

Chun Wo Construction &
Engineering Co Ltd

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

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

Second Issue

Chun Wo Construction &
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Castle Peak Road
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Tsing Lung Tau**

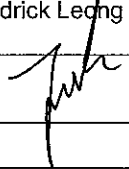

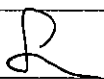
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Executive Summary

This is the first monthly environmental monitoring and audit (EM&A) report presenting the progress of environmental monitoring and audit works for the reporting period between 27 February 2006 and 31 March 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 Dissolved Oxygen (DO) levels for surface & middle and bottom depths were 5.7 mg/L at WWA3 on 29 March 2006 and 5.6 mg/L at WWA1 on 8 March 2006 respectively. There was no exceedance of DO level during reporting period when compared with the established baseline check criteria.

The highest depth-averaged Turbidity (Tby) level was 11.5 Nephelometric Turbidity Unit (NTU) at WWA2 on 29 March 2006. There were 5 exceedances of Tby levels at WWA1, WWA2 and WWA3 recorded on 29 March and 31 March 2006 when compared with established the baseline check criteria.

The highest Suspended Solids (SS) level was 25.5 mg/L at WWA2 on 29 March 2006. There were 7 exceedances at WWA1, WWA2 and WWA3 on 27, 29 and 31 March 2006 when compared with the established baseline check criteria.

Summary of Mid-Flood Tide

The lowest DO levels for both surface & middle and bottom positions were 5.6 mg/L at WWA1 on 3 March 2006. There was no exceedance of DO level during the reporting period when compared with the established baseline check criteria.

The highest depth-averaged Tby level was 9.6 NTU at WWA1 on 31 March 2006. There were 2 exceedances of Tby levels at WWA1 and WWFCZ2 on 31 March 2006 when compared with the established baseline check criteria.

The highest SS level was 18.5 mg/L at WWA1 on 1 March 2006. There were no exceedance of SS level during reporting period when compared with the established baseline check criteria.

Environmental Auditing

A total of 5 environmental site audits were conducted on a weekly basis in March 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 Contractor included:

Air Quality: Regular watering during dry and windy days;

Water quality: Frequent clearing of mud trails and stagnant water;

Waste Management: Frequent clearing of construction waste and general refuse; and

Handling of waste and chemicals: Provision of drip tray for oil drum.

Waste Disposal

A total of 226 tonnes of Construction & Demolition (C&D) waste and a total of 1498 tonnes of C&D materials (Public Fill) were disposed of at WENT Landfills and Public Filling Area in Tuen Mun respectively in March 2006. No chemical waste was disposed of during the reporting period.

Complaint Records

No environmental complaint was received during the reporting period.

Exceedance

As no marine works was conducted from 1 March to 10 March 2006, the exceedances of Tby and SS were likely due to natural variation. Hence, the exceedances of SS and Tby recorded on 1, 3 and 6 March 2006 were not justified to construction works.

There were exceedances of Tby and SS levels for marine water quality from 27 March to 31 March 2006 when compared with baseline check criteria. These exceedances were likely due to the construction works of the project. The majority of exceedances were marginal and comparable to the levels at their respective control stations (ambient levels). The Event and Action Plan was triggered immediately to notify the relevant parties for such exceedances and investigation for their causes was proceeded. Muddy water seepage was observed from the silt curtains at Seawalls A and B works areas, which was likely due to leakage from silt curtain. The CT was advised to immediately check the integrity and normal functioning of silt curtains and to review marine works procedures to avoid such seepage recurrence, e.g. implementing precautionary measures to avoid breaking silt curtain materials, frequent checking of their integrity and maintenance to ensure normal functioning, etc. The CT also ceased marine works to check the cause of seepage and mobilised underwater divers to inspect the integrity silt curtain, and sealed and repaired the leakage area where required. The CT will closely observe the effectiveness of silt curtain and maintain their performance to ensure normal functioning. With the remedial work implemented in progress, the subsequent results of marine water quality monitoring (after 6 April 2006) indicated resumption of normal ambient conditions was achieved.

For exceedance of Tby at WWFCZ2 on 31 March 2006, no abnormal activity which would likely cause deterioration of water quality was observed at WWFCZ2 by ET's field staff. As the exceedance was only marginal to the Control Station WWFCZR2, the exceedance contributed by the nearby stations WRA1, WRA2, WRA3 and WWFCZ1 would be unlikely due to their normal Tby levels, hence the exceedance would be unlikely caused by the construction works of the Project.

Notification of Summons and Successful Prosecution

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

Environmental Licences

No environmental licence was 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.

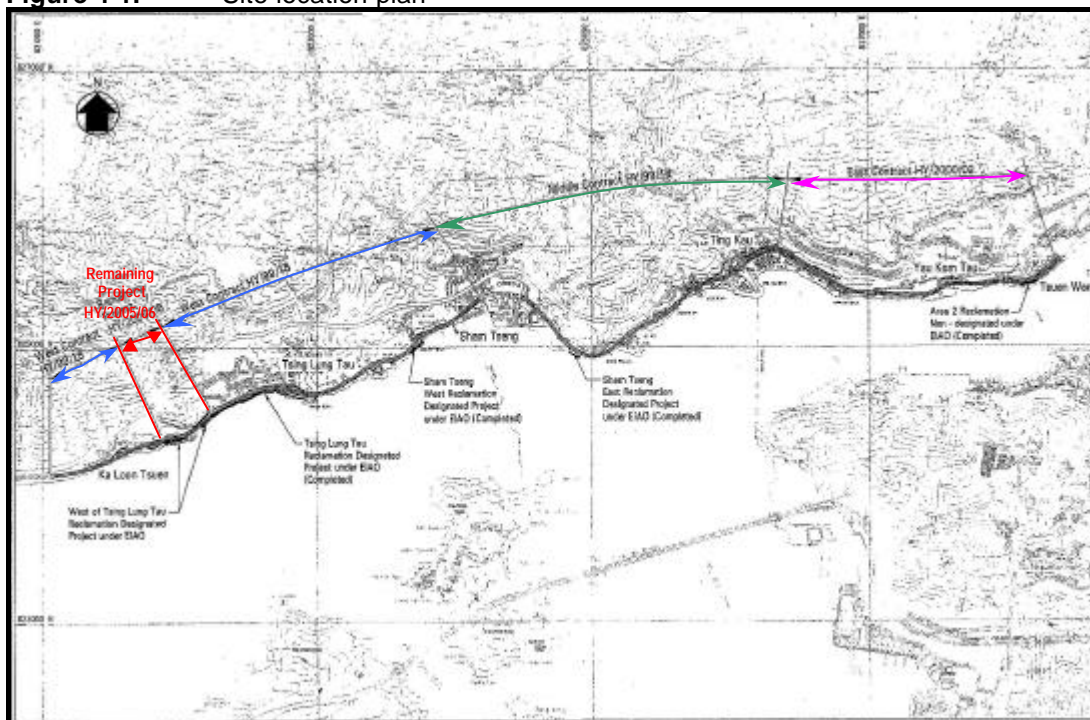
Following subsequent developments, the Route 10 project was placed under review, and Government therefore decided to implement the excised section of CPR (the Remaining Project) under the original CPR Improvement project. **Figure 1-1** shows the site location plan.

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.

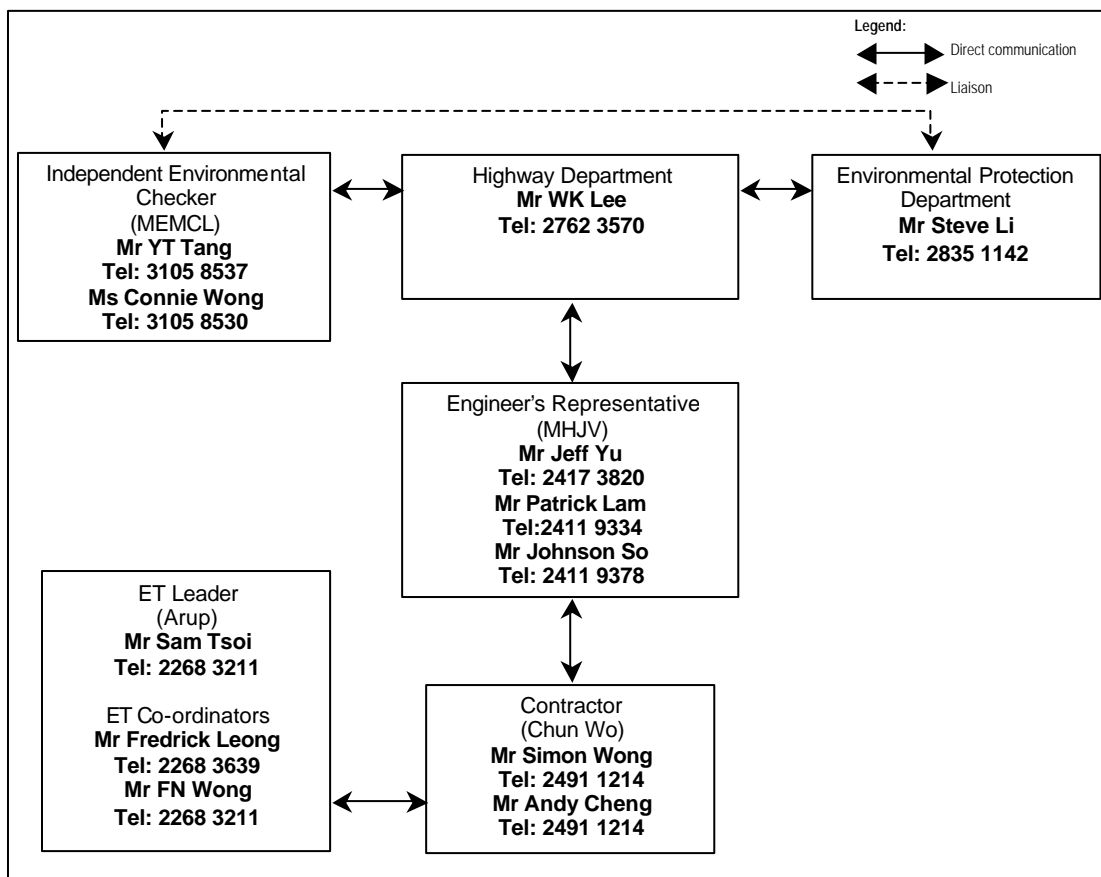
Figure 1-1: Site location plan



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 Mouchel 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 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

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

1.4 Purpose of the Report

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 first 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 27 February 2006 to 31 March 2006.

2 Scope of Construction Works

2.1 Construction Programme

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

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

- Construction of bored pile retaining wall;
- Construction of Seawall A; and
- Construction of 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 March 2006 and the tentative schedule for April 2006 are attached in **Appendix B**.

3.1 Construction Noise

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

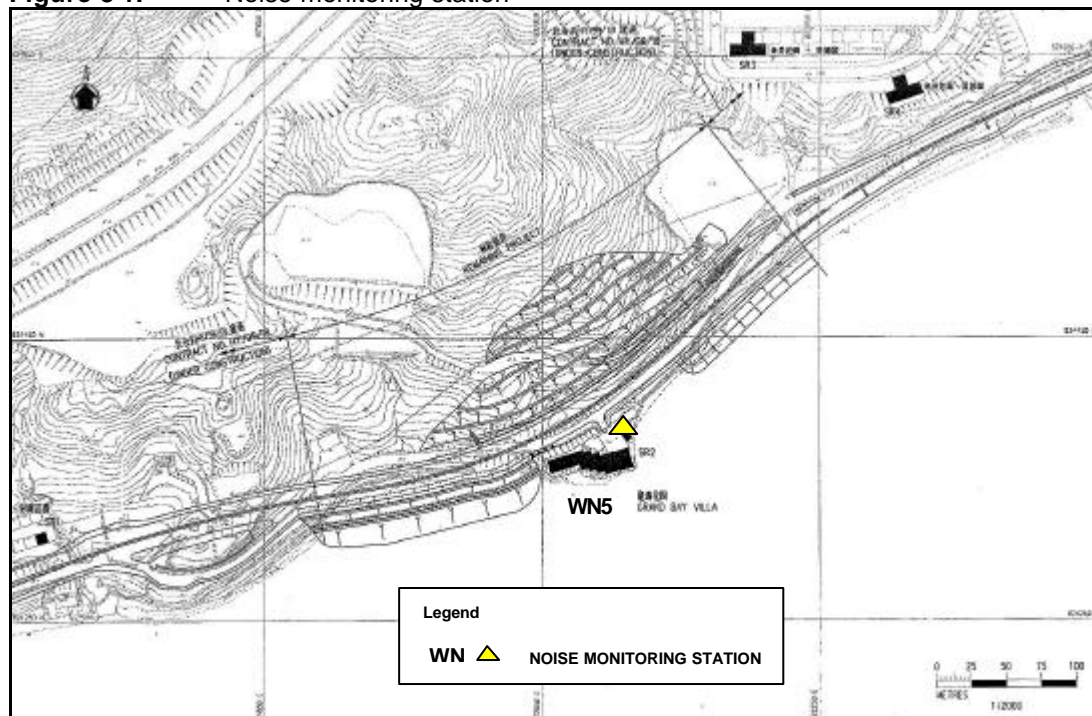
Noise monitoring will be conducted at one designated location as shown in **Figure 3-1**. The details of the noise monitoring location are given in **Table 3-2**. The measurements will be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

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.

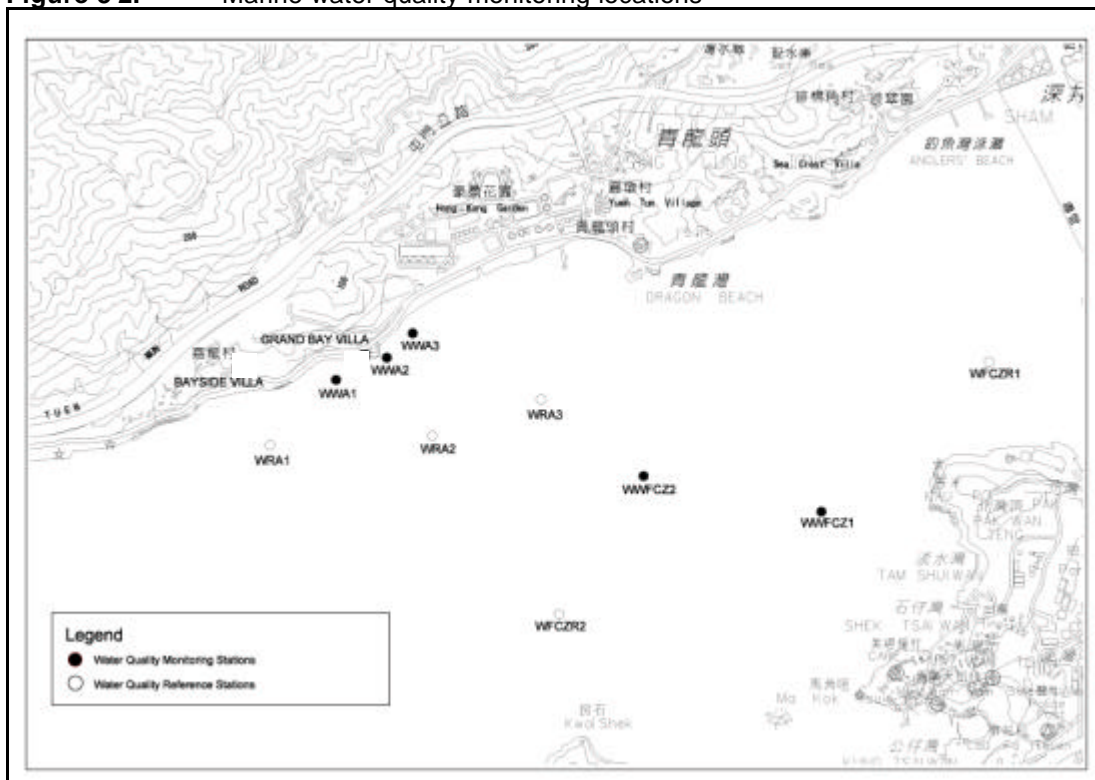
3.2.3 Monitoring Locations

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

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 and 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
Mid-ebb											
DO (mg/L)	Surface & middle	3.5	3.5	3.5	3.4	3.4	3.3	5.0	2.0	5.0	2.0
	Bottom	3.4	3.4	3.4	3.3	3.4	3.2	3.7	3.7	3.6	3.5
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
Mid-flood											
DO (mg/L)	Surface & middle	3.3	3.3	3.4	3.3	3.5	3.3	5.0	2.0	5.0	2.0
	Bottom	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.0	3.5	3.5
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

Note: Action and Limit Level for marine water quality were extracted from Baseline Monitoring Report, January 2006.

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

Parameters		Monitoring locations				
		WWA1	WWA2	WWA3	WWFCZ1	WWFCZ2
Mid-ebb						
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
Mid-flood						
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	Contractor
Action Level				
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings. Identify source(s) of impact. Inform the IEC and the Contractor. Check monitoring data, all plant, equipment and the Contractor's working methods. Discuss mitigation measures with the IEC and the Contractor. Repeat measurement on next day of exceedance. 	<ol style="list-style-type: none"> Discuss with the ET Leader and the Contractor on the mitigation measures. Review proposals on mitigation measures submitted by the Contractor and advised the ER accordingly. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Discuss with the IEC on the proposed mitigation measures. Make agreement on the mitigation measures to be implemented. 	<ol style="list-style-type: none"> Inform the ER and confirm notification of the non-compliance in writing. Rectify unacceptable practice. Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader and the IEC and propose mitigation measures to the IEC and the ER. Implement the agreed mitigation measures.
Action level being exceeded by more than one consecutive days	<ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings. Identify source(s) of impact. Inform the IEC and the Contractor. Check monitoring data, all plant, equipment and the Contractor's working methods. Discuss mitigation measures with the IEC and the Contractor. Ensure mitigation measures are implemented. Prepare to increase the monitoring frequency to daily. Repeat measurement on next day of exceedance. 	<ol style="list-style-type: none"> Discuss with the ET Leader and the Contractor on the mitigation measures. Review proposals on mitigation measures submitted by the Contractor and advised the ER accordingly. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Discuss with IEC on the proposed mitigation measures. Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Inform the ER and confirm notification of the non-compliance in writing. Rectify unacceptable practice. Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader and the IEC and propose mitigation measures to the IEC and the ER within 3 working days. Implement the agreed mitigation measures.
Limit Level				
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings. Identify source(s) of impact. Inform the IEC, the Contractor and the DEP. Check monitoring data, all plant, equipment and the Contractor's working methods. Discuss mitigation measures with the IEC, the ER and the Contractor. Ensure mitigation measures are implemented. Increase the monitoring frequency to daily until no exceedance of the Limit Level. 	<ol style="list-style-type: none"> Discuss with the ET Leader and the Contractor on the mitigation measures. Review proposals on mitigation measures submitted by the Contractor and advised the ER accordingly. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Discuss with IEC, the ET Leader and the Contractor on the proposed mitigation measures. Request the Contractor to critically review the working methods. Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Inform the ER and confirm notification of the non-compliance in writing. Rectify unacceptable practice. Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader, the IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days. Implement the agreed mitigation measures.
Limit level being exceeded by more than one consecutive days	<ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings. Identify source(s) of impact. Inform the IEC, the Contractor and the DEP. Check monitoring data, all plant, equipment and the Contractor's working methods. Discuss mitigation measures with the IEC, the ER and the Contractor. Ensure mitigation measures are implemented. Increase the monitoring frequency to daily until no exceedance of the Limit Level for two consecutive days. 	<ol style="list-style-type: none"> Discuss with the ET Leader and the Contractor on the mitigation measures. Review proposals on mitigation measures submitted by the Contractor and advised the ER accordingly. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Discuss with IEC, the ET Leader and the Contractor on the proposed mitigation measures. Request the Contractor to critically review the working methods. Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level. 	<ol style="list-style-type: none"> Inform the ER and confirm notification of the non-compliance in writing. Rectify unacceptable practice. Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader, the IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days. Implement the agreed mitigation measures. As directed by the ER, slow down or stop all or part of the construction activities.

3.4 Site Inspection and Environmental Complaint Handling

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

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:

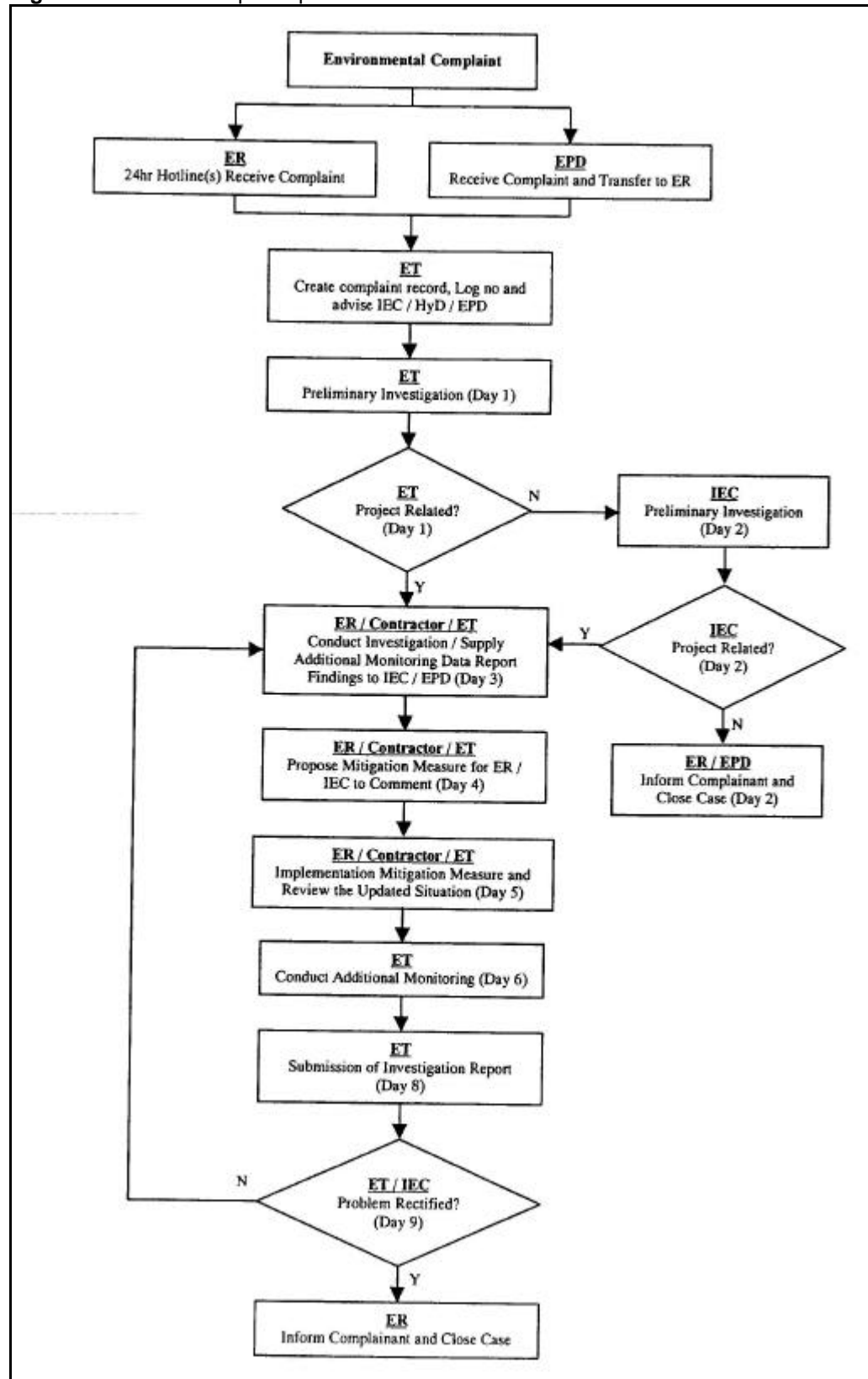
- a) The ET will record the details of the complaint and the date of receipt into the complaint database, and inform ER immediately.
- b) The ET will perform compliant investigation to determine its validity and to assess whether the source of the problem is due to work activities.
- c) The ER will instruct 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 Turbidity 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

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 levels for surface & middle and bottom positions were 5.7 mg/L at WWA3 on 29 March 2006 and 5.6 mg/L at WWA1 on 8 March 2006 respectively. There was no exceedance of DO level during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 11.5 Nephelometric Turbidity Unit (NTU) at WWA2 on 29 March 2006. There were 6 exceedances of Tby levels at WWA1, WWA2 and WWA3 on 3, 29 and 31 March 2006 when compared with the established baseline check criteria in Section 3.3 of this report.

The highest SS level was 25.5 mg/L at WWA2 on 29 March 2006. There were 11 exceedances of SS levels at WWA1, WWA2 and WWA3 on 3, 6, 27, 29 and 31 March 2006 when compared with the established baseline check criteria in Section 3.3 of this report.

Summary of Mid-Flood Tide

The lowest DO levels for both surface & middle and bottom positions were 5.6 mg/L at WWA1 on 3 March 2006. There was no exceedance of DO level during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 9.6 NTU at WWA1 on 31 March 2005. There were 4 exceedances of Tby levels at WWA1 and WWFCZ2 on 3 and 31 March 2006 when compared with the established baseline check criteria in Section 3.3 of this report.

