

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)

October 2007

Second Issue

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Tsing Lung Tau

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October 2007

November 2007

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

Job number 24583

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Attn : Mr. Larry Chan

16 November 2007

Dear Sir,

Arup Acoustics		Job No. 24503
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Contract No. HY/2005/06**Castle Peak Road Improvement – West of Tsing Lung Tau****Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – October 2007**

We refer to the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – October 2007 received via email on 12 November 2007 from Ove Arup & Partners Hong Kong Ltd., the Environmental Team (ET) of Castle Peak Road Improvement – West of Tsing Lung Tau (Remaining Contract).

Having addressed the IEC's comment on 12 November 2007 and the receipt of the revised report from the ET on 15 November 2007, the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – October 2007 is verified to be acceptable for onward submission to the Engineer, HyD, EPD and AFCD.

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

Yours faithfully,
For and on behalf of
ENSR Asia (HK) Ltd.



Y T Tang
Independent Environmental Checker

cc MHJV - Mr. Simon Illingworth (Fax: 2559 1613)
Arup - Mr. Sam Tsoi / Mr. Samuel Chan (Fax: 2268 3950)

Co-Chairmen: T C K Shum, R C Weber. President: M Chan. Managing Director: A Y Kwok.

Executive Directors: F C M Cheung, M C Ko, Y T Tang. Associate: J K W Lam.

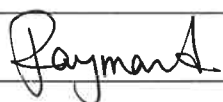
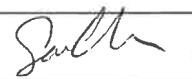
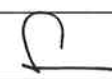
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Job title	Contract No HY/2005/06 Castle Peak Road Improvement – West of Tsing Lung Tau	Job number 24583
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Document title	Monthly Environmental Monitoring and Audit Report for Reclamation Works (EP No EP-219/2005) – October 2007	File reference
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Document ref

Revision	Date	Filename	53-Oct-07 (Reclamation).doc		
<i>Second Issue</i>	19/11/07	Description	Submit to IEC for comments		
			Prepared by	Checked by	Approved by
		Name	Raymond Liu	Samuel Chan	Sam Tsoi
		Signature			
		Filename			
		Description			
			Prepared by	Checked by	Approved by
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		Description			
			Prepared by	Checked by	Approved by
		Name			
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		Description			
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Issue Document Verification with Document

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Executive Summary

This is the twentieth monthly environmental monitoring and audit (EM&A) report presenting the progress of environmental monitoring and audit works for the reporting period between 01 and 31 October 2007. Noise monitoring at Grand Bay Villa was temporarily suspended as the premises were vacant. Marine water monitoring and weekly environmental site audit were carried out during the reporting period.

Marine Water Quality Monitoring

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

Summary of Mid-Ebb Tide

The lowest DO level for surface & middle position of 5.44 mg/L was recorded at WWFCZ1 on 16 October 2007 and the lowest DO level for bottom position of 5.45 mg/L was recorded at WWA2 on 16 October 2007. There was no exceedance of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 7.9 Nephelometric Turbidity Unit (NTU) was recorded at WWA1 on 12 October 2007. There were 2 exceedances of Tby Limit Level on 12 October 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level of 27.2 mg/L was recorded at WWA1 on 12 October 2007. There were 13 exceedances of SS Baseline Check Level on 12, 13, 16, 18, 23, 25, 27 and 30 October 2007 and 1 exceedance of SS Limit Level on 12 October 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

Except for the exceedances on 12 October 2007, exceedances of SS levels on other days were likely attributed to natural variation of marine water quality and unidentified source.

Summary of Mid-Flood Tide

The lowest DO level for surface & middle position of 5.52 mg/L was recorded at WWA2 on 20 October 2007 and the lowest level for bottom position of 5.43 mg/L was recorded at WWFCZ2 on 25 October 2007. There was no exceedance of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 11.4 NTU was recorded at WWA3 on 12 October 2007 respectively. There was 1 exceedance of Tby Limit Level on 12 October 2007 during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level of 20.7 mg/L was recorded at WWFCZ2 on 30 October 2007. There were 4 exceedances of SS Baseline Check Criteria on 13 and 30 October 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

Except for the exceedances on 12 October 2007, exceedances of SS levels on other days were likely attributed to natural variation of marine water quality.

Environmental Auditing

A total of 4 environmental site audits were conducted in October 2007. CT was recommended to improve in the following areas:

Air Quality: Frequent watering over unpaved area;

Waste Management: Provision of drip trays to oil drums, clearing of the oil stain and clearing of C&D waste and general refuse frequently; and

Water Quality: Clearing the silt in the sedimentation tanks and removal of the remaining stockpile at Seawall B as soon as possible.

Waste Disposal

A total of 63.4 tonnes of Construction & Demolition (C&D) waste was disposed of at landfills. Neither C&D materials nor chemical waste was disposed of in the reporting period.

Complaint Records

There was no environmental complaint received in October 2007.

Exceedance

Exceedances of T_{by} and SS levels for marine water quality were recorded during the reporting period when compared with A/L Levels and baseline check criteria.

Investigation has been conducted for the exceedances. Exceedances on 12 October 2007 were likely attributed to removal of silt curtain at Seawall A near Grand Bay Villa, causing re-suspension of sediment. Exceedances of SS level recorded on other days were likely attributed to natural variation of marine water quality.

Notification of Summons and Successful Prosecution

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

Environmental Licences

No new 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.

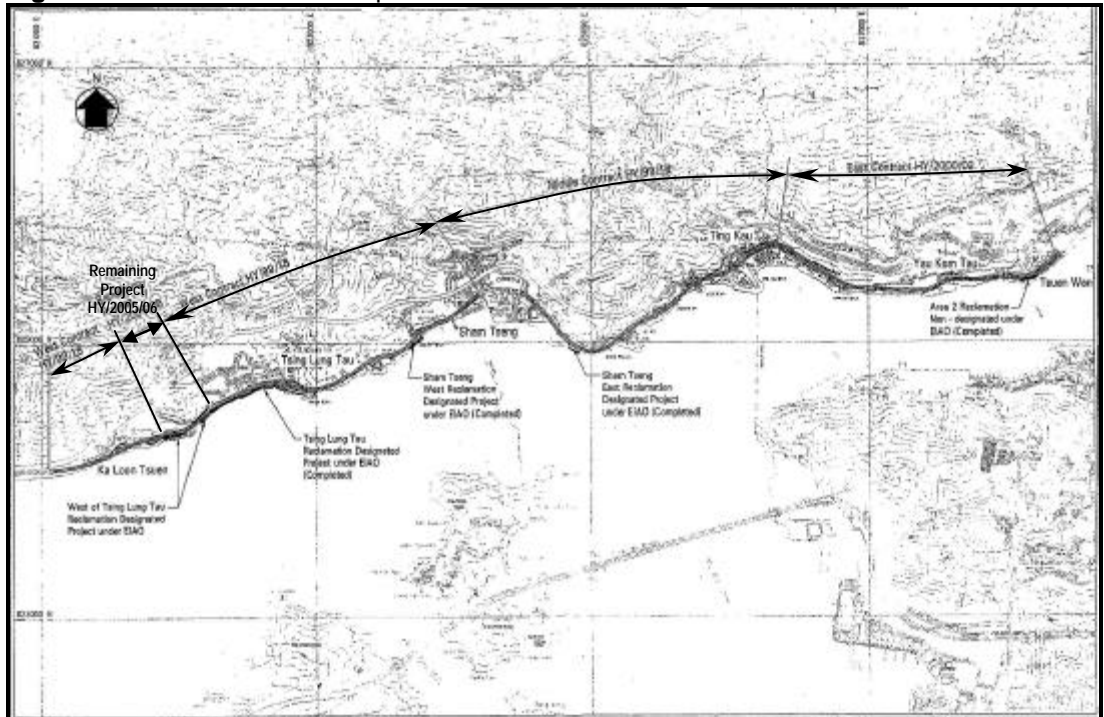
Following subsequent developments, the Route 10 project was placed under review, and Government therefore decided to implement the excised section of CPR (the Remaining Project) under the original CPR Improvement project. **Figure 1-1** shows the site location plan.

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.

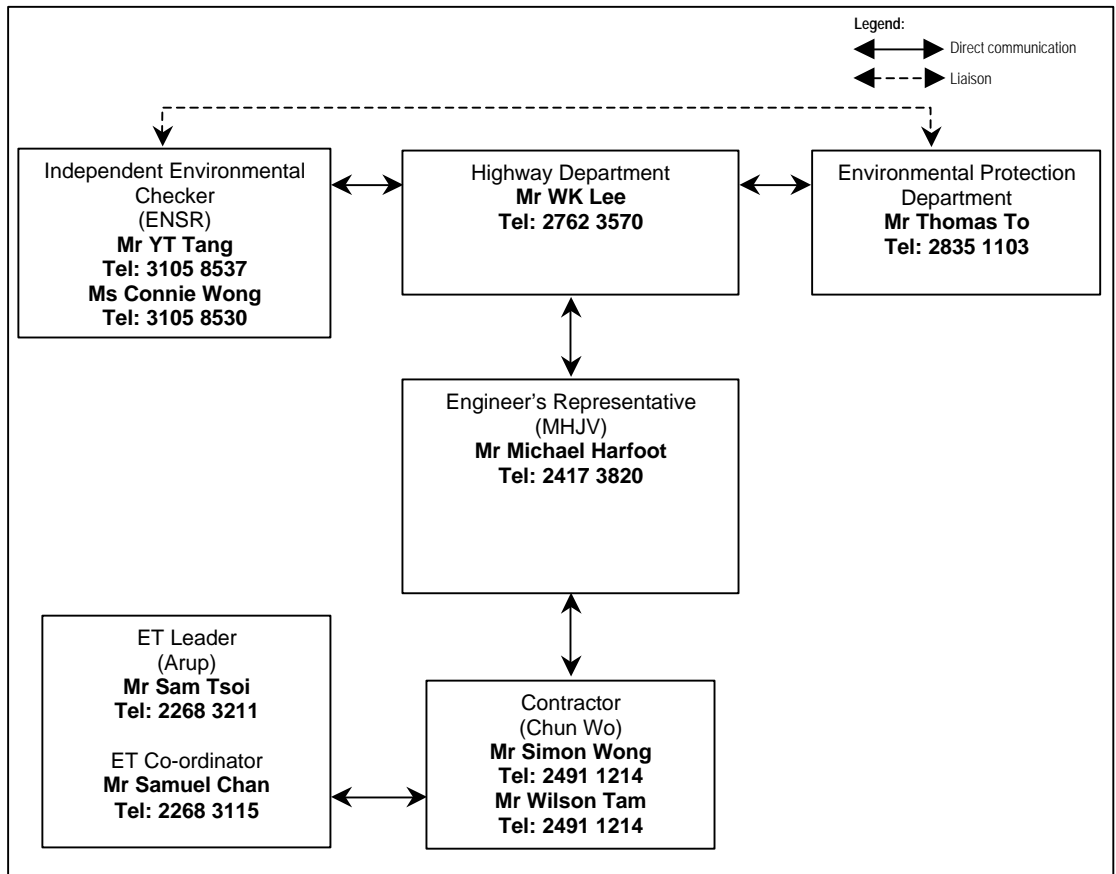
Figure 1-1: Site location plan



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 Meinhardt Halcrow Joint Venture (MHJV); the Contractor (CT) is Chun Wo Construction & Engineering Co. Ltd; the Independent Environmental Checker (IEC) is ENSR Asia (HK) Ltd (ENSR) and the ET leader is Ove Arup & Partners Hong Kong Ltd (Arup).

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

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

The duties of IEC include the followings:

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

1.3 Impact EM&A Requirements

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 twentieth 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 01 October 2007 to 31 October 2007.

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 October 2007 included:

- Removal of stockpile at Seawall A near Grand Bay Villa;
- Removal of silt curtain at Seawall A; and
- Construction of footpath at slope 170 at Seawall B.

3 Summary of EM&A Requirements

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

The monitoring schedule for October 2007 and the tentative schedule for November 2007 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

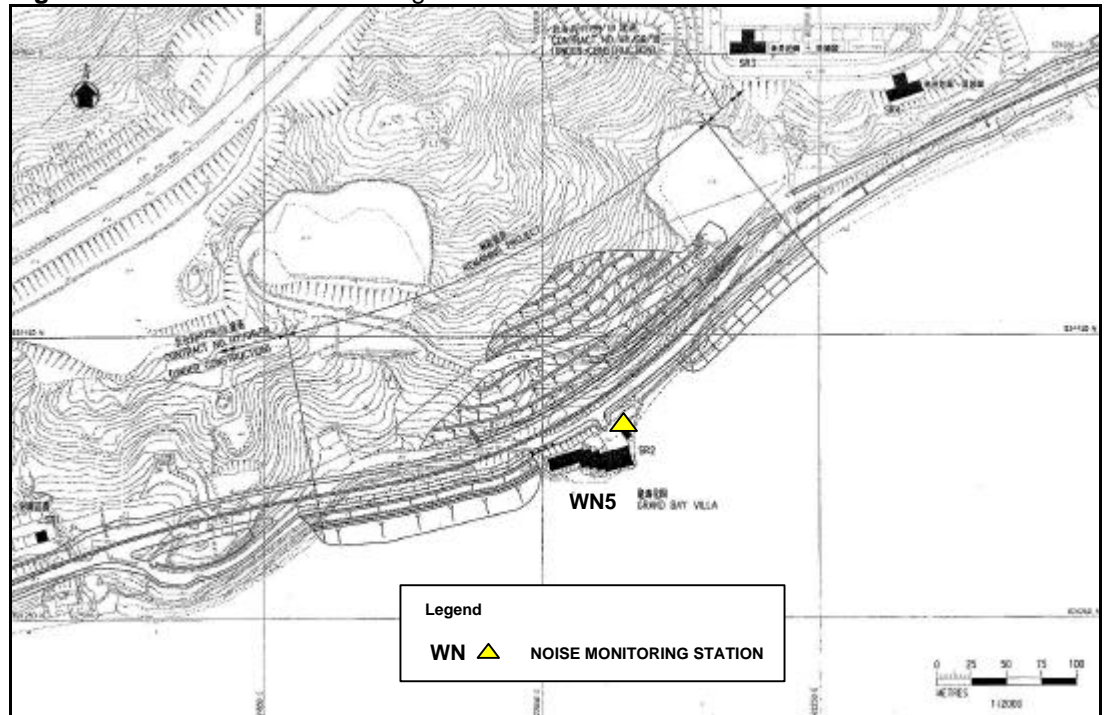
Noise monitoring will be conducted at one designated location as shown in **Figure 3-1**. The details of the noise monitoring location are given in **Table 3-2**. The measurements will be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

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.

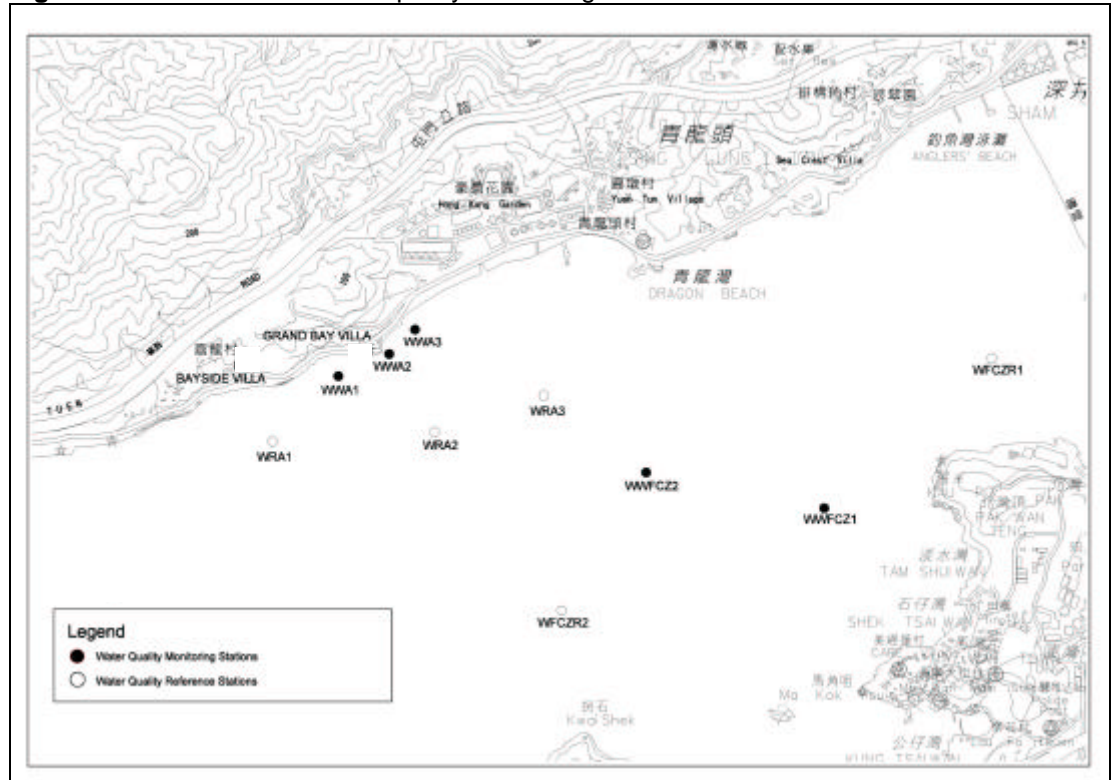
3.2.3 Monitoring Locations

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	CT
Action Level	<ol style="list-style-type: none"> 1. Notify IEC and the CT. 2. Carry out investigation. 3. Report the results of investigation to the IEC and the CT. 4. Discuss with the CT 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 CT 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 CT. 3. Require the CT 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 CT. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of CT'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 CT'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 CT on the potential remedial actions. 2. Review the CT'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 CT. 3. Require the CT 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 CT 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-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 *	5.0	5.0 *	5.0
	Bottom	3.4	3.4	3.4	3.3	3.4	3.2	3.7	2.0	3.6	2.0
Tby (NTU)		7.4	7.7	6.7	6.9	7.8	8.3	6.4	8.6	6.7	7.0
SS (mg/L)		25.3	26.0	22.2	23.1	24.6	25.2	26.3	30.3	22.6	22.9
Mid-flood											
DO (mg/L)	Surface & middle	3.3	3.3	3.4	3.3	3.5	3.3	5.0 *	5.0	5.0 *	5.0
	Bottom	3.2	3.2	3.2	3.2	3.2	3.2	3.3	2.0	3.5	2.0
Tby (NTU)		6.9	7.2	7.6	8.2	8.7	10.7	7.4	11.0	5.9	6.5
SS (mg/L)		24.1	24.3	23.5	23.6	22.3	23.5	24.4	25.8	27.4	28.0

Notes:

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

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

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

Parameters		Monitoring locations				
		WWA1	WWA2	WWA3	WWFCZ1	WWFCZ2
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	CT
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 CT. Check monitoring data, all plant, equipment and the CT's working methods. Discuss mitigation measures with the IEC and the CT. Repeat measurement on next day of exceedance. 	<ol style="list-style-type: none"> Discuss with the ET Leader and the CT on the mitigation measures. Review proposals on mitigation measures submitted by the CT 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 CT. Check monitoring data, all plant, equipment and the CT's working methods. Discuss mitigation measures with the IEC and the CT. 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 CT on the mitigation measures. Review proposals on mitigation measures submitted by the CT 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 CT and the DEP. Check monitoring data, all plant, equipment and the CT's working methods. Discuss mitigation measures with the IEC, the ER and the CT. 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 CT on the mitigation measures. Review proposals on mitigation measures submitted by the CT 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 CT on the proposed mitigation measures. Request the CT 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 CT and the DEP. Check monitoring data, all plant, equipment and the CT's working methods. Discuss mitigation measures with the IEC, the ER and the CT. 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 CT on the mitigation measures. Review proposals on mitigation measures submitted by the CT 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 CT on the proposed mitigation measures. Request the CT 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 CT 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

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

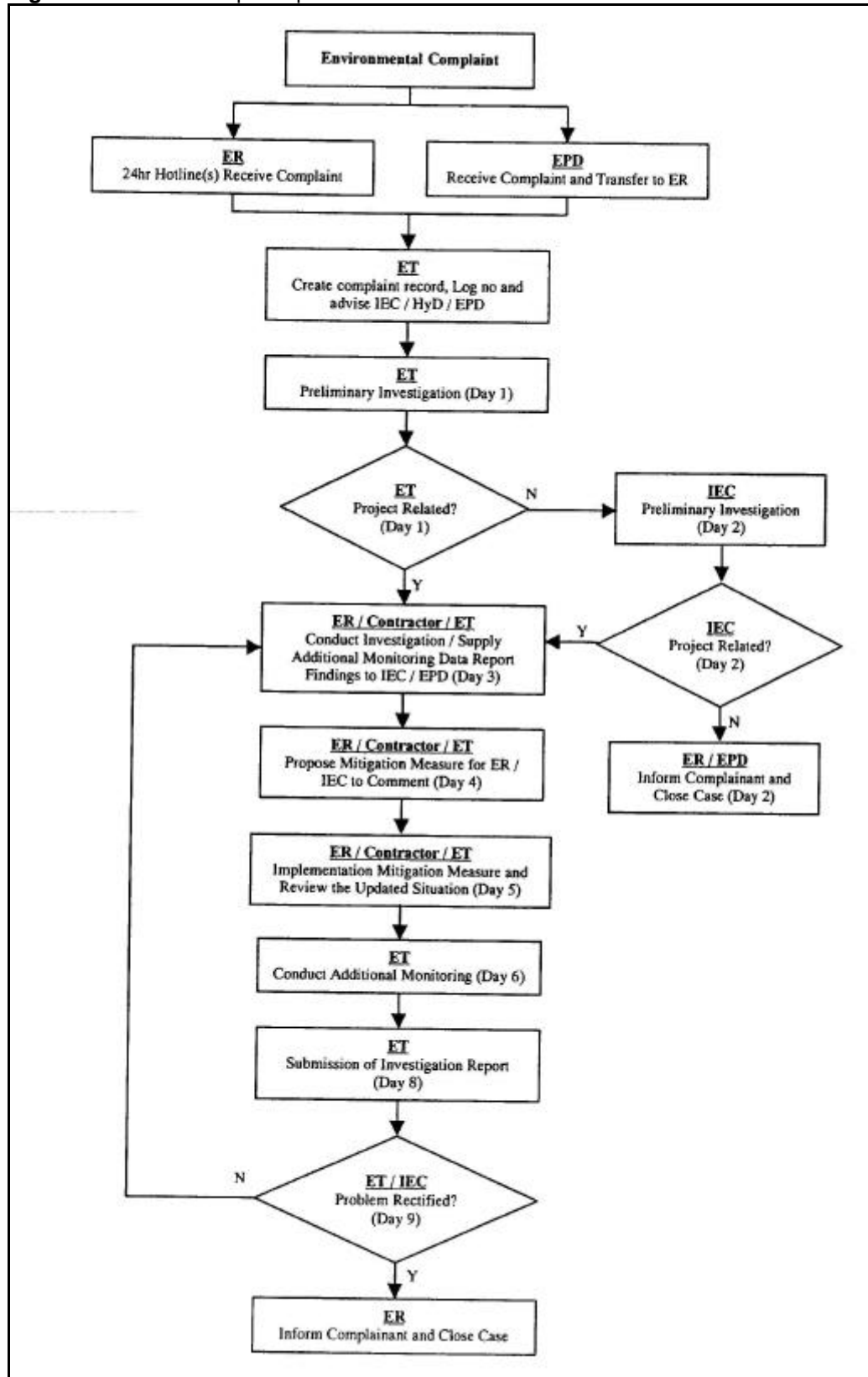
- a) The ET will record the details of the complaint and the date of receipt into the complaint database, and inform ER immediately.
- b) The ET will perform compliant investigation to determine its validity and to assess whether the source of the problem is due to work activities.
- c) The ER will instruct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

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

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

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

Figure 3-3: Complaint procedure



4 Noise Monitoring

4.1 Monitoring Equipment

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

Table 5-1: Equipment list for construction noise monitoring

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

4.2 Methodology

4.2.1 Occupancy Status of Grand Bay Villa

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

4.2.2 Field Measurement

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

4.2.3 Equipment Maintenance and Calibration

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

4.3 Results and Observations

4.3.1 Occupancy Status of Grand Bay Villa

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

5 Marine Water Quality Monitoring

5.1 Marine Water Quality Monitoring Equipment

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

Table 5-1: Marine water quality monitoring equipment

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

5.2 Methodology

5.2.1 DO, Temperature and Salinity Measuring Equipment

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

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

5.2.2 Tby Measurement Instrument

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

5.2.3 SS

The following equipment was used to monitor the SS:

- (1) 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.
- (2) 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 is illustrated in **Figures 5-1 to 5-8**.

