2	22.6	3.1	3.0	3.5	5.0	6.7
776	WFCZR1	M	MID-FLOOD	31-Jul-06			24.8	5.76	5.68		89.8	86.1	8.2	29.6	2.7	2.9		5.5	
777	WFCZR1	B	MID-FLOOD	31-Jul-06			24.4	5.50	5.45		78.4	76.4	8.2	31.2	4.5	4.7		9.5	
778	WFCZR2	S	MID-FLOOD	31-Jul-06	10:37	41.40	25.5	5.86	5.80	5.78	93.7	89.2	7.4	25.2	3.7	2.9	3.8	4.5	7.7
779	WFCZR2	M	MID-FLOOD	31-Jul-06			25.0	5.77	5.68		90.4	86.5	7.4	26.4	4.9	4.4		8.0	
780	WFCZR2	B	MID-FLOOD	31-Jul-06			24.7	5.50	5.41		86.1	82.4	7.4	28.7	3.6	3.3		10.5	