The highest SS level was 18.5 mg/L at WWA1 on 1 March 2006. There were 1 exceedance of SS level at WWA1 on 1 March 2006 during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

Figure 5-1: DO levels at surface and mid-depth during mid-ebb in March 2006

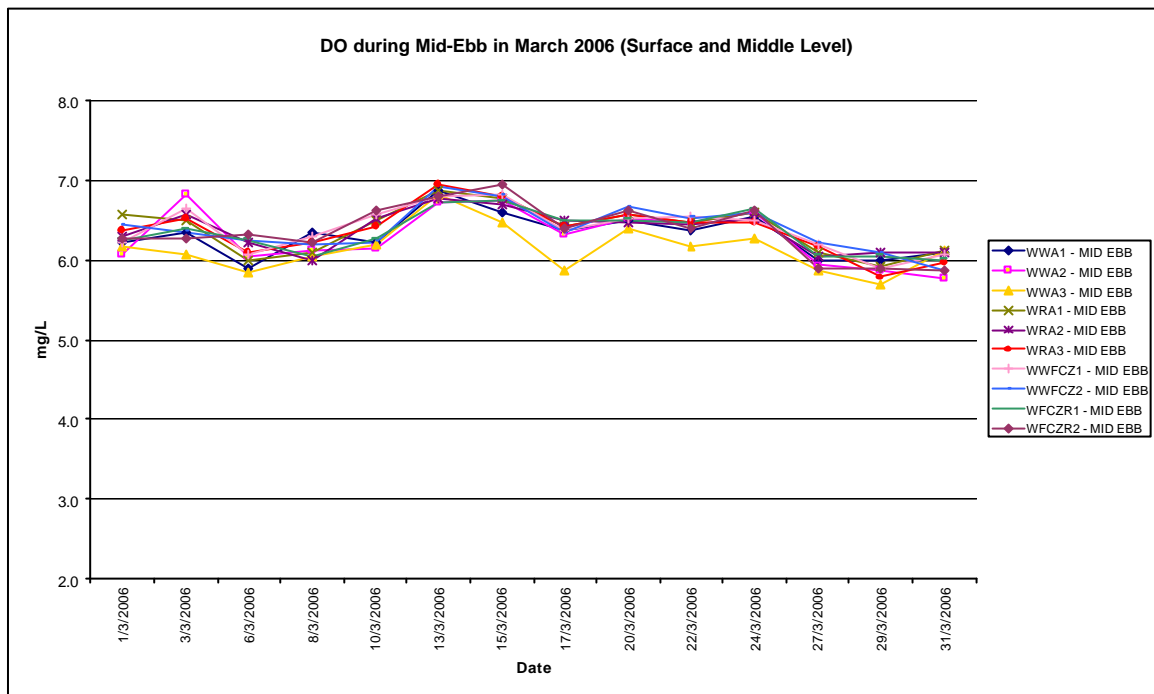


Figure 5-2: DO levels at bottom during mid-ebb in March 2006

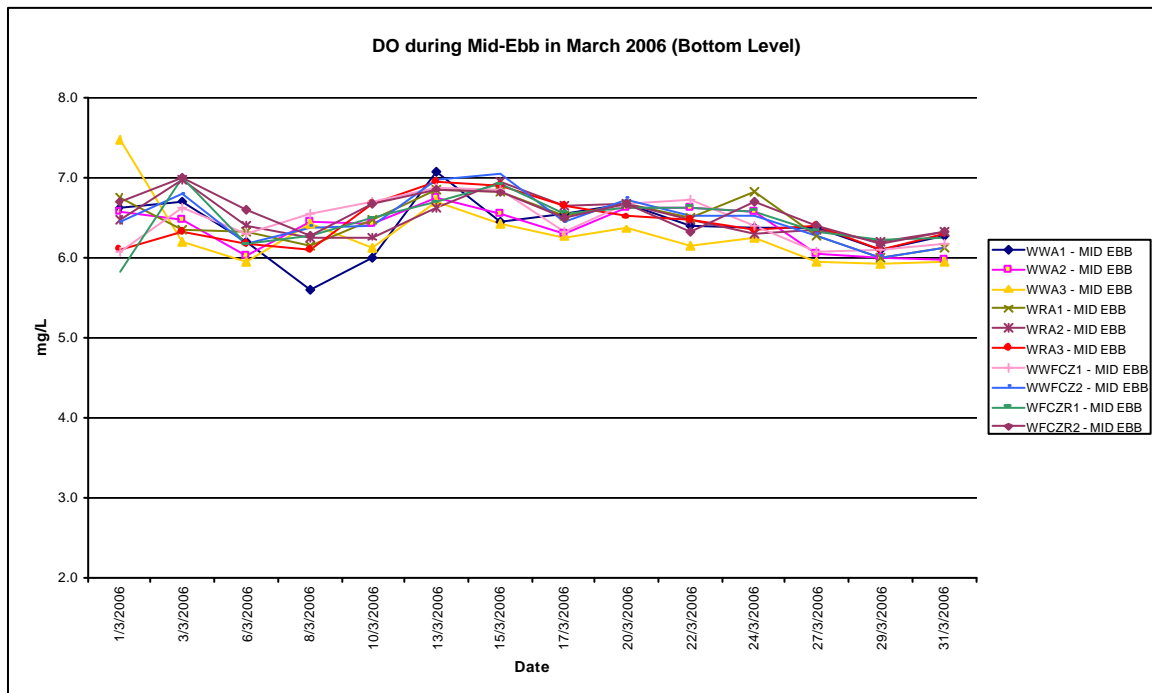


Figure 5-3: DO levels at surface and mid-depth during mid-flood in March 2006

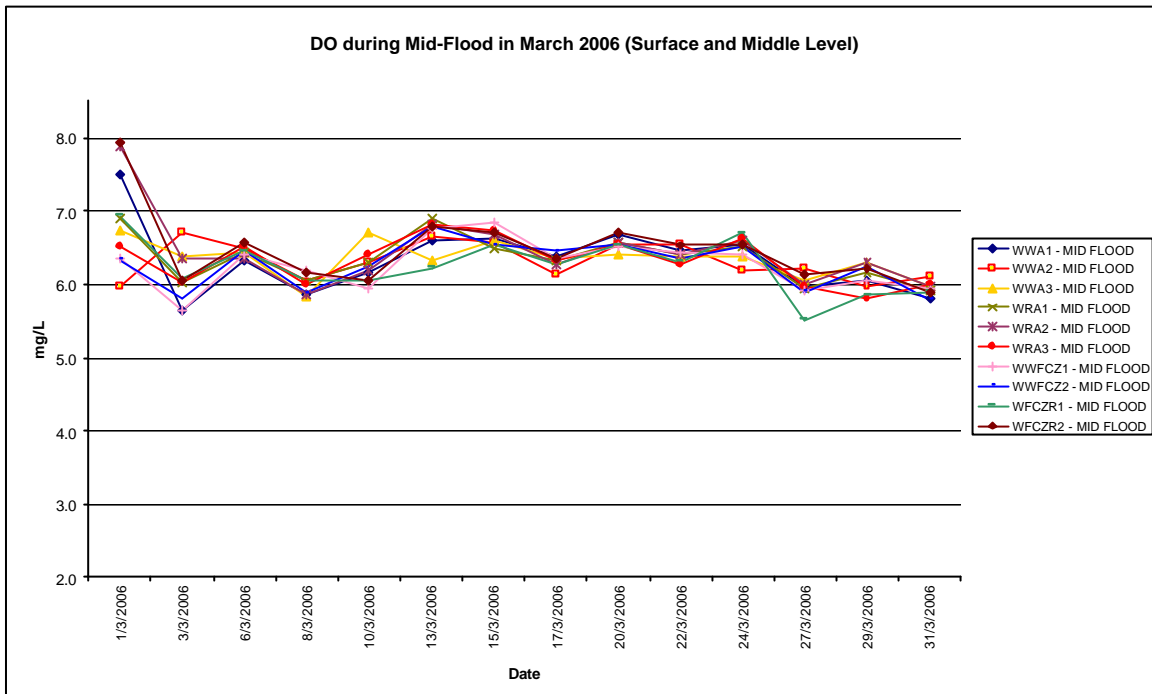


Figure 5-4: DO levels at bottom during mid-flood in March 2006

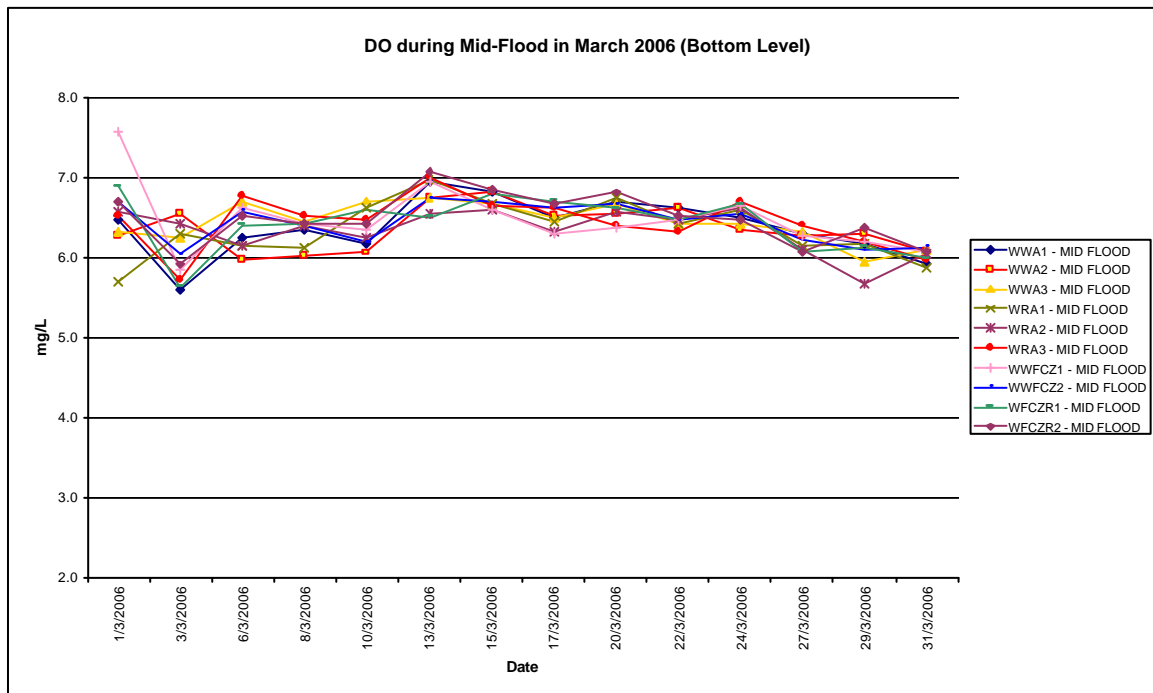


Figure 5-5: Turbidity levels during mid-ebb in March 2006

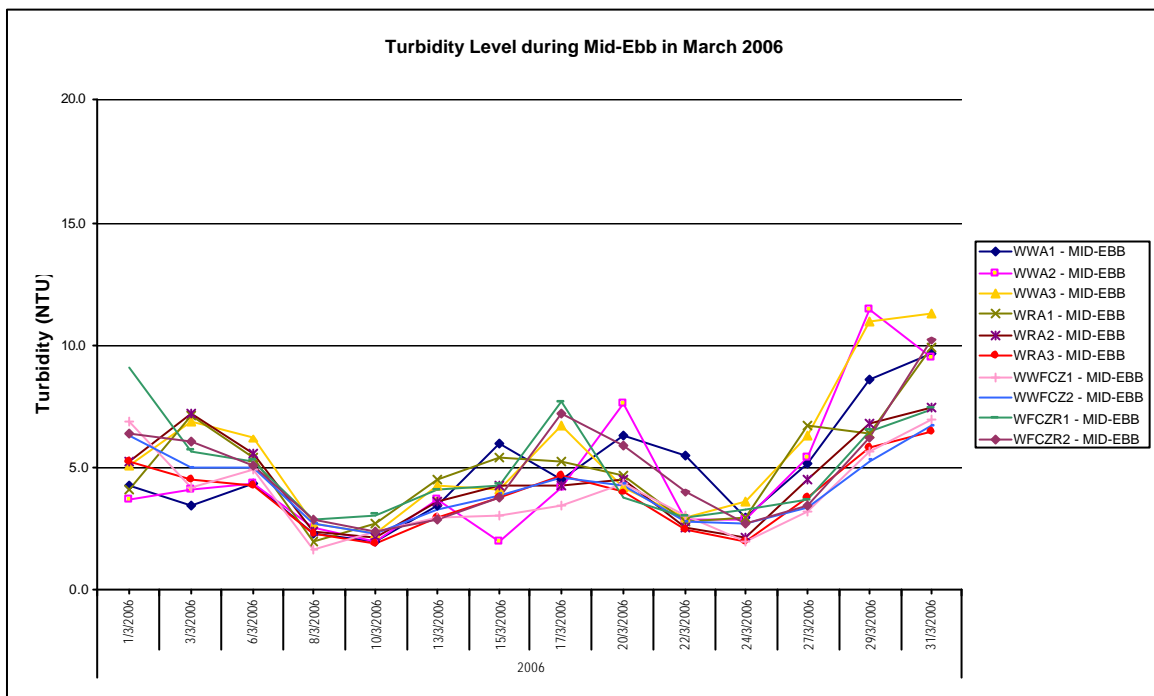


Figure 5-6: Turbidity levels during mid-flood in March 2006

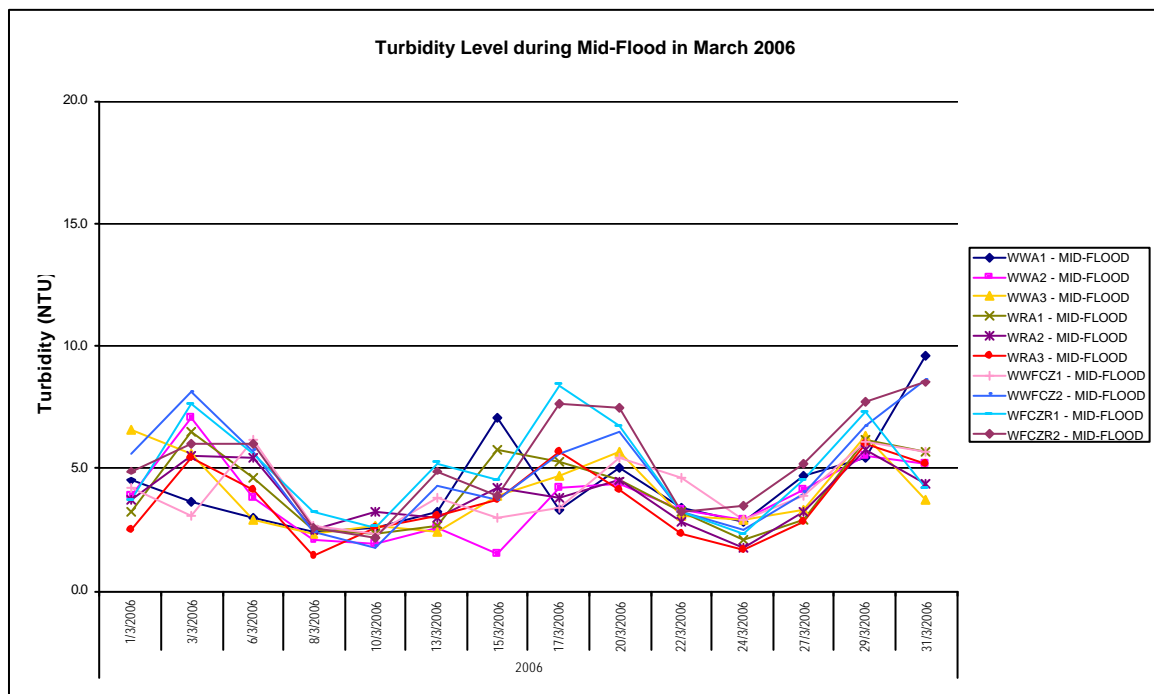


Figure 5-7: SS levels during mid-ebb in March 2006

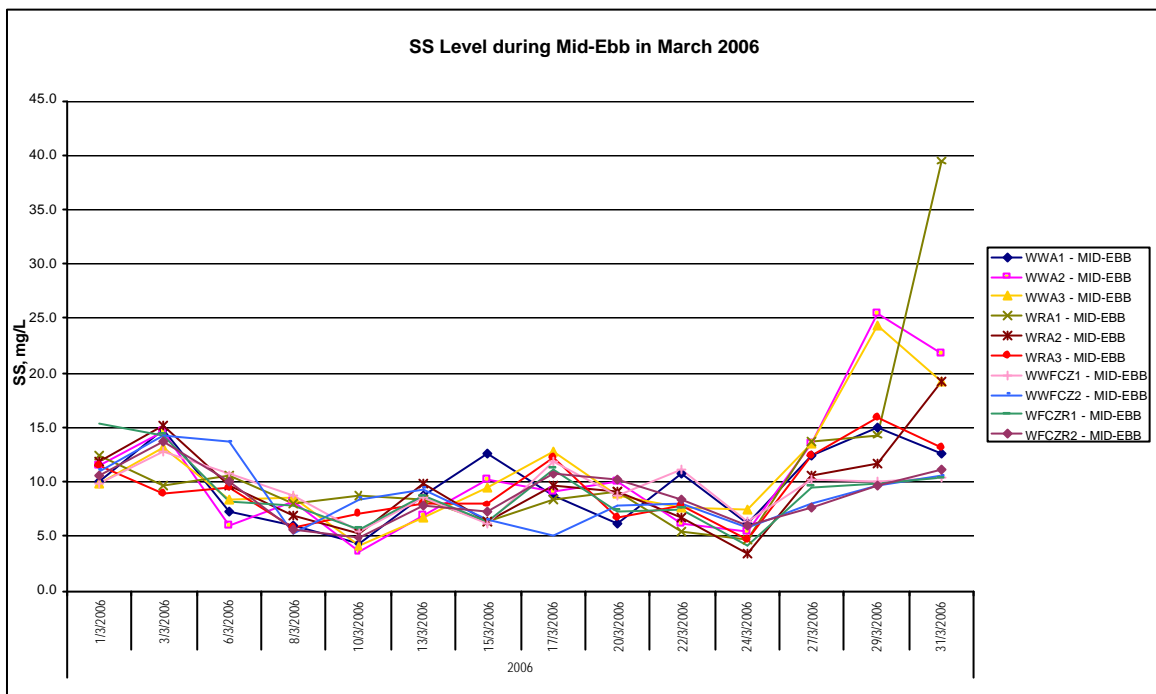
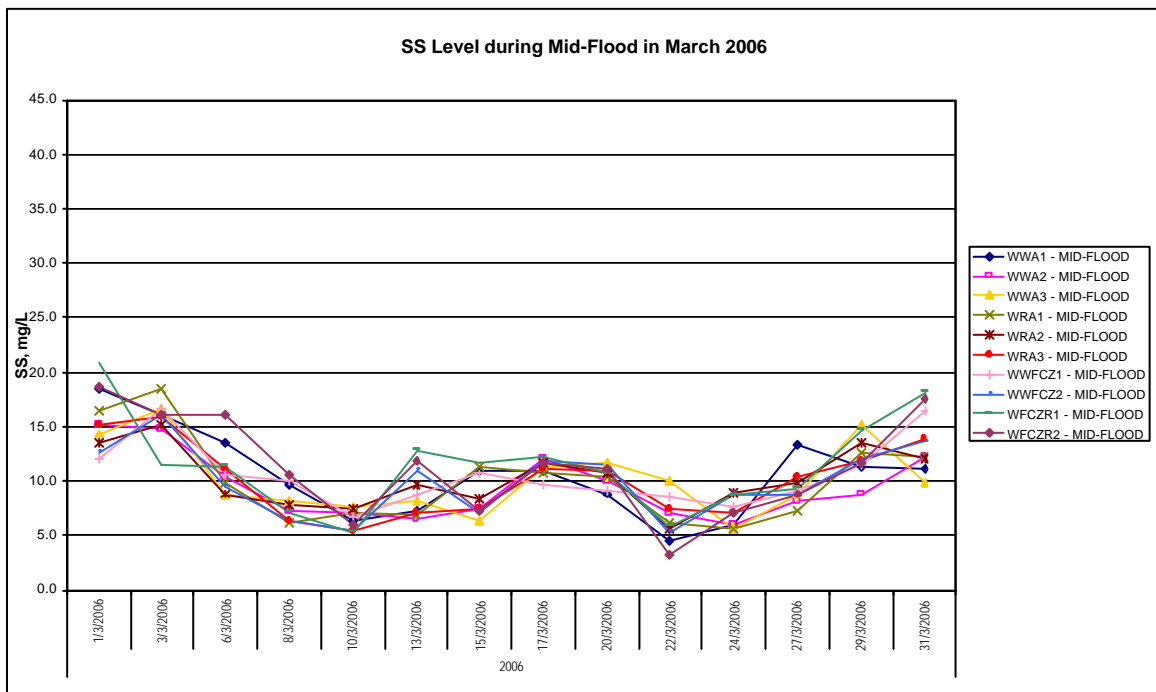


Figure 5-8: SS levels during mid-flood in March 2006



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

6.1 Site Audit Findings

Five weekly environmental site audits were carried out on 1, 8, 17, 22 and 30 March 2006. The findings of the site audits are summarised in **Table 6-1**.

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

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
01 March 2006 (WTLT 006)	1. Stagnant water was observed on the tarpaulin sheet cover of the construction materials beside the site office.	Contractor was reminded to conduct regular clearing of water and avoid mosquito breeding in rainy season.	Agreed with the ET's advice.	08 March 2006
	2. Soil, mainly sand, was observed at Castle Peak Road within carpark area.	Contractor was reminded to conduct regular clearing of the soil/sand.	Agreed with the ET's advice.	
	3. Construction waste contained in oil drum was observed without lid.	Contractor was reminded to cover the construction waste with tarpaulin sheet.	Agreed with the ET's advice.	
	4. Construction waste (such as waste batteries), which was left by previous contractor, was observed within carpark area.	Contractor was reminded to conduct regular clearing of waste in order to avoid excessive accumulation of waste.	Agreed with the ET's advice.	
08 March 2006 (WTLT 007)	1. Gullies along the road were blocked with leaves and tree branches.	Contractor was reminded to conduct regular clearing of waste prior to rainy season.	Agreed with the ET's advice.	17 March 2006
17 March 2006 (WTLT 008)	2. One oil drum was observed without drip tray near Seawall B.	Contractor was reminded to provide drip tray and proper storage of oil.	Agreed with the ET's advice.	22 March 2006
	3. Stagnant water was observed along Castle Peak Road within the site.	Contractor was reminded to dry off the stagnant water in and provide measures to control mosquito breeding.	Agreed with the ET's advice.	
	4. Exposed/excavated areas were observed within the site that may lead to water pollution on the nearby water bodies.	Contractor was reminded to provide adequate drainage system prior to rainy season.	Agreed with the ET's advice.	

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
22 March 2006 (WTLT 009)	1. Mud trails were observed at Castle Peak Road near the exits of the carpark area and Seawall B site.	Contractor was reminded to clear the mud trails and provide wheel-washing for vehicles leaving the construction site.	Agreed with the ET's advice.	30 March 2006
	2. Haul roads within the carpark area and Seawall B was observed dusty and dry.	Contractor was reminded to maintain regular watering during dry and windy days and dusty work.	Agreed with the ET's advice.	
	3. Stagnant water was observed in the idle water treatment tank within carpark area.	Contractor was reminded to adopt appropriate mosquito control measures.	Agreed with the ET's advice.	
30 March 2006 (WTLT 010)	1. Gullies along Castle Peak Road within the site were observed clear of rubbish.	Contractor was reminded to adopt proper maintenance of the gullies to ensure smooth flow of the stormwater during rainy season.	Agreed with the ET's advice.	30 March 2006
	2. No adverse environmental impacts were observed from sand filling for site formation beside the dredging area near Grand Bay Villa.	Contractor was reminded to maintain proper water quality mitigation measures during marine works within the site.	Agreed with the ET's advice.	
	3. Hydroseeding and tarpaulin sheet cover were observed on the exposed / excavated areas / slopes within the site. Proactive water quality mitigation measures were also observed near Grand Bay Villa.	Contractor was reminded to complete the desilting facilities improvement works prior to rainy season.	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 month is summarised in **Table 6-2**.

Table 6-2: Waste disposal quantity in March 2006

Type of waste or material	Disposal at	No. of loads or quantities
C&D waste	WENT Landfill	226 tonnes
C&D material	Public Filling Area in Tuen Mun	1498 tonnes
Chemical waste	Spent lube oil	Collected by licensed collector
		0

6.3 Complaint Record

There was no environmental complaint received in March 2006.

6.4 Exceedance

As no marine works was conducted from 1 March to 10 March 2006, the exceedances of Tby and SS were likely due to natural variation. Hence, the exceedances of SS and Tby recorded on 1, 3 and 6 March 2006 were not justified to construction works.

There were exceedances of Tby and SS levels for marine water quality from 27 March to 31 March 2006 when compared with baseline check criteria. These exceedances levels are likely due to the construction works of the project and are summarised in **Table 6.3**.

Table 6-3: Summary of exceedances of marine water quality monitoring in March 2006

Date	Monitoring Station	Monitoring Data		Baseline Check Level	
		SS	Tby	SS	Tby
<u>Mid-Ebb</u>					
27-March	WWA2	13.5 (10.5)	---	13.0	6.5
	WWA3	13.5 (12.5)	---		
29-March	WWA1	15.0 (14.3)	8.6 (6.4)		
	WWA2	25.5 (11.7)	11.5 (6.8)		
	WWA3	24.3 (15.8)	11.0 (5.8)		
31-March	WWA2	21.8 (19.2)	9.5 (7.5)		
	WWA3	19.2 (13.2)	11.3 (6.5)		
<u>Mid-flood</u>					
31-March	WWA1	---	9.6 (5.7)	17.0	6.6
	WWFCZ2	---	8.6 (8.5)		

* () represents level at control station

The majority of exceedances were marginal and comparable to the levels at their respective control stations (ambient levels). The Event and Action Plan was triggered immediately to notify the relevant parties for such exceedances and investigation for their causes was proceeded.

ET's field staff observed muddy water seepage from silt curtains at Seawalls A and B works areas, which was likely due to leakage from silt curtain. ET advised CT to immediately check the integrity and normal functioning of silt curtains and to review marine works procedures to avoid such seepage recurrence, e.g. implementing precautionary measures to avoid breaking silt curtain materials, frequent checking of their integrity and maintenance to ensure normal functioning, etc.

CT immediately ceased marine works to check the cause of seepage and mobilised underwater divers to inspect the integrity of silt curtain, then sealed and repaired the

leakage area where required. CT will closely monitor the effectiveness of silt curtain and maintain their performance to ensure normal functioning. With the remedial work implemented in progress, the subsequent results of marine water quality monitoring (6 April 2006) indicated resumption of normal ambient conditions was achieved.

For exceedance of T_{by} at WWFCZ2 on 31 March 2006, no abnormal activity which would likely cause deterioration of water quality was observed at WWFCZ2 by ET's field staff. As the exceedance was only marginal to the Control Station WWFCZR2, the exceedance contributed by the nearby stations WRA1, WRA2, WRA3 and WWFCZ1 would be unlikely due to their normal T_{by} levels, hence the exceedance would be unlikely caused by the construction works of the Project.

6.5 Notification of Summons and Successful Prosecution

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

6.6 Environmental Licenses

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

Table 6-4: Summary of valid environmental licences in March 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

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, which triggered the Event and Action Plan for remedial action. With the remedial work implemented in progress, the subsequent results of marine water quality monitoring (6 April 2006) indicated resumption of normal ambient conditions was achieved.

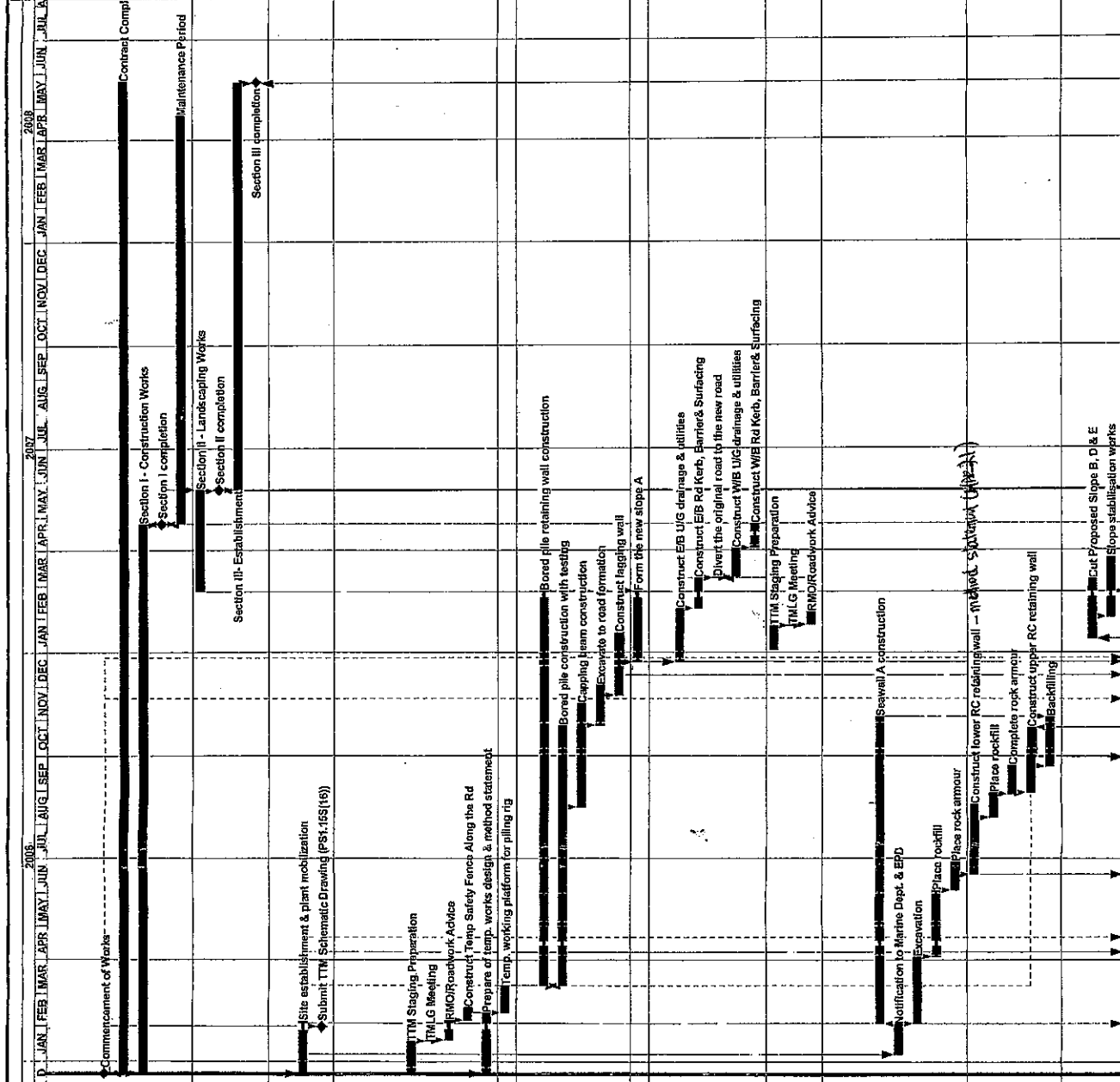
No complaint, summons or prosecution related to environmental issues was received during the reporting month.