Summary of Mid-Ebb Tide

The lowest DO level for surface & middle position of 5.44 mg/L was recorded at WWFCZ1 on 16 October 2007 and the lowest DO level for bottom position of 5.45 mg/L was recorded at WWA2 on 16 October 2007. There was no exceedance of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 7.9 Nephelometric Turbidity Unit (NTU) was recorded at WWA1 on 12 October 2007. There were 2 exceedances of Tby Limit Level on 12 October 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level of 27.2 mg/L was recorded at WWA1 on 12 October 2007. There were 13 exceedances of SS Baseline Check Level on 12, 13, 16, 18, 23, 25, 27 and 30 October 2007 and 1 exceedance of SS Limit Level on 12 October 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

Except for the exceedances on 12 October 2007, exceedances of SS levels on other days were likely attributed to natural variation of marine water quality and unidentified source.

Summary of Mid-Flood Tide

The lowest DO level for surface & middle position of 5.52 mg/L was recorded at WWA2 on 20 October 2007 and the lowest level for bottom position of 5.43 mg/L was recorded at WWFCZ2 on 25 October 2007. There was no exceedance of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 11.4 NTU was recorded at WWA3 on 12 October 2007 respectively. There was 1 exceedance of Tby Limit Level on 12 October 2007 during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level of 20.7 mg/L was recorded at WWFCZ2 on 30 October 2007. There were 4 exceedances of SS Baseline Check Criteria on 13 and 30 October 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

Except for the exceedances on 12 October 2007, exceedances of SS levels on other days were likely attributed to natural variation of marine water quality.

Figure 5-1: DO levels (surface and middle level) at mid-ebb tide in October 2007

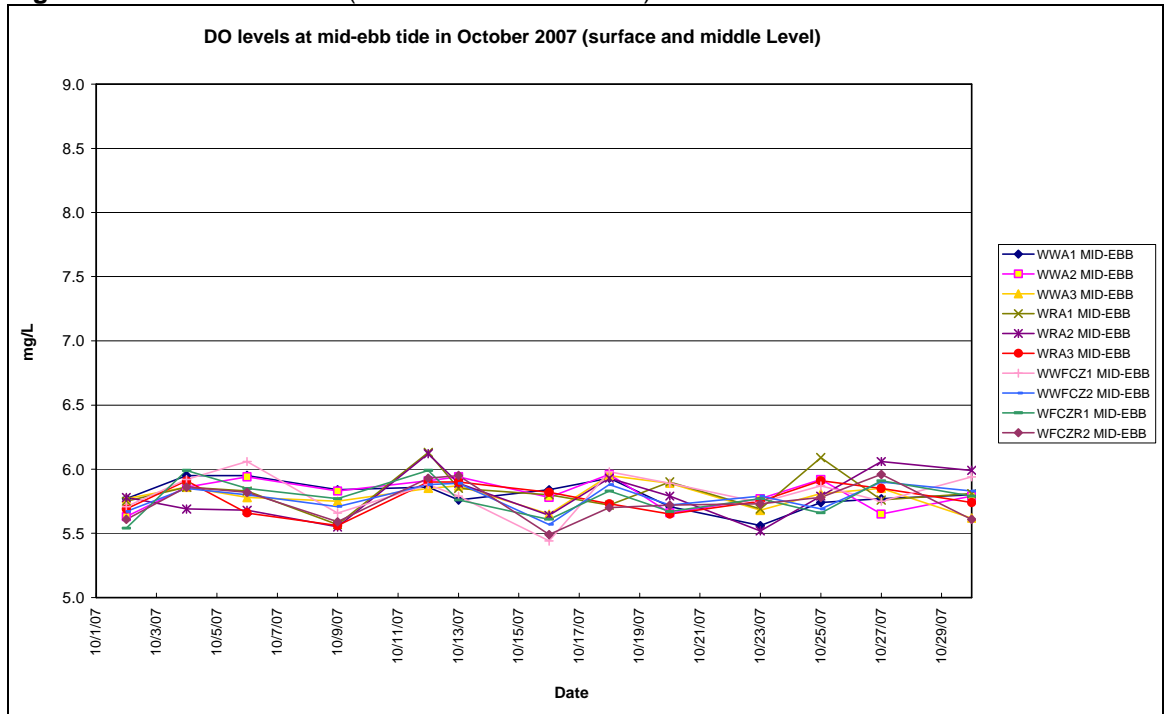


Figure 5-2: DO levels (bottom level) at mid-ebb tide in October 2007

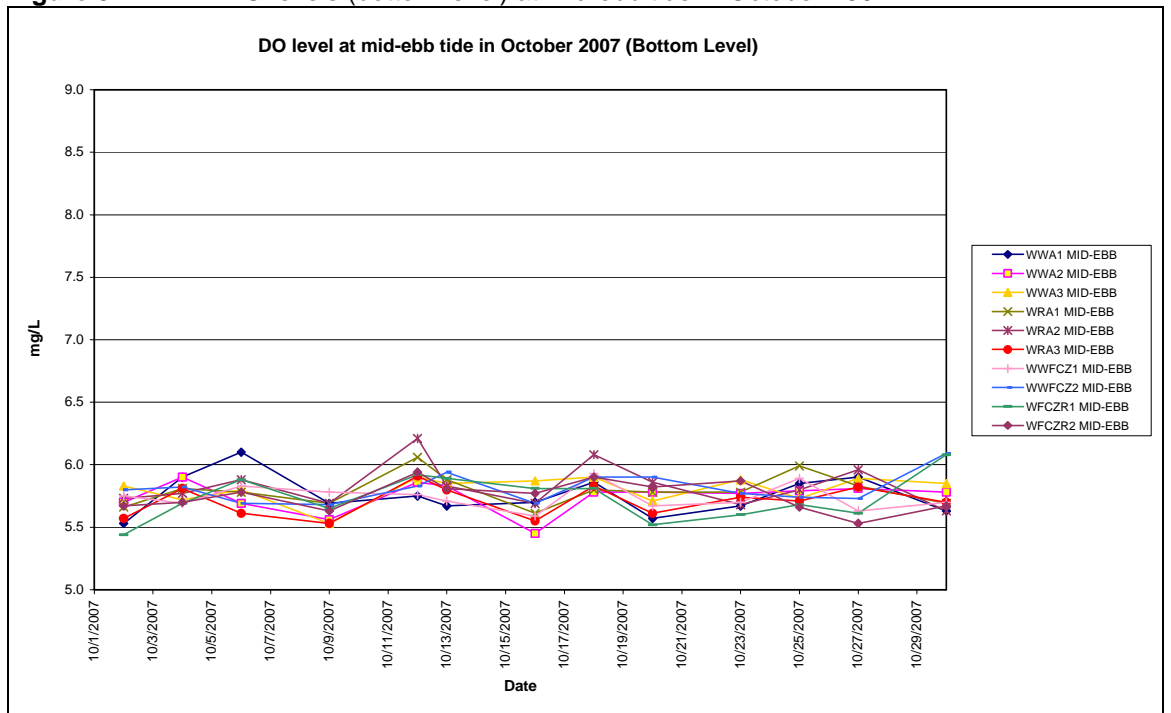


Figure 5-3: DO levels (surface and middle level) at mid-flood tide in October 2007

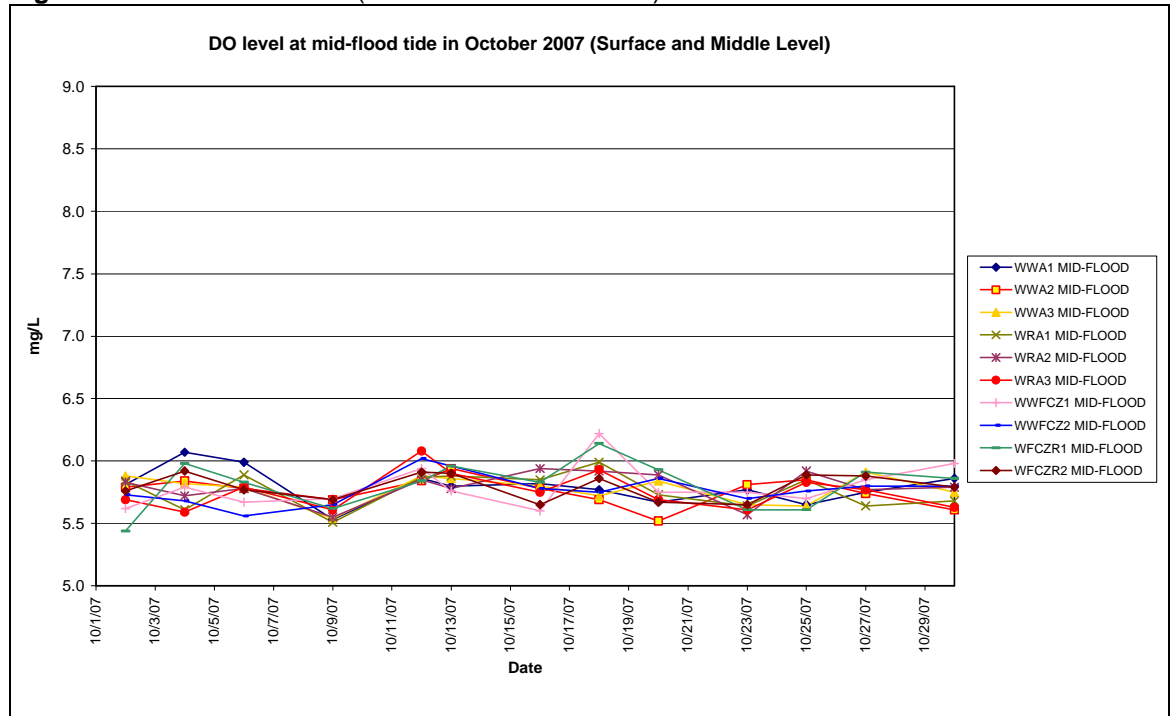


Figure 5-4: DO levels (bottom level) at mid-flood tide in October 2007

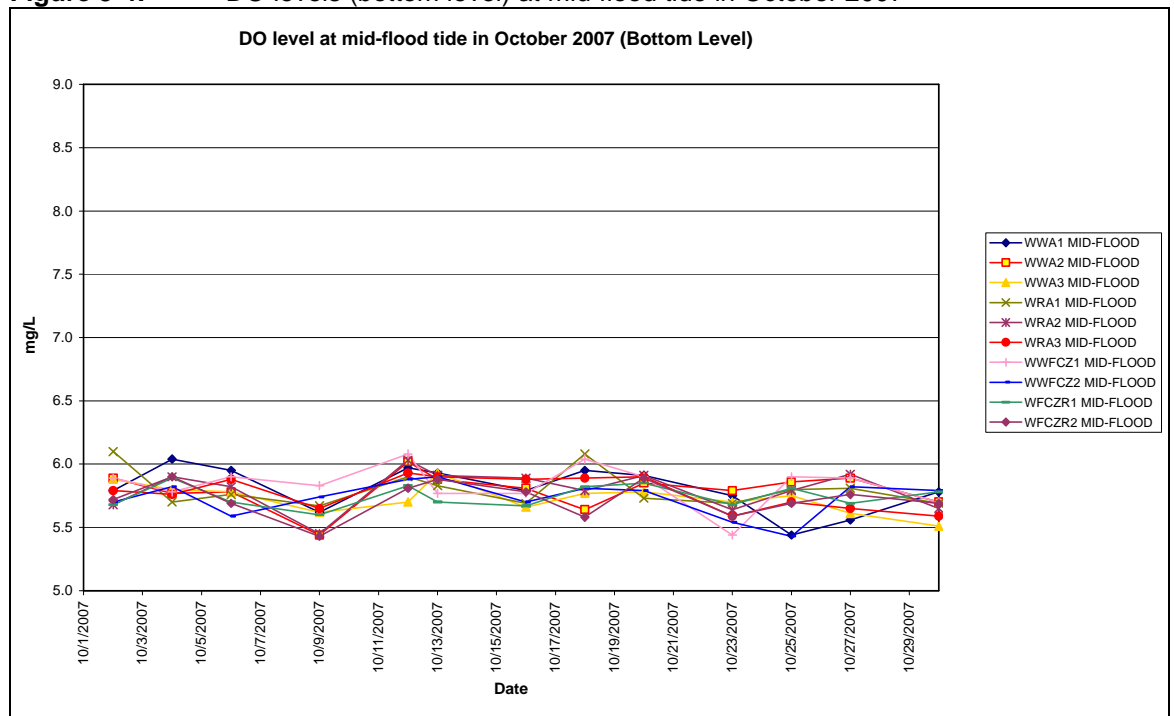


Figure 5-5: Turbidity levels at mid-ebb tide in October 2007

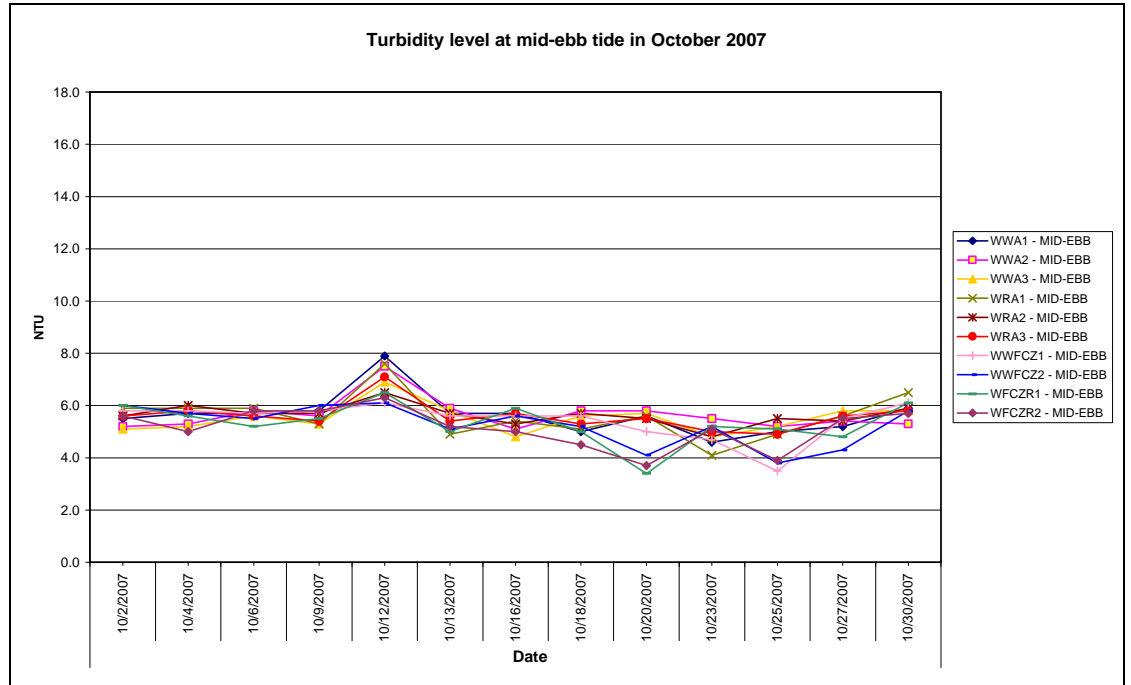


Figure 5-6: Turbidity levels at mid-flood tide in October 2007

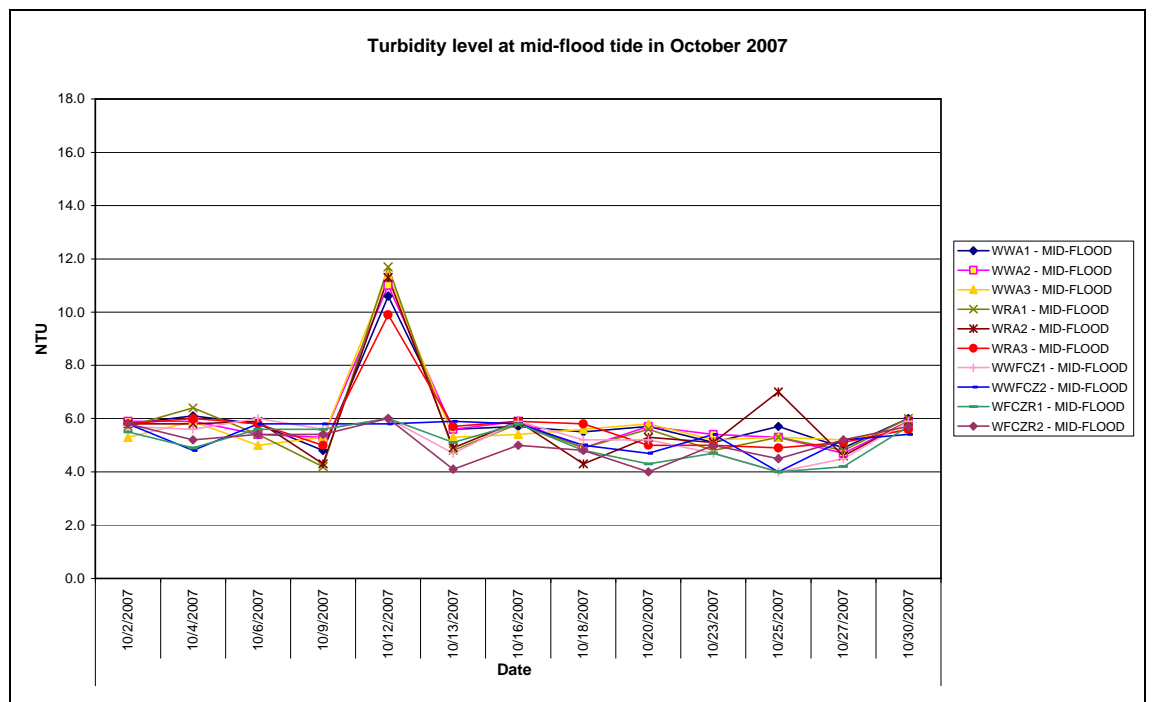


Figure 5-7: SS levels at mid-ebb tide in October 2007

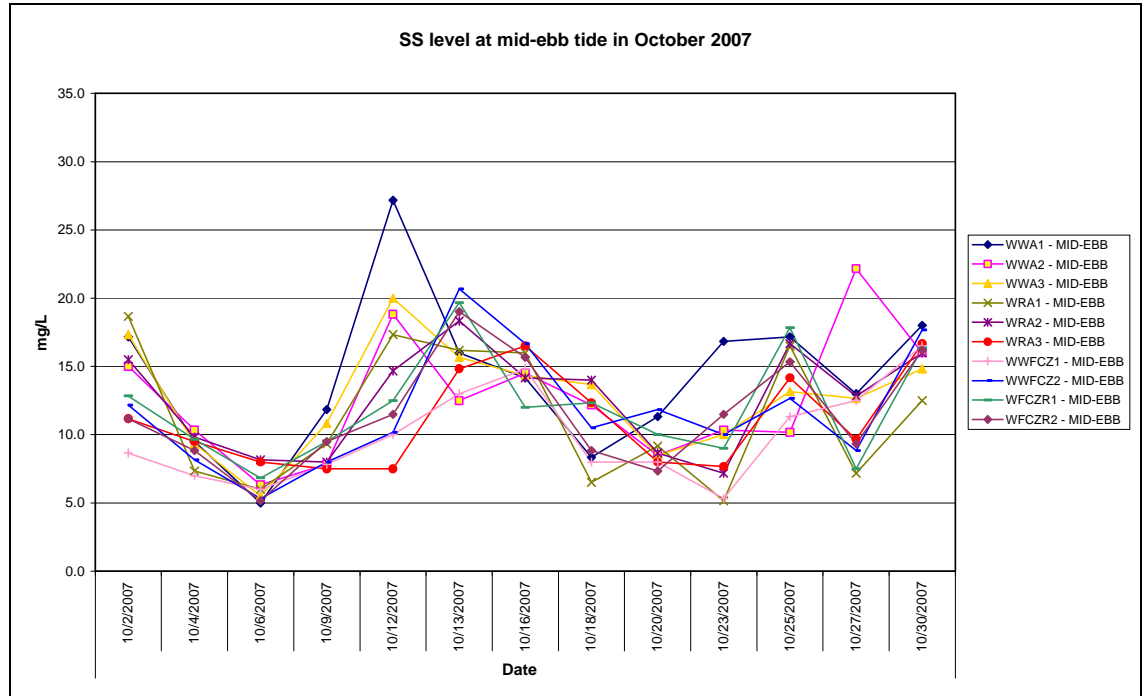
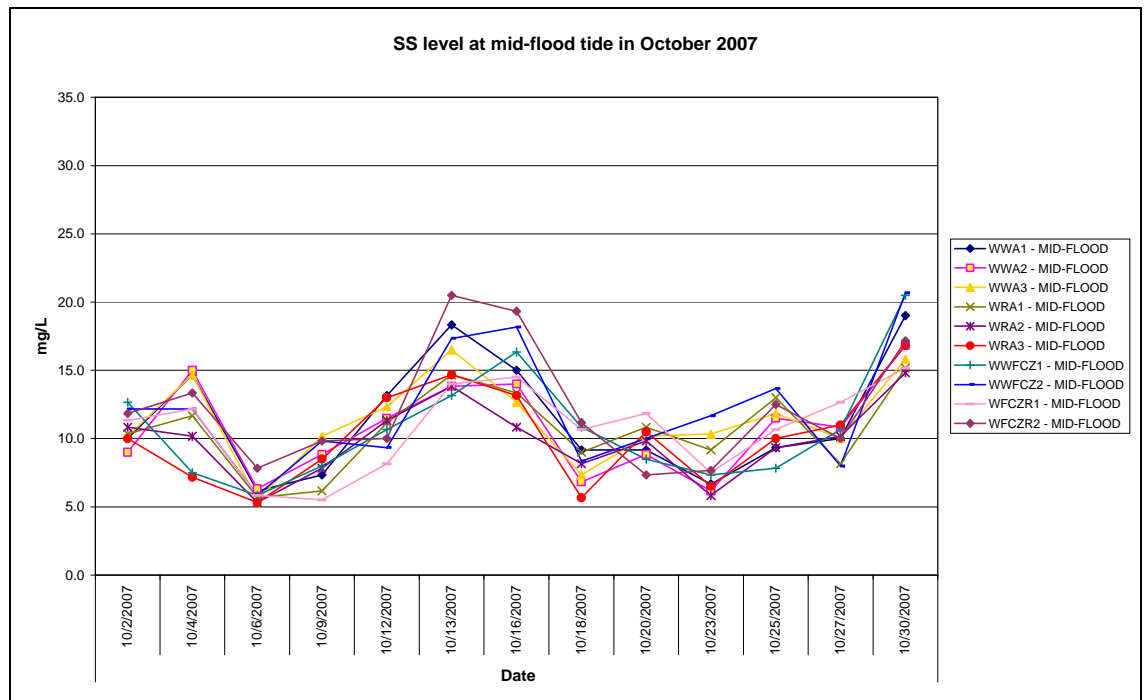


Figure 5-8: SS levels at mid-flood tide in October 2007



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

6.1 Site Audit Findings

Four weekly environmental site audits were carried out on 05, 12, 18 and 26 October 2007. The findings of the site audits are summarised in **Table 6-1**.