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

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. January 2006. Castle Peak Road Improvement – West of Tsing Lung Tau. Contract No.HY2005/06.Environmental Baseline Monitoring Report (Second Issue)

Appendix A
**Construction
programme**



Activity ID	Activity Description	Orig Dur	%	Early Start	Early Finish	Total Float
GENERAL						
KEY DATES						
KD0500	Commencement of Works	0	0	02/12/05		
KD1000	Contract Completion Dates	885	0	21/12/05*	24/05/08	
KD1100	Section I - Construction Works	400	0	21/12/05	24/04/07*	
KD1200	Section I completion	0	0	24/04/07		
KD1300	Maintenance Period	365	0	25/04/07	23/04/08	
KD1400	Section II - Landscaping Works	90	0	24/02/07	24/05/07	
KD1500	Section II completion	0	0	24/05/07		
KD1600	Section III - Establishment	365	0	25/05/07	23/05/08	
KD1700	Section III completion	0	0	23/05/08		
PRELIMINARIES						
P1000	Site establishment & plant mobilization	40	0	21/12/05	05/02/06	
P1010	Submit T.M. Schematic Drawing (P51.155(16))	0	0		31/01/06	
Area 4 Construction (Ch2+030 to Ch2+150)						
Bored Pile Retaining Wall Construction						
Pre-construction						
4BR0100	TTM Staging Preparation	23	0	21/12/05	19/01/06	
4BR0110	TMLG Meeting	1	0	19/01/06	19/01/06	
4BR0120	RMC/Roadwork Advice	10	0	20/01/06	06/02/06	
4BR0195	Construct Temp Safety Fence Along the Rd	11	0	07/02/06	18/02/06	
4BR0200	Prepare of temp. works design & method statement	40	0	21/12/05	13/02/06	
4BR0300	Temp. working platform for piling rig	20	0	14/02/06	08/03/06	
Construction						
4BR1000	Bored pile retaining wall construction	283*	0	09/03/06	24/02/07	
4BR1500	Bored pile construction with testing	190	0	09/03/06	27/10/06	
4BR1600	Capping beam construction	75	0	17/08/06	15/11/06	
4BR1700	Excavate to road formation	30	0	28/10/06	02/12/06	
4BR1800	Construct lagging wall	45	0	23/11/06	18/01/07	
4BR2000	Form the new slope A	47	0	23/12/06	24/02/07	
ROADWORK CONSTRUCTION						
4RW4100	Construct EB U/G drainage & utilities	38	0	23/12/06	08/02/07	
4RW4110	Construct EB Rd Kerb, Barrier & Surfacing	18	0	03/02/07	07/03/07	
4RW4500	Divert the original road to the new road	1	0	09/03/07	09/03/07	
4RW4500	Construct W/S U/G drainage & utilities	21	0	09/03/07	02/04/07	
4RW4610	Construct W/S Rd Kerb, Barrier & Surfacing	15	0	03/04/07	24/04/07	
4RW4620	TTM Staging Preparation	19	0	03/01/07	24/01/07	
4RW4630	TMLG Meeting	1	0	25/01/07	25/01/07	
4RW4640	RMC/Roadwork Advice	10	0	28/01/07	08/02/07	
Area 3 Construction (Ch1+825 to Ch2+030)						
Seawall A Construction						
3SWA0500	Seawall A construction	223*	0	04/02/06	03/11/06	
3SWA0600	Notification to Marine Dept. & EPD	28	0	07/01/06	03/02/06	
3SWA1000	Excavation	50	0	04/02/06	03/04/06	
3SWA1100	Place rock armour	45	0	04/04/06	02/05/06	
3SWA1200	Place rock armour	21	0	03/06/06	27/06/06	
3SWA1300	Construct lower RC retaining wall	55	0	18/06/06	19/08/06	
3SWA1400	Place rockfill	20	0	07/08/06	29/08/06	
3SWA1500	Complete rock armour	22	0	29/08/06	22/09/06	
3SWA1600	Construct upper RC retaining wall	47	0	03/08/06	23/10/06	
3SWA1700	Backfilling	34	0	22/09/06	03/11/06	
SLOPE WORKS						
3SW1000	Cut Proposed Slope B, D & E	40	0	13/01/07	06/03/07	
3SW2000	Slope stabilisation works	40	0	02/02/07	28/03/07	

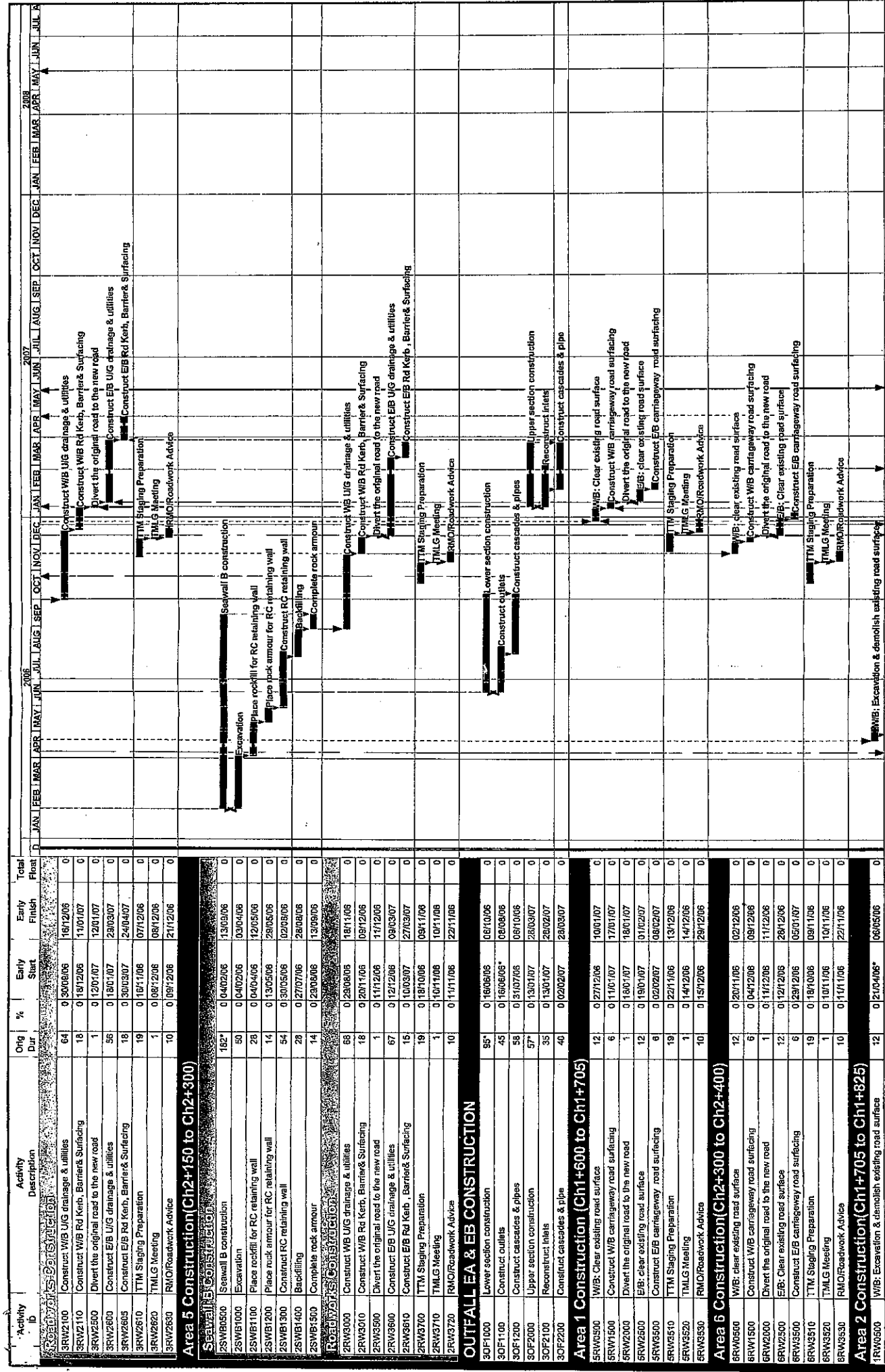
Sheet 1 of 3

Chun Wo Construction & Engineering Co., Ltd.
Contract No. HW2005/06
Caslia Peak Road Improvement West of Tsing Lung Tau
Initial Construction Programme Rev. B dated 14-Feb-06

Start Date	End Date	Activity	Early Bar
21/12/05	21/12/05	Programme Bar	
21/12/05	15/02/06 09:11	Critical Activity	

Date: 05/01/06
Rev A Initial Programme
14/02/06
Rev B Initial Programme

Checked: _____
Approval: _____



Start Date	21/12/05	Early Bar
Finish Date	20/05/06	Progress Bar
Date	21/12/05	Critical Activity
Run Date	19/02/06 09:11	

Sheet 2 of 3
Chun Wo Construction & Engineering Co., Ltd.
Contract No. HY200505
Caslo Peak Road Improvement West of Tsing Lung Tau
Initial Construction Programme Rev. B dated 14-Feb-06

Date	Revision
20/1/06	Rev A Initial Programme
14/02/06	Rev B Initial Programme

Appendix B

**Monitoring schedule for
March and April 2006**

Environmental Monitoring and Audit Schedule - March 2006

- Note 1: L30 denotes Leq(30 min) monitoring
- Note 2: TSP denotes Total Suspended Particulate monitoring
- Note 3: MW denotes Mainline Water Quality monitoring
- Note 4: L&V denotes Landscape and Visual audit and monitoring

Mar-2006						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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	

Tentative Environmental Monitoring and Audit Schedule - April 2006

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

Apr-2006						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1						1
2	3	4	5	6 Site Inspection	7	8
9	10	11 MW	12 Site Inspection	13 MW	14	15 MW
16	17 MW	18	19 MW	20	21	22
23	24	25 MW	26 Site Inspection	27 MW	28	29 MW
30						

Appendix C

**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 000072
Page No. : 1 of 5
Issue Date : 20/02/2006

Received Date : 16/02/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 18/02/2006

Calibration Results:

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

Serial No. : 02D1076 AB

Calibration Method : APHA 18e 2520 A & B

Date of Calibration : 16/02/2006

Results: :

Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.3
15	14.4
35	33.8
39.3	37.7

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 000072
Page No. : 2 of 5
Issue Date : 20/02/2006

Received Date : 16/02/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 18/02/2006

Calibration Results:

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

Serial No. : 02D1076 AB

Calibration Method : In house method

Date of Calibration : 17/02/2006

Results :

Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	9.5
20.0	19.8
30.0	29.5
40.0	39.5

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 000072
Page No. : 3 of 5
Issue Date : 20/02/2006

Received Date : 16/02/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 18/02/2006

Calibration Results:

Item : YSI Model 85 Handheld Salinity, Conductivity & Temperature Instrument
Serial No. : 99G0526
Calibration Method : APHA 18e 4500-O A, B, C & D
Date of Calibration : 16/02/2006
Results: :

Dissolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
2.90	3.10
5.00	5.14
6.70	6.88
7.70	7.90
8.60	8.74

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 000072
Page No. : 4 of 5
Issue Date : 20/02/2006

Received Date : 16/02/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 18/02/2006

Calibration Results:

Item : HACH 2100P Turbidimeter

Serial No. : 011100024354

Calibration Method : APHA 18e 2130 B

Date of Calibration : 16/02/2006

Results: :

Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0
2	2.18
4	4.38
16	16.8
40	41.3
80	83.4

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 000072
Page No. : 5 of 5
Issue Date : 20/02/2006

Received Date : 16/02/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 18/02/2006

Calibration Results:

Item : HANNA instrument HI 98128 membrane pH meter
Serial No. : 1377140
Calibration Method : In house method
Date of Calibration : 17/02/2006
Results: :

pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4	4.50
7	7.65
10	10.75

Approval Signatory:

Appendix D

**Marine water quality
monitoring results**

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
 Marine Water Quality Morning - March 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	1-Mar-06			17.7	6.10	6.04		86.0	84.6	8.6	31.2	4.2	4.4		7.0	
2	WWA1	M	MID-EBB	1-Mar-06	13:36	15.00	17.6	6.41	6.35	6.23	89.3	88.3	8.6	31.2	2.9	3.1		11.0	
3	WWA1	B	MID-EBB	1-Mar-06			17.5	6.64	6.60	6.62	87.3	86.6	8.6	31.2	5.7	5.4	4.3	12.0	10.0
4	WWA2	S	MID-EBB	1-Mar-06			17.7	6.19	6.13		90.2	88.4	8.6	31.2	3.7	3.7		7.5	
5	WWA2	M	MID-EBB	1-Mar-06	13:31	20.00	17.3	5.96	5.94	6.06	78.0	77.8	8.6	30.3	3.7	3.8		15.5	
6	WWA2	B	MID-EBB	1-Mar-06			17.3	6.58	6.60	6.59	85.9	84.7	8.6	31.2	3.6	3.7	3.7	11.5	11.5
7	WWA3	S	MID-EBB	1-Mar-06			17.9	5.73	5.69		75.5	75.0	8.4	31.1	4.7	4.8		11.0	
8	WWA3	M	MID-EBB	1-Mar-06	13:25	16.90	16.9	6.68	6.63	6.18	85.3	84.9	8.4	31.1	6.1	5.6		8.0	
9	WWA3	B	MID-EBB	1-Mar-06			17.0	7.60	7.37	7.49	79.5	79.1	8.4	31.1	4.8	4.8	5.1	10.5	9.8
10	WRA1	S	MID-EBB	1-Mar-06			17.1	6.40	6.36		91.0	89.9	8.6	31.2	3.9	3.2		9.0	
11	WRA1	M	MID-EBB	1-Mar-06	13:47	25.00	17.4	6.82	6.75	6.58	94.8	93.2	8.6	31.0	4.0	4.6		10.5	
12	WRA1	B	MID-EBB	1-Mar-06			17.4	6.78	6.73	6.76	91.3	90.1	8.6	31.2	4.6	4.6	4.1	17.5	12.3
13	WRA2	S	MID-EBB	1-Mar-06			17.3	6.26	6.27		84.1	83.0	8.6	31.2	4.1	4.2		13.0	
14	WRA2	M	MID-EBB	1-Mar-06	13:56	26.00	17.4	6.33	6.34	6.30	82.6	82.4	8.6	31.2	6.1	5.9		10.5	
15	WRA2	B	MID-EBB	1-Mar-06			17.1	6.50	6.44	6.47	89.2	87.8	8.6	31.3	5.8	5.9	5.3	12.0	11.8
16	WRA3	S	MID-EBB	1-Mar-06			17.4	6.46	6.42		87.9	86.7	8.6	31.1	4.7	4.6		10.0	
17	WRA3	M	MID-EBB	1-Mar-06	14:01	23.00	17.3	6.35	6.29	6.38	85.9	84.8	8.6	31.2	4.8	4.8		13.0	
18	WRA3	B	MID-EBB	1-Mar-06			17.4	6.13	6.11	6.12	81.3	80.5	8.6	31.0	6.7	6.4	5.3	11.5	11.5
19	WWFCZ1	S	MID-EBB	1-Mar-06			17.7	6.20	6.15		77.0	76.9	8.7	31.3	5.8	5.5		8.0	
20	WWFCZ1	M	MID-EBB	1-Mar-06	14:21	28.00	17.5	6.23	6.32	6.23	83.5	81.7	8.7	31.0	7.9	8.2		10.5	
21	WWFCZ1	B	MID-EBB	1-Mar-06			17.6	6.11	6.05	6.08	82.4	81.6	8.7	31.2	7.1	7.2	6.9	11.0	9.8
22	WWFCZ2	S	MID-EBB	1-Mar-06			17.6	6.44	6.43		82.3	81.8	8.6	30.9	4.4	4.3		7.5	
23	WWFCZ2	M	MID-EBB	1-Mar-06	14:14	31.00	17.6	6.45	6.44	6.44	86.9	85.9	8.6	31.2	5.7	5.8		9.5	
24	WWFCZ2	B	MID-EBB	1-Mar-06			17.6	6.48	6.42	6.45	86.5	85.5	8.6	31.2	9.3	8.6	6.3	16.0	11.0
25	WFCZR1	S	MID-EBB	1-Mar-06			17.8	6.25	6.21		84.4	83.2	8.6	31.3	5.9	5.9		13.5	
26	WFCZR1	M	MID-EBB	1-Mar-06	14:30	26.00	17.7	6.26	6.27	6.25	82.4	81.4	8.6	31.3	11.3	11.7		16.5	
27	WFCZR1	B	MID-EBB	1-Mar-06			17.9	5.82	5.84	5.83	77.9	76.9	8.6	31.3	9.9	10.3	9.1	16.0	15.3
28	WFCZR2	S	MID-EBB	1-Mar-06			17.5	6.09	6.08		76.7	76.3	8.6	31.2	4.8	5.0		7.0	
29	WFCZR2	M	MID-EBB	1-Mar-06	14:08	39.00	17.6	6.44	6.42	6.26	84.2	83.5	8.6	31.2	6.1	6.0		11.5	
30	WFCZR2	B	MID-EBB	1-Mar-06			17.7	6.72	6.70	6.71	88.1	87.5	8.6	31.2	8.3	8.1	6.4	13.0	10.5
31	WWA1	S	MID-FLOOD	1-Mar-06			17.4	8.48	8.81		78.6	78.9	8.6	31.2	6.7	6.7		16.5	
32	WWA1	M	MID-FLOOD	1-Mar-06	9:35	15.00	17.2	6.44	6.29	7.51	83.4	82.8	8.6	31.2	3.8	4.2		23.5	
33	WWA1	B	MID-FLOOD	1-Mar-06			17.5	6.48	6.46	6.47	75.4	75.2	8.6	31.4	2.8	2.9	4.5	15.5	18.5
34	WWA2	S	MID-FLOOD	1-Mar-06			17.6	5.72	5.75		82.3	82.1	8.6	31.3	4.6	5.7		15.5	
35	WWA2	M	MID-FLOOD	1-Mar-06	9:25	21.00	17.4	6.25	6.20	5.98	78.2	77.8	8.6	31.3	4.0	4.5		16.0	
36	WWA2	B	MID-FLOOD	1-Mar-06			17.5	6.31	6.25	6.28	77.5	77.6	8.6	31.2	2.2	2.5	3.9	14.0	15.2
37	WWA3	S	MID-FLOOD	1-Mar-06			16.7	7.60	7.31		93.6	91.2	8.4	31.3	5.1	5.2		12.0	
38	WWA3	M	MID-FLOOD	1-Mar-06	9:00	16.00	17.1	6.03	6.00	6.74	76.9	76.8	8.4	31.3	7.3	7.6		16.0	
39	WWA3	B	MID-FLOOD	1-Mar-06			17.4	6.34	6.30	6.32	74.4	74.3	8.4	31.2	7.0	7.7	6.6	15.0	14.3
40	WRA1	S	MID-FLOOD	1-Mar-06			17.8	6.45	6.42		98.6	95.5	8.6	31.2	3.5	3.9		14.0	
41	WRA1	M	MID-FLOOD	1-Mar-06	9:48	25.70	17.3	7.44	7.27	6.90	74.7	73.8	8.6	31.4	2.7	2.9		21.0	
42	WRA1	B	MID-FLOOD	1-Mar-06			17.6	5.72	5.69	5.71	74.0	73.4	8.6	31.1	3.1	3.0	3.2	14.5	16.5
43	WRA2	S	MID-FLOOD	1-Mar-06			17.7	6.34	6.26		98.7	95.7	8.6	31.3	3.2	3.6		14.0	
44	WRA2	M	MID-FLOOD	1-Mar-06	9:55	25.00	17.4	9.68	9.19	7.87	83.5	83.0	8.6	31.2	4.6	4.6		12.0	
45	WRA2	B	MID-FLOOD	1-Mar-06			17.5	6.60	6.57	6.59	95.6	92.9	8.6	31.1	3.1	3.0	3.7	14.5	13.5
46	WRA3	S	MID-FLOOD	1-Mar-06			18.0	6.51	6.48		95.2	93.0	8.6	31.3	2.3	2.4		12.0	
47	WRA3	M	MID-FLOOD	1-Mar-06	10:01	27.00	17.8	6.57	6.52	6.52	95.0	92.3	8.6	29.7	2.4	2.5		18.0	

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
Marine Water Quality Morning - March 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
48	WRA3	B	MID-FLOOD	1-Mar-06			17.8	6.54	6.52	6.53	83.6	84.0	8.6	30.9	2.8	3.0	2.5	15.5	15.2
49	WWFCZ1	S	MID-FLOOD	1-Mar-06			17.5	6.18	6.12		79.5	79.3	8.6	31.2	3.2	2.8		10.5	
50	WWFCZ1	M	MID-FLOOD	1-Mar-06	10:24	33.00	17.5	6.54	6.52	6.34	83.3	83.6	8.6	31.3	6.5	7.0		7.5	
51	WWFCZ1	B	MID-FLOOD	1-Mar-06			16.8	7.60	7.55	7.58	84.6	84.4	8.6	30.3	3.0	2.9	4.2	18.0	12.0
52	WWFCZ2	S	MID-FLOOD	1-Mar-06			17.6	6.18	6.13		85.6	84.1	8.6	31.2	3.2	3.7		15.5	
53	WWFCZ2	M	MID-FLOOD	1-Mar-06	10:18	37.00	17.6	6.52	6.48	6.33	85.1	84.2	8.6	31.1	4.2	4.3		10.5	
54	WWFCZ2	B	MID-FLOOD	1-Mar-06			17.5	6.72	6.70	6.71	84.4	84.0	8.6	31.2	8.9	9.1	5.6	12.0	12.7
55	WFCZR1	S	MID-FLOOD	1-Mar-06			17.3	6.63	6.21		76.5	76.0	8.7	31.2	3.0	2.5		20.0	
56	WFCZR1	M	MID-FLOOD	1-Mar-06	10:32	30.00	17.2	7.48	7.41	6.93	86.5	86.7	8.7	27.5	4.0	4.4		21.5	
57	WFCZR1	B	MID-FLOOD	1-Mar-06			17.3	6.90	6.89	6.90	87.6	87.2	8.7	31.4	4.0	3.9	3.7	21.0	20.8
58	WFCZR2	S	MID-FLOOD	1-Mar-06			17.7	9.61	8.61		75.9	74.5	8.6	31.1	7.0	7.6		21.5	
59	WFCZR2	M	MID-FLOOD	1-Mar-06	10:10	40.00	17.5	6.88	6.67	7.94	78.9	78.7	8.6	31.2	3.9	3.9		14.0	
60	WFCZR2	B	MID-FLOOD	1-Mar-06			17.5	6.72	6.70	6.71	89.0	88.4	8.6	31.3	3.5	3.3	4.9	20.5	18.7
61	WWA1	S	MID-EBB	3-Mar-06			18.1	6.40	6.36		86.9	86.0	8.8	31.4	2.0	2.2		9.5	
62	WWA1	M	MID-EBB	3-Mar-06	14:48	21.00	17.9	6.33	6.32	6.35	80.4	80.2	8.8	31.6	3.8	3.7		15.5	
63	WWA1	B	MID-EBB	3-Mar-06			17.9	6.70	6.74	6.72	86.2	86.0	8.8	31.7	4.9	4.7	3.5	19.5	14.8
64	WWA2	S	MID-EBB	3-Mar-06			18.1	7.44	7.08		83.0	82.0	8.8	30.6	2.6	2.6		9.0	
65	WWA2	M	MID-EBB	3-Mar-06	14:45	23.00	17.9	6.39	6.35	6.82	83.9	83.5	8.8	31.5	6.0	6.0		17.0	
66	WWA2	B	MID-EBB	3-Mar-06			17.6	6.50	6.48	6.49	82.7	82.6	8.8	31.3	3.5	3.6	4.1	18.0	14.7
67	WWA3	S	MID-EBB	3-Mar-06			18.6	5.93	5.91		80.8	80.0	8.7	31.5	4.5	4.5		11.0	
68	WWA3	M	MID-EBB	3-Mar-06	14:37	17.00	18.2	6.22	6.19	6.06	80.4	80.2	8.7	31.5	7.8	7.6		14.0	
69	WWA3	B	MID-EBB	3-Mar-06			18.0	6.21	6.19	6.20	79.9	79.6	8.7	31.5	8.9	8.3	6.9	14.5	13.2
70	WRA1	S	MID-EBB	3-Mar-06			18.0	6.76	6.72		92.0	90.8	8.7	31.5	5.3	5.3		5.5	
71	WRA1	M	MID-EBB	3-Mar-06	14:54	26.00	17.9	6.26	6.24	6.50	82.9	82.3	8.7	31.4	6.7	6.4		10.0	
72	WRA1	B	MID-EBB	3-Mar-06			17.8	6.38	6.34	6.36	86.4	85.6	8.7	31.5	9.1	9.6	7.1	13.5	9.7
73	WRA2	S	MID-EBB	3-Mar-06			18.0	6.49	6.46		89.0	88.0	8.7	31.6	5.2	5.0		17.5	
74	WRA2	M	MID-EBB	3-Mar-06	14:59	26.00	17.8	6.66	6.63	6.56	92.3	91.2	8.7	31.7	8.7	9.2		14.5	
75	WRA2	B	MID-EBB	3-Mar-06			17.7	6.98	6.97	6.98	92.8	92.1	8.7	31.6	7.8	7.5	7.2	13.5	15.2
76	WRA3	S	MID-EBB	3-Mar-06			17.9	6.67	6.62		91.9	90.4	8.8	31.6	4.9	5.3		6.5	
77	WRA3	M	MID-EBB	3-Mar-06	15:05	25.00	17.8	6.41	6.39	6.52	90.1	89.2	8.8	31.7	4.4	4.5		10.5	
78	WRA3	B	MID-EBB	3-Mar-06			17.8	6.32	6.31	6.32	81.9	81.6	8.8	31.7	4.1	3.8	4.5	10.0	9.0
79	WWFCZ1	S	MID-EBB	3-Mar-06			18.0	6.35	6.29		87.9	86.6	8.7	31.4	3.3	3.2		11.0	
80	WWFCZ1	M	MID-EBB	3-Mar-06	15:26	31.00	17.6	6.94	6.97	6.64	90.8	90.0	8.7	31.5	4.3	4.2		17.0	
81	WWFCZ1	B	MID-EBB	3-Mar-06			17.7	6.63	6.60	6.62	91.6	90.1	8.7	31.6	5.2	5.3	4.2	10.5	12.8
82	WWFCZ2	S	MID-EBB	3-Mar-06			17.6	6.03	6.01		78.3	77.0	8.8	31.5	5.9	5.6		11.0	
83	WWFCZ2	M	MID-EBB	3-Mar-06	15:21	33.00	17.6	6.71	6.66	6.35	93.8	92.5	8.8	31.6	4.8	4.6		17.0	
84	WWFCZ2	B	MID-EBB	3-Mar-06			17.7	6.84	6.76	6.80	94.1	92.7	8.8	31.6	4.5	4.7	5.0	14.5	14.2
85	WFCZR1	S	MID-EBB	3-Mar-06			17.7	6.15	6.09		83.1	82.9	8.8	31.6	5.8	6.1		11.0	
86	WFCZR1	M	MID-EBB	3-Mar-06	15:29	30.00	17.6	6.67	6.64	6.39	90.3	89.1	8.8	31.6	5.6	5.8		17.5	
87	WFCZR1	B	MID-EBB	3-Mar-06			17.6	7.06	6.96	7.01	95.8	94.6	8.8	31.6	5.3	5.8	5.7	14.5	14.3
88	WFCZR2	S	MID-EBB	3-Mar-06			17.9	6.35	6.30		87.1	84.1	8.9	31.6	3.7	3.6		5.0	
89	WFCZR2	M	MID-EBB	3-Mar-06	15:14	34.00	17.6	6.23	6.19	6.27	85.2	84.1	8.9	31.6	5.5	5.0		17.5	
90	WFCZR2	B	MID-EBB	3-Mar-06			17.6	7.05	6.98	7.02	96.4	95.0	8.8	31.6	9.7	9.1	6.1	18.5	13.7
91	WWA1	S	MID-FLOOD	3-Mar-06			18.1	5.65	5.52		79.8	78.5	8.8	30.5	3.7	4.1		12.5	
92	WWA1	M	MID-FLOOD	3-Mar-06	11:40	22.00	18.0	5.75	5.61	5.63	81.9	80.6	8.8	31.6	2.4	2.3		15.0	
93	WWA1	B	MID-FLOOD	3-Mar-06			18.0	5.65	5.54	5.60	77.3	75.2	8.8	31.6	4.7	4.3	3.6	21.0	16.2
94	WWA2	S	MID-FLOOD	3-Mar-06			17.7	6.97	6.74		97.5	94.3	8.8	30.8	7.6	7.2		11.5	