Table 6-1: Findings of weekly environmental site audit in October 2007

Date of Issue Raised	Observation	Advice from EA	CT's Response / Action	Closing Date
05 October 2007 (WTLT 088)	1. C&D waste was observed near outfall EA and EB.	CT was reminded to clear the waste.	Agreed with the ET's advice. CT had cleared the waste.	12 October 2007
	2. General refuse was observed outside GrandBay Villa.	CT was reminded to clear the refuse.	Agreed with the ET's advice. CT had cleared the waste.	12 October 2007
	3. Environmental Permit was not posted at Seawall A & B.	CT was reminded to post EP at all site exit.	Agreed with the ET's advice. CT had posted EP at Seawall A & B.	12 October 2007
12 October 2007 (WTLT 089)	1. Stockpile was not covered outside CT site office.	CT was reminded to cover the stockpile.	Agreed with the ET's advice. CT had covered the stockpile.	26 October 2007
	2. Unpaved area was observed dry outside CT site office.	CT was reminded to provide water spraying frequently.	Agreed with the ET's advice. CT had provided water spraying over unpaved area.	26 October 2007
	3. Muddy effluent was discharged from the sedimentation tank at ex-Maeda site office.	CT was reminded to clear the silt in the sedimentation tank frequently.	Agreed with the ET's advice. CT advised that the silt was cleared from the sedimentation tank. The effluent quality was observed acceptable.	26 October 2007
	4. C&D waste was observed along the lagging wall.	CT was reminded to clear the waste frequently.	Agreed with the ET's advice. CT had cleared majority of waste. However, accumulation of empty cement bags was observed along lagging wall in the reporting period.	On-going
	5. A small portion of C&D materials was observed near shore at Seawall B.	CT was reminded to clear C&D material and provide adequate mitigation measures to prevent muddy water discharged to the sea directly.	Agreed with the ET's advice. CT had cleared the C&D materials.	26 October 2007

Date of Issue Raised	Observation	Advice from EA	CT's Response / Action	Closing Date
18 October 2007 (WTLT 090)	1. Stagnant water was observed along the u-channel at seawall A.	CT was reminded to clear the stagnant water.	Agreed with the ET's advice. CT had cleared stagnant water.	26 October 2007
26 October 2007 (WTLT 091)	1. C&D waste was observed outside GrandBay Villa and u-channel at Seawall A.	CT was reminded to clear the waste.	Agreed with the ET's advice. C&D waste outside GrandBay Villa had been cleared, however, C&D waste had not been cleared along the u-channel at Seawall A.	On-going

6.2 Waste Disposal

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

Table 6-2: Waste disposal quantity in October 2007

Type of waste or material	Disposal at	No. of loads or quantities
C&D waste	WENT Landfill	63.4 tonnes
C&D material	By barge	0
	By truck	0
Chemical waste	Collected by licensed collector	0

6.3 Complaint Record

There was no environmental complaint received in October 2007.

6.4 Exceedance

Exceedances of T_{by} and SS levels for marine water quality were recorded during reporting period when compared with A/L Levels and baseline check criteria.

Investigation has been conducted for the exceedances. Exceedances on 12 October 2007 was likely attributed to removal of silt curtain at Seawall A near Grand Bay Villa, causing re-suspension of sediment. Exceedances of SS level recorded in other days were likely attributed to natural variation of marine water quality.

These exceedances are summarised in **Tables 6-3**. The details of the investigation was summarised in **Appendix E**. The details of the silt curtain inspection record were given in **Appendix F**.

Table 6-3: Summary of exceedances of marine water quality monitoring in October 2007

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
12-Oct	Mid-ebb	WWA1	7.6	7.9	Limit Level	17.3	27.2	Limit Level
12-Oct	Mid-ebb	WWA2	6.5	7.5	Limit Level	14.7	18.8	Baseline Check
12-Oct	Mid-ebb	WWA3	-	-	-	7.5	20.0	Baseline Check
12-Oct	Mid-flood	WWA3	9.9	11.4	Limit Level	-	-	-
13-Oct	Mid-ebb	WWA3	-	-	-	14.8	15.7	Baseline Check
13-Oct	Mid-flood	WWFCZ2	-	-	-	19.0	20.7	Baseline Check
16-Oct	Mid-ebb	WWA2	-	-	-	14.2	14.5	Baseline Check
16-Oct	Mid-ebb	WWFCZ1	-	-	-	12.0	14.8	Baseline Check
16-Oct	Mid-ebb	WWFCZ2	-	-	-	15.7	16.7	Baseline Check
18-Oct	Mid-ebb	WWA3	-	-	-	12.3	13.7	Baseline Check
23-Oct	Mid-ebb	WWA1	-	-	-	5.2	16.8	Baseline Check
25-Oct	Mid-ebb	WWA1	-	-	-	16.5	17.2	Baseline Check
27-Oct	Mid-ebb	WWA2	-	-	-	12.8	22.2	Baseline Check
30-Oct	Mid-ebb	WWA1	-	-	-	12.5	18.0	Baseline Check
30-Oct	Mid-ebb	WWFCZ1	-	-	-	16.3	16.5	Baseline Check
30-Oct	Mid-ebb	WWFCZ2	-	-	-	16.2	17.7	Baseline Check
30-Oct	Mid-flood	WWA1	-	-	-	15.2	19.0	Baseline Check
30-Oct	Mid-flood	WWFCZ1	-	-	-	15.2	20.5	Baseline Check
30-Oct	Mid-flood	WWFCZ2	-	-	-	17.2	20.7	Baseline Check

6.5 Notification of Summons and Successful Prosecution

No notification of summons and prosecution was received in October 2007.

6.6 Environmental Licenses

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

Table 6-4: Summary of valid environmental licences in October 2007

Type of Licence	Reference No.	Valid from	Valid to
Environmental Permit	EP-219/2005	20 Jun 2005	Not applicable
Registration of Chemical Waste Producer	5111-336-C2869-49	16 Feb 2006	Not applicable
Water Discharge Licence	EP760/336/011348 I	31 Mar 2006	31 Mar 2011

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.

The exceedances of Tby and SS recorded on 12 October 2007 were due to the removal of silt curtain at Seawall A near Grand Bay Villa, causing re-suspension of sediment. The remaining exceedances of Tby and SS level recorded in the reporting period were likely due to natural variation of marine water.

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

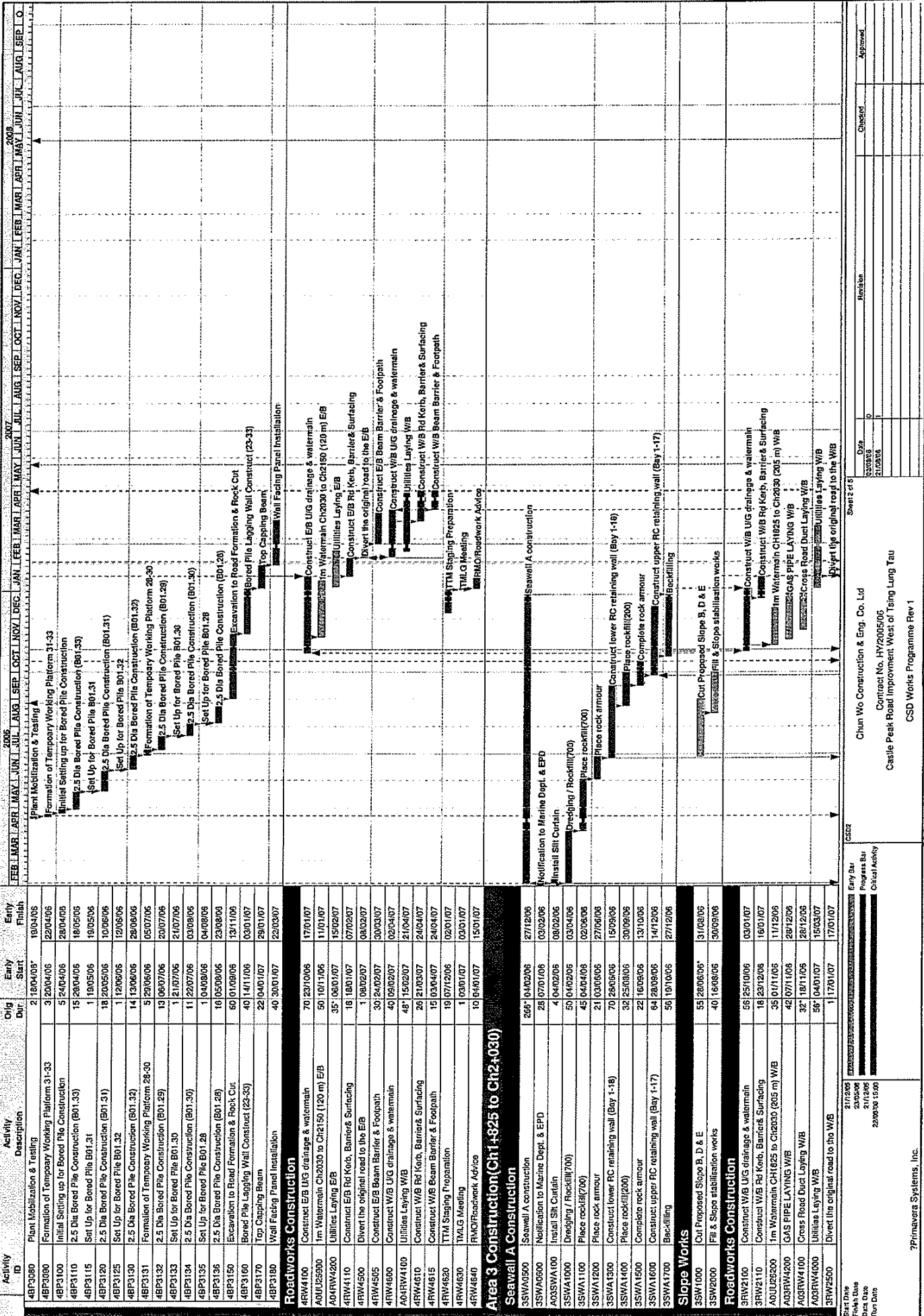
Weekly environmental site audit was carried out during the reporting month. Environmental mitigation measures on air quality, water quality and waste management have been recommended.

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

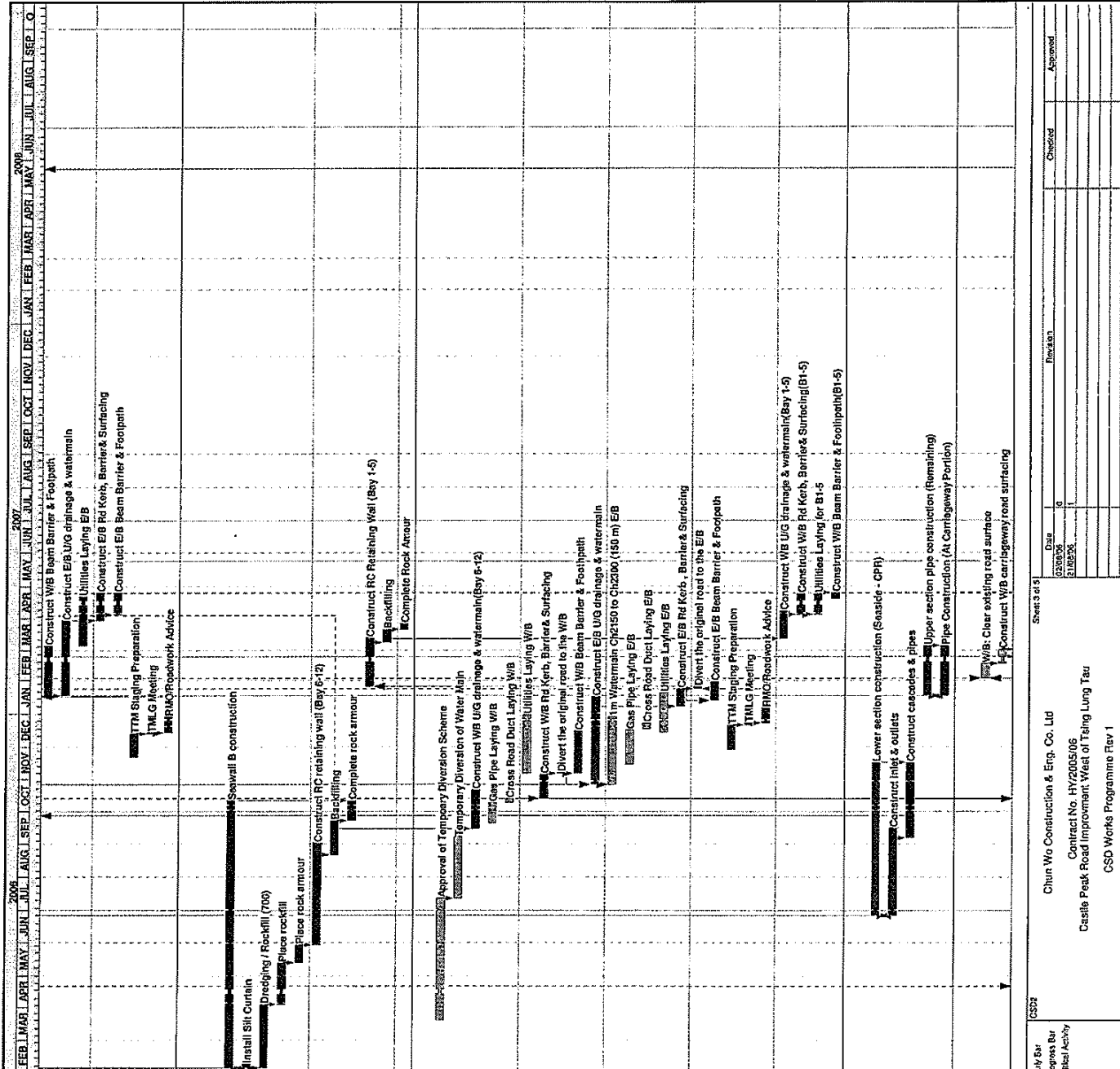
8 References

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

Appendix A
**Construction
programme**



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
4BP3080	Plant Mobilization & Testing	21	16/04/06	16/04/06
4BP3100	Formation of Temporary Working Platform 31-33	3	22/04/06	22/04/06
4BP3110	Initial Setting up for Bored Pile Construction	5	26/04/06	28/04/06
4BP3115	2.5 Dia Bored Pile Construction (B01.33)	15	26/04/06	10/05/06
4BP3120	Set Up for Bored Pile B01.31	1	19/05/06	19/05/06
4BP3125	2.5 Dia Bored Pile Construction (B01.31)	18	20/05/06	10/06/06
4BP3130	Set Up for Bored Pile B01.32	1	12/06/06	12/06/06
4BP3135	2.5 Dia Bored Pile Construction (B01.32)	14	13/06/06	28/06/06
4BP3140	Formation of Temporary Working Platform 28-30	5	29/06/06	05/07/06
4BP3145	2.5 Dia Bored Pile Construction (B01.29)	13	06/07/06	20/07/06
4BP3150	Set Up for Bored Pile B01.30	1	21/07/06	21/07/06
4BP3155	2.5 Dia Bored Pile Construction (B01.30)	11	22/07/06	03/08/06
4BP3160	Set Up for Bored Pile B01.28	1	04/08/06	04/08/06
4BP3165	2.5 Dia Bored Pile Construction (B01.28)	16	05/08/06	23/08/06
4BP3170	Excavation to Road Formation & Rock Cut	60	01/09/06	13/11/06
4BP3175	Bored Pile Lagging Wall Construct (23-23)	40	14/11/06	03/01/07
4BP3180	Top Capping Beam	22	04/01/07	26/01/07
4BP3185	Wall Facing Panel Installation	40	30/01/07	22/03/07
Roadworks Construction				
4RW4100	Construct E/B U/G drainage & watermain	70	23/01/06	17/01/07
A00U25900	1m Watermain Ch2030 to Ch1850 (120 m) E/B	50	10/11/06	11/01/07
A04RW4200	Utilities Laying E/B	35	06/01/07	15/02/07
4RW4110	Construct E/B Rd Kerb, Barriers & Surfacing	18	18/01/07	07/02/07
4RW4500	Divert the original road to the E/B	1	08/02/07	08/02/07
4RW4505	Construct E/B Beam Barrier & Footpath	30	24/02/07	30/03/07
4RW4600	Construct W/B U/G drainage & watermain	40	09/03/07	02/04/07
A00RW4100	Utilities Laying W/B	48	15/03/07	21/04/07
4RW4610	Construct W/B Rd Kerb, Barriers & Surfacing	20	21/03/07	24/04/07
4RW4615	Construct W/B Beam Barrier & Footpath	15	03/04/07	24/04/07
4RW4620	TTM Staging Preparation	19	07/12/06	02/01/07
4RW4630	TRAG Meeting	1	03/01/07	03/01/07
4RW4640	RMQ/Readwork Advice	10	04/01/07	15/01/07
Area 3 Construction (Ch1 1825 to Ch2+030)				
Seawall A Construction				
3SWA0500	Seawall A construction	205	01/02/06	27/12/06
3SWA0500	Notification to Marine Dept. & EPD	28	07/01/06	03/02/06
A03SWA100	Install Silt Curtain	4	04/02/06	08/02/06
3SWA1000	Dredging / Rockfill (700)	50	01/02/06	03/04/06
3SWA1100	Place rockfill (700)	45	04/04/06	02/06/06
3SWA1200	Place rock armour	21	03/06/06	27/06/06
3SWA1300	Construct lower RC retaining wall (Bay 1-18)	70	28/06/06	15/09/06
3SWA1400	Place rockfill (200)	32	25/08/06	30/09/06
3SWA1500	Complete rock armour	22	16/08/06	13/10/06
3SWA1600	Construct upper RC retaining wall (Bay 1-17)	84	28/09/06	14/12/06
3SWA1700	Backfilling	55	19/10/06	27/12/06
Slope Works				
3SW1000	Cut Proposed Slope B, D & E	55	28/06/06	31/08/06
3SW2000	Fill & Slope stabilisation works	40	16/08/06	30/09/06
Roadworks Construction				
3RW2100	Construct W/B U/G drainage & watermain	58	25/10/06	03/01/07
3RW2110	Construct W/B Rd Kerb, Barriers & Surfacing	18	29/12/06	16/01/07
A00U25200	1m Watermain CH1825 to Ch2030 (205 m) W/B	35	01/11/06	11/12/06
A03RW4200	GAS PIPE LAYING W/B	48	07/11/06	28/12/06
A03RW4100	Cross Road Duct Laying W/B	32	18/11/06	28/12/06
A03RW4000	Utilities Laying W/B	55	04/01/07	15/03/07
3RW2500	Divert the original road to the W/B	1	17/01/07	17/01/07



Activity ID	Activity Description	Orig Dir	Early Start	Early Finish
3RW2505	Construct W/B Beam Barrier & Footpath	35	18/01/07	05/03/07
3RW2600	Construct E/B U/G drainage & watermain	56	18/01/07	29/03/07
3RW2605	Utilities Laying E/B	35*	06/03/07	20/04/07
3RW2608	Construct E/B Rd Kerb, Barriers & Surfacing	18	30/03/07	24/04/07
3RW2610	Construct E/B Beam Barrier & Footpath	14	04/04/07	24/04/07
3RW2620	T/M Sighting Preparation	19	21/11/06	12/12/06
3RW2630	T/M LG Meeting	1	13/12/06	13/12/06
3RW2635	RMO Roadwork Advice	10	14/12/06	28/12/06
Area 5 Construction (Ch2+150 to Ch2-300)				
2SWB2000	Seawall B construction	204*	04/02/06	11/10/06
AG2SWB100	Install Silt Curtain	3	04/02/06	07/02/06
2SWB1000	Dredging / Rockfill (700)	59	04/02/06	03/04/06
2SWB1100	Place rockfill	28	04/04/06	12/05/06
2SWB1200	Place rock armour	14	13/05/06	29/05/06
2SWB1300	Construct RC retaining wall (Bay 6-12)	80	30/05/06	01/09/06
2SWB1400	Backfilling	28	22/09/06	22/09/06
2SWB1500	Complete rock armour	14	23/09/06	11/10/06
AG2SWB0300	Construct RC Retaining Wall (Bay 1-5)	35	23/01/07	13/03/07
AG2SWB1000	Backfilling	15	09/03/07	26/03/07
AG2SWB1100	Complete Rock Armour	5	21/03/07	26/03/07
Roadworks Construction				
AG2RW0100	Approval of Temporary Diversion Scheme	50	22/03/06*	11/07/06
AG2RW0500	Temporary Diversion of Water Main	50	12/07/06	07/08/06
2RW3000	Construct W/B U/G drainage & watermain (Bay 6-12)	30	15/08/06	21/10/06
AG2RW1800	Gas Pipe Laying W/B	14	21/08/06	09/10/06
AG2RW1800	Cross Road Duct Laying W/B	4*	10/10/06	13/10/06
AG2RW1800	Utilities Laying W/B	45*	05/11/06	30/12/06
2RW3010	Construct W/B Rd Kerb, Barriers & Surfacing	18	14/10/06	04/11/06
2RW3501	Divert the original road to the W/B	1	06/11/06	06/11/06
2RW3510	Construct W/B Beam Barrier & Footpath	35	06/11/06	15/12/06
2RW3600	Construct E/B U/G drainage & watermain	65	27/10/06	16/01/07
AG2RW2600	1m Watermain Ch2150 to Ch2300 (150 m) E/B	50	27/10/06	28/12/06
AG2RW2100	Gas Pipe Laying E/B	28	15/11/06	16/12/06
AG2RW2000	Cross Road Duct Laying E/B	4*	18/12/06	23/12/06
AG2RW1700	Utilities Laying E/B	28*	15/12/06	20/01/07
2RW3610	Construct E/B Rd Kerb, Barriers & Surfacing	15	08/01/07	24/01/07
2RW3620	Divert the original road to the E/B	1	25/01/07	25/01/07
2RW3700	Construct E/B Beam Barrier & Footpath	15	13/01/07	30/01/07
2RW3710	T/M Sighting Preparation	19	29/11/06	21/12/06
2RW3720	T/M LG Meeting	1	22/12/06	22/12/06
2RW3730	RMO Roadwork Advice	10	23/12/06	06/01/07
AG2RW1100	Construct W/B U/G drainage & watermain (Bay 1-5)	22	13/03/07	07/04/07
AG2RW1300	Construct W/B Rd Kerb, Barriers & Surfacing (B1-5)	13	04/04/07	23/04/07
AG2RW1200	Utilities Laying for B1-5	13	04/04/07	23/04/07
AG2RW1400	Construct W/B Beam Barrier & Footpath (B1-5)	5	19/04/07	24/04/07
OUTFALL EA & EB CONSTRUCTION				
3OF1000	Lower section construction (Seaside - CPP)	120*	28/03/06	16/11/06
3OF1100	Construct Inlet & outlets	70	28/03/06	15/09/06
3OF1200	Construct casacade & pipes	58	07/09/06	16/11/06
3OF2000	Upper section pipe construction (Remaining)	35*	18/01/07	05/03/07
3OF2100	Pipe Construction (At Carriageway Portion)	35	18/01/07	05/03/07
Area 1 Construction (Ch1-600 to Ch1+705)				
5RW0500	WB: Clear existing road surface	12	03/02/07	16/02/07
5RW1500	Construct W/B carriageway road surfacing	6	17/02/07	01/03/07

Sheet Date: 21/12/05
 Finish Date: 23/05/06
 Case Date: 21/12/05
 Run Date: 26/05/06 15:00

CS23
 Chlun Wo Construction & Eng. Co. Ltd
 Contract No. HY2005/06
 Casale Peak Road Improvement West of Tsing Lung Tau
 CSD Works Programme Rev 1

2P/Innovate Systems, Inc.