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
Marine Water Quality Morning - March 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
95	WWA2	M	MID-FLOOD	3-Mar-06	11:31	24.00	17.9	6.68	6.50	6.72	93.9	92.3	8.8	30.7	3.9	3.4		17.0	
96	WWA2	B	MID-FLOOD	3-Mar-06			18.1	6.66	6.46	6.56	95.5	93.8	8.8	31.5	10.6	10.0	7.1	16.0	14.8
97	WWA3	S	MID-FLOOD	3-Mar-06			17.8	6.33	6.25		94.6	92.9	8.9	30.6	8.2	8.1		17.0	
98	WWA3	M	MID-FLOOD	3-Mar-06	11:28	16.60	17.9	6.50	6.40	6.37	95.4	93.6	8.9	31.6	4.1	4.1		18.0	
99	WWA3	B	MID-FLOOD	3-Mar-06			18.1	6.30	6.19	6.25	89.5	87.4	8.9	30.7	4.6	4.5	5.6	15.0	16.7
100	WRA1	S	MID-FLOOD	3-Mar-06			18.4	5.69	5.59		80.7	78.0	8.8	31.6	6.2	6.3		14.5	
101	WRA1	M	MID-FLOOD	3-Mar-06	11:44	28.00	18.4	6.43	6.35	6.02	93.9	92.2	8.8	30.7	4.3	4.2		20.5	
102	WRA1	B	MID-FLOOD	3-Mar-06			18.2	6.35	6.27	6.31	93.5	91.8	8.8	30.8	8.6	9.3	6.5	20.5	18.5
103	WRA2	S	MID-FLOOD	3-Mar-06			18.3	6.52	6.37		95.7	93.1	8.8	31.6	3.0	2.9		14.0	
104	WRA2	M	MID-FLOOD	3-Mar-06	11:50	26.00	18.1	6.31	6.23	6.36	94.9	93.0	8.8	30.8	3.4	3.8		14.0	
105	WRA2	B	MID-FLOOD	3-Mar-06			17.9	6.49	6.39	6.44	93.6	91.8	8.8	31.6	10.1	10.0	5.5	17.5	15.2
106	WRA3	S	MID-FLOOD	3-Mar-06			18.3	6.38	6.29		95.2	93.3	8.8	30.7	8.9	8.3		14.0	
107	WRA3	M	MID-FLOOD	3-Mar-06	11:54	23.00	18.3	5.74	5.68	6.02	79.4	78.4	8.8	30.6	4.4	3.9		17.0	
108	WRA3	B	MID-FLOOD	3-Mar-06			18.3	5.76	5.71	5.74	80.3	79.3	8.8	31.5	3.3	3.4	5.4	16.5	15.8
109	WWFCZ1	S	MID-FLOOD	3-Mar-06			17.8	5.75	5.70		79.0	78.1	8.8	30.9	2.9	3.1		9.0	
110	WWFCZ1	M	MID-FLOOD	3-Mar-06	12:11	35.00	17.6	5.59	5.56	5.65	78.6	77.4	8.8	30.7	2.9	2.9		20.0	
111	WWFCZ1	B	MID-FLOOD	3-Mar-06			17.6	5.88	5.82	5.85	83.4	82.1	8.8	30.7	3.5	3.2	3.1	21.0	16.7
112	WWFCZ2	S	MID-FLOOD	3-Mar-06			18.0	5.79	5.71		83.1	81.8	8.8	30.5	10.5	11.4		11.0	
113	WWFCZ2	M	MID-FLOOD	3-Mar-06	12:07	33.00	17.9	5.90	5.84	5.81	83.9	82.6	8.8	31.4	3.3	3.5		18.5	
114	WWFCZ2	B	MID-FLOOD	3-Mar-06			17.8	6.09	6.01	6.05	87.5	85.9	8.8	30.7	9.4	10.6	8.1	19.0	16.2
115	WFCZR1	S	MID-FLOOD	3-Mar-06			18.4	5.90	5.85		83.4	82.0	8.7	31.4	7.4	6.5		9.0	
116	WFCZR1	M	MID-FLOOD	3-Mar-06	12:16	21.00	18.2	6.32	6.24	6.08	91.4	89.7	8.7	30.7	5.3	5.2		13.5	
117	WFCZR1	B	MID-FLOOD	3-Mar-06			18.0	5.66	5.61	5.64	78.1	77.1	8.7	30.6	10.9	10.3	7.6	12.0	11.5
118	WFCZR2	S	MID-FLOOD	3-Mar-06			18.2	6.32	6.22		96.0	93.7	8.8	31.4	6.3	5.2		13.0	
119	WFCZR2	M	MID-FLOOD	3-Mar-06	12:03	33.80	18.0	5.88	5.83	6.06	85.4	84.1	8.8	30.7	7.1	7.2		15.5	
120	WFCZR2	B	MID-FLOOD	3-Mar-06			17.9	5.95	5.89	5.92	81.4	80.3	8.8	31.7	5.2	4.8	6.0	19.5	16.0
121	WWA1	S	MID-EBB	6-Mar-06			17.6	6.09	6.02		85.6	84.1	8.7	31.6	2.2	2.3		8.0	
122	WWA1	M	MID-EBB	6-Mar-06	11:55	14.00	17.6	5.72	5.68	5.88	78.0	76.9	8.7	31.5	5.1	4.3		6.0	
123	WWA1	B	MID-EBB	6-Mar-06			17.5	6.24	6.18	6.21	88.7	86.0	8.7	31.5	7.3	5.1	4.4	8.0	7.3
124	WWA2	S	MID-EBB	6-Mar-06			17.7	6.10	6.06		82.0	80.7	8.7	31.5	5.9	4.4		6.0	
125	WWA2	M	MID-EBB	6-Mar-06	11:50	26.00	17.6	6.03	5.99	6.05	83.9	82.5	8.7	31.5	3.2	3.1		6.0	
126	WWA2	B	MID-EBB	6-Mar-06			17.6	6.06	5.98	6.02	86.1	84.4	8.7	31.5	5.0	4.7	4.4	6.0	6.0
127	WWA3	S	MID-EBB	6-Mar-06			18.6	5.69	5.66		81.1	79.7	8.7	31.4	7.4	7.1		8.0	
128	WWA3	M	MID-EBB	6-Mar-06	11:40	20.00	17.9	6.05	5.99	5.85	88.4	86.4	8.6	31.6	5.8	5.8		9.5	
129	WWA3	B	MID-EBB	6-Mar-06			17.6	6.00	5.92	5.96	80.2	78.8	8.6	31.5	5.6	5.8	6.2	7.5	8.3
130	WRA1	S	MID-EBB	6-Mar-06			17.8	6.27	6.22		86.2	84.9	8.7	31.5	3.9	3.7		9.5	
131	WRA1	M	MID-EBB	6-Mar-06	12:04	35.00	17.6	5.79	5.73	6.00	79.5	77.8	8.7	31.5	5.7	6.4		8.0	
132	WRA1	B	MID-EBB	6-Mar-06			17.6	6.36	6.27	6.32	89.1	87.5	8.7	31.5	6.4	6.5	5.4	14.0	10.5
133	WRA2	S	MID-EBB	6-Mar-06			17.7	6.36	6.28		88.9	87.6	8.7	31.5	6.2	6.0		9.0	
134	WRA2	M	MID-EBB	6-Mar-06	12:13	32.00	17.5	6.20	6.06	6.23	92.0	89.5	8.7	31.5	4.5	4.2		9.0	
135	WRA2	B	MID-EBB	6-Mar-06			17.5	6.44	6.39	6.42	88.0	86.8	8.7	30.7	6.1	6.4	5.6	11.0	9.7
136	WRA3	S	MID-EBB	6-Mar-06			17.6	6.06	6.02		86.0	84.8	8.7	31.6	4.1	4.0		9.0	
137	WRA3	M	MID-EBB	6-Mar-06	12:26	29.00	17.6	6.17	6.13	6.10	87.0	85.5	8.7	31.5	4.9	5.1		9.5	
138	WRA3	B	MID-EBB	6-Mar-06			17.5	6.20	6.13	6.17	88.8	86.9	8.7	31.5	3.9	3.8	4.3	10.0	9.5
139	WWFCZ1	S	MID-EBB	6-Mar-06			17.6	6.21	6.13		87.0	85.4	8.8	31.5	5.1	5.3		8.0	
140	WWFCZ1	M	MID-EBB	6-Mar-06	12:54	29.00	17.5	6.00	5.94	6.07	83.6	82.2	8.8	31.3	5.0	5.2		10.0	
141	WWFCZ1	B	MID-EBB	6-Mar-06			17.5	6.35	6.26	6.31	90.3	88.4	8.8	31.5	4.4	4.4	4.9	14.0	10.7

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Marine Water Quality Morning - March 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
142	WWFCZ2	S	MID-EBB	6-Mar-06			17.7	6.20	6.13		87.6	86.1	8.8	31.4	4.6	4.1		16.0	
143	WWFCZ2	M	MID-EBB	6-Mar-06	12:46	40.00	17.5	6.34	6.28	6.24	88.4	86.8	8.8	31.5	3.9	4.3		18.0	
144	WWFCZ2	B	MID-EBB	6-Mar-06			17.6	6.21	6.13	6.17	88.7	86.9	8.7	31.4	6.6	6.5	5.0	7.0	13.7
145	WFCZR1	S	MID-EBB	6-Mar-06			17.6	6.48	6.41		91.2	89.6	8.7	31.4	3.4	3.3		7.0	
146	WFCZR1	M	MID-EBB	6-Mar-06	13:01	34.00	17.5	6.09	6.02	6.25	84.7	83.2	8.7	31.5	5.6	5.6		9.0	
147	WFCZR1	B	MID-EBB	6-Mar-06			17.5	6.19	6.14	6.17	86.1	84.4	8.7	31.5	7.4	6.7	5.3	8.5	8.2
148	WFCZR2	S	MID-EBB	6-Mar-06			17.7	6.32	6.24		89.7	88.0	8.7	31.5	4.4	4.0		7.0	
149	WFCZR2	M	MID-EBB	6-Mar-06	12:37	41.00	17.6	6.37	6.30	6.31	87.8	86.4	8.7	31.5	5.7	6.0		10.5	
150	WFCZR2	B	MID-EBB	6-Mar-06			17.6	6.66	6.54	6.60	94.5	91.8	8.7	31.5	5.1	5.5	5.1	12.5	10.0
151	WWA1	S	MID-FLOOD	6-Mar-06			17.6	6.51	6.44		92.8	90.9	8.7	31.3	2.2	2.4		6.0	
152	WWA1	M	MID-FLOOD	6-Mar-06	17:32	15.00	17.5	6.22	6.16	6.33	86.6	85.2	8.7	31.4	3.2	2.3		17.0	
153	WWA1	B	MID-FLOOD	6-Mar-06			17.5	6.30	6.22	6.26	87.0	85.5	8.7	29.5	3.9	4.1	3.0	17.5	13.5
154	WWA2	S	MID-FLOOD	6-Mar-06			17.6	6.60	6.52		93.3	91.5	8.6	31.1	5.2	4.8		12.0	
155	WWA2	M	MID-FLOOD	6-Mar-06	17:25	25.00	17.5	6.46	6.39	6.49	90.8	89.2	8.6	31.3	3.8	3.4		8.0	
156	WWA2	B	MID-FLOOD	6-Mar-06			17.5	6.02	5.96	5.99	86.5	85.0	8.6	31.2	2.8	2.5	3.8	11.0	10.3
157	WWA3	S	MID-FLOOD	6-Mar-06			17.8	6.70	6.60		92.8	91.5	8.7	31.4	2.7	2.6		10.5	
158	WWA3	M	MID-FLOOD	6-Mar-06	17:15	22.00	17.6	6.27	6.17	6.44	88.3	86.8	8.7	31.3	2.8	2.5		7.5	
159	WWA3	B	MID-FLOOD	6-Mar-06			17.6	6.73	6.66	6.70	95.6	93.6	8.7	31.3	3.6	3.5	2.9	8.0	8.7
160	WRA1	S	MID-FLOOD	6-Mar-06			17.6	6.20	6.16		84.7	82.5	8.7	31.3	3.7	3.3		7.5	
161	WRA1	M	MID-FLOOD	6-Mar-06	17:41	34.00	17.6	6.70	6.65	6.43	94.5	92.4	8.7	31.3	5.1	5.1		9.0	
162	WRA1	B	MID-FLOOD	6-Mar-06			17.5	6.19	6.13	6.16	83.3	82.5	8.7	31.3	5.3	5.0	4.6	13.0	9.8
163	WRA2	S	MID-FLOOD	6-Mar-06			17.6	6.14	6.16		82.6	81.5	8.7	31.4	5.0	4.9		7.0	
164	WRA2	M	MID-FLOOD	6-Mar-06	17:52	31.00	17.5	6.57	6.49	6.34	94.4	92.4	8.7	31.3	6.3	6.1		8.0	
165	WRA2	B	MID-FLOOD	6-Mar-06			17.5	6.20	6.10	6.15	85.8	82.6	8.7	31.4	5.2	5.2	5.4	11.5	8.8
166	WRA3	S	MID-FLOOD	6-Mar-06			17.6	6.56	6.47		94.4	92.4	8.7	31.4	3.8	3.9		8.0	
167	WRA3	M	MID-FLOOD	6-Mar-06	18:02	30.00	17.5	6.54	6.50	6.52	91.2	89.5	8.7	31.4	3.0	2.9		13.0	
168	WRA3	B	MID-FLOOD	6-Mar-06			17.5	6.83	6.75	6.79	95.5	93.6	8.7	31.3	5.2	5.7	4.1	12.5	11.2
169	WWFCZ1	S	MID-FLOOD	6-Mar-06			17.6	6.61	6.52		94.6	92.6	8.7	31.4	5.0	4.8		11.0	
170	WWFCZ1	M	MID-FLOOD	6-Mar-06	18:43	27.00	17.6	6.29	6.21	6.41	89.4	87.7	8.7	31.4	5.7	5.8		8.0	
171	WWFCZ1	B	MID-FLOOD	6-Mar-06			17.6	6.65	6.59	6.62	96.7	93.6	8.7	31.3	7.8	8.3	6.2	12.5	10.5
172	WWFCZ2	S	MID-FLOOD	6-Mar-06			17.7	6.52	6.44		93.9	91.9	8.7	31.3	6.0	5.3		9.5	
173	WWFCZ2	M	MID-FLOOD	6-Mar-06	18:29	41.00	17.6	6.46	6.40	6.46	91.2	89.4	8.7	29.9	6.2	5.9		10.5	
174	WWFCZ2	B	MID-FLOOD	6-Mar-06			17.6	6.63	6.55	6.59	95.2	93.2	8.7	31.3	5.4	5.3	5.7	8.5	9.5
175	WFCZR1	S	MID-FLOOD	6-Mar-06			17.6	6.51	6.44		89.3	88.1	8.7	31.4	5.9	6.0		11.5	
176	WFCZR1	M	MID-FLOOD	6-Mar-06	18:49	36.00	17.5	6.44	6.39	6.45	91.7	90.0	8.7	31.3	4.9	5.0		12.5	
177	WFCZR1	B	MID-FLOOD	6-Mar-06			17.5	6.46	6.38	6.42	90.1	88.5	8.7	31.3	6.0	5.8	5.6	10.0	11.3
178	WFCZR2	S	MID-FLOOD	6-Mar-06			17.7	6.60	6.51		95.0	93.0	8.6	31.3	6.9	6.4		15.0	
179	WFCZR2	M	MID-FLOOD	6-Mar-06	18:19	40.00	17.6	6.66	6.56	6.58	95.3	93.1	8.6	31.3	6.2	6.1		19.0	
180	WFCZR2	B	MID-FLOOD	6-Mar-06			17.6	6.57	6.49	6.53	94.5	92.5	8.6	31.3	5.3	5.2	6.0	14.5	16.2
181	WWA1	S	MID-EBB	8-Mar-06			18.7	6.54	6.39		96.4	93.1	8.7	31.6	3.0	2.9		5.5	
182	WWA1	M	MID-EBB	8-Mar-06	21:34	31.00	18.6	6.22	6.19	6.34	84.4	83.4	8.7	31.4	1.8	1.7		5.5	
183	WWA1	B	MID-EBB	8-Mar-06			18.2	5.62	5.59	5.61	74.1	73.5	8.7	31.5	2.2	2.2	2.3	7.0	6.0
184	WWA2	S	MID-EBB	8-Mar-06			18.7	6.15	6.09		88.4	86.8	8.7	31.4	2.4	2.2		5.0	
185	WWA2	M	MID-EBB	8-Mar-06	21:42	28.00	18.2	6.13	6.07	6.11	84.3	83.2	8.7	31.3	3.3	3.3		8.5	
186	WWA2	B	MID-EBB	8-Mar-06			18.2	6.51	6.39	6.45	93.1	90.3	8.7	31.4	2.1	2.2	2.6	11.0	8.2
187	WWA3	S	MID-EBB	8-Mar-06			18.8	6.02	5.95		90.8	88.8	8.7	31.6	2.4	2.5		5.5	
188	WWA3	M	MID-EBB	8-Mar-06	21:51	25.00	18.5	6.12	6.08	6.04	82.7	82.0	8.7	31.4	2.8	2.6		11.0	

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
 Marine Water Quality Morning - March 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
189	WWA3	B	MID-EBB	8-Mar-06			18.0	6.44	6.42	6.43	86.3	85.2	8.7	31.4	2.9	3.0	2.7	9.0	8.5
190	WRA1	S	MID-EBB	8-Mar-06			18.4	6.07	6.00		83.8	82.8	8.8	31.5	1.9	1.8		5.0	
191	WRA1	M	MID-EBB	8-Mar-06	21:28	33.00	18.1	6.15	6.12	6.09	83.2	81.8	8.8	31.4	1.6	1.7		10.0	
192	WRA1	B	MID-EBB	8-Mar-06			18.2	6.19	6.13	6.16	86.1	85.0	8.8	31.2	2.4	2.5	2.0	9.0	8.0
193	WRA2	S	MID-EBB	8-Mar-06			18.5	6.05	6.02		79.7	79.0	8.8	31.1	2.7	2.8		4.5	
194	WRA2	M	MID-EBB	8-Mar-06	21:20	30.00	18.1	5.98	5.95	6.00	80.0	79.2	8.8	31.5	2.2	2.0		7.0	
195	WRA2	B	MID-EBB	8-Mar-06			18.1	6.27	6.22	6.25	86.7	85.5	8.8	31.4	2.1	2.3	2.4	9.0	6.8
196	WRA3	S	MID-EBB	8-Mar-06			18.4	6.29	6.25		87.2	85.9	8.8	31.6	3.0	3.1		4.0	
197	WRA3	M	MID-EBB	8-Mar-06	21:12	32.00	18.1	6.18	6.12	6.21	84.1	83.0	8.8	31.5	2.0	2.1		7.5	
198	WRA3	B	MID-EBB	8-Mar-06			18.2	6.13	6.06	6.10	86.0	84.5	8.8	30.9	1.6	1.7	2.3	6.0	5.8
199	WWFCZ1	S	MID-EBB	8-Mar-06			19.1	6.05	6.01		82.2	81.5	8.7	31.5	1.6	1.7		4.0	
200	WWFCZ1	M	MID-EBB	8-Mar-06	20:52	27.00	18.2	6.62	6.51	6.30	94.3	91.6	8.7	31.4	1.7	1.6		14.0	
201	WWFCZ1	B	MID-EBB	8-Mar-06			18.2	6.59	6.52	6.56	96.3	93.5	8.7	31.4	1.9	1.9	1.7	8.5	8.8
202	WWFCZ2	S	MID-EBB	8-Mar-06			18.6	6.22	6.18		83.9	83.2	8.7	31.5	2.4	2.3		4.0	
203	WWFCZ2	M	MID-EBB	8-Mar-06	20:59	33.00	18.1	6.23	6.12	6.19	87.0	84.9	8.7	31.5	2.8	2.8		7.0	
204	WWFCZ2	B	MID-EBB	8-Mar-06			18.2	6.43	6.35	6.39	91.9	89.9	8.7	31.3	3.1	2.9	2.7	5.0	5.3
205	WFCZR1	S	MID-EBB	8-Mar-06			19.5	5.95	5.88		84.3	83.2	8.7	31.4	2.3	2.4		6.5	
206	WFCZR1	M	MID-EBB	8-Mar-06	20:46	37.00	18.5	6.17	6.15	6.04	84.9	83.9	8.7	31.3	3.6	3.3		8.0	
207	WFCZR1	B	MID-EBB	8-Mar-06			18.6	6.31	6.24	6.28	90.8	89.2	8.7	31.5	3.2	2.9	2.9	9.0	7.8
208	WFCZR2	S	MID-EBB	8-Mar-06			18.5	6.41	6.36		87.3	86.8	8.7	31.5	2.5	2.6		5.0	
209	WFCZR2	M	MID-EBB	8-Mar-06	21:06	40.00	18.1	6.07	6.03	6.22	79.8	79.2	8.7	31.5	3.6	3.2		6.5	
210	WFCZR2	B	MID-EBB	8-Mar-06			18.1	6.32	6.24	6.28	89.7	87.8	8.7	31.3	3.0	2.5	2.9	5.5	5.7
211	WWA1	S	MID-FLOOD	8-Mar-06			18.6	5.98	5.92		81.0	80.0	8.8	31.4	1.7	1.7		10.5	
212	WWA1	M	MID-FLOOD	8-Mar-06	11:08	18.00	18.2	5.79	5.75	5.86	79.8	78.9	8.8	31.3	3.1	3.7		11.0	
213	WWA1	B	MID-FLOOD	8-Mar-06			18.5	6.43	6.29	6.36	93.8	90.8	8.8	31.2	2.1	2.1	2.4	7.5	9.7
214	WWA2	S	MID-FLOOD	8-Mar-06			18.7	6.22	6.17		85.4	83.8	8.6	31.5	2.4	2.2		8.5	
215	WWA2	M	MID-FLOOD	8-Mar-06	11:17	23.00	18.4	5.90	5.86	6.04	78.2	77.7	8.6	31.4	2.3	2.2		6.5	
216	WWA2	B	MID-FLOOD	8-Mar-06			18.3	6.06	5.99	6.03	85.9	84.4	8.6	31.2	1.9	1.9	2.1	7.0	7.3
217	WWA3	S	MID-FLOOD	8-Mar-06			18.7	5.63	5.60		74.9	74.1	8.8	31.4	2.5	2.4		7.5	
218	WWA3	M	MID-FLOOD	8-Mar-06	11:23	21.00	18.2	6.07	6.02	5.83	80.6	79.9	8.8	31.4	1.8	1.8		9.5	
219	WWA3	B	MID-FLOOD	8-Mar-06			18.1	6.48	6.41	6.45	90.2	88.8	8.8	31.4	2.6	2.7	2.3	7.5	8.2
220	WRA1	S	MID-FLOOD	8-Mar-06			18.4	5.98	5.95		79.7	79.3	8.7	31.4	2.0	1.8		5.0	
221	WRA1	M	MID-FLOOD	8-Mar-06	10:59	36.00	18.2	6.12	6.09	6.04	80.3	79.8	8.7	31.4	2.8	2.6		7.5	
222	WRA1	B	MID-FLOOD	8-Mar-06			18.2	6.15	6.10	6.13	84.0	83.0	8.7	31.3	3.0	2.6	2.5	6.0	6.2
223	WRA2	S	MID-FLOOD	8-Mar-06			18.5	5.51	5.54		75.7	75.1	8.8	31.6	2.3	2.4		8.5	
224	WRA2	M	MID-FLOOD	8-Mar-06	10:51	35.00	18.1	6.24	6.19	5.87	87.5	86.1	8.8	31.4	2.5	3.1		6.5	
225	WRA2	B	MID-FLOOD	8-Mar-06			18.0	6.42	6.37	6.40	92.2	90.2	8.8	31.4	2.2	2.2	2.5	8.5	7.8
226	WRA3	S	MID-FLOOD	8-Mar-06			18.2	6.20	6.17		82.2	81.6	8.8	31.4	1.2	1.3		8.0	
227	WRA3	M	MID-FLOOD	8-Mar-06	10:45	32.00	17.9	5.81	5.78	5.99	77.1	76.5	8.8	31.5	1.8	1.7		5.8	
228	WRA3	B	MID-FLOOD	8-Mar-06			18.1	6.57	6.49	6.53	96.2	93.2	8.8	31.2	1.2	1.2	1.4	5.5	6.4
229	WWFCZ1	S	MID-FLOOD	8-Mar-06			18.4	6.25	6.18		87.9	86.8	8.6	31.5	2.4	2.4		14.0	
230	WWFCZ1	M	MID-FLOOD	8-Mar-06	10:22	29.00	18.0	6.17	6.12	6.18	84.1	83.1	8.6	31.4	2.4	2.8		10.5	
231	WWFCZ1	B	MID-FLOOD	8-Mar-06			18.0	6.47	6.38	6.43	94.2	92.2	8.6	31.4	3.1	3.0	2.7	5.5	10.0
232	WWFCZ2	S	MID-FLOOD	8-Mar-06			18.2	5.89	5.85		81.8	80.6	8.7	31.4	3.1	2.9		7.0	
233	WWFCZ2	M	MID-FLOOD	8-Mar-06	10:28	40.00	17.9	5.92	5.86	5.88	81.7	80.7	8.7	31.4	2.5	2.9		3.5	
234	WWFCZ2	B	MID-FLOOD	8-Mar-06			18.1	6.44	6.38	6.41	93.2	91.4	8.7	31.4	1.5	1.4	2.4	8.5	6.3
235	WFCZR1	S	MID-FLOOD	8-Mar-06			19.0	5.57	5.55		76.3	75.7	8.7	31.3	1.9	1.9		5.5	