Checked: _____
 Approved: _____
 Date: 22/03/06
 21/12/05

Appendix B

**Monitoring schedule for
October 2007 and
November 2007**

Environmental Monitoring and Audit Schedule - October 2007

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

Oct-2007						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7	1	2	3	4	5	6
	8	MW	10	MW	Site Inspection	MW
14	15	MW	17	18	MW	MW
				Site Inspection	19	20
21	22	MW	24	MW	26	MW
					Site Inspection	
28	29	MW	31	MW		MW
		MW				

Tentative Environmental Monitoring and Audit Schedule - November 2007

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

Nov-2007						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Appendix C

**Calibration certificates
of marine water
monitoring equipment**



**Hong Kong
Productivity Council**
香港生產力促進局

Environmental Management Division

CALIBRATION REPORT

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

Report No. : CR 000079
Page No. : 1 of 5
Issue Date : 17/07/2007

Received Date : 10/07/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 17/07/2007

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument
Serial No. : 99 G0526 AJ
Calibration Method : APHA 18c 2520 A & B
Date of Calibration : 10/07/2007
Results :

Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.2
15	14.6
35	33.2
39.3	37.4

Approval Signatory:



**Hong Kong
Productivity Council**
香港生產力促進局

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 000079
Page No. : 2 of 5
Issue Date : 17/07/2007

Received Date : 10/07/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 17/07/2007

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument
Serial No. : 99 G0526 AJ
Calibration Method : In house method
Date of Calibration : 10/07/2007
Results: :

Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	11.0
20.0	20.9
30.0	31.0
40.0	41.1

Approval Signatory:



**Hong Kong
Productivity Council**
香港生產力促進局

Environmental Management Division

CALIBRATION REPORT

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

Report No. : CR 000079
Page No. : 3 of 5
Issue Date : 17/07/2007

Received Date : 10/07/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 17/07/2007

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument
Serial No. : 99 G0526 AJ
Calibration Method : APHA 18e 4500-O A, B, C & D
Date of Calibration : 17/07/2007
Results :

Dissolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
2.80	3.39
4.15	4.65
6.50	7.04
7.80	7.96
8.70	8.67

Approval Signatory:



**Hong Kong
Productivity Council**
香港生產力促進局

Environmental Management Division

CALIBRATION REPORT

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

Report No. : CR 000079
Page No. : 4 of 5
Issue Date : 17/07/2007

Received Date : 10/07/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 17/07/2007

Calibration Results:

Item : HACH 2100P Turbidimeter
Serial No. : 011100024354
Calibration Method : APHA 18e 2130 B
Date of Calibration : 12/07/2007
Results: :

Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0.18
2	2.06
4	3.78
16	15.7
40	37.8
80	77.1

Approval Signatory:



**Hong Kong
Productivity Council**
香港生產力促進局

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 000079
Page No. : 5 of 5
Issue Date : 17/07/2007

Received Date : 10/07/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 17/07/2007

Calibration Results:

Item : HANNA instrument HI 1270 pH meter
Serial No. : S354547
Calibration Method : In house method
Date of Calibration : 17/07/2007
Results: :

pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4.01	4.01
7.00	7.03
10.0	10.03

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 000081
Page No. : 1 of 5
Issue Date : 09/10/2007

Received Date : 08/10/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 09/10/2007

Calibration Results:

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

Serial No. : 99 G0526 AJ

Calibration Method : APHA 18e 2520 A & B

Date of Calibration : 09/10/2007

Results: :

Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.2
15	14.5
35	33.4
39.3	37.5

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 000081
Page No. : 2 of 5
Issue Date : 09/10/2007

Received Date : 08/10/2007

Completion Date : 09/10/2007

Approved Signatory : Fung Kam Wing

Remarks :

Calibration Results:

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

Serial No. : 99 G0526 AJ

Calibration Method : In house method

Date of Calibration : 09/10/2007

Results :

Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	10.9
20.0	20.8
30.0	31.0
40.0	41.0

Approval Signatory:



CALIBRATION REPORT

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

Report No. : CR 000081
Page No. : 3 of 5
Issue Date : 09/10/2007

Received Date : 08/10/2007

Completion Date : 09/10/2007

Approved Signatory : Fung Kam Wing

Remarks :

Calibration Results:

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

Serial No. : 99 G0526 AJ

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

Date of Calibration : 09/10/2007

Results: :

Dissolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
3.50	3.73
5.60	5.64
6.65	6.56
7.65	7.39
8.65	8.62

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 000081
Page No. : 4 of 5
Issue Date : 09/10/2007

Received Date : 08/10/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 09/10/2007

Calibration Results:

Item : HACH 2100P Turbidimeter
Serial No. : 011100024354
Calibration Method : APHA 18c 2130 B
Date of Calibration : 09/10/2007

Results: :

Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0.18
2	2.20
4	3.71
16	15.3
40	37.9
80	77.8

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 000081
Page No. : 5 of 5
Issue Date : 09/10/2007

Received Date : 08/10/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 09/10/2007

Calibration Results:

Item : HANNA instrument III 1270 pH meter

Serial No. : S354547

Calibration Method : In house method

Date of Calibration : 09/10/2007

Results: :

pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4.01	4.05
7.00	7.09
10.0	10.08

Approval Signatory:

Appendix D
**Marine water quality
monitoring results**

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
 Marine Water Quality Impact Monitoring - October 2007

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	2-Oct-07	15:24	7.00	26.7	5.84	5.77	5.77	88.4	87.7	8.2	23.7	5.9	5.7	5.5	20.5	17.2
2	WWA1	M	MID-EBB	2-Oct-07			26.8	5.82	5.65		88.3	87.8	8.2	23.9	5.8	5.8		13.5	
3	WWA1	B	MID-EBB	2-Oct-07			26.8	5.54	5.51		5.53	88.9	88.1	8.2	23.9	4.9		5.0	
4	WWA2	S	MID-EBB	2-Oct-07	15:09	7.00	27.0	5.59	5.53	5.63	89.3	87.9	8.2	23.7	5.1	5.2	5.2	14.5	15.0
5	WWA2	M	MID-EBB	2-Oct-07			26.9	5.71	5.68		88.5	88.1	8.2	23.9	5.4	5.2		14.5	
6	WWA2	B	MID-EBB	2-Oct-07			27.0	5.72	5.67		5.70	89.7	87.8	8.2	24.1	5.1		5.0	
7	WWA3	S	MID-EBB	2-Oct-07	14:55	6.00	26.8	5.83	5.81	5.77	89.3	87.1	8.2	23.9	5.2	5.2	5.1	17.0	17.3
8	WWA3	M	MID-EBB	2-Oct-07			26.9	5.74	5.71		88.7	87.2	8.2	24.1	4.9	4.8		15.5	
9	WWA3	B	MID-EBB	2-Oct-07			26.9	5.84	5.82		5.83	87.7	86.3	8.2	23.9	5.2		5.1	
10	WRA1	S	MID-EBB	2-Oct-07	15:36	34.00	27.1	5.84	5.77	5.75	87.3	86.9	8.2	23.7	6.1	6.0	5.9	26.0	18.7
11	WRA1	M	MID-EBB	2-Oct-07			27.3	5.72	5.68		88.3	87.4	8.2	23.8	5.9	5.8		17.5	
12	WRA1	B	MID-EBB	2-Oct-07			27.1	5.69	5.63		5.66	87.6	86.3	8.2	23.7	5.8		5.6	
13	WRA2	S	MID-EBB	2-Oct-07	15:53	34.00	26.9	5.71	5.67	5.78	87.4	87.1	8.2	23.9	5.5	5.6	5.6	20.0	15.5
14	WRA2	M	MID-EBB	2-Oct-07			27.1	5.92	5.83		87.0	86.4	8.2	23.8	5.7	5.8		15.0	
15	WRA2	B	MID-EBB	2-Oct-07			27.0	5.74	5.71		5.73	87.4	86.3	8.2	23.8	5.4		5.3	
16	WRA3	S	MID-EBB	2-Oct-07	16:05	32.00	27.0	5.79	5.73	5.69	88.7	87.1	8.2	23.9	5.6	5.8	6.0	15.0	11.2
17	WRA3	M	MID-EBB	2-Oct-07			27.0	5.64	5.61		87.4	86.6	8.2	24.1	5.4	5.4		8.5	
18	WRA3	B	MID-EBB	2-Oct-07			26.9	5.59	5.54		5.57	88.1	87.4	8.2	24.0	5.8		5.7	
19	WWFCZ1	S	MID-EBB	2-Oct-07	16:45	38.00	26.9	5.61	5.59	5.71	87.4	86.3	8.2	24.1	5.8	5.7	5.8	8.5	8.7
20	WWFCZ1	M	MID-EBB	2-Oct-07			27.1	5.84	5.81		88.1	87.2	8.2	24.1	5.6	5.9		9.0	
21	WWFCZ1	B	MID-EBB	2-Oct-07			27.1	5.78	5.71		5.75	87.7	86.4	8.2	24.2	5.8		6.0	
22	WWFCZ2	S	MID-EBB	2-Oct-07	16:31	40.00	27.2	5.67	5.64	5.67	88.3	87.4	8.2	24.0	6.0	6.1	6.0	12.5	12.2
23	WWFCZ2	M	MID-EBB	2-Oct-07			26.9	5.74	5.63		87.9	87.1	8.2	23.9	5.9	5.8		13.0	
24	WWFCZ2	B	MID-EBB	2-Oct-07			26.8	5.81	5.79		5.80	87.9	86.3	8.2	23.9	6.1		6.0	
25	WFCZR1	S	MID-EBB	2-Oct-07	17:02	38.00	27.0	5.74	5.71	5.54	87.1	86.3	8.2	24.1	5.9	5.9	6.0	11.0	12.8
26	WFCZR1	M	MID-EBB	2-Oct-07			27.1	5.43	5.29		87.4	86.7	8.2	23.7	6.0	5.9		10.5	
27	WFCZR1	B	MID-EBB	2-Oct-07			27.1	5.47	5.41		5.44	87.6	86.2	8.2	23.7	6.1		6.1	
28	WFCZR2	S	MID-EBB	2-Oct-07	16:18	41.00	27.2	5.54	5.43	5.61	89.1	86.3	8.2	24.1	5.7	5.8	5.6	12.5	11.2
29	WFCZR2	M	MID-EBB	2-Oct-07			27.2	5.79	5.69		87.2	87.1	8.2	24.1	5.4	5.4		9.5	
30	WFCZR2	B	MID-EBB	2-Oct-07			27.3	5.70	5.63		5.67	88.4	87.2	8.2	23.8	6.8		5.6	
31	WWA1	S	MID-FLOOD	2-Oct-07	10:08	7.00	27.0	5.95	5.89	5.81	86.1	87.7	8.2	23.9	5.8	5.6	5.8	12.5	10.0
32	WWA1	M	MID-FLOOD	2-Oct-07			26.8	5.71	5.69		87.6	87.1	8.2	24.1	5.9	5.8		5.5	
33	WWA1	B	MID-FLOOD	2-Oct-07			26.8	5.83	5.74		5.79	88.4	88.9	8.2	23.9	6.0		5.9	
34	WWA2	S	MID-FLOOD	2-Oct-07	9:53	6.00	27.1	5.79	5.73	5.79	88.4	87.3	8.2	23.7	6.1	6.1	5.9	8.0	9.0
35	WWA2	M	MID-FLOOD	2-Oct-07			26.9	5.83	5.79		86.3	85.8	8.2	23.8	5.7	5.8		9.5	
36	WWA2	B	MID-FLOOD	2-Oct-07			27.0	5.94	5.83		5.89	87.4	86.8	8.2	23.8	5.7		5.6	
37	WWA3	S	MID-FLOOD	2-Oct-07	9:41	6.00	27.0	5.82	5.76	5.88	89.1	88.3	8.2	23.6	5.2	5.3	5.3	9.5	10.2
38	WWA3	M	MID-FLOOD	2-Oct-07			26.9	6.01	5.94		88.4	87.1	8.2	24.1	5.2	5.2		11.5	
39	WWA3	B	MID-FLOOD	2-Oct-07			26.9	5.92	5.83		5.88	87.4	86.3	8.2	24.1	5.5		5.4	
40	WRA1	S	MID-FLOOD	2-Oct-07	10:23	34.00	26.7	5.86	5.77	5.84	87.1	86.2	8.2	23.4	5.5	5.6	5.7	11.0	10.3
41	WRA1	M	MID-FLOOD	2-Oct-07			26.7	5.96	5.78		87.7	86.8	8.2	23.6	5.9	5.8		9.5	
42	WRA1	B	MID-FLOOD	2-Oct-07			26.9	6.13	6.07		6.10	87.3	86.6	8.2	23.9	5.7		5.7	
43	WRA2	S	MID-FLOOD	2-Oct-07	10:38	34.00	26.9	6.04	5.92	5.83	88.1	87.4	8.2	23.6	5.6	5.6	5.8	11.5	10.8
44	WRA2	M	MID-FLOOD	2-Oct-07			27.1	5.74	5.63		88.3	86.7	8.2	23.7	5.8	5.8		11.0	
45	WRA2	B	MID-FLOOD	2-Oct-07			27.1	5.72	5.64		5.68	88.9	86.6	8.2	23.7	6.0		6.1	

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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	
46	WRA3	S	MID-FLOOD	2-Oct-07	10:51	33.00	26.9	5.98	5.79	5.69	87.7	85.4	8.2	23.9	6.0	5.9	5.8	10.5	10.0	
47	WRA3	M	MID-FLOOD	2-Oct-07			27.0	5.51	5.48		87.4	86.3	8.2	24.0	5.7	5.7		10.0		
48	WRA3	B	MID-FLOOD	2-Oct-07			27.0	5.82	5.76		5.79	89.2	87.4	8.2	23.6	5.7		5.5		9.5
49	WWFCZ1	S	MID-FLOOD	2-Oct-07	11:37	38.00	27.3	5.51	5.48	5.62	87.1	86.6	8.2	24.6	5.7	5.7	5.7	14.0	12.7	
50	WWFCZ1	M	MID-FLOOD	2-Oct-07			27.4	5.76	5.71		87.4	85.9	8.2	24.7	5.7	5.6		12.0		
51	WWFCZ1	B	MID-FLOOD	2-Oct-07			27.4	5.94	5.83		5.89	88.4	87.6	8.2	24.3	5.9		5.8		12.0
52	WWFCZ2	S	MID-FLOOD	2-Oct-07	11:21	40.00	27.2	5.91	5.84	5.73	87.2	86.7	8.2	24.8	6.0	6.1	5.8	11.0	12.2	
53	WWFCZ2	M	MID-FLOOD	2-Oct-07			27.1	5.67	5.49		87.1	86.7	8.2	24.7	5.9	5.8		14.0		
54	WWFCZ2	B	MID-FLOOD	2-Oct-07			26.9	5.71	5.68		5.70	88.3	87.6	8.2	24.4	5.4		5.5		11.5
55	WFCZR1	S	MID-FLOOD	2-Oct-07	11:43	38.00	27.2	5.47	5.41	5.44	87.4	86.3	8.2	24.9	5.7	5.6	5.5	12.0	11.8	
56	WFCZR1	M	MID-FLOOD	2-Oct-07			27.2	5.49	5.39		5.44	89.8	87.1	8.2	24.2	5.5		5.3		11.0
57	WFCZR1	B	MID-FLOOD	2-Oct-07			27.3	5.71	5.64		5.68	88.1	86.8	8.2	24.2	5.6		5.5		11.0
58	WFCZR2	S	MID-FLOOD	2-Oct-07	10:59	41.00	27.3	5.84	5.81	5.76	89.2	87.4	8.2	24.7	5.8	5.9	5.8	14.0	11.8	
59	WFCZR2	M	MID-FLOOD	2-Oct-07			26.9	5.73	5.64		5.76	89.3	87.8	8.2	24.3	5.9		6.0		8.5
60	WFCZR2	B	MID-FLOOD	2-Oct-07			27.1	5.74	5.69		5.72	88.3	87.1	8.2	24.2	5.7		5.6		13.0
61	WWA1	S	MID-EBB	4-Oct-07	9:00	7.90	28.0	6.13	6.04	5.95	91.2	89.3	8.2	24.3	5.9	5.8	5.7	11.0	9.5	
62	WWA1	M	MID-EBB	4-Oct-07			27.9	5.86	5.75		88.4	87.2	8.2	24.1	5.5	5.6		10.0		
63	WWA1	B	MID-EBB	4-Oct-07			27.8	5.92	5.87		5.90	86.5	85.3	8.2	24.2	5.9		5.8		7.5
64	WWA2	S	MID-EBB	4-Oct-07	8:45	7.70	27.9	5.94	5.87	5.86	88.1	87.5	8.2	23.9	6.0	5.9	5.3	7.0	10.3	
65	WWA2	M	MID-EBB	4-Oct-07			27.8	5.86	5.75		89.4	88.2	8.2	24.1	5.0	5.1		11.0		
66	WWA2	B	MID-EBB	4-Oct-07			27.8	5.92	5.88		5.90	89.5	87.6	8.2	24.2	5.0		4.7		13.0
67	WWA3	S	MID-EBB	4-Oct-07	8:30	7.10	27.9	5.85	5.79	5.86	89.2	88.3	8.2	24.8	4.7	4.7	5.2	8.0	9.3	
68	WWA3	M	MID-EBB	4-Oct-07			27.9	5.91	5.88		5.86	90.5	89.1	8.2	24.7	5.1		5.3		8.5
69	WWA3	B	MID-EBB	4-Oct-07			27.8	5.74	5.69		5.72	89.7	88.1	8.2	24.7	5.8		5.8		11.5
70	WRA1	S	MID-EBB	4-Oct-07	9:14	26.30	28.1	5.84	5.76	5.81	88.6	87.5	8.2	24.3	5.8	5.7	5.9	6.0	7.3	
71	WRA1	M	MID-EBB	4-Oct-07			28.0	5.95	5.87		5.86	90.1	89.3	8.2	23.7	5.9		5.9		8.0
72	WRA1	B	MID-EBB	4-Oct-07			27.8	5.88	5.73		5.81	87.5	86.4	8.2	23.9	5.9		5.9		8.0
73	WRA2	S	MID-EBB	4-Oct-07	9:27	28.50	28.1	5.91	5.73	5.69	87.2	86.3	8.2	23.8	6.0	6.1	6.0	10.5	9.8	
74	WRA2	M	MID-EBB	4-Oct-07			27.9	5.65	5.55		5.69	86.5	85.4	8.2	23.7	5.9		6.0		11.0
75	WRA2	B	MID-EBB	4-Oct-07			27.8	5.78	5.76		5.77	87.9	86.3	8.2	23.7	5.9		5.9		8.0
76	WRA3	S	MID-EBB	4-Oct-07	9															

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - October 2007

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
90	WFCZR2	B	MID-EBB	4-Oct-07			27.7	5.74	5.65	5.70	89.4	87.2	8.2	23.3	4.8	4.9	5.0	11.5	8.8
91	WWA1	S	MID-FLOOD	4-Oct-07			28.4	6.13	6.07		87.6	86.1	8.2	24.9	6.0	6.0		14.0	
92	WWA1	M	MID-FLOOD	4-Oct-07	15:48	8.10	28.2	6.05	6.03	6.07	85.9	84.3	8.2	24.7	6.1	6.0		16.0	
93	WWA1	B	MID-FLOOD	4-Oct-07			28.0	6.11	5.97	6.04	87.2	86.3	8.2	24.7	6.1	6.1	6.1	14.0	14.7
94	WWA2	S	MID-FLOOD	4-Oct-07			28.5	5.86	5.75		88.1	87.6	8.2	24.8	6.1	5.9		13.0	
95	WWA2	M	MID-FLOOD	4-Oct-07	16:10	7.80	28.3	5.92	5.83	5.84	90.3	89.1	8.2	24.8	6.1	6.0		17.0	
96	WWA2	B	MID-FLOOD	4-Oct-07			28.1	5.87	5.66	5.77	87.6	86.4	8.2	24.6	5.8	5.6	5.9	15.0	15.0
97	WWA3	S	MID-FLOOD	4-Oct-07			28.4	5.87	5.65		88.2	87.6	8.2	25.1	5.9	5.7		13.5	
98	WWA3	M	MID-FLOOD	4-Oct-07	16:24	7.40	28.2	5.91	5.83	5.82	89.1	88.5	8.2	24.9	6.1	6.0		15.0	
99	WWA3	B	MID-FLOOD	4-Oct-07			28.1	5.84	5.76	5.80	87.7	86.8	8.2	24.3	5.9	5.9	5.9	15.5	14.7
100	WRA1	S	MID-FLOOD	4-Oct-07			28.4	5.68	5.62		87.1	86.8	8.2	25.4	6.1	6.0		11.5	
101	WRA1	M	MID-FLOOD	4-Oct-07	15:33	27.50	28.3	5.59	5.54	5.61	86.5	85.3	8.2	25.3	6.6	6.5		9.0	
102	WRA1	B	MID-FLOOD	4-Oct-07			28.3	5.71	5.69	5.70	88.1	87.6	8.2	25.3	6.7	6.5	6.4	14.5	11.7
103	WRA2	S	MID-FLOOD	4-Oct-07			28.4	5.82	5.78		89.3	88.2	8.2	25.7	6.0	5.8		12.0	
104	WRA2	M	MID-FLOOD	4-Oct-07	15:18	29.30	28.3	5.68	5.63	5.72	88.3	87.6	8.2	25.4	6.2	6.0		10.5	
105	WRA2	B	MID-FLOOD	4-Oct-07			28.3	5.92	5.87	5.90	89.5	89.9	8.2	25.4	5.4	5.6	5.8	8.0	10.2
106	WRA3	S	MID-FLOOD	4-Oct-07			28.4	5.68	5.63		87.6	86.3	8.2	24.9	5.8	5.8		6.5	
107	WRA3	M	MID-FLOOD	4-Oct-07	15:02	30.30	28.3	5.53	5.51	5.59	88.9	85.4	8.2	24.8	5.8	5.7		7.0	
108	WRA3	B	MID-FLOOD	4-Oct-07			28.3	5.78	5.74	5.76	87.8	86.3	8.2	24.8	6.4	6.3	6.0	8.0	7.2
109	WWFCZ1	S	MID-FLOOD	4-Oct-07			28.5	5.87	5.81		88.3	87.5	8.2	24.7	5.2	5.4		6.5	
110	WWFCZ1	M	MID-FLOOD	4-Oct-07	15:14	39.70	28.3	5.75	5.73	5.79	86.1	85.8	8.2	24.6	5.4	5.5		8.0	
111	WWFCZ1	B	MID-FLOOD	4-Oct-07			28.0	5.84	5.71	5.78	86.7	86.2	8.2	24.6	6.0	5.9	5.6	8.0	7.5
112	WWFCZ2	S	MID-FLOOD	4-Oct-07			28.5	5.76	5.65		87.5	86.3	8.2	25.8	5.4	5.6		10.5	
113	WWFCZ2	M	MID-FLOOD	4-Oct-07	15:29	40.30	28.2	5.69	5.63	5.66	89.4	88.3	8.2	25.3	4.2	4.2		15.5	
114	WWFCZ2	B	MID-FLOOD	4-Oct-07			28.1	5.82	5.81	5.82	87.1	86.4	8.2	25.1	4.8	4.6	4.8	10.5	12.2
115	WFCZR1	S	MID-FLOOD	4-Oct-07			28.4	6.03	6.01		85.2	84.9	8.2	25.7	4.9	4.9		10.0	
116	WFCZR1	M	MID-FLOOD	4-Oct-07	15:00	38.50	28.2	5.99	5.87	5.98	86.3	85.1	8.2	24.9	4.8	4.8		14.0	
117	WFCZR1	B	MID-FLOOD	4-Oct-07			27.9	5.95	5.83	5.89	87.7	86.6	8.2	24.3	5.0	5.1	4.9	12.5	12.2
118	WFCZR2	S	MID-FLOOD	4-Oct-07			28.5	6.09	6.03		89.3	87.8	8.2	23.7	5.3	5.5		11.0	
119	WFCZR2	M	MID-FLOOD	4-Oct-07	15:46	41.10	28.3	5.84	5.71	5.92	87.4	86.5	8.2	23.5	5.6	5.5		14.5	
120	WFCZR2	B	MID-FLOOD	4-Oct-07			28.1	5.92	5.87	5.90	87.1	86.8	8.2	23.5	5.3	4.4	5.2	14.5	13.3
121	WWA1	S	MID-EBB	6-Oct-07			29.1	5.92	5.78		90.1	88.8	8.2	24.1	5.2	5.3		5.0	
122	WWA1	M	MID-EBB	6-Oct-07	15:33	8.00	28.7	6.08	6.01	5.95	89.2	87.8	8.2	24.7	5.7	5.7		5.0	
123	WWA1	B	MID-EBB	6-Oct-07			28.7	6.13	6.07	6.10	91.1	90.6	8.2	24.6	6.1	6.0	5.7	5.0	5.0
124	WWA2	S	MID-EBB	6-Oct-07			28.6	5.97	5.84		89.4	87.3	8.2	24.7	5.7	5.9		7.0	
125	WWA2	M	MID-EBB	6-Oct-07	15:56	8.00	28.7	6.01	5.92	5.94	87.9	87.1	8.2	24.3	5.8	5.7		6.5	
126	WWA2	B	MID-EBB	6-Oct-07			28.7	5.74	5.63	5.69	88.4	85.8	8.2	24.6	5.7	5.7	5.8	6.5	6.3
127	WWA3	S	MID-EBB	6-Oct-07			28.9	5.77	5.71		88.3	86.9	8.2	24.4	5.9	5.8		5.0	
128	WWA3	M	MID-EBB	6-Oct-07	16:07	7.00	28.7	5.89	5.74	5.78	87.4	86.3	8.2	24.8	5.3	5.4		6.5	
129	WWA3	B	MID-EBB	6-Oct-07			28.6	5.84	5.75	5.80	87.7	86.9	8.2	24.6	5.6	5.5	5.6	5.0	5.5
130	WRA1	S	MID-EBB	6-Oct-07			28.9	6.91	5.92		88.7	88.8	8.2	24.7	6.2	6.1		6.5	
131	WRA1	M	MID-EBB	6-Oct-07	15:18	28.00	28.8	5.74	5.63	5.83	90.4	89.2	8.2	24.9	5.9	5.8		6.0	6.0
132	WRA1	B	MID-EBB	6-Oct-07			28.7	5.82	5.74	5.78	87.4	86.2	8.2	25.1	5.7	5.5	5.9	6.0	6.0
133	WRA2	S	MID-EBB	6-Oct-07			28.1	5.63	5.52		88.1	87.3	8.2	24.7	5.2	5.4		9.5	

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - October 2007

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
134	WRA2	B	MID-EBB	6-Oct-07	15:02	29.00	28.9	5.84	5.73	5.68	87.9	86.1	8.2	24.6	5.8	5.7		8.5	
135	WRA2	M	MID-EBB	6-Oct-07			29.0	5.92	5.84	5.88	85.8	85.1	8.2	24.4	5.9	6.0	5.7	6.5	8.2
136	WRA3	S	MID-EBB	6-Oct-07			29.1	5.66	5.49		87.4	86.3	8.2	24.8	5.3	5.4		8.5	
137	WRA3	M	MID-EBB	6-Oct-07	14:47	30.00	29.0	5.78	5.71	5.66	90.2	89.2	8.2	24.7	5.7	5.6		10.0	
138	WRA3	B	MID-EBB	6-Oct-07			28.8	5.64	5.58	5.61	87.6	86.8	8.2	24.8	5.7	5.7	5.6	5.5	8.0
139	WWFCZ1	S	MID-EBB	6-Oct-07			28.9	6.09	6.03		90.6	89.7	8.2	24.8	5.2	5.4		6.0	
140	WWFCZ1	M	MID-EBB	6-Oct-07	14:58	40.00	29.1	6.11	6.02	6.06	88.4	87.7	8.2	24.7	5.7	5.6		6.0	
141	WWFCZ1	B	MID-EBB	6-Oct-07			28.9	5.92	5.74	5.83	87.9	86.3	8.2	24.8	6.1	6.0	5.7	6.0	6.0
142	WWFCZ2	S	MID-EBB	6-Oct-07			29.0	5.83	5.62		90.1	88.7	8.2	24.6	5.9	5.7		5.0	
143	WWFCZ2	M	MID-EBB	6-Oct-07	15:14	41.00	28.8	5.91	5.83	5.80	89.2	87.8	8.2	24.3	5.2	5.0		5.5	
144	WWFCZ2	B	MID-EBB	6-Oct-07			28.8	5.74	5.63	5.69	86.3	85.7	8.2	24.6	5.4	5.6	5.5	5.5	5.3
145	WFCZR1	S	MID-EBB	6-Oct-07			29.1	5.82	5.74		87.4	86.1	8.2	24.7	5.1	5.0		9.0	
146	WFCZR1	M	MID-EBB	6-Oct-07	14:44	41.00	28.7	5.93	5.91	5.85	87.3	86.2	8.2	24.6	5.2	5.1		5.5	
147	WFCZR1	B	MID-EBB	6-Oct-07			28.9	5.92	5.83	5.88	87.4	86.3	8.2	24.7	5.5	5.3	5.2	6.0	6.8
148	WFCZR2	S	MID-EBB	6-Oct-07			29.0	6.01	5.89		89.4	88.1	8.2	24.1	5.8	5.9		5.0	
149	WFCZR2	M	MID-EBB	6-Oct-07	15:32	42.00	29.0	5.74	5.63	5.82	87.4	86.6	8.2	24.3	5.7	5.6		5.5	
150	WFCZR2	B	MID-EBB	6-Oct-07			28.8	5.82	5.74	5.78	87.1	85.8	8.2	23.7	5.9	6.0	5.8	5.0	5.2
151	WWA1	S	MID-FLOOD	6-Oct-07			28.3	5.94	5.83		88.7	88.9	8.2	24.4	5.8	5.7		6.5	
152	WWA1	M	MID-FLOOD	6-Oct-07	9:32	8.00	28.3	6.13	6.07	5.99	90.1	89.2	8.2	24.5	6.1	6.0		6.0	
153	WWA1	B	MID-FLOOD	6-Oct-07			28.4												

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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
178	WFCZR2	S	MID-FLOOD	6-Oct-07	10:29	41.00	28.9	5.88	5.81	5.77	89.1	88.2	8.2	24.6	5.3	5.4	5.4	8.0	7.8
179	WFCZR2	M	MID-FLOOD	6-Oct-07			28.9	5.74	5.63		87.4	86.1	8.2	24.4	5.5	5.8		7.5	
180	WFCZR2	B	MID-FLOOD	6-Oct-07	15:25	8.00	28.7	5.73	5.65	5.69	89.3	87.7	8.2	24.7	5.1	5.3	5.4	8.0	7.8
181	WWA1	S	MID-EBB	9-Oct-07			27.4	5.64	5.73		87.4	86.3	8.1	24.4	5.7	5.8		9.0	
182	WWA1	M	MID-EBB	9-Oct-07	15:25	8.00	27.5	5.91	5.88	5.84	87.7	86.3	8.1	28.5	6.0	5.9	5.8	13.5	11.8
183	WWA1	B	MID-EBB	9-Oct-07			27.4	5.74	5.63		86.8	85.4	8.1	28.4	5.8	5.6		5.8	
184	WWA2	S	MID-EBB	9-Oct-07	15:13	7.00	27.6	5.92	5.83	5.83	89.1	88.3	8.1	28.6	5.4	5.6	5.6	6.5	7.8
185	WWA2	M	MID-EBB	9-Oct-07			27.3	5.81	5.74		88.7	87.7	8.1	28.4	5.6	5.8		10.0	
186	WWA2	B	MID-EBB	9-Oct-07	14:59	7.00	27.6	5.63	5.49	5.56	86.4	85.8	8.1	28.7	5.5	5.6	5.6	7.0	10.8
187	WWA3	S	MID-EBB	9-Oct-07			27.7	5.87	5.73		84.8	83.9	8.1	28.6	5.0	5.2		12.0	
188	WWA3	M	MID-EBB	9-Oct-07	14:59	7.00	27.6	5.74	5.65	5.75	86.5	85.7	8.1	28.7	5.3	5.3	5.3	7.0	10.8
189	WWA3	B	MID-EBB	9-Oct-07			27.4	5.59	5.47		84.9	84.1	8.1	28.4	5.7	5.6		13.5	
190	WRA1	S	MID-EBB	9-Oct-07	15:39	30.00	27.7	5.57	5.49	5.57	88.4	87.3	8.1	28.4	4.7	4.9	5.3	11.5	9.3
191	WRA1	M	MID-EBB	9-Oct-07			27.4	5.63	5.58		86.3	85.7	8.1	28.5	5.5	5.5		8.5	
192	WRA1	B	MID-EBB	9-Oct-07	15:56	31.00	27.4	5.74	5.63	5.55	86.8	86.1	8.1	28.5	5.6	5.6	5.7	8.0	8.0
193	WRA2	S	MID-EBB	9-Oct-07			27.8	5.54	5.47		87.7	86.9	8.1	28.2	5.5	5.6		9.0	
194	WRA2	M	MID-EBB	9-Oct-07	16:07	28.00	27.6	5.62	5.55	5.59	88.3	87.2	8.1	28.4	5.8	5.7	5.4	6.5	7.5
195	WRA2	B	MID-EBB	9-Oct-07			27.4	5.74	5.63		88.1	87.4	8.1	28.7	5.6	5.7		8.5	
196	WRA3	S	MID-EBB	9-Oct-07	16:41	38.00	27.8	5.71	5.62	5.66	85.1	84.3	8.1	28.3	5.8	5.7	5.8	5.0	7.8
197	WRA3	M	MID-EBB	9-Oct-07			27.7	5.49	5.41		85.7	85.1	8.1	28.4	5.3	5.2		8.5	
198	WRA3	B	MID-EBB	9-Oct-07	16:32	36.00	27.7	5.57	5.48	5.58	84.3	83.7	8.1	28.6	5.1	5.2	6.0	9.0	8.0
199	WWFCZ1	S	MID-EBB	9-Oct-07			27.6	5.68	5.54		86.7	85.4	8.1	28.5	6.0	6.0		10.0	
200	WWFCZ1	M	MID-EBB	9-Oct-07	16:41	38.00	27.3	5.73	5.69	5.66	85.7	84.9	8.1	28.4	5.8	5.7	5.4	7.5	7.8
201	WWFCZ1	B	MID-EBB	9-Oct-07			27.3	5.62	5.74		84.9	84.3	8.1	28.4	5.7	5.6		6.0	
202	WWFCZ2	S	MID-EBB	9-Oct-07	16:32	36.00	27.4	5.67	5.59	5.71	86.9	85.8	8.1	28.3	6.2	6.2	6.0	8.0	8.0
203	WWFCZ2	M	MID-EBB	9-Oct-07			27.6	5.83	5.74		85.7	85.1	8.1	28.6	6.0	6.1		9.0	
204	WWFCZ2	B	MID-EBB	9-Oct-07	16:59	37.00	27.9	5.72	5.63	5.77	86.3	85.8	8.1	28.4	5.7	5.6	5.5	7.0	9.5
205	WFCZR1	S	MID-EBB	9-Oct-07			27.4	5.84	5.73		87.1	86.3	8.1	28.4	5.7	5.7		7.0	
206	WFCZR1	M	MID-EBB	9-Oct-07	16:20	38.00	27.7	5.79	5.71	5.65	86.2	85.7	8.1	28.4	5.0	5.2	5.8	12.5	9.5
207	WFCZR1	B	MID-EBB	9-Oct-07			27.3	5.68	5.61		87.7	86.9	8.1	28.3	5.6	5.5		9.0	
208	WFCZR2	S	MID-EBB	9-Oct-07	16:20	38.00	27.7	5.72	5.63	5.63	87.4	86.3	8.1	28.7	5.7	5.9	5.4	11.0	9.5
209	WFCZR2	M	MID-EBB	9-Oct-07			27.8	5.54	5.47		87.4	86.5	8.1	28.6	5.6	5.6		9.0	
210	WFCZR2	B	MID-EBB	9-Oct-07	11:00	8.00	27.6	5.67	5.59	5.62	89.2	88.3	8.1	28.4	6.0	5.8	4.8	8.5	7.3
211	WWA1	S	MID-FLOOD	9-Oct-07			26.8	5.54	5.42		86.6	85.5	8.1	28.6	4.3	4.1		7.5	
212	WWA1	M	MID-FLOOD	9-Oct-07	10:43	7.00	26.8	5.62	5.53	5.53	88.9	87.3	8.1	28.5	4.7	4.9	5.3	8.0	8.8
213	WWA1	B	MID-FLOOD	9-Oct-07			26.9	5.69	5.54		86.7	85.3	8.1	28.6	5.3	5.2		6.5	
214	WWA2	S	MID-FLOOD	9-Oct-07	10:29	7.00	27.1	5.83	5.71	5.44	85.8	84.7	8.1	28.4	5.8	5.6	5.3	6.0	10.2
215	WWA2	M	MID-FLOOD	9-Oct-07			26.9	5.63	5.59		86.3	85.1	8.1	28.4	4.9	4.8		9.5	
216	WWA2	B	MID-FLOOD	9-Oct-07	10:29	7.00	26.8	5.47	5.41	5.54	86.5	85.4	8.1	28.7	5.5	5.3	5.4	11.0	10.2
217	WWA3	S	MID-FLOOD	9-Oct-07			27.0	5.49	5.47		87.9	86.7	8.1	28.8	4.8	4.9		6.0	
218	WWA3	M	MID-FLOOD	9-Oct-07	11:12	31.00	27.0	5.63	5.58	5.51	88.5	88.2	8.1	28.6	5.4	5.6	5.1	14.0	10.2
219	WWA3	B	MID-FLOOD	9-Oct-07			26.9	5.65	5.59		87.3	86.4	8.1	28.7	5.7	5.7		10.5	
220	WRA1	S	MID-FLOOD	9-Oct-07	11:12	31.00	27.0	5.62	5.53	5.51	88.3	87.2	8.1	28.8	3.5	3.6	5.1	6.5	10.2
221	WRA1	M	MID-FLOOD	9-Oct-07			27.0	5.48	5.39		86.6	85.7	8.1	28.6	4.2	4.0		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
222	WRA1	B	MID-FLOOD	9-Oct-07	11:26	32.00	27.1	5.71	5.62	5.67	86.8	84.9	8.1	28.8	4.9	4.8	4.2	5.5	6.2
223	WRA2	S	MID-FLOOD	9-Oct-07			26.9	5.48	5.33		87.3	86.2	8.1	29.1	4.7	4.6		11.0	
224	WRA2	M	MID-FLOOD	9-Oct-07	11:26	32.00	27.2	5.72	5.67	5.55	85.9	84.3	8.1	28.9	4.3	4.4	4.3	7.0	7.8
225	WRA2	B	MID-FLOOD	9-Oct-07			27.2	5.49	5.41		84.9	84.1	8.1	28.8	3.8	3.8		5.5	
226	WRA3	S	MID-FLOOD	9-Oct-07	11:41	30.00	27.1	5.56	5.48	5.61	85.8	84.3	8.1	29.2	4.6	4.9	5.0	9.0	8.5
227	WRA3	M	MID-FLOOD	9-Oct-07			27.0	5.71	5.68		87.2	86.3	8.1	29.1	5.1	5.2		6.0	
228	WRA3	B	MID-FLOOD	9-Oct-07	12:18	41.00	26.8	5.69	5.61	5.70	87.9	87.1	8.1	29.1	5.1	5.0	5.6	10.5	8.0
229	WWFCZ1	S	MID-FLOOD	9-Oct-07			27.1	5.94	5.73		89.6	88.3	8.1	28.7	5.7	5.7		10.5	
230	WWFCZ1	M	MID-FLOOD	9-Oct-07	12:05	39.00	27.2	5.88	5.55	5.63	87.8	86.7	8.1	28.9	5.6	5.5	5.4	6.5	9.8
231	WWFCZ1	B	MID-FLOOD	9-Oct-07			26.9	5.87	5.79		85.9	84.7	8.1	28.8	5.6	5.5		7.0	
232	WWFCZ2	S	MID-FLOOD	9-Oct-07	12:05	39.00	27.2	5.63	5.58	5.65	87.1	86.6	8.1	28.8	5.9	5.9	5.8	12.0	9.8
233	WWFCZ2	M	MID-FLOOD	9-Oct-07			27.4	5.74	5.63		86.9	85.7	8.1	29.1	5.7	5.6		8.0	
234	WWFCZ2	B	MID-FLOOD	9-Oct-07	12:33	38.00	27.1	5.77	5.71	5.62	87.4	86.3	8.1	28.7	5.9	5.9	5.6	9.5	5.5
235	WFCZR1	S	MID-FLOOD	9-Oct-07			27.0	5.84	5.73		89.4	87.2	8.1	28.6	5.2	5.3		5.5	
236	WFCZR1	M	MID-FLOOD	9-Oct-07	11:51	39.00	27.0	5.49	5.43	5.60	87.9	86.7	8.1	28.8	5.7	5.7	5.4	5.5	9.8
237	WFCZR1	B	MID-FLOOD	9-Oct-07			27.1	5.67	5.53		87.1	86.8	8.1	28.7	5.7	5.8		5.5	
238	WFCZR2	S	MID-FLOOD	9-Oct-07	11:51	39.00	27.1	5.74	5.69	5.69	85.5	84.9	8.1	28.4	5.0	5.2	5.4	10.0	9.8
239	WFCZR2	M	MID-FLOOD	9-Oct-07			26.9	5.73	5.61		83.9	83.7	8.1	28.8	5.5	5.5		7.5	
240	WFCZR2	B	MID-FLOOD	9-Oct-07	13:59	7.40	27.0	5.47	5.38	5.43	86.3	85.4	8.1	28.7	5.7	5.7	7.9	12.0	27.2
241	WWA1	S	MID-EBB	12-Oct-07			28.8	5.94	5.82		89.7	88.3	8.1	23.5	7.9	7.5		30.0	
242	WWA1	M	MID-																

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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
266	WFCZR1	M	MID-EBB	12-Oct-07	15:37	37.90	28.7	5.97	5.92	5.99	89.5	88.7	8.1	22.7	7.4	7.4		10.5	
267	WFCZR1	B	MID-EBB	12-Oct-07			28.5	5.93	5.91	5.92	88.5	87.6	8.1	22.5	6.8	6.6	6.5	14.0	12.5
268	WFCZR2	S	MID-EBB	12-Oct-07			28.7	5.93	5.91		90.2	89.2	8.1	23.9	6.1	6.1		11.0	
269	WFCZR2	M	MID-EBB	12-Oct-07	14:53	38.30	28.6	5.99	5.87	5.93	89.7	88.5	8.1	24.2	6.3	6.2		9.5	
270	WFCZR2	B	MID-EBB	12-Oct-07			28.3	5.94	5.93	5.94	88.6	87.1	8.1	24.1	6.5	6.6	6.3	14.0	11.5
271	WWA1	S	MID-FLOOD	12-Oct-07			28.7	5.88	5.79		90.7	88.6	8.1	23.9	9.8	8.7		13.0	
272	WWA1	M	MID-FLOOD	12-Oct-07	10:40	7.70	28.7	5.95	5.83	5.86	87.5	85.3	8.1	22.7	11.2	10.9		14.0	
273	WWA1	B	MID-FLOOD	12-Oct-07			28.6	6.01	5.93	5.97	90.2	89.6	8.1	22.9	12.1	10.7	10.6	12.5	13.2
274	WWA2	S	MID-FLOOD	12-Oct-07			28.7	5.85	5.74		87.5	86.3	8.1	24.2	9.5	9.4		13.5	
275	WWA2	M	MID-FLOOD	12-Oct-07	10:53	7.30	28.6	5.92	5.83	5.84	89.2	88.6	8.1	23.5	11.9	10.7		12.0	
276	WWA2	B	MID-FLOOD	12-Oct-07			28.6	6.03	6.01	6.02	90.5	89.7	8.1	22.9	12.7	11.8	11.0	9.0	11.5
277	WWA3	S	MID-FLOOD	12-Oct-07			28.7	5.95	5.86		89.3	88.2	8.1	22.6	11.3	10.5		12.0	
278	WWA3	M	MID-FLOOD	12-Oct-07	11:09	6.90	28.7	5.89	5.83	5.88	88.7	87.5	8.1	21.9	10.4	9.8		11.5	
279	WWA3	B	MID-FLOOD	12-Oct-07			28.6	5.74	5.65	5.70	87.3	86.4	8.1	23.8	13.7	12.9	11.4	13.5	12.3
280	WRA1	S	MID-FLOOD	12-Oct-07			28.8	5.97	5.88		93.6	92.5	8.1	23.9	10.6	11.2		13.0	
281	WRA1	M	MID-FLOOD	12-Oct-07	10:25	34.30	28.6	5.88	5.75	5.87	94.8	93.3	8.1	24.1	13.7	12.5		12.0	
282	WRA1	B	MID-FLOOD	12-Oct-07			28.5	5.93	5.87	5.90	95.7	94.6	8.1	23.8	11.7	10.5	11.7	8.5	11.2
283	WRA2	S	MID-FLOOD	12-Oct-07			28.7	5.95	5.83		94.8	93.7	8.1	23.9	10.1	11.5		14.5	
284	WRA2	M	MID-FLOOD	12-Oct-07	10:13	33.20	28.6	5.88	5.77	5.85	96.2	95.3	8.1	23.7	11.3	11.5		9.5	
285	WRA2	B	MID-FLOOD	12-Oct-07			28.5	6.05	6.01	6.03	97.6	96.5	8.1	23.7	11.1	12.3	11.3	10.0	11.3
286	WRA3	S	MID-FLOOD	12-Oct-07			28.7	6.13	6.06		95.3	94.6	8.1	23.6	8.5	8.7		12.5	
287	WRA3	M	MID-FLOOD	12-Oct-07	10:00	32.90	28.5	6.07	6.05	6.08	89.2	88.3	8.1	23.5	11.2	11.5		13.0	
288	WRA3	B	MID-FLOOD	12-Oct-07			28.3	5.87	5.88	5.93	89.8	88.6	8.1	23.5	9.6	9.8	9.9	13.5	13.0
289	WWFCZ1	S	MID-FLOOD	12-Oct-07			28.8	6.03	5.87		90.5	89.5	8.1	22.9	5.4	5.7		9.0	
290	WWFCZ1	M	MID-FLOOD	12-Oct-07	9:15	40.50	28.6	5.99	5.85	5.94	88.3	87.5	8.1	23.1	6.0	6.1		13.0	
291	WWFCZ1	B	MID-FLOOD	12-Oct-07			28.4	6.12	6.03	6.08	86.3	85.4	8.1	22.9	6.3	6.4	6.0	10.0	10.7
292	WWFCZ2	S	MID-FLOOD	12-Oct-07			28.9	6.12	6.01		89.6	88.3	8.1	23.8	5.8	5.7		11.0	
293	WWFCZ2	M	MID-FLOOD	12-Oct-07	9:29	41.20	28.6	5.98	5.96	6.02	88.6	87.5	8.1	23.7	6.0	5.8		9.0	
294	WWFCZ2	B	MID-FLOOD	12-Oct-07			28.3	5.88	5.87	5.88	88.9	88.3	8.1	22.9	5.9	5.8	5.8	8.0	9.3
295	WFCZR1	S	MID-FLOOD	12-Oct-07			28.7	5.96	5.85		89.1	88.6	8.1	23.6	5.5	5.6		7.0	
296	WFCZR1	M	MID-FLOOD	12-Oct-07	9:00	36.70	28.5	5.79	5.74	5.84	87.9	86.3	8.1	22.9	6.0	6.1		9.5	
297	WFCZR1	B	MID-FLOOD	12-Oct-07			28.3	5.84	5.81	5.83	86.8	85.1	8.1	23.5	6.4	6.5	6.0	8.0	8.2
298	WFCZR2	S	MID-FLOOD	12-Oct-07			28.8	6.05	5.83		89.7	88.6	8.1	23.9	5.9	5.8		11.0	
299	WFCZR2	M	MID-FLOOD	12-Oct-07	9:43	39.50	28.6	5.98	5.77	5.91	88.2	87.1	8.1	24.1	6.1	6.3		9.0	
300	WFCZR2	B	MID-FLOOD	12-Oct-07			28.3	5.86	5.75	5.81	89.2	88.1	8.1	22.8	6.1	6.2	6.0	10.0	10.0
301	WWA1	S	MID-EBB	13-Oct-07			28.5	5.81	5.76		88.7	87.5	8.2	24.7	5.8	5.7		11.5	
302	WWA1	M	MID-EBB	13-Oct-07	12:27	7.50	28.4	5.79	5.68	5.76	87.9	86.3	8.2	24.6	6.0	6.1		17.5	
303	WWA1	B	MID-EBB	13-Oct-07			28.4	5.69	5.65	5.67	85.4	85.1	8.2	24.3	5.3	5.4	5.7	19.0	16.0
304	WWA2	S	MID-EBB	13-Oct-07			28.6	6.01	5.92		89.7	88.8	8.2	24.6	5.8	5.9		11.5	
305	WWA2	M	MID-EBB	13-Oct-07	12:12	7.20	28.4	5.93	5.91	5.94	87.4	87.1	8.2	24.2	6.0	5.9		12.0	
306	WWA2	B	MID-EBB	13-Oct-07			28.3	5.84	5.81	5.83	86.8	85.3	8.2	24.1	5.8	5.8	5.9	14.0	12.5
307	WWA3	S	MID-EBB	13-Oct-07			28.5	5.97	5.92		90.2	89.3	8.2	25.1	5.9	6.0		11.5	
308	WWA3	M	MID-EBB	13-Oct-07	12:00	6.80	28.4	5.85	5.73	5.87	89.7	88.6	8.2	25.2	5.8	5.7		16.5	
309	WWA3	B	MID-EBB	13-Oct-07			28.3	5.87	5.82	5.85	87.1	86.2	8.2	25.1	5.8	5.8	5.8	19.0	15.7