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Marine Water Quality Morning - March 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
236	WFCZR1	M	MID-FLOOD	8-Mar-06	10:09	34.00	18.5	6.55	6.51	6.05	91.7	90.5	8.7	31.4	3.5	3.6		7.5	
237	WFCZR1	B	MID-FLOOD	8-Mar-06			18.1	6.47	6.39	6.43	91.7	90.3	8.7	31.4	4.4	4.0	3.2	8.5	7.2
238	WFCZR2	S	MID-FLOOD	8-Mar-06			18.5	6.28	6.22		86.8	85.9	8.8	31.5	3.6	3.4		11.0	
239	WFCZR2	M	MID-FLOOD	8-Mar-06	10:35	43.00	18.0	6.10	6.05	6.16	84.6	83.5	8.8	31.5	2.1	2.2		9.5	
240	WFCZR2	B	MID-FLOOD	8-Mar-06			18.0	6.48	6.37	6.43	94.8	92.7	8.8	31.4	2.4	2.1	2.6	11.0	10.5
241	WWA1	S	MID-EBB	10-Mar-06			19.3	6.65	6.54		97.5	94.4	7.9	30.9	2.2	2.2		4.0	
242	WWA1	M	MID-EBB	10-Mar-06	18:21	20.00	18.7	5.88	5.82	6.22	81.4	80.3	7.9	31.2	1.6	1.6		4.5	
243	WWA1	B	MID-EBB	10-Mar-06			18.7	6.04	5.96	6.00	87.0	85.4	7.9	31.2	2.1	2.1	2.0	4.5	4.3
244	WWA2	S	MID-EBB	10-Mar-06			19.1	6.14	6.09		86.2	85.2	7.9	30.0	1.9	1.8		2.5	
245	WWA2	M	MID-EBB	10-Mar-06	18:30	29.00	18.4	6.20	6.14	6.14	84.6	83.3	7.9	31.2	1.9	1.9		4.0	
246	WWA2	B	MID-EBB	10-Mar-06			18.4	6.48	6.37	6.43	92.4	89.9	7.9	31.3	2.2	2.1	2.0	4.5	3.7
247	WWA3	S	MID-EBB	10-Mar-06			18.9	5.93	5.88		82.1	81.1	7.9	31.0	1.8	1.7		2.8	
248	WWA3	M	MID-EBB	10-Mar-06	18:45	25.00	18.8	6.50	6.43	6.19	90.9	89.6	7.9	31.0	2.6	2.4		4.0	
249	WWA3	B	MID-EBB	10-Mar-06			18.8	6.12	6.13	6.13	88.6	87.6	7.9	30.8	2.5	2.6	2.3	5.5	4.1
250	WRA1	S	MID-EBB	10-Mar-06			19.1	6.63	6.55		95.7	93.8	7.9	31.1	3.2	3.4		10.0	
251	WRA1	M	MID-EBB	10-Mar-06	18:10	37.00	18.6	6.42	6.35	6.49	90.1	88.6	7.9	30.6	2.1	2.2		7.0	
252	WRA1	B	MID-EBB	10-Mar-06			18.5	6.55	6.42	6.49	95.0	92.1	7.9	31.3	2.7	2.7	2.7	9.0	8.7
253	WRA2	S	MID-EBB	10-Mar-06			19.0	6.67	6.59		95.8	94.0	7.9	30.7	2.3	2.7		5.5	
254	WRA2	M	MID-EBB	10-Mar-06	18:02	35.00	18.9	6.43	6.38	6.52	92.4	90.7	7.9	31.1	2.0	1.7		4.0	
255	WRA2	B	MID-EBB	10-Mar-06			18.6	6.29	6.24	6.27	87.9	86.6	7.9	29.8	2.3	2.3	2.2	6.5	5.3
256	WRA3	S	MID-EBB	10-Mar-06			19.7	6.44	6.40		90.6	89.4	7.9	31.1	1.7	1.8		7.0	
257	WRA3	M	MID-EBB	10-Mar-06	17:50	32.00	18.7	6.48	6.37	6.42	91.7	89.6	7.9	30.7	2.3	2.2		9.0	
258	WRA3	B	MID-EBB	10-Mar-06			18.7	6.73	6.65	6.69	98.2	95.8	7.9	31.2	1.7	1.7	1.9	5.0	7.0
259	WWFCZ1	S	MID-EBB	10-Mar-06			19.6	6.67	6.55		98.6	95.6	7.9	31.0	2.7	2.4		5.5	
260	WWFCZ1	M	MID-EBB	10-Mar-06	17:15	27.00	18.9	6.56	6.48	6.57	94.7	92.7	7.9	30.7	2.2	1.9		4.0	
261	WWFCZ1	B	MID-EBB	10-Mar-06			18.9	6.77	6.66	6.72	97.2	94.6	7.9	31.1	2.6	2.6	2.4	7.0	5.5
262	WWFCZ2	S	MID-EBB	10-Mar-06			19.4	6.23	6.14		88.4	86.8	7.9	31.2	2.4	2.4		2.8	
263	WWFCZ2	M	MID-EBB	10-Mar-06	17:29	43.00	18.7	6.29	6.26	6.23	85.6	84.5	7.9	31.2	2.6	2.7		14.0	
264	WWFCZ2	B	MID-EBB	10-Mar-06			18.6	6.43	6.39	6.41	88.6	87.5	7.9	31.2	1.8	1.7	2.3	8.5	8.4
265	WFCZR1	S	MID-EBB	10-Mar-06			20.4	6.28	6.21		94.2	92.3	7.8	30.9	2.7	3.0		3.5	
266	WFCZR1	M	MID-EBB	10-Mar-06	17:00	39.00	19.2	6.29	6.24	6.26	90.3	88.7	7.8	31.6	3.0	2.8		7.0	
267	WFCZR1	B	MID-EBB	10-Mar-06			19.4	6.56	6.43	6.50	99.4	96.4	7.8	31.6	4.0	2.8	3.1	6.5	5.7
268	WFCZR2	S	MID-EBB	10-Mar-06			19.2	6.69	6.64		94.1	92.5	7.9	30.9	3.0	2.7		4.0	
269	WFCZR2	M	MID-EBB	10-Mar-06	17:40	41.00	18.8	6.60	6.51	6.61	96.4	94.2	7.9	31.2	2.4	2.7		5.0	
270	WFCZR2	B	MID-EBB	10-Mar-06			18.6	6.72	6.66	6.69	97.8	95.7	7.9	31.2	1.9	1.7	2.4	5.5	4.8
271	WWA1	S	MID-FLOOD	10-Mar-06			19.1	6.23	6.17		86.4	85.4	7.9	30.7	2.4	2.3		5.5	
272	WWA1	M	MID-FLOOD	10-Mar-06	11:40	16.00	18.8	6.15	6.11	6.17	84.8	83.5	7.9	30.7	2.7	2.8		6.0	
273	WWA1	B	MID-FLOOD	10-Mar-06			18.8	6.19	6.14	6.17	85.9	84.8	7.9	30.8	2.7	2.8	2.6	7.5	6.3
274	WWA2	S	MID-FLOOD	10-Mar-06			19.1	6.44	6.31		94.9	91.9	7.9	31.1	2.4	2.3		9.0	
275	WWA2	M	MID-FLOOD	10-Mar-06	11:51	23.00	19.0	6.25	6.18	6.30	88.1	86.8	7.9	31.2	1.5	1.5		6.0	
276	WWA2	B	MID-FLOOD	10-Mar-06			18.6	6.09	6.04	6.07	86.4	84.5	7.9	31.0	1.7	1.7	1.9	6.5	7.2
277	WWA3	S	MID-FLOOD	10-Mar-06			18.8	6.69	6.63		93.3	91.8	7.9	30.9	3.1	2.1		7.5	
278	WWA3	M	MID-FLOOD	10-Mar-06	12:00	22.00	18.5	6.80	6.72	6.71	95.0	92.8	7.9	31.1	2.7	2.9		7.0	
279	WWA3	B	MID-FLOOD	10-Mar-06			18.5	6.76	6.68	6.72	94.3	92.3	7.9	31.1	2.6	2.6	2.7	8.5	7.7
280	WRA1	S	MID-FLOOD	10-Mar-06			19.3	6.25	6.23		85.4	84.6	7.9	30.7	2.0	2.0		4.5	
281	WRA1	M	MID-FLOOD	10-Mar-06	11:25	39.00	18.7	6.40	6.32	6.30	90.9	89.2	7.9	30.8	1.9	1.8		9.5	
282	WRA1	B	MID-FLOOD	10-Mar-06			18.7	6.70	6.58	6.64	95.4	93.0	7.9	31.0	3.4	3.1	2.3	7.0	7.0

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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
283	WRA2	S	MID-FLOOD	10-Mar-06			19.1	6.39	6.35		87.1	86.3	7.9	30.7	3.3	3.0		7.0	
284	WRA2	M	MID-FLOOD	10-Mar-06	11:16	33.00	18.7	6.00	5.99	6.18	78.5	78.3	7.9	31.3	4.5	2.8		9.0	
285	WRA2	B	MID-FLOOD	10-Mar-06			18.6	6.29	6.23	6.26	89.0	87.5	7.9	31.2	2.8	3.0	3.2	6.5	7.5
286	WRA3	S	MID-FLOOD	10-Mar-06			19.3	6.45	6.38		95.6	93.5	7.9	30.4	3.0	3.0		5.3	
287	WRA3	M	MID-FLOOD	10-Mar-06	11:05	32.00	18.9	6.47	6.34	6.41	91.6	89.7	7.9	31.3	2.3	2.4		3.3	
288	WRA3	B	MID-FLOOD	10-Mar-06			18.6	6.54	6.43	6.49	95.0	92.1	7.9	31.2	2.7	2.5	2.6	8.0	5.5
289	WWFCZ1	S	MID-FLOOD	10-Mar-06			19.6	6.07	6.00		87.0	85.6	7.9	31.0	1.4	1.5		8.0	
290	WWFCZ1	M	MID-FLOOD	10-Mar-06	10:30	30.00	18.8	5.85	5.82	5.94	78.5	77.8	7.9	31.3	2.8	2.7		7.0	
291	WWFCZ1	B	MID-FLOOD	10-Mar-06			18.5	6.39	6.33	6.36	91.7	89.7	7.9	31.2	2.6	2.6	2.3	5.0	6.7
292	WWFCZ2	S	MID-FLOOD	10-Mar-06			19.2	6.41	6.34		90.7	89.3	8.0	30.8	1.6	1.6		7.0	
293	WWFCZ2	M	MID-FLOOD	10-Mar-06	10:39	33.00	18.7	6.13	6.08	6.24	85.5	84.3	8.0	31.1	1.7	1.7		3.8	
294	WWFCZ2	B	MID-FLOOD	10-Mar-06			18.7	6.24	6.15	6.20	90.2	88.3	8.0	31.3	2.2	2.2	1.8	5.5	5.4
295	WFCZR1	S	MID-FLOOD	10-Mar-06			19.8	5.97	5.91		87.3	84.9	7.9	29.2	2.6	2.5		6.0	
296	WFCZR1	M	MID-FLOOD	10-Mar-06	10:21	33.00	18.6	6.16	6.13	6.04	85.2	83.6	7.9	31.4	1.9	1.9		5.0	
297	WFCZR1	B	MID-FLOOD	10-Mar-06			18.5	6.63	6.58	6.61	92.0	90.7	7.9	31.5	3.5	3.2	2.6	5.0	5.3
298	WFCZR2	S	MID-FLOOD	10-Mar-06			19.4	6.48	6.42		90.8	89.3	7.9	30.7	2.6	2.7		6.5	
299	WFCZR2	M	MID-FLOOD	10-Mar-06	10:50	40.00	18.7	5.68	5.67	6.06	75.0	74.5	7.9	31.3	1.6	1.5		5.5	
300	WFCZR2	B	MID-FLOOD	10-Mar-06			18.5	6.47	6.39	6.43	92.8	90.8	7.9	30.0	2.6	2.3	2.2	6.0	6.0
301	WWA1	S	MID-EBB	13-Mar-06			17.9	6.86	6.75		96.1	93.2	8.0	31.1	2.9	3.3		10.0	
302	WWA1	M	MID-EBB	13-Mar-06	15:10	13.50	17.2	6.98	6.88	6.87	95.0	93.1	8.0	31.4	4.0	3.7		11.5	
303	WWA1	B	MID-EBB	13-Mar-06			17.5	7.10	7.04	7.07	95.4	94.0	8.0	31.3	3.6	3.5	3.5	4.5	8.7
304	WWA2	S	MID-EBB	13-Mar-06			18.1	6.76	6.68		92.8	91.1	8.0	31.1	3.8	3.6		8.0	
305	WWA2	M	MID-EBB	13-Mar-06	15:27	25.30	18.0	6.77	6.72	6.73	92.1	90.6	8.0	31.3	3.7	3.5		5.5	
306	WWA2	B	MID-EBB	13-Mar-06			17.7	6.79	6.72	6.76	93.2	91.2	8.0	31.1	3.5	3.8	3.7	7.0	6.8
307	WWA3	S	MID-EBB	13-Mar-06			18.1	6.91	6.83		95.1	92.7	8.0	31.2	3.9	3.9		7.5	
308	WWA3	M	MID-EBB	13-Mar-06	15:46	19.00	17.7	6.81	6.75	6.83	94.4	92.6	8.0	31.3	4.8	4.9		5.0	
309	WWA3	B	MID-EBB	13-Mar-06			18.0	6.73	6.66	6.70	93.1	91.6	8.0	31.3	4.5	3.7	4.3	7.5	6.7
310	WRA1	S	MID-EBB	13-Mar-06			18.0	6.82	6.74		94.2	92.6	8.0	31.3	5.4	5.4		8.0	
311	WRA1	M	MID-EBB	13-Mar-06	15:20	33.00	17.9	6.97	6.93	6.87	95.4	93.4	8.0	31.3	3.9	4.3		9.5	
312	WRA1	B	MID-EBB	13-Mar-06			17.4	6.87	6.84	6.86	95.6	94.1	8.0	31.2	4.0	4.1	4.5	7.5	8.3
313	WRA2	S	MID-EBB	13-Mar-06			17.6	6.83	6.73		95.9	93.5	8.0	31.1	3.6	3.5		9.5	
314	WRA2	M	MID-EBB	13-Mar-06	15:09	31.00	17.8	6.80	6.75	6.78	93.7	92.1	8.0	31.3	3.2	3.3		7.0	
315	WRA2	B	MID-EBB	13-Mar-06			17.7	6.64	6.62	6.63	94.3	92.8	8.0	31.3	4.2	3.8	3.6	13.0	9.8
316	WRA3	S	MID-EBB	13-Mar-06			17.6	6.94	6.85		96.6	93.7	8.0	31.1	3.0	2.8		10.5	
317	WRA3	M	MID-EBB	13-Mar-06	14:53	27.00	17.6	7.05	6.93	6.94	97.2	95.1	8.0	31.2	3.6	2.7		7.5	
318	WRA3	B	MID-EBB	13-Mar-06			17.0	7.00	6.89	6.95	94.6	92.5	8.0	30.9	2.7	3.2	3.0	6.0	8.0
319	WWFCZ1	S	MID-EBB	13-Mar-06			17.8	6.73	6.67		91.0	89.6	8.0	31.4	2.6	2.4		6.0	
320	WWFCZ1	M	MID-EBB	13-Mar-06	14:13	28.00	18.1	6.90	6.89	6.80	92.9	91.5	8.0	31.3	3.1	3.0		8.0	
321	WWFCZ1	B	MID-EBB	13-Mar-06			18.0	6.90	6.87	6.89	93.5	92.2	8.0	31.3	3.4	3.3	3.0	11.5	8.5
322	WWFCZ2	S	MID-EBB	13-Mar-06			17.9	7.11	6.96		97.3	95.2	8.0	31.2	3.1	2.8		9.0	
323	WWFCZ2	M	MID-EBB	13-Mar-06	14:30	39.00	17.8	6.83	6.78	6.92	92.6	91.3	8.0	31.2	3.1	3.4		10.5	
324	WWFCZ2	B	MID-EBB	13-Mar-06			18.0	6.99	6.97	6.98	95.8	93.8	8.0	31.2	4.1	3.3	3.3	8.5	9.3
325	WFCZR1	S	MID-EBB	13-Mar-06			17.4	6.65	6.58		89.9	88.9	7.9	30.9	4.2	3.8		6.5	
326	WFCZR1	M	MID-EBB	13-Mar-06	14:00	33.00	17.4	6.85	6.80	6.72	92.1	90.9	8.0	30.2	4.1	4.2		9.5	
327	WFCZR1	B	MID-EBB	13-Mar-06			17.7	6.73	6.67	6.70	91.1	89.8	8.0	31.2	4.3	4.1	4.1	10.0	8.7
328	WFCZR2	S	MID-EBB	13-Mar-06			17.8	6.73	6.67		91.0	89.6	8.0	31.4	3.0	2.5		8.0	
329	WFCZR2	M	MID-EBB	13-Mar-06	14:40	38.00	18.1	6.90	6.89	6.80	92.9	91.5	8.0	31.3	3.2	2.9		6.0	

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
Marine Water Quality Morning - March 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
330	WFCZR2	B	MID-EBB	13-Mar-06			18.1	6.88	6.85	6.87	90.3	89.6	8.0	31.1	2.9	2.7	2.9	9.5	7.8
331	WWA1	S	MID-FLOOD	13-Mar-06	10:05	14.00	18.1	6.66	6.61	6.60	93.1	91.2	8.1	31.2	2.7	2.8	3.2	8.0	7.3
332	WWA1	M	MID-FLOOD	13-Mar-06			18.1	6.58	6.53		91.5	90.3	8.1	31.4	3.7	3.9		8.0	
333	WWA1	B	MID-FLOOD	13-Mar-06			18.1	6.97	6.93		93.2	92.2	8.1	31.4	3.1	3.3		6.0	
334	WWA2	S	MID-FLOOD	13-Mar-06			18.0	6.77	6.71		93.2	91.6	8.1	31.4	2.3	2.7		6.0	
335	WWA2	M	MID-FLOOD	13-Mar-06	10:27	26.00	18.0	6.59	6.48	6.64	90.1	88.8	8.1	31.4	2.7	2.3	2.6	6.0	6.5
336	WWA2	B	MID-FLOOD	13-Mar-06			18.1	6.77	6.73		92.9	91.8	8.1	31.4	3.4	2.4		7.5	
337	WWA3	S	MID-FLOOD	13-Mar-06	10:44	23.00	18.3	6.46	6.41	6.33	91.1	90.1	8.1	31.4	1.9	1.9	2.4	6.0	8.2
338	WWA3	M	MID-FLOOD	13-Mar-06			18.1	6.29	6.15		90.8	90.1	8.1	31.3	3.0	2.7		11.5	
339	WWA3	B	MID-FLOOD	13-Mar-06			18.1	6.75	6.74		90.1	89.2	8.1	31.4	2.0	2.7		7.0	
340	WRA1	S	MID-FLOOD	13-Mar-06	9:15	32.00	17.9	6.96	6.93	6.90	92.1	90.8	8.1	31.2	2.9	2.8	2.7	8.0	6.8
341	WRA1	M	MID-FLOOD	13-Mar-06			17.7	6.87	6.82		95.3	93.6	8.1	31.4	2.7	2.6		5.5	
342	WRA1	B	MID-FLOOD	13-Mar-06			18.1	7.00	6.95		96.1	94.6	8.1	31.5	2.8	2.7		7.0	
343	WRA2	S	MID-FLOOD	13-Mar-06			17.9	6.87	6.80		92.9	91.3	8.1	31.3	2.4	2.3		8.5	
344	WRA2	M	MID-FLOOD	13-Mar-06	9:29	30.00	17.5	6.82	6.80	6.82	90.5	89.7	8.1	31.2	3.4	3.5	3.0	10.5	9.7
345	WRA2	B	MID-FLOOD	13-Mar-06			17.7	6.58	6.53		91.9	90.2	8.1	31.3	3.2	3.1		10.0	
346	WRA3	S	MID-FLOOD	13-Mar-06	9:47	29.00	18.1	6.82	6.85	6.82	93.4	92.1	8.1	31.4	2.5	2.4	3.1	9.0	7.0
347	WRA3	M	MID-FLOOD	13-Mar-06			18.0	6.84	6.76		93.8	91.9	8.1	31.4	3.3	3.0		5.0	
348	WRA3	B	MID-FLOOD	13-Mar-06			17.5	7.03	7.00		92.4	91.6	8.1	32.1	3.8	3.5		7.0	
349	WWFCZ1	S	MID-FLOOD	13-Mar-06	8:30	26.00	17.3	6.81	6.75	6.77	90.3	89.3	8.1	31.4	2.8	2.6	3.8	6.0	8.7
350	WWFCZ1	M	MID-FLOOD	13-Mar-06			17.2	6.80	6.70		94.0	92.4	8.1	31.4	4.2	4.0		7.0	
351	WWFCZ1	B	MID-FLOOD	13-Mar-06			17.8	6.99	6.91		95.5	94.0	8.1	31.4	4.7	4.5		13.0	
352	WWFCZ2	S	MID-FLOOD	13-Mar-06			17.8	6.87	6.72		94.0	92.7	8.1	31.3	2.9	2.6		11.0	
353	WWFCZ2	M	MID-FLOOD	13-Mar-06	8:43	37.00	18.0	6.78	6.74	6.78	89.2	88.6	8.1	31.4	5.5	5.7	4.3	11.0	11.0
354	WWFCZ2	B	MID-FLOOD	13-Mar-06			17.9	6.78	6.72		92.8	91.4	8.1	31.5	5.1	4.1		11.0	
355	WFCZR1	S	MID-FLOOD	13-Mar-06	8:15	31.70	18.1	6.05	6.02	6.22	78.2	77.9	8.0	31.0	5.5	4.6	5.2	11.0	12.8
356	WFCZR1	M	MID-FLOOD	13-Mar-06			17.9	6.42	6.39		84.9	84.0	8.1	31.7	5.4	5.1		13.5	
357	WFCZR1	B	MID-FLOOD	13-Mar-06			18.1	6.52	6.49		86.1	85.2	8.1	31.6	5.3	5.2		14.0	
358	WFCZR2	S	MID-FLOOD	13-Mar-06	8:57	38.50	17.9	6.74	6.66	6.80	91.8	90.4	8.1	31.3	4.1	4.4	4.9	13.5	11.8
359	WFCZR2	M	MID-FLOOD	13-Mar-06			17.9	6.93	6.86		95.2	93.2	8.1	31.4	5.5	5.2		12.5	
360	WFCZR2	B	MID-FLOOD	13-Mar-06			18.1	7.11	7.05		95.1	93.9	8.1	31.4	5.1	5.0		9.5	
361	WWA1	S	MID-EBB	15-Mar-06	14:30	6.70	18.3	6.68	6.59	6.60	91.1	89.2	7.9	31.3	3.7	3.8	6.0	8.5	12.7
362	WWA1	M	MID-EBB	15-Mar-06			18.3	6.60	6.54		90.3	89.0	8.0	31.4	5.7	5.7		12.5	
363	WWA1	B	MID-EBB	15-Mar-06			18.3	6.49	6.43		88.9	87.3	8.0	31.4	8.5	8.6		17.0	
364	WWA2	S	MID-EBB	15-Mar-06			18.5	6.80	6.71		95.2	93.0	8.0	31.4	1.7	1.8		5.5	
365	WWA2	M	MID-EBB	15-Mar-06	14:13	13.90	18.4	6.76	6.72	6.75	90.1	89.3	8.0	31.4	2.1	2.1	2.0	14.0	10.2
366	WWA2	B	MID-EBB	15-Mar-06			18.4	6.60	6.49		89.4	88.2	8.0	31.4	2.2	2.2		11.0	
367	WWA3	S	MID-EBB	15-Mar-06	14:00	7.90	18.8	6.54	6.47	6.47	87.3	86.8	7.9	31.2	4.1	4.2	4.1	8.5	9.5
368	WWA3	M	MID-EBB	15-Mar-06			18.7	6.46	6.39		89.3	87.7	7.9	31.4	4.2	4.2		9.0	
369	WWA3	B	MID-EBB	15-Mar-06			18.5	6.46	6.39		87.1	86.1	8.0	31.4	4.0	3.9		11.0	
370	WRA1	S	MID-EBB	15-Mar-06			18.3	6.96	6.87		95.3	93.3	8.0	31.4	5.2	5.0		6.5	
371	WRA1	M	MID-EBB	15-Mar-06	15:09	26.00	18.3	6.69	6.60	6.78	91.6	90.3	8.0	31.5	6.2	6.2	5.4	5.5	6.3
372	WRA1	B	MID-EBB	15-Mar-06			18.3	6.87	6.80		93.7	92.2	8.0	31.5	4.8	4.8		7.0	
373	WRA2	S	MID-EBB	15-Mar-06			18.3	6.57	6.50		88.3	87.3	8.0	31.4	3.5	3.5		5.0	
374	WRA2	M	MID-EBB	15-Mar-06			14:57	31.30	18.3		6.93	6.80	6.70	96.3	94.6	8.0		31.3	
375	WRA2	B	MID-EBB	15-Mar-06	18.3	6.98			6.92	95.7	94.4	8.0		31.5	5.3	5.9	6.5		
376	WRA3	S	MID-EBB	15-Mar-06			18.2	6.79	6.60		96.1	94.1	8.0	31.4	3.1	3.3		5.8	