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 Marine Water Quality Impact Monitoring - October 2007

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
310	WRA1	S	MID-EBB	13-Oct-07			28.6	5.93	5.87		90.5	89.2	8.2	25.2	4.9	4.8		15.0	
311	WRA1	M	MID-EBB	13-Oct-07	12:43	33.10	28.4	5.85	5.74	5.85	89.7	88.3	8.2	25.1	4.6	4.5		17.5	
312	WRA1	B	MID-EBB	13-Oct-07			28.1	5.91	5.85	5.88	89.6	88.2	8.2	25.1	5.4	5.4	4.9	16.0	16.2
313	WRA2	S	MID-EBB	13-Oct-07			28.6	6.14	6.03		91.4	90.3	8.2	24.9	5.9	5.9		18.5	
314	WRA2	M	MID-EBB	13-Oct-07	12:58	32.70	28.5	5.75	5.63	5.89	87.2	86.5	8.2	24.7	5.5	5.5		22.0	
315	WRA2	B	MID-EBB	13-Oct-07			28.2	5.85	5.81	5.83	88.3	87.4	8.2	24.7	5.7	5.6	5.7	14.5	18.3
316	WRA3	S	MID-EBB	13-Oct-07			28.5	5.99	5.96		89.2	88.1	8.2	24.8	5.0	4.9		19.0	
317	WRA3	M	MID-EBB	13-Oct-07	13:10	33.20	28.3	5.85	5.81	5.90	88.5	87.1	8.2	24.6	5.8	5.6		14.5	
318	WRA3	B	MID-EBB	13-Oct-07			28.1	5.85	5.74	5.80	88.8	86.3	8.2	24.6	5.6	5.6	5.4	11.0	14.8
319	WWFCZ1	S	MID-EBB	13-Oct-07			28.5	5.85	5.76		87.6	86.3	8.2	24.7	4.9	4.8		6.5	
320	WWFCZ1	M	MID-EBB	13-Oct-07	13:44	39.60	28.3	5.81	5.73	5.79	87.5	85.3	8.2	24.6	6.0	6.1		15.0	
321	WWFCZ1	B	MID-EBB	13-Oct-07			28.2	5.75	5.67	5.71	84.3	83.1	8.2	24.6	5.9	5.7	5.6	17.5	13.0
322	WWFCZ2	S	MID-EBB	13-Oct-07			28.4	5.88	5.93		89.2	88.5	8.2	25.3	5.2	5.2		19.5	
323	WWFCZ2	M	MID-EBB	13-Oct-07	13:39	40.50	28.1	5.85	5.81	5.89	87.5	86.5	8.2	25.2	5.3	5.3		17.5	
324	WWFCZ2	B	MID-EBB	13-Oct-07			28.1	5.92	5.96	5.94	89.6	88.3	8.2	25.1	4.9	4.8	5.1	25.0	20.7
325	WFCZR1	S	MID-EBB	13-Oct-07			28.5	5.74	5.69		87.5	86.5	8.2	25.2	4.9	4.9		21.0	
326	WFCZR1	M	MID-EBB	13-Oct-07	13:59	39.10	28.3	5.83	5.77	5.76	89.5	88.5	8.2	25.1	5.0	5.0		18.5	
327	WFCZR1	B	MID-EBB	13-Oct-07			28.1	5.92	5.86	5.89	90.1	89.6	8.2	25.0	5.2	5.2	5.0	19.5	19.7
328	WFCZR2	S	MID-EBB	13-Oct-07			28.5	6.03	5.97		89.9	88.2	8.2	24.7	6.0	5.7		15.5	
329	WFCZR2	M	MID-EBB	13-Oct-07	13:25	39.80	28.4	5.98	5.81	5.95	89.5	87.6	8.2	24.7	4.9	4.9		18.0	
330	WFCZR2	B	MID-EBB	13-Oct-07			28.2	5.84	5.77	5.81	88.3	86.9	8.2	24.6	5.0	4.8	5.2	23.5	19.0
331	WWA1	S	MID-FLOOD	13-Oct-07			28.3	5.97	5.85		87.5	86.1	8.2	25.1	5.5	5.6		16.5	
332	WWA1	M	MID-FLOOD	13-Oct-07	9:00	7.80	28.3	5.76	5.61	5.80	88.5	88.3	8.2	24.8	5.4	5.5		20.0	
333	WWA1	B	MID-FLOOD	13-Oct-07			28.2	5.99	5.87	5.93	87.2	86.9	8.2	24.8	6.0	5.8	5.6	18.5	18.3
334	WWA2	S	MID-FLOOD	13-Oct-07			28.3	6.12	6.06		91.2	90.3	8.2	25.2	6.1	6.1		10.0	
335	WWA2	M	MID-FLOOD	13-Oct-07	8:45	7.50	28.3	5.85	5.73	5.94	86.4	85.7	8.2	24.9	6.0	6.0		15.5	
336	WWA2	B	MID-FLOOD	13-Oct-07			28.3	5.91	5.85	5.88	89.2	88.3	8.2	24.7	4.8	4.8	5.6	16.0	13.8

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Marine Water Quality Impact Monitoring - October 2007

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
354	WWFCZ2	B	MID-FLOOD	13-Oct-07			28.3	5.92	5.88	5.90	86.5	85.5	8.2	24.7	6.0	6.1	5.9	17.5	17.3
355	WFCZR1	S	MID-FLOOD	13-Oct-07			28.4	5.94	5.83		89.2	87.1	8.2	24.6	5.9	5.7		12.5	
356	WFCZR1	M	MID-FLOOD	13-Oct-07	10:43	39.60	28.3	6.05	6.01	5.96	90.1	87.2	8.2	24.3	5.6	5.6		14.0	
357	WFCZR1	B	MID-FLOOD	13-Oct-07			28.3	5.74	5.65	5.70	88.3	87.1	8.2	24.1	4.0	3.9	5.1	15.5	14.0
358	WFCZR2	S	MID-FLOOD	13-Oct-07			28.4	5.98	5.77		89.6	86.5	8.2	24.9	4.3	4.3		17.0	
359	WFCZR2	M	MID-FLOOD	13-Oct-07	9:58	40.50	28.3	6.03	5.82	5.90	89.2	87.3	8.2	24.2	4.1	4.4		20.0	
360	WFCZR2	B	MID-FLOOD	13-Oct-07			28.2	5.91	5.84	5.88	88.5	87.4	8.2	24.1	3.9	3.7	4.1	24.5	20.5
361	WWA1	S	MID-EBB	16-Oct-07			26.3	5.83	5.74		86.6	85.9	8.2	24.4	5.8	5.7		12.0	
362	WWA1	M	MID-EBB	16-Oct-07	15:29	7.00	26.4	5.92	5.86	5.84	87.4	86.4	8.2	24.4	5.6	5.6		17.5	
363	WWA1	B	MID-EBB	16-Oct-07			26.4	5.74	5.68	5.70	86.1	87.3	8.2	24.6	5.6	5.7	5.7	13.0	14.2
364	WWA2	S	MID-EBB	16-Oct-07			26.2	5.74	5.68		86.4	87.8	8.2	24.7	4.9	4.8		17.0	
365	WWA2	M	MID-EBB	16-Oct-07	15:15	8.00	26.2	5.92	5.78	5.78	86.9	86.1	8.2	24.3	5.0	5.1		14.0	
366	WWA2	B	MID-EBB	16-Oct-07			26.1	5.49	5.41	5.45	87.3	86.8	8.2	24.4	5.3	5.2	5.1	12.5	14.5
367	WWA3	S	MID-EBB	16-Oct-07			26.3	5.63	5.55		84.9	83.6	8.2	24.6	4.5	4.6		14.5	
368	WWA3	M	MID-EBB	16-Oct-07	15:00	6.00	26.1	5.74	5.68	5.65	87.1	86.2	8.2	24.4	4.9	4.9		12.0	
369	WWA3	B	MID-EBB	16-Oct-07			26.1	5.91	5.83	5.87	88.1	86.9	8.2	24.3	5.0	4.9	4.8	16.5	14.3
370	WRA1	S	MID-EBB	16-Oct-07			26.2	5.85	5.79		86.1	85.4	8.2	24.6	5.2	5.4		15.0	
371	WRA1	M	MID-EBB	16-Oct-07	15:43	34.00	26.4	5.83	5.72	5.80	87.3	86.2	8.2	24.9	5.4	5.4		15.5	
372	WRA1	B	MID-EBB	16-Oct-07			26.4	5.64	5.58	5.61	88.1	87.3	8.2	24.7	5.6	5.6	5.4	17.5	16.0
373	WRA2	S	MID-EBB	16-Oct-07			26.3	5.72	5.63		88.4	87.9	8.2	24.3	4.9	5.0		15.5	
374	WRA2	M	MID-EBB	16-Oct-07	15:58	33.00	26.8	5.64	5.58	5.64	86.3	85.4	8.2	24.3	5.3	5.4		14.0	
375	WRA2	B	MID-EBB	16-Oct-07			26.4	5.72	5.66	5.69	87.2	86.3	8.2	24.6	5.7	5.6	5.3	13.0	14.2
376	WRA3	S	MID-EBB	16-Oct-07			26.6	5.83	5.64		88.5	87.4	8.2	24.4	5.5	5.3		16.0	
377	WRA3	M	MID-EBB	16-Oct-07	16:07	33.00	26.5	5.97	5.82	5.82	89.1	88.4	8.2	24.7	5.5	5.6		19.5	
378	WRA3	B	MID-EBB	16-Oct-07			26.2	5.57	5.52	5.55	86.3	85.8	8.2	24.8	6.0	6.1	5.7	14.0	16.5
379	WWFCZ1	S	MID-EBB	16-Oct-07			26.4	5.39	5.48		87.4	86.3	8.2	24.2	5.8	5.6		14.5	
380	WWFCZ1	M	MID-EBB	16-Oct-07	16:54	37.00	26.7	5.48	5.39	5.44	88.8	87.9	8.2	24.2	5.5	5.5		14.5	
381	WWFCZ1	B	MID-EBB	16-Oct-07			26.3	5.61	5.57	5.59	86.4	85.7	8.2	24.1	5.6	5.4	5.6	15.5	14.8
382	WWFCZ2	S	MID-EBB	16-Oct-07			26.1	5.74	5.62		87.2	86.6	8.2	24.1	5.4	5.5		16.5	
383	WWFCZ2	M	MID-EBB	16-Oct-07	16:39	39.00	25.9	5.49	5.41	5.57	88.3	87.4	8.2	23.9	5.6	5.7		19.5	
384	WWFCZ2	B	MID-EBB	16-Oct-07			26.2	5.72	5.66	5.69	89.2	88.1	8.2	24.2	5.7	5.6	5.6	14.0	16.7
385	WFCZR1	S	MID-EBB	16-Oct-07			26.4	5.81	5.74		90.1	88.9	8.2	24.4	6.0	6.1		12.0	
386	WFCZR1	M	MID-EBB	16-Oct-07	17:11	38.00	28.3	5.49	5.39	5.61	87.4	86.3	8.2	24.4	5.8	5.9		13.5	
387	WFCZR1	B	MID-EBB	16-Oct-07			25.9	5.87	5.74	5.81	87.2	85.9	8.2	24.7	5.6	5.7	5.9	10.5	12.0
388	WFCZR2	S	MID-EBB	16-Oct-07			26.7	5.49	5.32		87.4	86.6	8.2	24.4	5.3	5.2		15.5	
389	WFCZR2	M	MID-EBB	16-Oct-07	16:25	41.00	26.1	5.67	5.49	5.49	85.7	84.9	8.2	24.3	4.9	5.1		15.5	
390	WFCZR2	B	MID-EBB	16-Oct-07			26.3	5.81	5.72	5.77	88.1	87.2	8.2	24.3	4.8	4.8	5.0	16.0	15.7
391	WWA1	S	MID-FLOOD	16-Oct-07			25.8	5.98	5.93		87.2	86.5	8.2	24.5	5.7	5.7		14.0	
392	WWA1	M	MID-FLOOD	16-Oct-07	10:00	7.00	25.9	5.76	5.64	5.82	85.9	85.4	8.2	24.6	5.9	5.7		15.0	
393	WWA1	B	MID-FLOOD	16-Oct-07			25.9	5.83	5.74	5.79	88.2	87.3	8.2	24.5	5.6	5.6	5.7	16.0	15.0
394	WWA2	S	MID-FLOOD	16-Oct-07			26.1	5.92	5.84		86.4	85.8	8.2	24.4	5.7	5.8		15.0	
395	WWA2	M	MID-FLOOD	16-Oct-07	9:44	6.00	25.9	5.73	5.61	5.78	85.9	85.1	8.2	24.4	6.0	5.9		12.5	
396	WWA2	B	MID-FLOOD	16-Oct-07			26.9	5.88	5.73	5.81	86.1	85.7	8.2	24.6	6.1	6.0	5.9	14.5	14.0
397	WWA3	S	MID-FLOOD	16-Oct-07			26.0	5.92	5.83		88.3	87.4	8.2	24.7	5.7	5.8		9.5	

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Marine Water Quality Impact Monitoring - October 2007

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
398	WWA3	M	MID-FLOOD	16-Oct-07	9:31	6.00	26.1	5.74	5.71	5.80	86.9	86.1	8.2	24.8	5.5	5.6		13.0	
399	WWA3	B	MID-FLOOD	16-Oct-07			26.1	5.69	5.63	5.66	87.4	86.3	8.2	24.5	5.0	5.0	5.4	15.5	12.7
400	WRA1	S	MID-FLOOD	16-Oct-07			26.1	5.66	5.74		87.2	86.3	8.2	24.7	6.1	5.9		14.5	
401	WRA1	M	MID-FLOOD	16-Oct-07	10:15	35.00	26.1	5.93	5.86	5.85	86.9	86.1	8.2	24.9	5.8	5.8		13.0	
402	WRA1	B	MID-FLOOD	16-Oct-07			26.3	5.74	5.63	5.69	88.7	87.4	8.2	24.6	5.4	5.5	5.8	12.5	13.3
403	WRA2	S	MID-FLOOD	16-Oct-07			26.1	6.12	6.03		89.9	85.1	8.2	24.6	5.7	5.8		10.0	
404	WRA2	M	MID-FLOOD	16-Oct-07	10:30	34.00	25.9	5.84	5.77	5.94	88.3	85.4	8.2	24.5	5.9	5.8		12.5	
405	WRA2	B	MID-FLOOD	16-Oct-07			26.0	5.92	5.86	5.89	86.1	85.5	8.2	24.3	6.0	6.1	5.9	10.0	10.8
406	WRA3	S	MID-FLOOD	16-Oct-07			26.0	5.74	5.66		87.3	86.4	8.2	24.2	6.1	6.1		11.5	
407	WRA3	M	MID-FLOOD	16-Oct-07	10:42	34.00	26.2	5.84	5.77	5.75	88.9	87.8	8.2	24.6	5.9	6.0		17.0	
408	WRA3	B	MID-FLOOD	16-Oct-07			26.2	5.91	5.84	5.88	86.3	85.8	8.2	24.3	5.7	5.6	5.9	11.0	13.2
409	WWFCZ1	S	MID-FLOOD	16-Oct-07			26.3	5.51	5.47		86.1	85.8	8.2	24.9	5.9	5.7		17.0	
410	WWFCZ1	M	MID-FLOOD	16-Oct-07	11:31	39.00	26.4	5.76	5.64	5.60	87.4	86.6	8.2	25.1	5.9	5.9		15.5	
411	WWFCZ1	B	MID-FLOOD	16-Oct-07			26.6	5.81	5.73	5.77	87.3	86.8	8.2	24.9	6.0	5.9	5.9	16.5	16.3
412	WWFCZ2	S	MID-FLOOD	16-Oct-07			26.3	5.92	5.84		84.8	83.9	8.2	24.8	6.0	5.9		18.5	
413	WWFCZ2	M	MID-FLOOD	16-Oct-07	11:14	40.00	26.3	5.73	5.64	5.78	85.7	84.6	8.2	24.4	5.7	5.9		19.0	
414	WWFCZ2	B	MID-FLOOD	16-Oct-07			26.5	5.77	5.63	5.70	88.1	87.3	8.2	24.7	5.6	5.5	5.8	17.0	18.2
415	WFCZR1	S	MID-FLOOD	16-Oct-07			26.7	5.81	5.72		86.4	84.8	8.2	24.7	5.7	5.6		15.5	
416	WFCZR1	M	MID-FLOOD	16-Oct-07	11:46	38.00	26.4	5.94	5.83	5.83	87.7	86.6	8.2						

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 Marine Water Quality Impact Monitoring - October 2007

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
442	WWFCZ2	S	MID-EBB	18-Oct-07	9:28	38.70	27.7	6.06	5.83	5.88	90.2	88.7	8.3	24.1	5.7	5.5	5.2	7.5	10.5
443	WWFCZ2	M	MID-EBB	18-Oct-07			27.5	5.88	5.75		87.5	86.7	8.3	24.0	4.3	4.1		8.5	
444	WWFCZ2	B	MID-EBB	18-Oct-07	9:00	36.70	27.4	5.93	5.87	5.90	89.2	87.3	8.3	24.0	6.0	5.7	5.0	15.5	12.3
445	WFCZR1	S	MID-EBB	18-Oct-07			27.7	5.84	5.75		89.7	88.6	8.3	24.2	5.5	5.3		11.0	
446	WFCZR1	M	MID-EBB	18-Oct-07	9:43	35.20	27.5	5.91	5.82	5.81	88.8	87.4	8.3	23.9	4.8	4.8	4.5	13.5	8.8
447	WFCZR1	B	MID-EBB	18-Oct-07			27.3	5.86	5.75		88.3	87.5	8.3	23.7	4.9	4.8		12.5	
448	WFCZR2	S	MID-EBB	18-Oct-07	14:50	7.10	27.8	5.65	5.57	5.77	87.2	86.3	8.3	23.5	4.7	4.5	5.5	8.0	9.2
449	WFCZR2	M	MID-EBB	18-Oct-07			27.6	5.82	5.76		89.1	88.5	8.3	23.8	4.0	3.8		9.5	
450	WFCZR2	B	MID-EBB	18-Oct-07	15:03	6.80	27.5	5.98	5.82	5.90	87.1	86.3	8.3	23.7	5.1	5.1	4.9	9.0	6.8
451	WWA1	S	MID-FLOOD	18-Oct-07			27.3	5.75	5.64		87.3	86.8	8.3	24.6	5.2	5.3		8.5	
452	WWA1	M	MID-FLOOD	18-Oct-07	15:18	6.50	27.3	5.87	5.82	5.95	89.2	88.7	8.3	24.3	6.0	5.7	5.6	11.5	7.3
453	WWA1	B	MID-FLOOD	18-Oct-07			27.2	5.98	5.91		90.4	89.1	8.3	24.3	5.5	5.4		7.5	
454	WWA2	S	MID-FLOOD	18-Oct-07	14:35	31.90	27.2	5.84	5.81	5.72	87.6	86.3	8.3	25.2	4.8	4.6	4.9	5.5	8.2
455	WWA2	M	MID-FLOOD	18-Oct-07			27.2	5.59	5.53		85.4	84.2	8.3	25.1	5.0	4.9		8.0	
456	WWA2	B	MID-FLOOD	18-Oct-07	14:20	31.20	27.2	5.65	5.62	5.64	84.7	83.8	8.3	24.9	5.1	5.1	5.6	7.0	6.8
457	WWA3	S	MID-FLOOD	18-Oct-07			27.3	5.74	5.59		86.5	85.1	8.3	24.7	5.6	5.5		5.0	
458	WWA3	M	MID-FLOOD	18-Oct-07	14:02	34.70	27.2	5.81	5.73	5.72	87.8	87.2	8.3	24.6	6.0	5.9	5.8	10.0	5.7
459	WWA3	B	MID-FLOOD	18-Oct-07			27.2	5.82	5.71		88.6	88.1	8.3	24.6	5.4	5.4		7.0	
460	WRA1	S	MID-FLOOD	18-Oct-07	13:14	40.30	27.3	6.08	5.86	5.99	90.3	87.5	8.3	25.3	5.1	5.1	5.2	6.0	10.8
461	WRA1	M	MID-FLOOD	18-Oct-07			27.2	6.07	5.94		89.2	86.5	8.3	25.1	4.8	4.9		10.0	
462	WRA1	B	MID-FLOOD	18-Oct-07	14:02	34.70	27.1	6.13	6.02	5.92	90.4	89.3	8.3	25.1	4.7	4.8	4.9	11.0	9.0
463	WRA2	S	MID-FLOOD	18-Oct-07			27.3	5.97	5.86		87.2	86.1	8.3	24.8	4.0	3.8		8.5	
464	WRA2	M	MID-FLOOD	18-Oct-07	13:28	39.50	27.3	5.95	5.91	5.92	88.5	87.3	8.3	24.7	4.3	4.4	5.0	9.0	8.3
465	WRA2	B	MID-FLOOD	18-Oct-07			27.1	5.83	5.75		86.5	85.2	8.3	24.7	4.5	4.5		7.0	
466	WRA3	S	MID-FLOOD	18-Oct-07	13:00	37.40	27.3	6.08	5.82	5.79	89.7	88.3	8.3	24.9	5.9	5.9	4.8	5.0	10.7
467	WRA3	M	MID-FLOOD	18-Oct-07			27.2	5.95	5.87		87.6	85.5	8.3	24.9	5.7	5.6		7.0	
468	WRA3	B	MID-FLOOD	18-Oct-07	13:48	36.10	27.1	5.91	5.86	5.89	89.5	88.6	8.3	24.8	5.8	5.8	4.8	5.0	11.2
469	WWFCZ1	S	MID-FLOOD	18-Oct-07			27.2	6.29	6.25		96.3	95.2	8.3	23.9	4.5	4.4		10.5	
470	WWFCZ1	M	MID-FLOOD	18-Oct-07	9:29	6.60	27.0	6.22	6.13	6.22	94.6	93.7	8.3	23.7	5.4	5.3	5.6	7.5	11.3
471	WWFCZ1	B	MID-FLOOD	18-Oct-07			26.8	6.07	6.01		91.1	90.8	8.3	23.7	5.8	5.7		14.5	
472	WWFCZ2	S	MID-FLOOD	18-Oct-07	9:13	6.40	27.3	5.75	5.69	6.04	94.6	93.3	8.3	24.7	5.5	5.4	5.2	7.0	10.8
473	WWFCZ2	M	MID-FLOOD	18-Oct-07			27.1	5.82	5.73		89.7	88.5	8.3	25.2	4.7	4.8		8.5	
474	WWFCZ2	B	MID-FLOOD	18-Oct-07	13:00	37.40	27.0	5.82	5.79	5.81	87.6	86.2	8.3	24.8	4.9	4.9	5.0	9.5	8.3
475	WFCZR1	S	MID-FLOOD	18-Oct-07			27.2	6.23	6.12		97.5	96.3	8.3	24.3	5.2	5.1		8.5	
476	WFCZR1	M	MID-FLOOD	18-Oct-07	13:48	36.10	27.0	6.12	6.09	6.14	95.3	94.4	8.3	24.2	4.7	4.8	4.8	11.5	10.7
477	WFCZR1	B	MID-FLOOD	18-Oct-07			26.9	5.88	5.76		93.2	92.3	8.3	24.1	4.4	4.5		12.0	
478	WFCZR2	S	MID-FLOOD	18-Oct-07	9:29	6.60	27.2	5.95	5.84	5.82	89.2	88.7	8.3	23.7	4.8	4.7	5.6	12.0	11.2
479	WFCZR2	M	MID-FLOOD	18-Oct-07			27.1	5.89	5.77		87.4	86.1	8.3	23.5	4.7	4.6		12.0	
480	WFCZR2	B	MID-FLOOD	18-Oct-07	9:13	6.40	26.9	5.82	5.53	5.58	87.0	86.1	8.3	23.5	5.0	5.2	4.8	9.5	11.2
481	WWA1	S	MID-EBB	20-Oct-07			25.3	5.89	5.77		89.7	88.3	8.3	24.2	6.0	6.0		10.0	
482	WWA1	M	MID-EBB	20-Oct-07	9:29	6.60	25.3	5.65	5.53	5.71	86.5	85.4	8.3	23.9	5.4	5.3	5.6	13.5	11.3
483	WWA1	B	MID-EBB	20-Oct-07			25.2	5.63	5.51		87.3	86.1	8.3	23.7	5.5	5.4		10.5	
484	WWA2	S	MID-EBB	20-Oct-07	9:13	6.40	25.3	5.88	5.54	5.66	89.2	88.3	8.3	23.9	5.6	5.5	5.0	8.0	10.5
485	WWA2	M	MID-EBB	20-Oct-07			25.2	5.73	5.69		85.3	84.6	8.3	23.7	6.3	6.3		10.0	

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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
486	WWA2	B	MID-EBB	20-Oct-07	9:00	6.10	25.2	5.81	5.75	5.78	87.2	85.4	8.3	23.7	5.7	5.5	5.6	7.5	8.5
487	WWA3	S	MID-EBB	20-Oct-07			25.3	5.84	5.83		89.4	88.7	8.3	24.1	5.6	5.6		9.0	
488	WWA3	M	MID-EBB	20-Oct-07	9:43	32.30	25.3	5.92	5.87	5.89	87.3	86.5	8.3	23.9	6.2	6.2	5.7	8.0	8.5
489	WWA3	B	MID-EBB	20-Oct-07			25.2	5.76	5.65		89.3	88.2	8.3	23.7	5.4	5.4		8.5	
490	WRA1	S	MID-EBB	20-Oct-07	9:58	33.40	25.3	5.94	5.91	5.90	88.7	87.6	8.3	23.1	5.9	5.8	5.6	10.5	9.2
491	WRA1	M	MID-EBB	20-Oct-07			25.2	5.88	5.86		88.5	88.1	8.3	22.9	5.9	5.8		7.0	
492	WRA1	B	MID-EBB	20-Oct-07	10:15	31.70	25.1	5.79	5.77	5.78	87.3	87.2	8.3	22.8	5.1	5.1	5.6	10.0	8.0
493	WRA2	S	MID-EBB	20-Oct-07			25.3	5.75	5.73		87.6	87.5	8.3	22.7	4.9	4.8		10.0	
494	WRA2	M	MID-EBB	20-Oct-07	10:58	38.60	25.1	5.85	5.84	5.79	88.4	88.1	8.3	22.5	5.4	5.4	5.5	6.5	8.7
495	WRA2	B	MID-EBB	20-Oct-07			25.1	5.89	5.83		88.9	88.4	8.3	22.7	6.2	6.3		7.5	
496	WRA3	S	MID-EBB	20-Oct-07	10:44	39.20	25.3	5.75	5.71	5.72	87.3	87.0	8.3	23.1	4.9	4.9	4.1	6.0	11.8
497	WRA3	M	MID-EBB	20-Oct-07			25.1	5.58	5.54		84.9	83.6	8.3	23.2	5.9	6.0		8.5	
498	WRA3	B	MID-EBB	20-Oct-07	11:13	38.70	25.1	5.63	5.59	5.61	86.5	85.8	8.3	23.2	5.7	5.6	5.5	9.5	8.0
499	WWFCZ1	S	MID-EBB	20-Oct-07			25.3	5.91	5.85		89.7	88.6	8.3	23.1	5.5	5.3		8.5	
500	WWFCZ1	M	MID-EBB	20-Oct-07	10:30	38.20	25.1	5.94	5.87	5.89	89.5	88.3	8.3	23.2	5.0	4.9	5.0	8.0	10.0
501	WWFCZ1	B	MID-EBB	20-Oct-07			24.9	5.89	5.65		87.4	87.1	8.3	23.2	4.7	4.5		7.5	
502	WWFCZ2	S	MID-EBB	20-Oct-07	11:13	38.70	25.3	5.88	5.75	5.72	88.8	87.6	8.3	24.2	4.2	4.3	3.4	9.0	10.0
503	WWFCZ2	M	MID-EBB	20-Oct-07			25.2	5.63	5.61		87.5	86.9	8.3	24.1	4.4	4.4		11.5	
504	WWFCZ2	B	MID-EBB	20-Oct-07	10:44	39.20	25.0	5.92	5.88	5.90	89.4	88.5	8.3	24.1	3.9	3.8	4.1	15.0	11.8
505	WFCZR1	S	MID-EBB	20-Oct-07			25.3	5.87	5.86		87.6	87.3	8.3	23.5	3.6				

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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
530	WWFCZ1	M	MID-FLOOD	20-Oct-07	16:55	40.30	25.4	5.83	5.79	5.75	88.3	87.6	8.3	23.5	5.1	5.1		9.0	
531	WWFCZ1	B	MID-FLOOD	20-Oct-07			25.2	5.94	5.86	5.90	86.4	85.7	8.3	23.6	5.0	5.0	5.2	9.5	8.5
532	WWFCZ2	S	MID-FLOOD	20-Oct-07			25.6	5.88	5.75		88.6	87.1	8.3	23.4	4.7	4.7		9.0	
533	WWFCZ2	M	MID-FLOOD	20-Oct-07	16:40	41.20	25.5	5.94	5.87	5.86	89.2	88.3	8.3	23.4	4.6	4.8		9.0	
534	WWFCZ2	B	MID-FLOOD	20-Oct-07			25.3	5.82	5.75	5.79	89.2	88.1	8.3	23.3	4.6	4.6	4.7	12.0	10.0
535	WFCZR1	S	MID-FLOOD	20-Oct-07			25.6	5.96	5.87		88.6	87.5	8.3	23.2	4.1	4.1		16.0	
536	WFCZR1	M	MID-FLOOD	20-Oct-07	17:10	39.80	25.3	5.99	5.91	5.93	87.3	86.2	8.3	23.2	5.0	4.8		8.0	
537	WFCZR1	B	MID-FLOOD	20-Oct-07			25.2	5.87	5.82	5.85	86.9	85.3	8.3	23.3	3.9	3.8	4.3	11.5	11.8
538	WFCZR2	S	MID-FLOOD	20-Oct-07			25.6	5.87	5.82		88.4	87.9	8.3	23.4	3.6	3.8		8.0	
539	WFCZR2	M	MID-FLOOD	20-Oct-07	16:25	39.50	25.4	5.53	5.47	5.67	88.1	87.5	8.3	23.4	4.1	4.1		6.5	
540	WFCZR2	B	MID-FLOOD	20-Oct-07			25.2	5.91	5.87	5.89	86.3	85.8	8.3	23.4	4.3	4.2	4.0	7.5	7.3
541	WWA1	S	MID-EBB	23-Oct-07			26.1	5.55	5.47		84.7	83.9	8.1	28.4	4.0	4.2		17.5	
542	WWA1	M	MID-EBB	23-Oct-07	11:00	7.00	26.1	5.62	5.58	5.56	85.1	85.7	8.1	28.5	4.8	4.7		17.5	
543	WWA1	B	MID-EBB	23-Oct-07			26.0	5.71	5.63	5.67	86.9	84.8	8.1	28.7	5.0	4.9	4.6	15.5	16.8
544	WWA2	S	MID-EBB	23-Oct-07			26.0	5.84	5.73		87.3	86.2	8.1	28.3	5.4	5.5		10.5	
545	WWA2	M	MID-EBB	23-Oct-07	10:45	7.00	25.9	5.78	5.71	5.77	88.1	87.4	8.1	28.4	5.7	5.6		11.0	
546	WWA2	B	MID-EBB	23-Oct-07			25.7	5.81	5.73	5.77	89.3	88.6	8.1	28.4	5.4	5.3	5.5	9.5	10.3
547	WWA3	S	MID-EBB	23-Oct-07			26.1	5.64	5.54		87.4	86.2	8.1	28.6	4.8	4.9		10.0	
548	WWA3	M	MID-EBB	23-Oct-07	10:30	6.00	26.1	5.83	5.72	5.68	87.8	87.1	8.1	28.7	5.0	4.9		5.5	
549	WWA3	B	MID-EBB	23-Oct-07			26.2	5.91	5.84	5.88	88.4	87.3	8.1	28.3	4.8	4.6	4.8	14.5	10.0
550	WRA1	S	MID-EBB	23-Oct-07			26.4	5.71	5.64		88.1	87.4	8.1	28.8	3.7	3.7		5.5	
551	WRA1	M	MID-EBB	23-Oct-07	11:12	31.00	26.2	5.73	5.66	5.69	87.9	87.3	8.1	28.7	4.1	3.9		5.0	
552	WRA1	B	MID-EBB	23-Oct-07			26.2	5.82	5.74	5.78	89.9	88.1	8.1	29.0	4.4	4.5	4.1	5.0	5.2
553	WRA2	S	MID-EBB	23-Oct-07			26.4	5.49	5.43		87.3	86.8	8.1	28.5	4.7	4.6		8.5	
554	WRA2	M	MID-EBB	23-Oct-07	11:25	32.00	26.3	5.62	5.55	5.52	89.1	88.3	8.1	28.6	5.0	4.9		8.0	
555	WRA2	B	MID-EBB	23-Oct-07			26.2	5.71	5.64	5.68	88.7	87.4	8.1	28.4	4.9	4.7	4.8	5.0	7.2
556	WRA3	S	MID-EBB	23-Oct-07			26.4	5.75	5.69		86.7	85.9	8.1	28.7	5.2	5.1		7.5	
557	WRA3	M	MID-EBB	23-Oct-07	11:40	29.00	26.3	5.83	5.73	5.75	85.7	85.1	8.1	28.8	4.7	4.9		10.5	
558	WRA3	B	MID-EBB	23-Oct-07			26.2	5.79	5.68	5.74	86.4	85.3	8.1	29.0	5.0	5.1	5.0	5.0	7.7
559	WWFCZ1	S	MID-EBB	23-Oct-07			26.5	5.92	5.87		89.3	88.1	8.1	28.6	4.2	4.2		5.0	
560	WWFCZ1	M	MID-EBB	23-Oct-07	12:20	39.00	26.4	5.64	5.53	5.74	87.4	86.1	8.1	28.4	4.8	4.6		5.5	
561	WWFCZ1	B	MID-EBB	23-Oct-07			26.2	5.72	5.68	5.70	87.8	87.1	8.1	29.1	5.2	5.2	4.7	5.5	5.3
562	WWFCZ2	S	MID-EBB	23-Oct-07			26.7	5.92	5.84		89.1	88.4	8.1	28.7	5.0	4.8		10.0	
563	WWFCZ2	M	MID-EBB	23-Oct-07	12:08	37.00	26.8	5.73	5.66	5.79	87.2	86.3	8.1	28.7	5.1	5.2		12.5	
564	WWFCZ2	B	MID-EBB	23-Oct-07			26.5	5.81	5.73	5.77	87.4	86.6	8.1	28.4	5.7	5.6	5.2	7.5	10.0
565	WFCZR1	S	MID-EBB	23-Oct-07			26.7	5.62	5.77		87.4	86.3	8.1	29.1	5.2	5.1		11.0	
566	WFCZR1	M	MID-EBB	23-Oct-07	12:33	39.00	26.5	5.79	5.71	5.77	86.7	85.7	8.1	28.7	5.3	5.3		8.5	
567	WFCZR1	B	MID-EBB	23-Oct-07			26.4	5.64	5.55	5.60	84.9	84.1	8.1	28.3	5.1	5.1	5.2	7.5	9.0
568	WFCZR2	S	MID-EBB	23-Oct-07			26.4	5.74	5.62		87.4	86.3	8.1	28.8	5.0	4.9		9.5	
569	WFCZR2	M	MID-EBB	23-Oct-07	11:52	40.00	26.2	5.81	5.74	5.73	87.1	86.7	8.1	28.4	5.1	5.2		10.5	
570	WFCZR2	B	MID-EBB	23-Oct-07			26.2	5.91	5.83	5.87	87.2	86.4	8.1	28.7	5.2	5.1	5.1	14.5	11.5
571	WWA1	S	MID-FLOOD	23-Oct-07			26.9	5.87	5.79		87.4	86.3	8.1	28.3	4.7	4.7		5.5	
572	WWA1	M	MID-FLOOD	23-Oct-07	14:24	7.00	26.7	5.74	5.68	5.77	87.8	86.9	8.1	28.4	5.0	5.0		9.0	
573	WWA1	B	MID-FLOOD	23-Oct-07			26.7	5.78	5.71	5.75	88.1	87.4	8.1	28.4	5.7	5.6	5.1	5.5	6.7

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HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau - Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - October 2007

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
574	WWA2	S	MID-FLOOD	23-Oct-07			27.2	5.92	5.84		87.9	87.1	8.1	28.6	5.4	5.5		5.0	
575	WWA2	M	MID-FLOOD	23-Oct-07	14:13	7.00	26.9	5.79	5.68	5.81	88.3	87.4	8.1	28.6	5.5	5.4		7.0	
576	WWA2	B	MID-FLOOD	23-Oct-07			27.0	5.83	5.74	5.79	86.9	86.1	8.1	28.6	5.3	5.2	5.4	6.5	6.2
577	WWA3	S	MID-FLOOD	23-Oct-07			27.1	5.71	5.62		87.4	86.3	8.1	28.4	4.9	4.8		10.0	
578	WWA3	M	MID-FLOOD	23-Oct-07	14:00	6.00	27.0	5.67	5.59	5.65	87.9	86.8	8.1	28.5	5.2	5.3		11.0	
579	WWA3	B	MID-FLOOD	23-Oct-07			26.9	5.74	5.65	5.70	87.4	86.3	8.1	28.5	5.5	5.3	5.2	10.0	10.3
580	WRA1	S	MID-FLOOD	23-Oct-07			27.2	5.64	5.55		86.4	85.9	8.1	28.2	4.5	4.3		8.0	
581	WRA1	M	MID-FLOOD	23-Oct-07	14:40	29.00	27.1	5.73	5.62	5.64	87.2	86.6	8.1	28.4	5.2	5.1		11.0	
582	WRA1	B	MID-FLOOD	23-Oct-07			27.3	5.74	5.63	5.69	87.4	86.3	8.1	28.3	4.9	4.8	4.8	8.5	9.2
583	WRA2	S	MID-FLOOD	23-Oct-07			27.4	5.49	5.41		85.9	85.8	8.1	28.7	5.2	5.3		6.0	
584	WRA2	M	MID-FLOOD	23-Oct-07	14:56	30.00	27.3	5.72	5.66	5.57	87.1	86.2	8.1	28.4	5.3	5.2		6.0	
585	WRA2	B	MID-FLOOD	23-Oct-07			27.2	5.69	5.58	5.64	87.4	86.3	8.1	28.4	4.9	4.8	5.1	5.5	5.8
586	WRA3	S	MID-FLOOD	23-Oct-07			27.6	5.72	5.64		85.8	84.9	8.1	28.5	5.0	5.2		9.5	
587	WRA3	M	MID-FLOOD	23-Oct-07	15:08	28.00	27.4	5.58	5.49	5.61	87.1	86.5	8.1	28.4	5.4	5.2		5.0	
588	WRA3	B	MID-FLOOD	23-Oct-07			27.6	5.81	5.57	5.59	87.3	86.4	8.1	28.7	4.7	4.6	5.0	5.0	6.5
589	WWFCZ1	S	MID-FLOOD	23-Oct-07			27.4	5.84	5.73		87.4	86.3	8.1	28.6	4.5	4.4		6.6	
590	WWFCZ1	M	MID-FLOOD	23-Oct-07	15:48	39.00	27.2	5.72	5.69	5.75	86.9	86.8	8.1	28.4	4.6	4.6		7.0	
591	WWFCZ1	B	MID-FLOOD	23-Oct-07			27.2	5.48	5.39	5.44	87.4	86.2	8.1	28.4	5.1	5.2	4.7	8.5	7.3
592	WWFCZ2	S	MID-FLOOD	23-Oct-07			27.3	5.72	5.66		84.7	83.4	8.1	28.5	5.1	5.0		9.5	

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - October 2007

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
618	WRA3	B	MID-EBB	25-Oct-07			25.9	5.74	5.68	5.71	87.5	86.8	8.3	23.6	4.2	4.1	4.9	12.5	14.2
619	WWFC21	S	MID-EBB	25-Oct-07	14:19	41.20	26.2	5.84	5.86		88.7	87.5	8.3	23.6	3.5	3.6		11.0	
620	WWFC21	M	MID-EBB	25-Oct-07			26.0	5.87	5.82	5.87	87.6	86.9	8.3	23.7	3.1	3.1		14.0	
621	WWFC21	B	MID-EBB	25-Oct-07			25.8	5.95	5.83	5.89	89.3	88.7	8.3	23.6	4.0	3.9	3.5	9.0	11.3
622	WWFC22	S	MID-EBB	25-Oct-07			26.2	5.74	5.71		86.8	85.4	8.3	24.7	4.2	4.1		11.5	
623	WWFC22	M	MID-EBB	25-Oct-07	14:03	40.80	26.0	5.69	5.63	5.69	87.1	86.8	8.3	24.2	3.2	3.1		15.0	
624	WWFC22	B	MID-EBB	25-Oct-07			25.9	5.76	5.71	5.74	88.2	87.5	8.3	24.0	4.2	4.2	3.8	11.5	12.7
625	WFC2R1	S	MID-EBB	25-Oct-07			26.2	5.62	5.57		87.6	86.5	8.3	23.8	5.3	5.2		20.0	
626	WFC2R1	M	MID-EBB	25-Oct-07	14:35	38.60	26.0	5.75	5.71	5.66	87.5	86.9	8.3	23.7	5.1	5.2		14.5	
627	WFC2R1	B	MID-EBB	25-Oct-07			25.8	5.69	5.66	5.68	86.5	85.5	8.3	23.7	5.0	5.0	5.1	19.0	17.8
628	WFC2R2	S	MID-EBB	25-Oct-07			26.2	5.83	5.81		88.7	87.5	8.3	24.4	3.9	3.9		8.5	
629	WFC2R2	M	MID-EBB	25-Oct-07	13:50	39.30	26.1	5.75	5.73	5.78	87.4	87.1	8.3	24.4	4.0	4.0		18.5	
630	WFC2R2	B	MID-EBB	25-Oct-07			26.0	5.68	5.63	5.66	86.5	86.1	8.3	24.7	3.9	3.9	3.9	19.0	15.3
631	WWA1	S	MID-FLOOD	25-Oct-07			26.2	5.64	5.59		88.3	87.6	8.3	24.6	4.2	4.2		6.0	
632	WWA1	M	MID-FLOOD	25-Oct-07	9:27	7.20	26.2	5.72	5.63	5.65	88.4	87.7	8.3	24.7	6.0	5.9		11.0	
633	WWA1	B	MID-FLOOD	25-Oct-07			26.1	5.49	5.39	5.44	87.9	86.7	8.3	24.4	6.9	6.9	5.7	11.0	9.3
634	WWA2	S	MID-FLOOD	25-Oct-07			26.1	5.92	5.87		88.4	87.2	8.3	24.7	4.7	4.6		10.0	
635	WWA2	M	MID-FLOOD	25-Oct-07	9:13	6.90	26.0	5.88	5.73	5.85	87.9	86.8	8.3	24.6	5.7	5.6		11.0	
636	WWA2	B	MID-FLOOD	25-Oct-07			25.9	5.92	5.79	5.86	85.9	85.1	8.3	24.4	5.4	5.4	5.3	13.5	11.5
637	WWA3	S	MID-FLOOD	25-Oct-07			26.0	5.83	5.55		87.4	86.3	8.3	24.3	4.8	4.6		8.0	
638	WWA3	M	MID-FLOOD	25-Oct-07	9:00	6.70	25.8	5.73	5.64	5.64	86.8	85.9	8.3	24.7	5.2	5.3		13.0	
639	WWA3	B	MID-FLOOD	25-Oct-07			25.8	5.81	5.69	5.75	87.4	86.3	8.3	24.4	5.9	5.9	5.3	13.5	11.8
640	WRA1	S	MID-FLOOD	25-Oct-07			25.9	5.84	5.87		87.2	86.6	8.3	24.4	4.3	4.8		10.5	
641	WRA1	M	MID-FLOOD	25-Oct-07	9:41	33.80	25.9	5.83	5.76	5.85	88.1	87.4	8.3	24.6	5.4	5.4		13.5	
642	WRA1	B	MID-FLOOD	25-Oct-07			25.7	5.82	5.77	5.80	87.9	86.8	8.3	24.6	6.0	5.9	5.3	15.0	13.0
643	WRA2	S	MID-FLOOD	25-Oct-07			26.0	5.92	5.83		85.9	84.7	8.3	24.3	6.1	6.1		7.5	
644	WRA2	M	MID-FLOOD	25-Oct-07	9:56	34.20	25.9	6.01	5.92	5.92	85.4	84.3	8.3	24.4	7.5	7.4		10.0	
645	WRA2	B	MID-FLOOD	25-Oct-07			25.9	5.84	5.73	5.79	86.7	85.3	8.3	24.2	7.4	7.4	7.0	10.5	9.3
646	WRA3	S	MID-FLOOD	25-Oct-07			26.1	5.81	5.73		88.9	88.1	8.3	24.7	4.2	4.1		8.0	
647	WRA3	M	MID-FLOOD	25-Oct-07	10:10	32.90	26.0	5.92	5.84	5.83	88.4	87.2	8.3	24.1	5.2	5.2		11.0	
648	WRA3	B	MID-FLOOD	25-Oct-07			25.8	5.76	5.64	5.70	86.8	85.9	8.3	24.3	5.3	5.4	4.9	11.0	10.0
649	WWFC21	S	MID-FLOOD	25-Oct-07			26.0	5.73	5.68		87.4	86.3	8.3	24.1	3.4	3.4		5.0	
650	WWFC21	M	MID-FLOOD	25-Oct-07	10:52	40.70	25.8	5.72	5.66	5.70	88.8	87.9	8.3	23.9	3.3	3.4		7.5	
651	WWFC21	B	MID-FLOOD	25-Oct-07			25.8	5.92	5.87	5.90	86.3	85.8	8.3	23.8	5.3	5.1	4.0	11.0	7.8
652	WWFC22	S	MID-FLOOD	25-Oct-07			26.1	5.84	5.73		87.4	86.6	8.3	24.6	4.2	4.3		14.0	
653	WWFC22	M	MID-FLOOD	25-Oct-07	10:38	42.10	25.9	5.78	5.69	5.78	89.1	88.2	8.3	24.3	3.8	3.8		13.0	
654	WWFC22	B	MID-FLOOD	25-Oct-07			25.8	5.47	5.39	5.43	90.1	88.9	8.3	24.2	3.9	3.9	4.0	14.0	13.7
655	WFC2R1	S	MID-FLOOD	25-Oct-07			25.9	5.81	5.74		87.4	86.3	8.3	24.7	3.8	3.7		10.0	
656	WFC2R1	M	MID-FLOOD	25-Oct-07	11:06	39.80	25.9	5.49	5.41	5.61	88.1	87.2	8.3	24.8	4.1	4.1		5.5	
657	WFC2R1	B	MID-FLOOD	25-Oct-07			25.8	5.83	5.79	5.81	87.4	86.3	8.3	24.1	4.3	4.1	4.0	16.5	10.7
658	WFC2R2	S	MID-FLOOD	25-Oct-07			26.1	6.01	5.92		88.7	87.9	8.3	24.4	4.1	4.2		18.0	
659	WFC2R2	M	MID-FLOOD	25-Oct-07	10:23	38.80	25.9	5.84	5.77	5.89	86.4	85.7	8.3	24.3	4.2	4.2		9.0	
660	WFC2R2	B	MID-FLOOD	25-Oct-07			25.8	5.74	5.63	5.69	87.4	86.3	8.3	24.7	5.1	5.1	4.5	10.5	12.5
661	WWA1	S	MID-EBB	27-Oct-07			25.4	5.75	5.71		89.3	88.7	8.3	23.5	4.3	4.2		15.0	