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
Marine Water Quality Morning - March 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
377	WRA3	M	MID-EBB	15-Mar-06	14:43	27.60	18.3	6.94	6.84	6.79	95.6	94.2	8.0	31.5	3.7	3.9		10.5	
378	WRA3	B	MID-EBB	15-Mar-06			18.3	6.94	6.85	6.90	95.2	93.5	8.0	31.5	4.1	4.6	3.8	7.5	7.9
379	WWFCZ1	S	MID-EBB	15-Mar-06			18.2	6.86	6.78		96.5	94.8	8.0	31.0	2.9	3.0		5.5	
380	WWFCZ1	M	MID-EBB	15-Mar-06	16:00	36.40	18.2	6.86	6.76	6.82	95.1	93.1	8.0	31.4	2.1	2.2		7.0	
381	WWFCZ1	B	MID-EBB	15-Mar-06			18.2	6.88	6.85	6.87	94.3	93.0	8.0	31.4	4.4	4.4	3.1	6.0	6.2
382	WWFCZ2	S	MID-EBB	15-Mar-06			18.2	7.04	6.93		96.2	94.8	8.0	31.0	4.2	4.3		7.0	
383	WWFCZ2	M	MID-EBB	15-Mar-06	15:45	38.30	18.2	6.67	6.54	6.80	90.3	89.0	8.0	31.3	4.1	4.0		6.5	
384	WWFCZ2	B	MID-EBB	15-Mar-06			18.1	7.09	7.02	7.06	98.1	96.3	8.0	31.5	3.2	3.6	3.9	6.0	6.5
385	WFCZR1	S	MID-EBB	15-Mar-06			18.2	6.92	6.85		92.8	91.6	8.0	31.3	3.6	3.5		7.0	
386	WFCZR1	M	MID-EBB	15-Mar-06	15:55	32.80	18.2	6.63	6.55	6.74	91.4	89.8	8.0	31.4	4.7	4.7		5.0	
387	WFCZR1	B	MID-EBB	15-Mar-06			18.1	6.94	6.89	6.92	93.3	91.9	8.0	31.4	4.7	4.6	4.3	7.0	6.3
388	WFCZR2	S	MID-EBB	15-Mar-06			18.2	7.09	7.05		95.6	94.1	8.0	31.0	4.0	3.9		7.5	
389	WFCZR2	M	MID-EBB	15-Mar-06	15:29	42.80	18.1	6.86	6.78	6.95	94.4	92.4	8.0	31.5	3.1	3.2		8.0	
390	WFCZR2	B	MID-EBB	15-Mar-06			18.2	6.83	6.81	6.82	93.9	92.3	8.0	31.5	4.2	4.2	3.8	6.5	7.3
391	WWA1	S	MID-FLOOD	15-Mar-06			18.5	6.62	6.56		91.9	90.2	8.0	31.4	3.7	3.8		5.0	
392	WWA1	M	MID-FLOOD	15-Mar-06	10:45	7.30	18.4	6.70	6.60	6.62	92.9	91.3	8.0	31.4	6.6	6.5		12.5	
393	WWA1	B	MID-FLOOD	15-Mar-06			18.5	6.88	6.80	6.84	91.9	90.9	8.0	31.4	11.8	9.8	6.1	15.5	11.0
394	WWA2	S	MID-FLOOD	15-Mar-06			18.4	6.55	6.47		92.0	90.3	8.0	31.5	1.4	1.4		6.5	
395	WWA2	M	MID-FLOOD	15-Mar-06	11:00	10.90	18.5	6.68	6.63	6.58	91.8	90.0	8.0	31.5	1.4	1.6		9.5	
396	WWA2	B	MID-FLOOD	15-Mar-06			18.4	6.88	6.77	6.83	93.7	92.4	8.0	31.5	1.4	1.6	1.5	6.5	7.5
397	WWA3	S	MID-FLOOD	15-Mar-06			18.5	6.61	6.53		91.3	90.0	8.0	31.5	3.5	4.0		8.0	
398	WWA3	M	MID-FLOOD	15-Mar-06	11:14	10.30	18.5	6.68	6.61	6.61	92.4	90.4	8.0	31.5	4.1	4.2		5.0	
399	WWA3	B	MID-FLOOD	15-Mar-06			18.4	6.69	6.65	6.67	89.8	88.8	8.0	31.5	3.9	3.7	3.9	6.0	6.3
400	WRA1	S	MID-FLOOD	15-Mar-06			18.4	6.42	6.36		89.0	87.5	8.0	31.4	5.4	5.3		12.0	
401	WRA1	M	MID-FLOOD	15-Mar-06	10:28	25.50	18.5	6.62	6.54	6.49	91.9	90.8	8.1	31.4	7.6	7.6		10.5	
402	WRA1	B	MID-FLOOD	15-Mar-06			18.4	6.73	6.65	6.69	92.0	90.5	8.1	31.4	4.5	4.5	5.8	11.5	11.3
403	WRA2	S	MID-FLOOD	15-Mar-06			18.4	6.75	6.71		92.0	90.7	8.0	31.4	3.7	3.4		7.0	
404	WRA2	M	MID-FLOOD	15-Mar-06	10:14	28.80	18.4	6.68	6.61	6.69	91.8	90.2	8.0	31.4	3.7	3.8		9.0	
405	WRA2	B	MID-FLOOD	15-Mar-06			18.4	6.63	6.57	6.60	90.9	89.3	8.0	31.4	5.4	5.2	4.2	9.0	8.3
406	WRA3	S	MID-FLOOD	15-Mar-06			18.4	6.89	6.75		94.6	92.9	8.0	31.4	3.0	3.2		5.5	
407	WRA3	M	MID-FLOOD	15-Mar-06	10:00	28.40	18.4	6.69	6.59	6.73	94.6	92.4	8.0	31.5	3.9	3.7		8.0	
408	WRA3	B	MID-FLOOD	15-Mar-06			18.4	6.67	6.63	6.65	91.0	89.2	8.0	31.5	4.1	4.1	3.7	9.0	7.5
409	WWFCZ1	S	MID-FLOOD	15-Mar-06			18.4	6.97	6.93		95.0	93.5	8.0	31.3	2.6	2.5		8.5	
410	WWFCZ1	M	MID-FLOOD	15-Mar-06	9:46	35.10	18.4	6.78	6.69	6.84	93.4	91.8	8.0	31.4	1.9	2.0		10.5	
411	WWFCZ1	B	MID-FLOOD	15-Mar-06			18.5	6.62	6.58	6.60	92.0	90.6	8.0	31.5	4.5	4.2	3.0	13.0	10.7
412	WWFCZ2	S	MID-FLOOD	15-Mar-06			18.5	6.39	6.32		87.0	85.8	8.0	31.6	4.2	4.3		4.5	
413	WWFCZ2	M	MID-FLOOD	15-Mar-06	9:33	36.00	18.5	6.73	6.66	6.53	92.6	91.3	8.0	31.5	3.9	3.9		8.5	
414	WWFCZ2	B	MID-FLOOD	15-Mar-06			18.5	6.76	6.66	6.71	94.3	92.4	8.0	31.6	2.7	2.9	3.7	8.5	7.2
415	WFCZR1	S	MID-FLOOD	15-Mar-06			18.8	6.52	6.48		90.0	88.8	8.1	31.8	3.4	3.4		11.0	
416	WFCZR1	M	MID-FLOOD	15-Mar-06	9:00	36.10	18.7	6.63	6.54	6.54	91.3	90.1	8.1	31.8	5.4	5.5		11.5	
417	WFCZR1	B	MID-FLOOD	15-Mar-06			18.6	6.85	6.77	6.81	93.4	92.1	8.1	31.7	4.8	4.6	4.5	12.5	11.7
418	WFCZR2	S	MID-FLOOD	15-Mar-06			18.3	6.79	6.69		93.4	91.9	8.0	31.2	4.1	4.2		6.5	
419	WFCZR2	M	MID-FLOOD	15-Mar-06	9:17	34.60	18.3	6.72	6.64	6.71	91.8	90.4	8.0	31.2	3.0	3.0		6.5	
420	WFCZR2	B	MID-FLOOD	15-Mar-06			18.2	6.87	6.83	6.85	92.2	90.8	8.0	31.3	4.6	4.7	3.9	9.0	7.3
421	WWA1	S	MID-EBB	17-Mar-06			19.3	6.33	6.27		90.9	89.6	7.9	31.3	4.7	4.7		9.5	
422	WWA1	M	MID-EBB	17-Mar-06	14:14	7.00	19.1	6.46	6.41	6.37	91.0	89.7	7.9	31.4	4.6	4.1		8.5	
423	WWA1	B	MID-EBB	17-Mar-06			18.9	6.56	6.53	6.55	89.7	88.6	7.9	31.4	4.7	4.4	4.5	8.0	8.7

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
Marine Water Quality Morning - March 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
424	WWA2	S	MID-EBB	17-Mar-06	14:04	8.00	19.6	6.24	6.20	6.32	90.7	89.4	8.0	31.4	2.1	2.1	4.2	7.0	9.2
425	WWA2	M	MID-EBB	17-Mar-06			19.6	6.45	6.38		91.6	90.6	8.0	31.4	6.1	5.2		8.0	
426	WWA2	B	MID-EBB	17-Mar-06			19.6	6.34	6.26		90.2	89.1	8.0	31.4	5.3	4.7		12.5	
427	WWA3	S	MID-EBB	17-Mar-06	13:55	6.00	20.3	5.68	5.65	5.87	81.5	80.6	7.9	31.5	4.4	4.7	6.4	12.0	12.8
428	WWA3	M	MID-EBB	17-Mar-06			20.0	6.10	6.05		85.2	84.6	7.9	31.5	9.4	8.8		15.0	
429	WWA3	B	MID-EBB	17-Mar-06			19.7	6.29	6.24		87.7	87.1	7.9	31.4	6.5	6.2		11.5	
430	WRA1	S	MID-EBB	17-Mar-06	14:23	28.00	18.9	6.28	6.22	6.42	86.7	85.8	8.0	31.4	4.3	3.8	5.3	11.0	8.3
431	WRA1	M	MID-EBB	17-Mar-06			19.0	6.63	6.55		93.9	92.6	8.0	31.4	5.6	6.3		5.0	
432	WRA1	B	MID-EBB	17-Mar-06			18.8	6.57	6.51		91.3	90.3	8.0	31.4	6.1	5.7		9.0	
433	WRA2	S	MID-EBB	17-Mar-06	14:33	29.00	19.3	6.50	6.39	6.50	93.4	92.2	8.0	31.2	5.5	4.4	4.3	9.5	9.7
434	WRA2	M	MID-EBB	17-Mar-06			19.0	6.57	6.52		93.1	91.8	8.0	31.5	2.8	2.9		10.5	
435	WRA2	B	MID-EBB	17-Mar-06			18.8	6.68	6.62		93.0	91.9	8.0	31.4	4.7	5.4		9.0	
436	WRA3	S	MID-EBB	17-Mar-06	14:42	29.00	19.1	6.50	6.46	6.42	92.9	91.2	8.0	31.4	3.5	3.8	4.7	13.0	12.2
437	WRA3	M	MID-EBB	17-Mar-06			18.9	6.38	6.35		91.8	90.4	8.0	31.5	5.7	5.2		11.5	
438	WRA3	B	MID-EBB	17-Mar-06			18.8	6.68	6.62		93.5	92.3	8.0	31.5	4.9	5.0		12.0	
439	WWFCZ1	S	MID-EBB	17-Mar-06	15:11	28.00	18.9	6.23	6.20	6.36	89.4	87.8	8.0	31.5	1.9	2.0	3.5	7.5	11.8
440	WWFCZ1	M	MID-EBB	17-Mar-06			18.9	6.54	6.46		93.0	91.6	8.0	31.5	7.0	6.5		15.0	
441	WWFCZ1	B	MID-EBB	17-Mar-06			18.8	6.35	6.29		88.8	87.6	8.0	31.5	1.8	1.8		13.0	
442	WWFCZ2	S	MID-EBB	17-Mar-06	15:01	39.00	19.2	6.20	6.17	6.34	85.7	85.0	7.9	31.4	3.1	3.2	4.6	5.3	5.1
443	WWFCZ2	M	MID-EBB	17-Mar-06			19.0	6.51	6.46		90.8	89.7	7.9	31.5	6.5	6.6		4.0	
444	WWFCZ2	B	MID-EBB	17-Mar-06			18.8	6.47	6.42		91.3	90.0	7.9	31.5	4.2	4.2		6.0	
445	WFCZR1	S	MID-EBB	17-Mar-06	15:21	38.00	19.2	6.45	6.40	6.49	94.0	92.7	7.9	31.4	6.5	6.4	7.7	13.5	11.2
446	WFCZR1	M	MID-EBB	17-Mar-06			18.8	6.57	6.52		90.8	89.3	7.9	31.5	8.2	8.2		13.5	
447	WFCZR1	B	MID-EBB	17-Mar-06			18.9	6.59	6.54		93.4	91.5	7.9	31.4	8.8	8.5		6.5	
448	WFCZR2	S	MID-EBB	17-Mar-06	14:52	40.00	19.3	6.02	6.01	6.40	91.6	90.5	8.0	31.4	6.5	6.2	7.2	8.5	10.7
449	WFCZR2	M	MID-EBB	17-Mar-06			19.1	6.81	6.77		93.8	92.6	8.0	31.6	7.6	7.3		13.0	
450	WFCZR2	B	MID-EBB	17-Mar-06			18.9	6.50	6.49		88.6	87.4	8.0	31.3	7.7	7.7		10.5	
451	WWA1	S	MID-FLOOD	17-Mar-06	11:14	8.00	18.9	6.41	6.36	6.38	90.8	89.6	7.8	31.5	1.5	1.5	3.3	12.0	11.0
452	WWA1	M	MID-FLOOD	17-Mar-06			19.0	6.39	6.34		88.1	87.1	7.8	31.5	2.5	2.3		13.0	
453	WWA1	B	MID-FLOOD	17-Mar-06			18.9	6.55	6.47		92.9	91.2	7.8	31.5	6.4	5.5		8.0	
454	WWA2	S	MID-FLOOD	17-Mar-06	11:24	8.00	18.9	5.97	5.95	6.14	80.2	79.6	7.8	31.6	4.5	4.6	4.2	12.0	12.0
455	WWA2	M	MID-FLOOD	17-Mar-06			19.1	6.34	6.29		91.3	89.5	7.8	31.5	1.7	2.6		12.0	
456	WWA2	B	MID-FLOOD	17-Mar-06			19.0	6.58	6.50		92.9	91.6	7.8	31.5	6.2	5.9		12.0	
457	WWA3	S	MID-FLOOD	17-Mar-06	11:33	6.00	18.9	6.34	6.27	6.35	88.3	87.4	7.8	31.6	2.0	1.8	4.7	9.5	11.3
458	WWA3	M	MID-FLOOD	17-Mar-06			19.0	6.41	6.37		92.1	90.7	7.8	31.5	5.7	6.2		12.0	
459	WWA3	B	MID-FLOOD	17-Mar-06			18.9	6.54	6.48		91.8	90.4	7.8	31.6	6.1	6.5		12.5	
460	WRA1	S	MID-FLOOD	17-Mar-06	11:05	30.00	18.8	6.29	6.22	6.33	86.7	85.8	7.8	31.7	5.0	4.2	5.3	11.0	10.7
461	WRA1	M	MID-FLOOD	17-Mar-06			19.0	6.45	6.37		92.3	91.0	7.8	31.7	6.9	6.4		14.0	
462	WRA1	B	MID-FLOOD	17-Mar-06			18.9	6.48	6.43		91.3	89.4	7.8	31.5	4.7	4.8		7.0	
463	WRA2	S	MID-FLOOD	17-Mar-06	10:56	22.00	18.8	6.19	6.12	6.26	89.7	88.3	7.9	31.7	4.2	4.7	3.8	13.5	11.7
464	WRA2	M	MID-FLOOD	17-Mar-06			18.9	6.41	6.32		92.1	90.8	7.9	31.7	1.8	2.1		11.5	
465	WRA2	B	MID-FLOOD	17-Mar-06			18.9	6.36	6.30		92.1	90.8	7.9	31.6	5.2	5.0		10.0	
466	WRA3	S	MID-FLOOD	17-Mar-06	10:46	25.00	19.0	6.19	6.13	6.32	88.4	87.3	7.9	31.6	4.7	4.6	5.7	11.5	11.2
467	WRA3	M	MID-FLOOD	17-Mar-06			18.9	6.50	6.46		92.4	90.8	7.9	31.6	6.5	6.4		11.5	
468	WRA3	B	MID-FLOOD	17-Mar-06			18.8	6.64	6.59		93.7	92.3	7.9	31.6	6.4	5.9		10.5	
469	WWFCZ1	S	MID-FLOOD	17-Mar-06	10:15	34.00	18.7	6.21	6.15	6.34	87.3	86.3	7.9	31.4	2.0	1.8	5.7	5.5	11.0
470	WWFCZ1	M	MID-FLOOD	17-Mar-06			18.6	6.53	6.45		92.2	90.4	8.0	31.4	6.4	6.4		11.0	

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
Marine Water Quality Morning - March 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
471	WWFCZ1	B	MID-FLOOD	17-Mar-06			18.6	6.32	6.29	6.31	87.9	86.7	7.9	31.4	1.8	2.1	3.4	12.5	9.7
472	WWFCZ2	S	MID-FLOOD	17-Mar-06			18.8	6.46	6.39		91.1	89.8	7.9	31.4	5.8	5.4		9.5	
473	WWFCZ2	M	MID-FLOOD	17-Mar-06	10:25	42.00	18.7	6.49	6.44	6.45	91.6	90.1	7.9	31.5	7.5	7.6		11.5	
474	WWFCZ2	B	MID-FLOOD	17-Mar-06			18.7	6.64	6.60	6.62	91.7	90.6	7.9	31.6	3.9	3.5	5.6	14.5	11.8
475	WFCZR1	S	MID-FLOOD	17-Mar-06			18.8	5.98	5.96		83.5	82.6	7.9	31.9	6.8	6.7		11.5	
476	WFCZR1	M	MID-FLOOD	17-Mar-06	10:06	42.00	18.8	6.62	6.52	6.27	94.0	92.9	7.9	31.7	9.5	9.8		12.5	
477	WFCZR1	B	MID-FLOOD	17-Mar-06			18.7	6.75	6.68	6.72	92.7	91.4	7.9	31.7	9.3	8.5	8.4	12.5	12.2
478	WFCZR2	S	MID-FLOOD	17-Mar-06			18.8	6.18	6.11		88.2	87.0	7.9	31.5	7.0	6.6		11.0	
479	WFCZR2	M	MID-FLOOD	17-Mar-06	10:35	40.00	18.8	6.57	6.52	6.35	94.9	93.4	7.9	31.6	8.3	7.7		13.0	
480	WFCZR2	B	MID-FLOOD	17-Mar-06			18.7	6.70	6.67	6.69	93.4	91.7	7.9	31.6	8.0	8.3	7.6	11.0	11.7
481	WWA1	S	MID-EBB	20-Mar-06			19.3	6.53	6.44		91.4	89.8	8.0	31.6	5.7	5.2		8.5	
482	WWA1	M	MID-EBB	20-Mar-06	15:31	7.50	19.3	6.55	6.49	6.50	91.4	89.8	8.0	31.6	4.8	4.9		4.8	
483	WWA1	B	MID-EBB	20-Mar-06			19.3	6.68	6.65	6.67	91.0	90.0	8.0	31.6	8.4	8.7	6.3	5.5	6.3
484	WWA2	S	MID-EBB	20-Mar-06			19.4	6.63	6.55		94.8	92.5	8.0	31.5	8.2	8.3		12.0	
485	WWA2	M	MID-EBB	20-Mar-06	15:16	8.30	19.3	6.51	6.44	6.53	91.5	90.2	8.0	31.6	7.9	8.2		11.0	
486	WWA2	B	MID-EBB	20-Mar-06			19.3	6.66	6.60	6.63	92.6	91.4	8.0	31.6	6.3	6.8	6.4	7.0	10.0
487	WWA3	S	MID-EBB	20-Mar-06			20.2	6.25	6.21		85.9	85.1	7.9	31.4	4.2	4.2		5.5	
488	WWA3	M	MID-EBB	20-Mar-06	15:00	6.80	19.7	6.58	6.54	6.40	90.6	89.8	8.0	31.4	6.7	5.8		8.5	
489	WWA3	B	MID-EBB	20-Mar-06			19.4	6.38	6.35	6.37	89.2	87.9	8.0	31.5	2.1	2.4	4.2	12.5	8.8
490	WRA1	S	MID-EBB	20-Mar-06			19.2	6.60	6.55		92.4	90.9	8.0	31.5	6.4	4.7		7.5	
491	WRA1	M	MID-EBB	20-Mar-06	15:47	25.00	19.2	6.60	6.52	6.57	92.7	91.3	8.0	31.5	4.1	4.4		11.0	
492	WRA1	B	MID-EBB	20-Mar-06			19.2	6.68	6.66	6.67	93.6	92.2	8.0	31.6	4.3	4.3	4.7	9.0	9.2
493	WRA2	S	MID-EBB	20-Mar-06			19.2	6.52	6.46		89.7	88.6	8.0	31.5	4.9	4.3		6.0	
494	WRA2	M	MID-EBB	20-Mar-06	15:59	29.90	19.2	6.45	6.41	6.46	91.6	89.8	8.0	31.5	4.9	5.2		11.5	
495	WRA2	B	MID-EBB	20-Mar-06			19.1	6.72	6.65	6.69	94.6	93.0	8.0	31.5	3.8	3.7	4.5	10.0	9.2
496	WRA3	S	MID-EBB	20-Mar-06			19.2	6.50	6.43		92.5	90.7	8.0	31.4	3.3	4.2		4.5	
497	WRA3	M	MID-EBB	20-Mar-06	16:12	27.00	19.2	6.68	6.61	6.56	94.7	92.5	8.0	31.5	4.1	3.8		10.5	
498	WRA3	B	MID-EBB	20-Mar-06			19.2	6.57	6.47	6.52	92.2	90.6	8.0	31.5	4.4	4.0	4.0	5.0	6.7
499	WWFCZ1	S	MID-EBB	20-Mar-06			19.1	6.48	6.43		90.8	89.5	8.0	31.4	3.3	3.2		9.0	
500	WWFCZ1	M	MID-EBB	20-Mar-06	16:59	34.70	19.2	6.62	6.55	6.52	93.4	91.7	8.0	31.5	5.0	4.7		9.0	
501	WWFCZ1	B	MID-EBB	20-Mar-06			19.1	6.71	6.63	6.67	94.4	92.9	8.0	31.5	5.0	5.0	4.4	8.0	8.7
502	WWFCZ2	S	MID-EBB	20-Mar-06			19.2	6.70	6.63		92.5	91.2	8.0	31.4	4.2	3.7		7.0	
503	WWFCZ2	M	MID-EBB	20-Mar-06	16:44	36.00	19.2	6.68	6.61	6.66	93.5	92.1	8.1	31.4	4.7	4.2		8.5	
504	WWFCZ2	B	MID-EBB	20-Mar-06			19.2	6.77	6.71	6.74	93.4	92.1	8.1	31.4	4.8	4.0	4.3	8.0	7.8
505	WFCZR1	S	MID-EBB	20-Mar-06			19.3	6.42	6.40		87.2	86.3	8.0	31.4	3.2	2.9		6.5	
506	WFCZR1	M	MID-EBB	20-Mar-06	17:08	33.40	19.2	6.64	6.52	6.50	94.4	92.6	8.0	31.6	4.1	4.2		7.5	
507	WFCZR1	B	MID-EBB	20-Mar-06			19.2	6.65	6.62	6.64	93.4	91.6	8.0	31.6	4.7	4.0	3.8	8.0	7.3
508	WFCZR2	S	MID-EBB	20-Mar-06			19.1	6.59	6.54		90.2	89.1	8.0	31.5	4.9	4.9		9.5	
509	WFCZR2	M	MID-EBB	20-Mar-06	16:23	34.60	19.1	6.67	6.62	6.61	92.5	91.2	8.0	31.5	6.7	6.5		8.5	
510	WFCZR2	B	MID-EBB	20-Mar-06			19.1	6.71	6.65	6.68	93.8	92.4	8.0	31.5	6.3	6.1	5.9	12.5	10.2
511	WWA1	S	MID-FLOOD	20-Mar-06			19.1	6.78	6.72		94.5	92.7	8.0	31.4	3.6	4.0		7.5	
512	WWA1	M	MID-FLOOD	20-Mar-06	12:00	7.60	19.0	6.66	6.59	6.69	94.4	92.6	8.0	31.4	5.7	6.3		9.5	
513	WWA1	B	MID-FLOOD	20-Mar-06			19.0	6.74	6.68	6.71	93.3	91.9	8.0	31.4	5.2	5.1	5.0	9.5	8.8
514	WWA2	S	MID-FLOOD	20-Mar-06			19.0	6.45	6.42		90.6	88.8	8.0	31.4	5.6	5.8		11.5	
515	WWA2	M	MID-FLOOD	20-Mar-06	12:14	11.50	19.1	6.69	6.63	6.55	91.9	90.5	8.0	31.4	2.8	3.0		12.0	
516	WWA2	B	MID-FLOOD	20-Mar-06			19.0	6.57	6.53	6.55	90.5	88.5	8.0	31.4	5.4	3.7	4.4	6.5	10.0
517	WWA3	S	MID-FLOOD	20-Mar-06			19.0	6.39	6.32		89.6	88.1	8.0	31.4	6.4	6.4		9.0	

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Marine Water Quality Morning - March 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
518	WWA3	M	MID-FLOOD	20-Mar-06	12:30	7.00	19.0	6.51	6.43	6.41	92.4	90.6	8.0	31.4	5.7	5.8	5.7	14.0	
519	WWA3	B	MID-FLOOD	20-Mar-06			18.9	6.72	6.66	6.69	92.9	91.6	8.0	31.4	5.4	4.8	5.7	12.0	11.7
520	WRA1	S	MID-FLOOD	20-Mar-06			19.1	6.63	6.53		91.9	90.5	8.0	31.1	5.2	4.8		8.5	
521	WRA1	M	MID-FLOOD	20-Mar-06	11:44	24.30	19.1	6.58	6.52	6.57	91.8	90.5	8.0	31.5	5.1	4.4	4.5	12.5	
522	WRA1	B	MID-FLOOD	20-Mar-06			19.0	6.77	6.72	6.75	94.5	92.9	8.0	31.5	3.2	4.2	4.5	10.0	10.3
523	WRA2	S	MID-FLOOD	20-Mar-06			19.0	6.51	6.44		91.8	90.2	8.1	31.5	4.0	3.8		9.0	
524	WRA2	M	MID-FLOOD	20-Mar-06	11:28	27.20	19.0	6.72	6.62	6.57	93.7	92.0	8.1	31.5	4.7	5.1	4.5	11.0	
525	WRA2	B	MID-FLOOD	20-Mar-06			19.0	6.60	6.55	6.58	90.0	88.7	8.1	31.5	4.7	4.5	4.5	12.0	10.7
526	WRA3	S	MID-FLOOD	20-Mar-06			19.0	6.57	6.48		94.4	92.5	8.0	31.6	3.2	4.4		15.5	
527	WRA3	M	MID-FLOOD	20-Mar-06	11:15	26.30	19.1	6.60	6.53	6.55	91.8	90.2	8.0	31.5	4.3	4.1	4.1	10.0	
528	WRA3	B	MID-FLOOD	20-Mar-06			19.1	6.44	6.39	6.42	90.5	89.0	8.0	31.5	4.4	4.4	4.1	7.5	11.0
529	WWFCZ1	S	MID-FLOOD	20-Mar-06			19.2	6.45	6.36		92.3	90.6	8.0	31.3	5.7	5.4		7.0	
530	WWFCZ1	M	MID-FLOOD	20-Mar-06	10:25	34.10	19.2	6.65	6.59	6.51	91.6	90.6	8.0	31.2	5.1	5.3	5.4	11.5	
531	WWFCZ1	B	MID-FLOOD	20-Mar-06			19.2	6.41	6.37	6.39	89.3	88.1	8.1	31.4	5.6	5.5	5.4	9.0	9.2
532	WWFCZ2	S	MID-FLOOD	20-Mar-06			19.2	6.54	6.41		93.0	91.3	8.1	31.6	5.9	5.8		10.0	
533	WWFCZ2	M	MID-FLOOD	20-Mar-06	10:45	39.10	19.2	6.65	6.55	6.54	92.6	91.4	8.1	31.6	6.8	5.8	6.5	12.5	
534	WWFCZ2	B	MID-FLOOD	20-Mar-06			19.2	6.70	6.63	6.67	94.0	92.3	8.1	31.6	7.3	7.1	6.5	12.0	11.5
535	WFCZR1	S	MID-FLOOD	20-Mar-06			19.3	6.70	6.62		94.7	93.1	8.0	31.7	6.5	5.6		10.5	
536	WFCZR1	M	MID-FLOOD	20-Mar-06	10:10	34.80	19.2	6.44	6.36	6.53	90.9	89.0	8.0	31.6	8.1	7.9	6.7	8.5	
537	WFCZR1	B	MID-FLOOD	20-Mar-06			19.1	6.66	6.57	6.62	93.0	91.4	8.0	31.6	7.8	4.3	6.7	13.0	10.7
538	WFCZR2	S	MID-FLOOD	20-Mar-06			19.0	6.69	6.64		93.4	91.4	8.0	31.5	6.4	6.5		10.5	
539	WFCZR2	M	MID-FLOOD	20-Mar-06	11:00	35.70	19.1	6.81	6.71	6.71	94.1	92.6	8.0	31.5	8.7	8.5	7.5	10.0	
540	WFCZR2	B	MID-FLOOD	20-Mar-06			19.1	6.85	6.79	6.82	94.4	93.1	8.0	31.4	7.9	7.3	7.5	13.0	11.2
541	WWA1	S	MID-EBB	22-Mar-06			19.8	6.40	6.30		91.1	89.1	7.9	31.7	6.0	6.0		8.5	
542	WWA1	M	MID-EBB	22-Mar-06	17:33	9.00	19.6	6.45	6.38	6.38	91.3	90.0	7.9	31.7	4.2	4.3	5.5	16.0	
543	WWA1	B	MID-EBB	22-Mar-06			19.6	6.43	6.37	6.40	89.8	88.8	7.9	31.8	6.1	6.3	5.5	8.0	10.8
544	WWA2	S	MID-EBB	22-Mar-06			19.8	6.55	6.50		91.0	90.0	7.9	31.8	2.3	2.5		5.0	
545	WWA2	M	MID-EBB	22-Mar-06	17:15	8.30	19.7	6.46	6.40	6.48	89.0	88.4	7.9	31.8	3.3	3.5	2.9	9.0	
546	WWA2	B	MID-EBB	22-Mar-06			19.8	6.66	6.59	6.63	92.7	91.3	7.9	31.8	3.0	2.9	2.9	4.5	6.2
547	WWA3	S	MID-EBB	22-Mar-06			20.0	6.00	5.96		81.1	81.0	7.9	31.6	2.4	2.4		8.0	
548	WWA3	M	MID-EBB	22-Mar-06	17:00	6.00	19.9	6.35	6.31	6.16	86.7	86.1	7.9	31.9	3.6	3.4	3.0	6.0	
549	WWA3	B	MID-EBB	22-Mar-06			19.8	6.19	6.13	6.16	86.7	85.5	7.9	31.8	3.3	3.3	3.0	9.0	7.7
550	WRA1	S	MID-EBB	22-Mar-06			19.6	6.41	6.33		90.7	89.6	7.9	31.8	2.3	2.3		5.5	
551	WRA1	M	MID-EBB	22-Mar-06	17:42	24.70	19.7	6.63	6.53	6.48	92.9	91.6	7.9	31.9	2.5	2.7	2.8	7.0	
552	WRA1	B	MID-EBB	22-Mar-06			19.6	6.53	6.48	6.51	92.0	90.6	7.9	31.9	4.2	3.0	2.8	3.8	5.4
553	WRA2	S	MID-EBB	22-Mar-06			19.7	6.57	6.47		93.2	91.7	8.0	31.8	2.6	2.8		6.5	
554	WRA2	M	MID-EBB	22-Mar-06	17:53	29.40	19.7	6.39	6.33	6.44	89.7	88.8	8.0	31.9	2.8	2.8	2.6	6.0	
555	WRA2	B	MID-EBB	22-Mar-06			19.7	6.53	6.45	6.49	92.2	91.0	8.0	31.9	2.2	2.2	2.6	7.5	6.7
556	WRA3	S	MID-EBB	22-Mar-06			19.7	6.69	6.60		94.0	92.1	8.0	31.7	2.6	2.6		4.5	
557	WRA3	M	MID-EBB	22-Mar-06	18:09	31.00	19.6	6.33	6.24	6.47	90.8	89.3	8.0	31.9	2.0	2.4	2.5	6.5	
558	WRA3	B	MID-EBB	22-Mar-06			19.6	6.49	6.44	6.47	92.3	90.8	8.0	31.9	2.6	2.6	2.5	12.5	7.8
559	WWFCZ1	S	MID-EBB	22-Mar-06			19.7	6.44	6.39		91.8	90.1	8.0	31.8	2.5	3.0		8.0	
560	WWFCZ1	M	MID-EBB	22-Mar-06	18:45	31.50	19.6	6.70	6.63	6.54	93.5	92.2	8.0	31.7	3.7	2.9	3.1	17.5	
561	WWFCZ1	B	MID-EBB	22-Mar-06			19.5	6.77	6.70	6.74	94.0	92.6	8.0	31.7	3.2	3.0	3.1	8.0	11.2
562	WWFCZ2	S	MID-EBB	22-Mar-06			19.8	6.70	6.63		93.3	92.0	7.9	31.7	3.2	3.3		7.5	
563	WWFCZ2	M	MID-EBB	22-Mar-06	18:28	39.80	19.7	6.44	6.34	6.53	92.9	90.7	7.9	31.7	2.6	2.6	2.8	10.5	
564	WWFCZ2	B	MID-EBB	22-Mar-06			19.6	6.56	6.50	6.53	93.4	91.8	7.9	31.8	2.4	2.7	2.8	6.0	8.0

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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
565	WFCZR1	S	MID-EBB	22-Mar-06	19:00	37.60	19.6	6.46	6.37	6.47	91.2	89.6	8.0	31.9	2.8	2.4	3.0	7.0	7.5
566	WFCZR1	M	MID-EBB	22-Mar-06			19.6	6.57	6.47		92.1	90.7	8.0	31.9	2.8	3.2		9.0	
567	WFCZR1	B	MID-EBB	22-Mar-06			19.6	6.67	6.61		93.7	92.1	8.0	31.9	3.4	3.3		6.5	
568	WFCZR2	S	MID-EBB	22-Mar-06	18:14	38.90	19.9	6.34	6.26	6.39	89.3	88.2	7.9	31.6	3.1	3.1	4.0	7.5	8.3
569	WFCZR2	M	MID-EBB	22-Mar-06			19.7	6.54	6.40		92.8	91.1	7.9	31.8	4.5	4.4		9.5	
570	WFCZR2	B	MID-EBB	22-Mar-06			19.7	6.39	6.27		91.3	89.9	7.9	31.8	4.3	4.5		8.0	
571	WWA1	S	MID-FLOOD	22-Mar-06	11:28	7.30	20.0	6.61	6.54	6.47	93.1	91.1	8.0	31.6	3.4	3.3	3.4	4.0	4.5
572	WWA1	M	MID-FLOOD	22-Mar-06			19.7	6.40	6.33		91.1	89.0	8.0	31.7	3.4	3.7		4.0	
573	WWA1	B	MID-FLOOD	22-Mar-06			19.7	6.67	6.61		92.3	91.3	8.0	31.7	3.3	3.4		5.5	
574	WWA2	S	MID-FLOOD	22-Mar-06	11:39	14.70	19.8	6.65	6.58	6.54	93.9	92.4	8.0	31.7	4.0	3.4	3.3	6.5	7.2
575	WWA2	M	MID-FLOOD	22-Mar-06			19.6	6.51	6.42		91.4	90.9	8.0	31.7	3.3	3.4		6.0	
576	WWA2	B	MID-FLOOD	22-Mar-06			19.7	6.68	6.59		94.0	92.7	8.0	31.7	3.0	2.6		9.0	
577	WWA3	S	MID-FLOOD	22-Mar-06	11:55	6.50	19.8	6.47	6.38	6.39	92.5	90.7	8.0	31.7	3.1	3.1	3.1	10.0	10.0
578	WWA3	M	MID-FLOOD	22-Mar-06			19.7	6.40	6.32		90.6	89.0	8.0	31.7	2.7	2.8		7.5	
579	WWA3	B	MID-FLOOD	22-Mar-06			19.7	6.47	6.39		93.0	91.4	8.0	31.6	3.1	3.7		12.5	
580	WRA1	S	MID-FLOOD	22-Mar-06	11:13	27.10	19.8	6.44	6.33	6.40	92.2	90.8	8.0	31.8	2.7	2.7	3.2	8.0	6.3
581	WRA1	M	MID-FLOOD	22-Mar-06			19.7	6.48	6.36		92.5	91.1	8.0	31.8	3.4	3.3		5.3	
582	WRA1	B	MID-FLOOD	22-Mar-06			19.8	6.47	6.38		92.3	90.6	8.0	31.8	3.9	3.3		5.5	
583	WRA2	S	MID-FLOOD	22-Mar-06	10:59	30.60	19.8	6.42	6.31	6.40	91.3	89.8	8.0	31.9	3.7	3.9	2.8	7.0	5.7
584	WRA2	M	MID-FLOOD	22-Mar-06			19.7	6.50	6.38		92.6	91.2	8.0	31.9	2.6	2.4		5.0	
585	WRA2	B	MID-FLOOD	22-Mar-06			19.6	6.52	6.44		92.2	90.6	8.0	31.9	2.3	2.2		5.0	
586	WRA3	S	MID-FLOOD	22-Mar-06	10:45	26.50	19.9	6.46	6.40	6.26	91.7	90.5	8.0	31.8	1.9	2.2	2.3	5.5	7.5
587	WRA3	M	MID-FLOOD	22-Mar-06			20.2	6.13	6.06		88.7	87.2	8.0	31.8	2.2	2.2		8.0	
588	WRA3	B	MID-FLOOD	22-Mar-06			19.8	6.36	6.28		90.9	89.6	8.0	31.9	2.3	2.7		9.0	
589	WWFCZ1	S	MID-FLOOD	22-Mar-06	10:00	34.50	19.9	6.52	6.46	6.43	92.9	91.2	7.9	31.7	3.5	3.3	4.6	4.8	8.6
590	WWFCZ1	M	MID-FLOOD	22-Mar-06			19.7	6.36	6.36		90.2	88.5	7.9	31.8	5.4	5.1		12.0	
591	WWFCZ1	B	MID-FLOOD	22-Mar-06			19.7	6.53	6.45		92.1	91.0	7.9	31.8	4.9	5.2		9.0	
592	WWFCZ2	S	MID-FLOOD	22-Mar-06	10:13	39.90	19.7	6.29	6.25	6.35	86.1	85.5	8.0	31.9	2.9	2.8	3.2	4.5	5.3
593	WWFCZ2	M	MID-FLOOD	22-Mar-06			19.7	6.48	6.39		92.7	91.3	8.0	31.9	3.5	3.7		4.0	
594	WWFCZ2	B	MID-FLOOD	22-Mar-06			19.8	6.51	6.43		91.9	90.1	8.0	31.9	3.2	3.3		7.5	
595	WFCZR1	S	MID-FLOOD	22-Mar-06	9:49	38.40	20.5	6.50	6.39	6.31	90.8	89.9	7.9	32.1	3.3	3.2	3.2	7.0	5.8
596	WFCZR1	M	MID-FLOOD	22-Mar-06			20.0	6.18	6.15		87.8	86.6	8.0	31.9	3.7	3.4		5.0	
597	WFCZR1	B	MID-FLOOD	22-Mar-06			19.8	6.51	6.44		90.8	89.9	8.0	31.8	2.6	2.9		5.5	
598	WFCZR2	S	MID-FLOOD	22-Mar-06	10:27	41.80	19.8	6.47	6.39	6.53	92.7	91.4	8.0	31.8	3.5	3.2	3.2	3.8	3.3
599	WFCZR2	M	MID-FLOOD	22-Mar-06			19.7	6.66	6.59		94.2	92.9	8.0	31.8	3.0	2.8		3.5	
600	WFCZR2	B	MID-FLOOD	22-Mar-06			19.7	6.57	6.51		91.3	90.1	8.0	31.8	3.3	3.3		2.5	
601	WWA1	S	MID-EBB	24-Mar-06	17:28	6.15	19.3	6.70	6.57	6.54	95.5	93.8	8.0	31.3	2.3	2.3	3.0	5.5	6.2
602	WWA1	M	MID-EBB	24-Mar-06			19.4	6.48	6.41		92.3	90.8	8.0	31.7	3.4	3.3		4.0	
603	WWA1	B	MID-EBB	24-Mar-06			19.4	6.39	6.37		92.1	91.8	8.0	31.7	3.5	3.6		9.0	
604	WWA2	S	MID-EBB	24-Mar-06	17:13	11.40	19.4	6.68	6.57	6.59	92.6	91.3	8.0	31.3	3.4	3.4	2.9	6.0	5.5
605	WWA2	M	MID-EBB	24-Mar-06			19.4	6.61	6.50		93.0	91.6	8.0	31.3	2.7	2.6		5.0	
606	WWA2	B	MID-EBB	24-Mar-06			19.5	6.63	6.54		92.7	90.9	8.0	31.7	2.7	2.8		5.5	
607	WWA3	S	MID-EBB	24-Mar-06	17:00	6.90	19.4	6.23	6.17	6.27	84.2	83.7	7.9	30.6	3.4	3.5	3.6	7.5	7.5
608	WWA3	M	MID-EBB	24-Mar-06			19.5	6.36	6.30		87.6	87.0	7.9	31.7	3.7	3.7		6.5	
609	WWA3	B	MID-EBB	24-Mar-06			19.5	6.30	6.22		86.3	85.5	8.0	31.7	4.1	3.3		8.5	
610	WRA1	S	MID-EBB	24-Mar-06	17:40	24.70	19.3	6.80	6.68	6.59	94.7	93.0	8.0	31.1	2.2	2.5	3.0	5.5	
611	WRA1	M	MID-EBB	24-Mar-06			19.4	6.50	6.39		95.3	92.9	8.0	31.8	4.7	2.9		3.0	

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
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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
612	WRA1	B	MID-EBB	24-Mar-06			19.5	6.87	6.79	6.83	96.0	94.4	8.0	31.7	2.7	3.1	3.0	5.5	4.7
613	WRA2	S	MID-EBB	24-Mar-06			19.5	6.64	6.55		95.4	93.0	7.9	31.6	2.9	2.2		4.3	
614	WRA2	M	MID-EBB	24-Mar-06	17:55	30.20	19.6	6.52	6.40	6.53	90.2	89.1	7.9	31.6	2.5	2.2		3.0	
615	WRA2	B	MID-EBB	24-Mar-06			19.7	6.38	6.21	6.30	93.5	92.7	7.9	31.6	1.7	1.8	2.2	2.8	3.3
616	WRA3	S	MID-EBB	24-Mar-06			19.5	6.45	6.36		93.2	91.4	8.0	31.7	1.8	1.7		3.5	
617	WRA3	M	MID-EBB	24-Mar-06	18:09	23.80	19.5	6.55	6.48	6.46	90.9	89.9	8.0	31.5	2.1	2.1		6.0	
618	WRA3	B	MID-EBB	24-Mar-06			19.6	6.39	6.32	6.36	93.4	90.7	8.0	31.9	2.1	2.2	2.0	4.5	4.7
619	WWFCZ1	S	MID-EBB	24-Mar-06			19.4	6.68	6.57		94.7	92.6	8.0	30.5	1.6	1.7		9.0	
620	WWFCZ1	M	MID-EBB	24-Mar-06	18:39	30.90	19.5	6.43	6.29	6.49	90.9	88.5	8.0	31.8	2.2	2.3		4.0	
621	WWFCZ1	B	MID-EBB	24-Mar-06			19.5	6.46	6.33	6.40	91.4	88.1	8.0	32.0	1.9	2.2	2.0	6.0	6.3
622	WWFCZ2	S	MID-EBB	24-Mar-06			19.5	6.74	6.63		97.6	96.0	8.0	31.7	2.2	2.2		8.0	
623	WWFCZ2	M	MID-EBB	24-Mar-06	18:25	38.90	19.6	6.54	6.47	6.60	92.2	90.1	8.0	32.0	2.9	2.7		3.5	
624	WWFCZ2	B	MID-EBB	24-Mar-06			19.6	6.57	6.49	6.53	95.1	93.2	8.0	32.2	3.0	3.2	2.7	6.0	5.8
625	WFCZR1	S	MID-EBB	24-Mar-06			19.5	6.68	6.57		95.6	93.6	8.0	32.0	2.3	2.2		4.5	
626	WFCZR1	M	MID-EBB	24-Mar-06	18:49	40.80	19.5	6.70	6.59	6.64	96.6	94.5	8.0	32.3	3.5	3.4		5.0	
627	WFCZR1	B	MID-EBB	24-Mar-06			19.5	6.63	6.54	6.59	95.7	93.9	8.0	32.3	4.2	3.9	3.3	3.0	4.2
628	WFCZR2	S	MID-EBB	24-Mar-06			19.3	6.81	6.70		98.5	96.5	8.0	31.5	2.4	2.6		5.5	
629	WFCZR2	M	MID-EBB	24-Mar-06	18:10	43.50	19.4	6.50	6.44	6.61	91.2	90.1	8.0	32.1	3.0	3.2		8.5	
630	WFCZR2	B	MID-EBB	24-Mar-06			19.5	6.74	6.67	6.71	93.6	92.2	8.0	32.1	2.7	2.5	2.7	4.0	6.0
631	WWA1	S	MID-FLOOD	24-Mar-06			19.6	6.59	6.47		94.6	92.7	8.0	31.6	3.3	2.7		5.0	
632	WWA1	M	MID-FLOOD	24-Mar-06	11:40	7.70	19.6	6.60	6.54	6.55	92.0	90.8	8.0	31.5	2.9	2.9		6.5	
633	WWA1	B	MID-FLOOD	24-Mar-06			19.6	6.53	6.47	6.50	91.5	90.1	8.0	31.6	2.5	2.6	2.8	6.5	6.0
634	WWA2	S	MID-FLOOD	24-Mar-06			19.5	6.19	6.10		88.3	86.4	8.0	31.6	3.2	3.2		4.8	
635	WWA2	M	MID-FLOOD	24-Mar-06	11:49	14.00	19.5	6.26	6.19	6.19	91.3	88.9	8.0	31.7	2.6	3.4		7.5	
636	WWA2	B	MID-FLOOD	24-Mar-06			19.5	6.38	6.33	6.36	91.6	89.1	8.0	31.7	2.5	2.4	2.9	5.5	5.9
637	WWA3	S	MID-FLOOD	24-Mar-06			19.5	6.38	6.28		92.1	90.2	8.0	31.6	2.2	2.2		3.5	
638	WWA3	M	MID-FLOOD	24-Mar-06	11:59	9.00	19.5	6.48	6.42	6.39	93.2	90.5	8.0	31.7	2.5	2.7		7.0	
639	WWA3	B	MID-FLOOD	24-Mar-06			19.6	6.47	6.41	6.44	91.5	90.1	8.0	31.7	4.2	3.8	2.9	6.5	5.7
640	WRA1	S	MID-FLOOD	24-Mar-06			19.6	6.60	6.51		94.0	91.4	8.0	31.6	1.7	1.7		7.0	
641	WRA1	M	MID-FLOOD	24-Mar-06	11:25	28.10	19.5	6.52	6.45	6.52	92.4	90.8	8.0	31.8	2.1	2.0		5.0	
642	WRA1	B	MID-FLOOD	24-Mar-06			19.6	6.66	6.56	6.61	94.0	91.9	8.0	31.8	2.8	2.5	2.1	5.0	5.7
643	WRA2	S	MID-FLOOD	24-Mar-06			19.5	6.75	6.72		96.0	93.9	8.0	31.7	1.8	1.7		8.5	
644	WRA2	M	MID-FLOOD	24-Mar-06	11:12	31.40	19.6	6.54	6.37	6.60	91.7	90.3	8.0	31.8	2.4	2.1		6.0	
645	WRA2	B	MID-FLOOD	24-Mar-06			19.5	6.68	6.58	6.63	94.5	92.7	8.0	31.2	1.6	1.4	1.8	12.5	9.0
646	WRA3	S	MID-FLOOD	24-Mar-06			19.5	6.77	6.67		95.6	93.8	8.0	31.7	1.6	1.7		7.0	
647	WRA3	M	MID-FLOOD	24-Mar-06	10:59	28.00	19.4	6.57	6.47	6.62	95.9	93.8	8.0	31.8	1.6	1.6		8.0	
648	WRA3	B	MID-FLOOD	24-Mar-06			19.5	6.77	6.65	6.71	93.1	92.5	8.0	31.8	2.0	1.9	1.7	6.5	7.2
649	WWFCZ1	S	MID-FLOOD	24-Mar-06			19.5	6.33	6.25		94.1	92.5	8.0	31.6	2.4	2.9		7.0	
650	WWFCZ1	M	MID-FLOOD	24-Mar-06	10:13	32.90	19.6	6.57	6.48	6.41	93.4	91.9	8.0	31.7	2.3	2.6		8.0	
651	WWFCZ1	B	MID-FLOOD	24-Mar-06			19.5	6.69	6.60	6.65	93.6	92.1	8.0	31.7	3.1	3.9	2.9	8.0	7.7
652	WWFCZ2	S	MID-FLOOD	24-Mar-06			19.6	6.59	6.51		93.8	91.8	8.0	30.9	2.0	2.4		7.5	
653	WWFCZ2	M	MID-FLOOD	24-Mar-06	10:26	39.80	19.6	6.52	6.42	6.51	92.4	90.8	8.0	31.8	3.2	2.6		10.0	
654	WWFCZ2	B	MID-FLOOD	24-Mar-06			19.6	6.59	6.51	6.55	93.8	92.2	8.0	31.7	2.4	2.2	2.5	9.0	8.8
655	WFCZR1	S	MID-FLOOD	24-Mar-06			19.5	6.71	6.61		93.3	91.9	8.0	31.9	1.2	1.6		9.0	
656	WFCZR1	M	MID-FLOOD	24-Mar-06	10:00	38.20	19.5	6.78	6.70	6.70	94.7	92.7	8.0	31.8	3.4	3.5		7.0	
657	WFCZR1	B	MID-FLOOD	24-Mar-06			19.5	6.70	6.64	6.67	93.3	92.1	8.0	32.1	2.1	2.3	2.3	10.0	8.7
658	WFCZR2	S	MID-FLOOD	24-Mar-06			19.6	6.50	6.44		94.0	92.2	8.0	31.5	3.9	3.8		6.5	

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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
659	WFCZR2	M	MID-FLOOD	24-Mar-06	10:44	35.80	19.6	6.68	6.58	6.55	94.2	92.7	8.0	31.7	3.3	3.1		8.0	
660	WFCZR2	B	MID-FLOOD	24-Mar-06			19.6	6.49	6.44	6.47	93.7	93.6	8.0	31.7	3.1	3.6	3.5	7.0	7.2
661	WWA1	S	MID-EBB	27-Mar-06			19.7	5.93	5.87		85.8	84.4	7.6	31.7	4.8	4.7		10.5	
662	WWA1	M	MID-EBB	27-Mar-06	13:49	6.20	19.7	6.13	6.07	6.00	86.5	85.7	7.6	31.7	6.6	6.9		12.0	
663	WWA1	B	MID-EBB	27-Mar-06			19.7	6.40	6.35	6.38	90.0	89.4	7.7	31.7	4.3	4.2	5.2	14.5	12.3
664	WWA2	S	MID-EBB	27-Mar-06			19.7	5.82	5.78		82.5	81.6	7.8	31.7	5.5	5.2		13.5	
665	WWA2	M	MID-EBB	27-Mar-06	13:39	10.00	19.7	6.11	6.00	5.93	87.4	86.8	7.8	31.7	5.5	5.9		14.0	
666	WWA2	B	MID-EBB	27-Mar-06			19.7	6.09	6.03	6.06	87.8	86.7	7.8	31.7	5.3	5.2	5.4	13.0	13.5
667	WWA3	S	MID-EBB	27-Mar-06			19.8	5.58	5.54		87.6	86.0	7.9	31.5	4.6	4.6		13.5	
668	WWA3	M	MID-EBB	27-Mar-06	13:30	7.00	19.7	6.20	6.14	5.87	86.7	85.6	7.9	31.8	6.7	7.2		13.5	
669	WWA3	B	MID-EBB	27-Mar-06			19.7	6.00	5.92	5.96	87.5	86.2	7.9	31.8	7.4	7.5	6.3	13.5	13.5
670	WRA1	S	MID-EBB	27-Mar-06			19.8	6.07	6.02		85.5	84.7	7.6	31.2	4.2	4.1		10.0	
671	WRA1	M	MID-EBB	27-Mar-06	14:01	26.00	19.7	6.19	6.09	6.09	89.9	88.7	7.6	31.5	9.6	8.9		16.0	
672	WRA1	B	MID-EBB	27-Mar-06			19.7	6.30	6.28	6.29	87.2	86.3	7.6	31.5	6.5	6.7	6.7	15.0	13.7
673	WRA2	S	MID-EBB	27-Mar-06			19.8	6.08	6.02		88.8	87.7	7.8	30.9	3.6	3.4		5.0	
674	WRA2	M	MID-EBB	27-Mar-06	14:09	29.60	19.7	6.05	5.99	6.04	87.8	86.7	7.8	31.5	6.1	5.7		13.5	
675	WRA2	B	MID-EBB	27-Mar-06			19.7	6.41	6.29	6.35	92.3	90.4	7.8	31.5	4.1	4.0	4.5	13.0	10.5
676	WRA3	S	MID-EBB	27-Mar-06			19.8	6.18	6.08		90.8	89.5	7.7	31.1	3.4	3.4		8.0	
677	WRA3	M	MID-EBB	27-Mar-06	14:20	28.00	19.7	6.26	6.18	6.18	93.0	90.7	7.7	31.6	3.6	3.8		13.5	
678	WRA3	B	MID-EBB	27-Mar-06			19.7	6.42	6.40	6.41	92.0	90.5	7.7	31.7	4.4	4.2	3.8	16.0	12.5
679	WWFCZ1	S	MID-EBB	27-Mar-06			19.8	6.18	6.09		90.8	89.2	7.7	31.2	3.6	3.6		9.0	
680	WWFCZ1	M	MID-EBB	27-Mar-06	14:49	34.00	19.7	6.28	6.21	6.19	90.1	89.1	7.7	31.5	3.0	2.9		8.5	
681	WWFCZ1	B	MID-EBB	27-Mar-06			19.7	6.12	6.04	6.08	90.6	89.0	7.7	31.6	3.1	3.2	3.2	13.0	10.2
682	WWFCZ2	S	MID-EBB	27-Mar-06			19.8	6.13	6.06		88.3	87.5	7.7	30.9	3.2	3.2		10.5	
683	WWFCZ2	M	MID-EBB	27-Mar-06	14:40	41.00	19.7	6.36	6.27	6.21	90.2	89.3	7.7	31.3	2.8	2.7		6.5	
684	WWFCZ2	B	MID-EBB	27-Mar-06			19.8	6.32	6.25	6.29	91.0	89.7	7.7	31.2	4.6	3.7	3.4	7.0	8.0
685	WFCZR1	S	MID-EBB	27-Mar-06			19.7	5.81	5.78		93.4	91.5	7.7	31.2	3.4	3.6		10.5	
686	WFCZR1	M	MID-EBB	27-Mar-06	14:58	37.00	19.7	6.31	6.31	6.05	92.4	90.9	7.7	31.5	4.2	3.9		6.5	
687	WFCZR1	B	MID-EBB	27-Mar-06			19.7	6.36	6.32	6.34	91.2	89.5	7.7	31.5	3.6	3.6	3.7	11.5	9.5
688	WFCZR2	S	MID-EBB	27-Mar-06			19.7	5.69	5.63		77.6	77.0	7.7	31.0	4.8	3.7		8.0	
689	WFCZR2	M	MID-EBB	27-Mar-06	14:30	32.00	19.7	6.19	6.10	5.90	89.8	88.6	7.7	31.2	3.2	3.3		7.5	
690	WFCZR2	B	MID-EBB	27-Mar-06			19.7	6.46	6.37	6.42	90.6	89.7	7.7	31.5	3.1	2.9	3.5	7.5	7.7
691	WWA1	S	MID-FLOOD	27-Mar-06			19.6	5.84	5.75		84.6	83.3	7.9	31.8	4.5	4.1		12.0	
692	WWA1	M	MID-FLOOD	27-Mar-06	12:07	7.40	19.6	6.19	6.13	5.98	87.8	86.7	7.9	31.8	4.7	5.0		14.0	
693	WWA1	B	MID-FLOOD	27-Mar-06			19.6	6.35	6.25	6.30	91.1	89.4	7.9	31.7	5.0	5.0	4.7	14.0	13.3
694	WWA2	S	MID-FLOOD	27-Mar-06			19.6	6.29	6.20		90.2	88.1	7.9	31.8	4.5	4.7		5.3	
695	WWA2	M	MID-FLOOD	27-Mar-06	12:17	13.00	19.6	6.20	6.16	6.21	87.8	86.5	7.9	31.8	2.8	2.8		8.5	
696	WWA2	B	MID-FLOOD	27-Mar-06			19.6	6.33	6.25	6.29	92.1	90.4	7.9	31.8	4.9	4.8	4.1	11.0	8.3
697	WWA3	S	MID-FLOOD	27-Mar-06			19.6	5.92	5.83		88.3	86.6	7.8	31.8	3.3	2.8		6.5	
698	WWA3	M	MID-FLOOD	27-Mar-06	12:27	7.00	19.6	6.26	6.19	6.05	92.2	90.2	7.8	31.8	2.9	2.7		13.5	
699	WWA3	B	MID-FLOOD	27-Mar-06			19.6	6.37	6.31	6.34	92.4	90.8	7.8	31.8	3.9	3.7	3.3	6.5	8.8
700	WRA1	S	MID-FLOOD	27-Mar-06			19.6	5.85	5.77		83.6	82.5	7.7	31.8	3.5	3.4		5.5	
701	WRA1	M	MID-FLOOD	27-Mar-06	11:57	35.00	19.6	6.12	6.05	5.95	90.5	88.7	7.7	31.8	2.8	2.8		9.0	
702	WRA1	B	MID-FLOOD	27-Mar-06			19.6	6.17	6.13	6.15	87.2	86.1	7.7	31.8	2.7	2.4	2.9	7.5	7.3
703	WRA2	S	MID-FLOOD	27-Mar-06			19.6	5.70	5.65		87.2	85.8	7.9	31.7	2.8	2.7		11.0	
704	WRA2	M	MID-FLOOD	27-Mar-06	11:47	31.00	19.6	6.36	6.28	6.00	92.9	91.2	7.9	31.8	3.8	3.7		10.0	
705	WRA2	B	MID-FLOOD	27-Mar-06			19.6	6.13	6.10	6.12	88.9	87.4	7.9	31.8	3.3	3.0	3.2	8.5	9.8