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HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - October 2007

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
662	WWA1	M	MID-EBB	27-Oct-07	13:53	6.10	25.4	5.83	5.79	5.77	87.5	86.9	8.3	23.6	5.0	5.8		9.5	
663	WWA1	B	MID-EBB	27-Oct-07			25.3	5.92	5.87	5.90	89.4	88.3	8.3	23.6	5.4	5.5	5.2	14.5	13.0
664	WWA2	S	MID-EBB	27-Oct-07			25.4	5.65	5.54		83.4	82.9	8.3	23.7	5.3	5.2		23.0	
665	WWA2	M	MID-EBB	27-Oct-07	13:42	6.40	25.3	5.73	5.69	5.65	87.6	86.3	8.3	23.7	5.3	5.5		22.5	
666	WWA2	B	MID-EBB	27-Oct-07			25.3	5.82	5.80	5.81	85.7	84.9	8.3	23.6	5.6	5.6	5.4	21.0	22.2
667	WWA3	S	MID-EBB	27-Oct-07			25.4	5.95	5.85		86.6	85.5	8.3	23.6	5.7	5.6		11.0	
668	WWA3	M	MID-EBB	27-Oct-07	13:30	5.90	25.3	5.83	5.75	5.85	86.2	85.5	8.3	23.5	6.0	5.9		14.0	
669	WWA3	B	MID-EBB	27-Oct-07			25.3	5.91	5.87	5.89	88.3	87.6	8.3	23.5	5.7	5.7	5.8	13.0	12.7
670	WRA1	S	MID-EBB	27-Oct-07			25.4	5.87	5.79		90.5	89.7	8.3	23.4	5.2	5.1		8.0	
671	WRA1	M	MID-EBB	27-Oct-07	14:04	33.50	25.3	5.75	5.63	5.76	88.3	87.2	8.3	23.4	6.0	5.9		7.5	
672	WRA1	B	MID-EBB	27-Oct-07			25.2	5.84	5.81	5.83	89.6	87.5	8.3	23.3	5.5	5.8	5.6	6.0	7.2
673	WRA2	S	MID-EBB	27-Oct-07			25.4	6.03	6.06		90.2	89.6	8.3	23.7	5.5	5.6		15.0	
674	WRA2	M	MID-EBB	27-Oct-07	14:20	34.20	25.3	6.12	6.01	6.06	88.3	87.6	8.3	23.6	5.4	5.4		11.0	
675	WRA2	B	MID-EBB	27-Oct-07			25.3	5.98	5.93	5.96	86.9	85.4	8.3	23.5	5.3	5.1	5.4	12.5	12.8
676	WRA3	S	MID-EBB	27-Oct-07			25.4	5.84	5.76		86.9	85.4	8.3	23.3	5.5	5.3		10.5	
677	WRA3	M	MID-EBB	27-Oct-07	14:35	33.60	25.3	5.92	5.87	5.85	88.2	87.1	8.3	23.4	5.7	5.6		11.5	
678	WRA3	B	MID-EBB	27-Oct-07			25.2	5.88	5.76	5.82	88.5	87.6	8.3	23.6	5.8	5.8	5.6	7.0	9.7
679	WWFC21	S	MID-EBB	27-Oct-07			25.4	5.74	5.63		92.3	91.2	8.3	23.5	5.2	5.2		8.0	
680	WWFC21	M	MID-EBB	27-Oct-07	15:22	35.90	25.2	5.81	5.82	5.75	88.7	86.5	8.3	23.4					

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - October 2007

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-Oct-07	10:13	34.70	25.2	5.75	5.69	5.77	79.2	78.1	8.3	23.2	5.0	4.9	5.1	10.0	11.0
707	WRA3	M	MID-FLOOD	27-Oct-07			25.1	5.82	5.81		80.3	79.6	8.3	23.4	5.0	5.2		11.5	
708	WRA3	B	MID-FLOOD	27-Oct-07	11:00	39.20	25.0	5.68	5.61	5.85	78.5	76.5	8.3	23.3	5.3	5.2	4.5	11.5	10.7
709	WWFCZ1	S	MID-FLOOD	27-Oct-07			25.3	5.82	5.75		88.7	87.6	8.3	23.3	4.2	4.2		10.5	
710	WWFCZ1	M	MID-FLOOD	27-Oct-07	10:45	41.10	25.1	5.94	5.87	5.85	89.5	88.7	8.3	23.1	4.0	4.2	5.2	8.5	8.0
711	WWFCZ1	B	MID-FLOOD	27-Oct-07			24.9	5.95	5.82		88.6	87.5	8.3	23.2	5.1	5.1		13.0	
712	WWFCZ2	S	MID-FLOOD	27-Oct-07	11:13	38.70	25.2	5.99	5.83	5.88	87.3	86.5	8.3	23.4	5.2	5.2	4.2	8.0	12.7
713	WWFCZ2	M	MID-FLOOD	27-Oct-07			25.1	5.71	5.65		87.9	86.8	8.3	23.5	5.1	5.1		11.0	
714	WWFCZ2	B	MID-FLOOD	27-Oct-07	10:30	41.60	25.0	5.83	5.81	5.76	88.5	87.2	8.3	23.5	5.4	5.4	5.2	6.0	10.0
715	WFCZR1	S	MID-FLOOD	27-Oct-07			25.2	5.93	5.87		89.4	87.6	8.3	23.4	4.3	4.2		13.0	
716	WFCZR1	M	MID-FLOOD	27-Oct-07	15:28	6.00	25.0	5.96	5.86	5.63	88.3	87.5	8.3	23.4	4.2	4.1	5.9	12.5	18.0
717	WFCZR1	B	MID-FLOOD	27-Oct-07			24.9	5.75	5.63		86.9	85.4	8.3	23.2	4.1	4.2		12.5	
718	WFCZR2	S	MID-FLOOD	27-Oct-07	15:14	7.00	25.2	5.96	5.93	5.79	89.2	88.3	8.3	23.1	5.0	5.1	5.3	9.0	16.0
719	WFCZR2	M	MID-FLOOD	27-Oct-07			25.1	5.87	5.76		87.2	87.1	8.3	23.1	5.3	5.3		12.0	
720	WFCZR2	B	MID-FLOOD	27-Oct-07	15:00	6.00	24.9	5.75	5.77	5.65	86.9	86.3	8.3	23.2	5.3	5.3	5.8	9.0	14.8
721	WWA1	S	MID-EBB	30-Oct-07			25.2	5.86	5.81		86.3	85.8	8.2	25.1	6.2	6.1		14.5	
722	WWA1	M	MID-EBB	30-Oct-07	15:14	7.00	25.0	5.79	5.73	5.80	89.1	88.4	8.2	24.8	5.7	5.9	5.9	19.5	16.0
723	WWA1	B	MID-EBB	30-Oct-07			25.0	5.67	5.59		87.3	86.2	8.2	25.0	5.9	5.7		20.0	
724	WWA2	S	MID-EBB	30-Oct-07	15:00	6.00	25.1	6.01	5.94	5.85	88.1	87.4	8.2	24.9	5.2	5.1	5.8	16.0	18.0
725	WWA2	M	MID-EBB	30-Oct-07			25.0	5.63	5.57		87.1	86.3	8.2	24.9	5.5	5.6		15.5	
726	WWA2	B	MID-EBB	30-Oct-07	15:42	32.00	24.9	5.82	5.74	5.78	85.2	84.7	8.2	25.1	5.3	5.4	6.5	16.5	12.5
727	WWA3	S	MID-EBB	30-Oct-07			25.2	5.59	5.53		87.3	86.4	8.2	25.3	5.7	5.6		16.5	
728	WWA3	M	MID-EBB	30-Oct-07	15:55	34.00	25.1	5.71	5.63	5.99	87.2	86.6	8.2	24.9	5.9	6.0	5.9	14.5	16.0
729	WWA3	B	MID-EBB	30-Oct-07			25.1	5.88	5.81		85.4	84.7	8.2	25.1	5.7	5.6		13.5	
730	WRA1	S	MID-EBB	30-Oct-07	16:10	33.00	25.6	6.01	5.98	5.74	90.8	89.7	8.2	25.1	6.5	6.5	5.8	11.0	16.7
731	WRA1	M	MID-EBB	30-Oct-07			25.3	5.67	5.58		87.4	86.3	8.2	24.9	6.7	6.6		13.0	
732	WRA1	B	MID-EBB	30-Oct-07	16:27	42.00	25.2	5.74	5.63	5.69	88.1	87.2	8.2	24.6	6.3	6.2	6.1	13.5	16.3
733	WRA2	S	MID-EBB	30-Oct-07			25.7	6.12	6.03		86.4	85.8	8.2	24.6	5.8	5.7		18.5	
734	WRA2	M	MID-EBB	30-Oct-07	16:55	38.00	25.4	5.97	5.84	5.93	87.3	86.6	8.2	24.9	5.7	5.8	6.1	18.5	17.7
735	WRA2	B	MID-EBB	30-Oct-07			25.1	5.66	5.59		89.1	88.3	8.2	24.4	6.2	6.4		11.0	
736	WRA3	S	MID-EBB	30-Oct-07	16:27	42.00	25.6	5.74	5.62	5.70	90.1	89.2	8.2	25.1	5.8	5.7	5.8	20.0	16.5
737	WRA3	M	MID-EBB	30-Oct-07			25.3	5.83	5.77		87.4	86.2	8.2	24.7	6.1	6.0		16.5	
738	WRA3	B	MID-EBB	30-Oct-07	17:10	36.00	25.3	5.73	5.66	5.74	86.4	85.9	8.2	24.4	5.7	5.6	6.1	13.5	16.7
739	WWFCZ1	S	MID-EBB	30-Oct-07			25.3	5.94	5.87		92.1	91.3	8.2	25.3	6.2	6.1		20.0	
740	WWFCZ1	M	MID-EBB	30-Oct-07	16:42	38.00	24.9	6.01	5.93	5.83	90.8	89.7	8.2	24.9	5.9	5.8	5.8	13.0	17.7
741	WWFCZ1	B	MID-EBB	30-Oct-07			24.8	5.74	5.66		87.4	86.3	8.2	25.5	6.1	6.1		16.5	
742	WWFCZ2	S	MID-EBB	30-Oct-07	17:10	36.00	25.2	5.82	5.73	5.85	91.1	90.7	8.2	24.9	5.5	5.6	6.1	14.5	16.3
743	WWFCZ2	M	MID-EBB	30-Oct-07			25.0	5.92	5.84		89.2	88.4	8.2	24.7	5.9	5.8		18.0	
744	WWFCZ2	B	MID-EBB	30-Oct-07	16:27	42.00	24.8	6.13	6.04	5.69	87.3	86.6	8.2	24.7	5.9	5.9	5.8	20.5	17.7
745	WFCZR1	S	MID-EBB	30-Oct-07			25.3	5.72	5.66		87.1	86.3	8.2	25.1	6.0	5.9		16.5	
746	WFCZR1	M	MID-EBB	30-Oct-07	16:27	42.00	24.9	5.91	5.87	5.79	90.1	89.7	8.2	25.2	6.1	6.2	6.1	16.0	16.3
747	WFCZR1	B	MID-EBB	30-Oct-07			24.7	6.12	6.03		87.4	86.3	8.2	25.3	6.1	6.2		16.5	
748	WFCZR2	S	MID-EBB	30-Oct-07	16:27	42.00	25.0	5.74	5.67	5.61	88.1	87.7	8.2	25.2	5.7	5.6	5.7	16.5	17.2
749	WFCZR2	M	MID-EBB	30-Oct-07			24.6	5.56	5.48		92.8	91.7	8.2	24.9	5.9	5.8		13.5	

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - October 2007

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
750	WFCZR2	B	MID-EBB	30-Oct-07	10:57	7.00	24.5	5.71	5.63	5.67	93.2	92.7	8.2	24.9	5.5	5.6	5.7	18.5	16.2
751	WWA1	S	MID-FLOOD	30-Oct-07			24.4	5.96	5.87		87.2	86.3	8.2	24.9	6.0	5.9		18.5	
752	WWA1	M	MID-FLOOD	30-Oct-07	10:43	6.00	24.3	5.85	5.77	5.86	89.1	88.7	8.2	25.3	5.9	6.0	6.0	19.5	19.0
753	WWA1	B	MID-FLOOD	30-Oct-07			24.3	5.82	5.73		91.1	90.6	8.2	25.2	6.1	6.0		19.0	
754	WWA2	S	MID-FLOOD	30-Oct-07	10:30	6.00	24.5	5.74	5.66	5.70	87.4	86.3	8.2	25.4	5.9	5.7	5.9	15.0	16.8
755	WWA2	M	MID-FLOOD	30-Oct-07			24.4	5.58	5.47		89.2	88.4	8.2	25.2	5.9	6.0		17.0	
756	WWA2	B	MID-FLOOD	30-Oct-07	11:10	34.00	24.4	5.74	5.65	5.68	87.9	86.8	8.2	25.2	5.9	5.8	6.0	18.5	15.2
757	WWA3	S	MID-FLOOD	30-Oct-07			24.3	5.91	5.73		87.4	86.3	8.2	25.1	5.9	5.7		14.5	
758	WWA3	M	MID-FLOOD	30-Oct-07	11:27	33.00	24.3	5.79	5.68	5.75	88.1	86.9	8.2	24.9	6.0	5.8	5.9	18.5	14.8
759	WWA3	B	MID-FLOOD	30-Oct-07			24.3	5.58	5.44		87.4	86.6	8.2	25.1	5.0	4.9		14.5	
760	WRA1	S	MID-FLOOD	30-Oct-07	11:39	31.00	24.2	5.74	5.66	5.65	85.8	84.3	8.2	25.5	6.1	6.0	5.6	15.0	16.8
761	WRA1	M	MID-FLOOD	30-Oct-07			24.0	5.99	5.63		86.6	85.8	8.2	25.3	6.2	6.1		15.5	
762	WRA1	B	MID-FLOOD	30-Oct-07	12:22	37.00	24.0	5.74	5.63	5.79	87.2	86.4	8.2	25.3	5.9	5.7	5.9	13.0	20.5
763	WRA2	S	MID-FLOOD	30-Oct-07			24.1	5.81	5.77		87.1	86.5	8.2	25.4	5.7	5.9		13.0	
764	WRA2	M	MID-FLOOD	30-Oct-07	12:08	38.00	23.9	5.84	5.73	5.65	88.4	87.3	8.2	25.7	5.6	5.5	5.4	15.5	20.7
765	WRA2	B	MID-FLOOD	30-Oct-07			23.9	5.69	5.61		86.4	85.3	8.2	25.4	6.2	6.1		16.0	
766	WRA3	S	MID-FLOOD	30-Oct-07	12:45	37.00	24.2	5.84	5.77	5.86	87.2	86.3	8.2	25.3	5.5	5.6	5.7	17.0	15.2
767	WRA3	M	MID-FLOOD	30-Oct-07			24.1	5.49	5.43		89.1	88.2	8.2	25.8	5.9	5.8		19.0	
768	WRA3	B	MID-FLOOD	30-Oct-07	12:54	43.00	24.1	5.62	5.55	5.59	85.4	85.9	8.2	25.7	5.5	5.4	5.7	14.5	17.2
769	WWFCZ1	S	MID-FLOOD	30-Oct-07			25.0	6.12	6.03		86.4	85.8	8.2	25.3	5.9	5.9		23.0	
770	WWFCZ1	M	MID-FLOOD	30-Oct-07	12:08	38.00	24.9	5.94	5.83	5.98	89.3	88.4	8.2	25.4	6.0	6.1	5.9	19.0	20.5
771	WWFCZ1	B	MID-FLOOD	30-Oct-07			24.8	5.78	5.62		88.7	87.4	8.2	25.2	5.7	5.6		19.5	
772	WWFCZ2	S	MID-FLOOD	30-Oct-07	12:45	37.00	24.9	5.78	5.63	5.78	86.3	85.8	8.2	25.8	5.8	5.7	5.7	19.0	15.2
773	WWFCZ2	M	MID-FLOOD	30-Oct-07			24.7	5.92	5.87		89.2	88.3	8.2	25.6	4.9	5.1		22.5	
774	WWFCZ2	B	MID-FLOOD	30-Oct-07	12:54	43.00	24.7	5.84	5.73	5.79	87.4	86.5	8.2	25.5	5.5	5.5	5.7	20.5	17.2
775	WFCZR1	S	MID-FLOOD	30-Oct-07			24.8	5.98	5.87		88.1	86.9	8.2	25.6	5.8	5.7		17.0	
776	WFCZR1	M	MID-FLOOD	30-Oct-07	12:45	37.00	24.8	5.83	5.74	5.86	87.4	86.3	8.2	25.4	5.7	5.6	5.7	16.0	

Appendix E

**Investigation summary
on marine water quality
exceedances**

Date	Tide	Location	Exceedance of Monitoring Data												ET's investigation	CT's action	Closing Date	Remark
			DO (mg/L)			Tby (NTU)			SS (mg/L)									
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station						
12-Oct-07	Mid-ebb	WWA1	-	-	-	6.5	7.6	7.9	13.0	17.3	27.2	-	-	-	Silt curtain at Seawall A near Grand Bay Villa was being removed during marine water quality monitoring on 12 October 2007. The exceedances were likely due to the construction works of the Project.	CT advised that the removal of silt curtain has been completed on 12 October 2007	15-Oct-07	Refer to ET's field record & CT's daily records.
12-Oct-07	Mid-ebb	WWA2	-	-	-	6.5	6.5	7.5	13.0	14.7	18.8	-	-	-	Ditto	Ditto	Ditto	Ditto
12-Oct-07	Mid-ebb	WWA3	-	-	-	-	-	-	13.0	7.5	20.0	-	-	-	Ditto	Ditto	Ditto	Ditto
12-Oct-07	Mid-flood	WWA3	-	-	-	6.6	9.9	11.4	-	-	-	-	-	-	Ditto	Ditto	Ditto	Ditto

Date	Tide	Location	Exceedance of Monitoring Data												ET's investigation	CT's action	Closing Date	Remark
			DO (mg/L)			Tby (NTU)			SS (mg/L)									
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station						
13-Oct-07	Mid-ebb	WWA3	-	-	-	-	-	-	-	-	-	-	13.0	14.8	15.7	No action	9-Nov-07	Refer to ET's field record & CT's daily records.
13-Oct-07	Mid-flood	WWFCZ2	-	-	-	-	-	-	-	-	-	-	17.0	19.0	20.7	Ditto	Ditto	Ditto
16-Oct-07	Mid-ebb	WWA2	-	-	-	-	-	-	-	-	-	-	13.0	14.2	14.5	Ditto	Ditto	Ditto
16-Oct-07	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	-	-	-	13.0	12.0	14.8	Ditto	Ditto	Ditto
16-Oct-07	Mid-ebb	WWFCZ2	-	-	-	-	-	-	-	-	-	-	13.0	15.7	16.7	Ditto	Ditto	Ditto
18-Oct-07	Mid-ebb	WWA3	-	-	-	-	-	-	-	-	-	-	13.0	12.3	13.7	Ditto	Ditto	Ditto
23-Oct-07	Mid-ebb	WWA1	-	-	-	-	-	-	-	-	-	-	13.0	5.2	16.8	Ditto	Ditto	Ditto
25-Oct-07	Mid-ebb	WWA1	-	-	-	-	-	-	-	-	-	-	13.0	16.5	17.2	Ditto	Ditto	Ditto
27-Oct-07	Mid-ebb	WWA2	-	-	-	-	-	-	-	-	-	-	13.0	12.8	22.2	Ditto	Ditto	Ditto
30-Oct-07	Mid-ebb	WWA1	-	-	-	-	-	-	-	-	-	-	13.0	12.5	18.0	Ditto	Ditto	Ditto
30-Oct-07	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	-	-	-	13.0	16.3	16.5	Ditto	Ditto	Ditto
30-Oct-07	Mid-ebb	WWFCZ2	-	-	-	-	-	-	-	-	-	-	13.0	16.2	17.7	Ditto	Ditto	Ditto
30-Oct-07	Mid-flood	WWA1	-	-	-	-	-	-	-	-	-	-	17.0	15.2	19.0	Ditto	Ditto	Ditto
30-Oct-07	Mid-flood	WWFCZ1	-	-	-	-	-	-	-	-	-	-	17.0	15.2	20.5	Ditto	Ditto	Ditto
30-Oct-07	Mid-flood	WWFCZ2	-	-	-	-	-	-	-	-	-	-	17.0	17.2	20.7	Ditto	Ditto	Ditto

Appendix F
**Silt curtain daily
inspection record**



Project : Castle Peak Road Improvement

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Seawall B Silt Curtain Daily Inspection Record

Date	Condition	Action
01/10/2007 (Mon)	Public Holiday	Public Holiday
02/10/2007 (Tue)	No muddy water observed.	N/A
03/10/2007 (Wed)	No muddy water observed.	N/A
04/10/2007 (Thu)	No muddy water observed.	N/A
05/10/2007 (Fri)	Little muddy water was observed.	Stop the work immediately, the subcontractor repair the silt curtain in the afternoon.
06/10/2007 (Sat)	No muddy water observed.	N/A
07/10/2007 (SUN)		

Inspected by
Chun Wo

Gary Lam

Date:

15/10/07

Inspected by
MHJV

[Signature]

Date:

15/10/07

Project : Castle Peak Road Improvement

Seawall B Silt Curtain Daily Inspection Record

Date	Condition	Action
08/10/2007 (Mon)	No muddy water observed.	N/A
09/10/2007 (Tue)	No muddy water observed.	N/A
10/10/2007 (Wed)	No muddy water observed.	N/A
11/10/2007 (Thu)	No muddy water observed.	N/A
12/10/2007 (Fri)	No muddy water observed. Site curtain at Seawall A has been removed.	N/A
13/10/2007 (Sat)	No muddy water observed. All the marine works has been completed on 12 Oct 2007. No inspection is required.	N/A
14/10/2007 (SUN)		

Inspected by
Chun Wo

Gary Lam

Date:

15/10/07

Inspected by
MHJV

[Signature]

Date:

15/10/07