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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
706	WRA3	S	MID-FLOOD	27-Mar-06			19.7	6.02	5.99		82.9	82.1	7.8	31.5	2.6	2.7		10.0	
707	WRA3	M	MID-FLOOD	27-Mar-06	11:38	27.00	19.6	5.96	5.91	5.97	86.5	84.7	7.8	31.6	3.0	2.9		9.5	
708	WRA3	B	MID-FLOOD	27-Mar-06			19.6	6.46	6.37	6.42	92.8	91.0	7.8	31.7	2.7	2.9	2.8	11.5	10.3
709	WWFCZ1	S	MID-FLOOD	27-Mar-06			19.6	5.90	5.83		83.3	82.0	7.9	31.7	3.6	3.7		9.0	
710	WWFCZ1	M	MID-FLOOD	27-Mar-06	11:17	35.10	19.6	6.00	5.95	5.92	84.2	83.5	7.9	31.8	4.4	3.9		9.0	
711	WWFCZ1	B	MID-FLOOD	27-Mar-06			19.6	6.29	6.26	6.28	88.8	87.8	7.9	31.9	3.9	3.6	3.9	9.5	9.2
712	WWFCZ2	S	MID-FLOOD	27-Mar-06			19.7	6.00	5.97		82.3	81.6	7.9	31.4	3.7	3.7		8.0	
713	WWFCZ2	M	MID-FLOOD	27-Mar-06	11:27	41.00	19.6	5.83	5.80	5.90	86.6	85.6	7.9	31.3	4.6	4.3		9.5	
714	WWFCZ2	B	MID-FLOOD	27-Mar-06			19.6	6.25	6.20	6.23	89.3	87.8	7.9	31.8	3.6	4.1	4.0	9.0	8.8
715	WFCZR1	S	MID-FLOOD	27-Mar-06			19.6	5.36	5.33		70.0	69.6	7.8	32.0	3.0	3.4		10.0	
716	WFCZR1	M	MID-FLOOD	27-Mar-06	10:57	35.00	19.6	5.68	5.65	5.51	78.3	77.4	7.8	32.0	5.7	5.6		8.0	
717	WFCZR1	B	MID-FLOOD	27-Mar-06			19.6	6.11	6.07	6.09	84.1	83.5	7.8	32.0	4.4	4.8	4.5	10.0	9.3
718	WFCZR2	S	MID-FLOOD	27-Mar-06			19.7	6.07	6.02		87.2	85.8	7.8	31.5	3.9	3.7		7.0	
719	WFCZR2	M	MID-FLOOD	27-Mar-06	11:07	36.00	19.6	6.26	6.22	6.14	87.2	86.3	7.8	31.6	5.6	5.8		10.5	
720	WFCZR2	B	MID-FLOOD	27-Mar-06			19.6	6.10	6.08	6.09	87.6	85.9	7.8	31.6	6.2	5.9	5.2	9.0	8.8
721	WWA1	S	MID-EBB	29-Mar-06			20.4	6.06	5.97		87.7	86.7	7.9	31.0	9.6	9.7		11.5	
722	WWA1	M	MID-EBB	29-Mar-06	13:25	7.00	20.3	6.03	5.92	6.00	90.5	88.7	7.9	30.7	9.0	10.1		16.0	
723	WWA1	B	MID-EBB	29-Mar-06			20.3	6.14	6.07	6.11	87.1	86.1	7.9	30.1	6.3	6.8	8.6	17.5	15.0
724	WWA2	S	MID-EBB	29-Mar-06			20.4	5.99	5.92		88.3	86.9	7.9	30.8	9.8	9.2		25.5	
725	WWA2	M	MID-EBB	29-Mar-06	13:33	10.00	20.2	5.82	5.70	5.86	88.5	86.6	7.9	30.9	13.5	13.4		25.5	
726	WWA2	B	MID-EBB	29-Mar-06			20.2	6.04	5.96	6.00	90.1	88.2	7.9	30.7	11.6	11.8	11.5	25.5	25.5
727	WWA3	S	MID-EBB	29-Mar-06			21.0	5.37	5.34		79.1	78.1	7.9	31.1	5.5	5.9		22.0	
728	WWA3	M	MID-EBB	29-Mar-06	13:15	8.00	20.7	6.09	6.00	5.70	91.0	89.5	7.9	31.0	13.1	13.8		25.0	
729	WWA3	B	MID-EBB	29-Mar-06			20.6	5.98	5.90	5.94	87.1	85.7	7.9	30.8	14.2	13.4	11.0	26.0	24.3
730	WRA1	S	MID-EBB	29-Mar-06			20.6	6.06	5.97		91.5	89.8	7.7	30.6	5.8	5.8		14.0	
731	WRA1	M	MID-EBB	29-Mar-06	13:43	24.00	20.5	5.83	5.76	5.91	85.4	83.7	7.7	30.1	6.0	6.4		9.5	
732	WRA1	B	MID-EBB	29-Mar-06			20.3	6.05	5.97	6.01	89.5	87.7	7.7	30.2	7.4	7.1	6.4	19.5	14.3
733	WRA2	S	MID-EBB	29-Mar-06			20.6	6.24	6.12		93.2	90.8	7.8	30.3	5.9	5.9		9.5	
734	WRA2	M	MID-EBB	29-Mar-06	13:53	30.00	20.5	6.05	5.97	6.10	91.0	88.6	7.8	29.2	6.8	7.6		10.5	
735	WRA2	B	MID-EBB	29-Mar-06			20.4	6.24	6.16	6.20	91.4	89.7	7.8	30.4	7.5	7.4	6.8	15.0	11.7
736	WRA3	S	MID-EBB	29-Mar-06			20.6	6.21	6.14		90.6	89.4	7.8	30.1	5.5	5.4		13.5	
737	WRA3	M	MID-EBB	29-Mar-06	14:05	26.00	20.5	5.41	5.37	5.78	81.7	81.4	7.8	30.2	6.4	7.1		14.5	
738	WRA3	B	MID-EBB	29-Mar-06			20.4	6.16	6.06	6.11	89.4	87.7	7.8	29.9	5.6	5.0	5.8	19.5	15.8
739	WWFCZ1	S	MID-EBB	29-Mar-06			20.4	5.93	5.87		89.5	88.3	7.8	30.1	6.5	6.6		10.0	
740	WWFCZ1	M	MID-EBB	29-Mar-06	14:36	31.00	20.3	5.89	5.83	5.88	85.6	84.4	7.8	30.4	5.5	5.6		12.0	
741	WWFCZ1	B	MID-EBB	29-Mar-06			20.2	6.15	6.08	6.12	89.9	88.4	7.8	30.3	4.9	4.9	5.7	8.0	10.0
742	WWFCZ2	S	MID-EBB	29-Mar-06			20.5	6.24	6.12		93.2	91.5	7.8	29.8	5.5	5.2		10.0	
743	WWFCZ2	M	MID-EBB	29-Mar-06	14:26	38.00	20.4	6.03	5.92	6.08	90.2	88.4	7.7	30.0	5.3	5.3		10.0	
744	WWFCZ2	B	MID-EBB	29-Mar-06			20.3	6.06	5.96	6.01	89.7	88.3	7.7	30.4	5.0	5.7	5.3	9.0	9.7
745	WFCZR1	S	MID-EBB	29-Mar-06			20.4	6.10	6.06		87.0	85.4	7.8	29.2	5.5	5.9		11.5	
746	WFCZR1	M	MID-EBB	29-Mar-06	14:45	35.00	20.2	6.05	6.00	6.05	85.7	84.5	7.8	30.3	6.5	6.5		8.0	
747	WFCZR1	B	MID-EBB	29-Mar-06			20.2	6.27	6.19	6.23	92.8	91.0	7.8	30.5	7.1	7.2	6.5	10.0	9.8
748	WFCZR2	S	MID-EBB	29-Mar-06			20.6	5.78	5.71		90.6	89.3	7.7	30.2	6.4	6.1		13.5	
749	WFCZR2	M	MID-EBB	29-Mar-06	14:16	30.00	20.4	6.06	6.00	5.89	87.8	86.5	7.7	30.2	5.6	5.6		7.5	
750	WFCZR2	B	MID-EBB	29-Mar-06			20.3	6.26	6.12	6.19	92.8	90.6	7.7	30.3	6.3	7.4	6.2	8.0	9.7
751	WWA1	S	MID-FLOOD	29-Mar-06			20.6	6.07	5.99		89.4	88.1	8.0	30.7	4.7	4.7		8.0	
752	WWA1	M	MID-FLOOD	29-Mar-06	12:03	9.00	20.5	6.14	6.05	6.06	91.5	89.9	8.0	30.8	5.3	5.6		11.5	

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
Marine Water Quality Morning - March 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
753	WWA1	B	MID-FLOOD	29-Mar-06			20.2	6.22	6.15	6.19	89.5	87.1	8.0	30.8	5.9	6.1	5.4	14.5	11.3
754	WWA2	S	MID-FLOOD	29-Mar-06			20.5	5.69	5.68		79.1	78.3	8.0	30.8	5.0	5.4		8.5	
755	WWA2	M	MID-FLOOD	29-Mar-06	12:11	13.00	20.2	6.28	6.23	5.97	89.8	88.6	8.0	31.0	6.2	6.0		9.0	
756	WWA2	B	MID-FLOOD	29-Mar-06			20.2	6.33	6.26	6.30	91.0	89.6	8.0	30.9	5.2	5.3	5.5	9.0	8.8
757	WWA3	S	MID-FLOOD	29-Mar-06			20.3	6.12	6.05		88.3	87.0	7.9	30.8	6.8	6.3		7.5	
758	WWA3	M	MID-FLOOD	29-Mar-06	12:21	10.00	20.1	6.60	6.48	6.31	94.1	92.5	7.9	30.8	5.9	5.5		16.5	
759	WWA3	B	MID-FLOOD	29-Mar-06			20.1	5.99	5.92	5.96	88.4	86.5	7.9	30.9	6.8	6.5	6.3	21.5	15.2
760	WRA1	S	MID-FLOOD	29-Mar-06			20.5	6.20	6.16		90.6	89.4	7.8	31.3	5.7	5.7		14.5	
761	WRA1	M	MID-FLOOD	29-Mar-06	11:53	30.00	20.3	6.16	6.07	6.15	91.3	89.6	7.8	31.1	5.7	5.9		13.5	
762	WRA1	B	MID-FLOOD	29-Mar-06			20.4	6.20	6.14	6.17	88.9	87.6	7.8	30.9	7.4	6.8	6.2	10.0	12.7
763	WRA2	S	MID-FLOOD	29-Mar-06			20.6	6.30	6.22		93.6	92.2	8.0	31.1	3.5	3.9		7.5	
764	WRA2	M	MID-FLOOD	29-Mar-06	11:43	31.00	20.2	6.39	6.30	6.30	91.9	90.4	8.0	31.1	7.3	6.6		14.5	
765	WRA2	B	MID-FLOOD	29-Mar-06			20.3	5.71	5.66	5.69	88.8	87.5	8.0	30.9	6.9	6.4	5.8	18.5	13.5
766	WRA3	S	MID-FLOOD	29-Mar-06			20.5	5.51	5.46		77.8	77.1	7.9	30.6	5.6	5.6		9.0	
767	WRA3	M	MID-FLOOD	29-Mar-06	11:34	28.00	20.2	6.18	6.10	5.81	90.7	89.0	7.9	30.8	6.2	6.1		11.5	
768	WRA3	B	MID-FLOOD	29-Mar-06			20.1	6.24	6.15	6.20	92.7	90.8	7.9	30.9	6.4	6.2	6.0	15.0	11.8
769	WWFCZ1	S	MID-FLOOD	29-Mar-06			20.7	5.93	5.90		89.8	88.1	7.9	31.3	5.0	4.9		9.5	
770	WWFCZ1	M	MID-FLOOD	29-Mar-06	11:05	34.00	20.2	6.19	6.12	6.04	90.0	89.0	7.9	31.4	6.8	7.1		12.5	
771	WWFCZ1	B	MID-FLOOD	29-Mar-06			20.3	6.24	6.17	6.21	90.4	89.5	7.9	31.2	6.2	6.7	6.1	12.5	11.5
772	WWFCZ2	S	MID-FLOOD	29-Mar-06			20.2	6.35	6.24		92.7	90.6	8.0	31.2	5.0	5.5		10.0	
773	WWFCZ2	M	MID-FLOOD	29-Mar-06	11:14	40.00	20.0	6.21	6.14	6.24	93.3	91.6	8.0	31.3	7.7	7.6		14.0	
774	WWFCZ2	B	MID-FLOOD	29-Mar-06			21.0	6.15	6.07	6.11	90.1	88.4	8.0	30.8	7.5	6.8	6.7	12.0	12.0
775	WFCZR1	S	MID-FLOOD	29-Mar-06			21.2	5.89	5.88		85.8	85.2	7.9	31.4	8.7	8.8		15.0	
776	WFCZR1	M	MID-FLOOD	29-Mar-06	10:53	34.00	20.2	5.83	5.81	5.85	81.3	80.7	7.9	31.5	8.4	8.7		14.0	
777	WFCZR1	B	MID-FLOOD	29-Mar-06			20.2	6.17	6.11	6.14	88.8	87.6	7.9	31.5	4.4	4.5	7.3	15.0	14.7
778	WFCZR2	S	MID-FLOOD	29-Mar-06			20.4	6.23	6.18		91.4	89.5	7.8	30.8	6.9	6.8		7.5	
779	WFCZR2	M	MID-FLOOD	29-Mar-06	11:24	35.00	20.2	6.28	6.20	6.22	91.2	89.8	7.8	30.9	7.9	8.0		14.0	
780	WFCZR2	B	MID-FLOOD	29-Mar-06			20.1	6.44	6.34	6.39	94.5	92.1	7.8	31.0	8.6	8.1	7.7	13.5	11.7
781	WWA1	S	MID-EBB	31-Mar-06			20.7	6.01	5.95		88.7	87.2	8.0	30.4	8.5	8.7		11.5	
782	WWA1	M	MID-EBB	31-Mar-06	13:50	8.00	20.6	6.23	6.16	6.09	88.9	87.3	8.0	30.4	5.7	5.6		12.5	
783	WWA1	B	MID-EBB	31-Mar-06			20.5	6.34	6.23	6.29	91.1	89.6	8.0	30.5	14.7	14.9	9.7	14.0	12.7
784	WWA2	S	MID-EBB	31-Mar-06			20.7	5.65	5.60		81.4	80.3	8.0	30.6	13.7	13.3		21.5	
785	WWA2	M	MID-EBB	31-Mar-06	13:40	10.00	20.7	5.94	5.89	5.77	84.7	84.0	8.0	30.5	7.1	7.2		23.5	
786	WWA2	B	MID-EBB	31-Mar-06			20.7	6.02	5.93	5.98	87.5	86.7	8.0	30.6	7.9	7.5	9.5	20.5	21.8
787	WWA3	S	MID-EBB	31-Mar-06			21.5	6.25	6.18		93.1	91.7	8.0	30.7	12.5	11.1		18.5	
788	WWA3	M	MID-EBB	31-Mar-06	13:30	9.00	21.1	6.05	5.99	6.12	87.9	86.9	8.0	30.5	6.4	6.6		18.0	
789	WWA3	B	MID-EBB	31-Mar-06			20.8	5.97	5.93	5.95	84.8	84.2	8.0	30.6	15.7	15.5	11.3	21.0	19.2
790	WRA1	S	MID-EBB	31-Mar-06			20.7	6.14	6.08		88.9	87.5	8.0	29.9	5.5	5.7		24.5	
791	WRA1	M	MID-EBB	31-Mar-06	14:01	28.00	20.4	6.15	6.10	6.12	89.7	88.2	8.0	30.5	15.2	14.6		47.0	
792	WRA1	B	MID-EBB	31-Mar-06			20.3	6.18	6.10	6.14	89.6	88.1	8.0	30.5	9.1	9.3	9.9	47.0	39.5
793	WRA2	S	MID-EBB	31-Mar-06			20.7	6.10	6.00		88.9	87.0	8.0	30.1	5.3	5.4		24.5	
794	WRA2	M	MID-EBB	31-Mar-06	14:12	25.00	20.3	6.17	6.10	6.09	90.6	89.1	8.0	30.8	7.4	6.5		15.5	
795	WRA2	B	MID-EBB	31-Mar-06			20.3	6.39	6.29	6.34	93.0	91.1	8.0	30.3	10.1	10.3	7.5	17.5	19.2
796	WRA3	S	MID-EBB	31-Mar-06			20.8	5.84	5.79		83.0	82.0	8.0	30.0	5.9	6.3		13.0	
797	WRA3	M	MID-EBB	31-Mar-06	14:22	30.00	20.4	6.13	6.07	5.96	89.3	87.8	8.0	30.6	6.7	7.0		12.5	
798	WRA3	B	MID-EBB	31-Mar-06			20.3	6.33	6.26	6.30	92.1	90.5	8.0	30.6	6.6	6.4	6.5	14.0	13.2
799	WWFCZ1	S	MID-EBB	31-Mar-06			20.9	6.07	5.98		92.1	90.2	8.0	29.7	6.5	6.0		7.0	

Contract No.HY2005/06 Castle Peak Road Improvements - West of Tsing Lung Tau
Marine Water Quality Morning - March 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
800	WWFCZ1	M	MID-EBB	31-Mar-06	14:52	29.00	20.6	6.13	6.05	6.06	91.5	89.9	8.0	30.2	7.0	7.2	7.0	7.0	
801	WWFCZ1	B	MID-EBB	31-Mar-06			20.3	6.24	6.14	6.19	93.2	91.6	8.0	30.5	7.4	8.1	7.0	17.0	10.3
802	WWFCZ2	S	MID-EBB	31-Mar-06			20.9	5.70	5.68		85.2	83.1	8.0	29.8	6.7	6.9		6.5	
803	WWFCZ2	M	MID-EBB	31-Mar-06	14:42	39.00	20.6	6.09	6.00	5.87	90.4	88.7	8.0	30.2	5.9	6.1		10.0	
804	WWFCZ2	B	MID-EBB	31-Mar-06			20.4	6.16	6.09	6.13	87.9	86.7	8.0	30.6	7.2	7.5	6.7	15.0	10.5
805	WFCZR1	S	MID-EBB	31-Mar-06			21.0	5.91	5.84		87.8	85.9	8.0	29.7	5.6	5.4		9.5	
806	WFCZR1	M	MID-EBB	31-Mar-06	15:02	33.00	20.5	6.17	6.07	6.00	90.0	88.0	8.0	30.4	9.1	9.4		11.0	
807	WFCZR1	B	MID-EBB	31-Mar-06			20.4	6.29	6.22	6.26	91.6	89.8	8.0	30.4	7.6	7.4	7.4	10.5	10.3
808	WFCZR2	S	MID-EBB	31-Mar-06			21.0	5.81	5.77		89.4	87.1	8.0	29.8	7.0	7.5		5.5	
809	WFCZR2	M	MID-EBB	31-Mar-06	14:32	40.00	20.7	5.93	5.91	5.86	83.3	82.2	8.0	30.1	7.1	7.1		9.5	
810	WFCZR2	B	MID-EBB	31-Mar-06			20.4	6.36	6.30	6.33	91.4	90.1	8.0	30.7	16.7	15.6	10.2	18.5	11.2
811	WWA1	S	MID-FLOOD	31-Mar-06			20.5	5.78	5.73		89.8	88.0	8.0	30.9	8.1	8.1		9.0	
812	WWA1	M	MID-FLOOD	31-Mar-06	11:58	7.00	20.4	5.87	5.80	5.80	82.3	81.8	8.0	30.9	12.3	11.7		13.5	
813	WWA1	B	MID-FLOOD	31-Mar-06			20.3	5.94	5.91	5.93	83.0	82.4	8.0	30.9	8.8	8.5	9.6	11.0	11.2
814	WWA2	S	MID-FLOOD	31-Mar-06			20.5	6.17	6.08		89.3	88.0	8.0	30.9	5.8	5.1		11.0	
815	WWA2	M	MID-FLOOD	31-Mar-06	12:05	11.00	20.5	6.10	6.03	6.10	89.2	87.9	8.0	30.6	5.1	5.0		12.0	
816	WWA2	B	MID-FLOOD	31-Mar-06			20.5	6.12	6.06	6.09	86.4	85.5	8.0	30.8	5.3	5.2	5.2	13.5	12.2
817	WWA3	S	MID-FLOOD	31-Mar-06			20.7	6.06	5.93		91.2	88.8	8.0	30.9	3.5	3.4		6.5	
818	WWA3	M	MID-FLOOD	31-Mar-06	12:12	7.00	20.4	5.99	5.93	5.98	86.3	85.2	8.0	31.1	2.9	2.8		12.5	
819	WWA3	B	MID-FLOOD	31-Mar-06			20.6	6.13	6.07	6.10	88.0	87.0	8.0	31.0	4.9	4.8	3.7	10.5	9.8
820	WRA1	S	MID-FLOOD	31-Mar-06			20.6	5.99	5.92		82.8	82.7	8.0	30.6	5.3	5.1		10.5	
821	WRA1	M	MID-FLOOD	31-Mar-06	11:48	36.00	20.4	5.90	5.86	5.92	85.3	84.6	8.0	30.9	7.2	7.9		13.0	
822	WRA1	B	MID-FLOOD	31-Mar-06			20.3	5.91	5.87	5.89	85.8	84.8	8.0	30.9	4.1	4.5	5.7	13.0	12.2
823	WRA2	S	MID-FLOOD	31-Mar-06			20.6	5.94	5.87		85.6	84.4	8.0	30.8	2.8	3.3		9.5	
824	WRA2	M	MID-FLOOD	31-Mar-06	11:40	31.00	20.5	6.06	6.01	5.97	85.1	84.3	8.0	30.8	6.4	6.4		13.5	
825	WRA2	B	MID-FLOOD	31-Mar-06			20.5	6.06	6.04	6.05	86.8	85.7	8.0	30.8	3.7	3.5	4.4	13.0	12.0
826	WRA3	S	MID-FLOOD	31-Mar-06			20.8	5.95	5.89		85.4	84.5	7.9	31.2	2.9	2.9		16.0	
827	WRA3	M	MID-FLOOD	31-Mar-06	11:35	30.00	20.6	6.13	6.08	6.01	86.5	85.8	7.9	31.0	4.6	4.4		13.5	
828	WRA3	B	MID-FLOOD	31-Mar-06			20.3	5.99	5.96	5.98	83.6	82.9	7.9	31.0	8.2	8.1	5.2	12.0	13.8
829	WWFCZ1	S	MID-FLOOD	31-Mar-06			20.6	5.95	5.89		85.0	84.0	8.0	31.0	3.4	3.2		19.0	
830	WWFCZ1	M	MID-FLOOD	31-Mar-06	11:05	30.00	20.4	5.95	5.91	5.93	83.1	82.0	8.0	31.3	4.2	4.5		17.5	
831	WWFCZ1	B	MID-FLOOD	31-Mar-06			20.2	6.08	6.06	6.07	84.0	83.5	8.0	31.2	9.7	9.1	5.7	13.0	16.5
832	WWFCZ2	S	MID-FLOOD	31-Mar-06			20.4	5.81	5.75		83.2	82.1	8.0	30.9	11.2	9.7		11.5	
833	WWFCZ2	M	MID-FLOOD	31-Mar-06	11:16	40.00	20.3	5.84	5.77	5.79	84.1	83.3	8.0	31.2	3.7	3.3		14.0	
834	WWFCZ2	B	MID-FLOOD	31-Mar-06			20.2	6.15	6.12	6.14	85.9	85.2	8.0	31.3	11.7	12.1	8.6	15.5	13.7
835	WFCZR1	S	MID-FLOOD	31-Mar-06			20.4	5.89	5.81		81.7	81.0	8.0	31.6	1.6	1.8		19.0	
836	WFCZR1	M	MID-FLOOD	31-Mar-06	10:55	36.00	20.2	5.96	5.93	5.90	84.1	83.0	8.0	31.6	7.7	8.0		21.0	
837	WFCZR1	B	MID-FLOOD	31-Mar-06			20.1	6.00	5.99	6.00	83.7	82.8	8.0	31.6	3.0	3.0	4.2	14.5	18.2
838	WFCZR2	S	MID-FLOOD	31-Mar-06			20.6	5.83	5.76		86.7	85.2	8.0	30.4	7.8	8.2		11.0	
839	WFCZR2	M	MID-FLOOD	31-Mar-06	11:26	36.00	20.3	6.00	5.93	5.88	85.7	84.7	8.0	30.9	12.6	11.4		19.5	
840	WFCZR2	B	MID-FLOOD	31-Mar-06			20.3	6.14	6.02	6.08	90.8	89.6	8.0	31.0	5.9	5.4	8.5	22.0	17.5