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 2006

Second Issue

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 2006

November 2006

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Meinhardt Halcrow JV
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421 Queen's Road West,
Hong Kong

Attn : Mr. Michael S Harfoot

13 November 2006

Dear Sir,

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

We refer to the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – October 2006 received via emails on 8 November 2006 from Ove Arup & Partners Hong Kong Ltd., the Environmental Team (ET) of Castle Peak Road Improvement – West of Tsing Lung Tau (Remaining Contract).

Having addressed the IEC's comment on 9 November 2006 and further comment on 11 November 2006, the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – October 2006 is verified to be acceptable for onward submission to the Engineer, HyD, EPD and AFCD.

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

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

Y T Tang
Independent Environmental Checker

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

ARUP

Document Verification

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Executive Summary

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

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 levels for surface & middle and bottom positions were 5.67 mg/L at WWA3 on 9 October 2006 and 5.45 mg/L at WWFCZ1, WWA3, WWFCZ2 and WWA3 on 11, 25, 27 and 31 October 2006, respectively. 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 was 14.1 Nephelometric Turbidity Unit (NTU) at WWA1 on 9 October 2006. There were exceedances of Tby Baseline Check Criteria on 13 October 2006 (1 event) and 23 October 2006 (2 events), respectively. There was 1 exceedance on 11 October 2006 of Action Level when compared with the established A/L Levels criteria in Section 3.3 of this report. There were exceedances of Limit Level on 5 October 2006 (3 events) and 9 October 2006 (4 events) when compared with the established A/L Levels in Section 3.3 of this report.

The highest SS level was 27.5 mg/L at WWA3 on 23 October 2006. There were exceedances of SS Baseline Check Criteria on 3 October 2006 (2 events), 5 October 2006 (3 events), 9 October 2006 (2 events), 13 October 2006 (1 event), 20 October 2006 (1 event) and 23 October 2006 (1 event) respectively, when compared with the established baseline check criteria in Section 3.3 of this report. There was 1 exceedance of SS Limit Level on 23 October 2006 when compared with the established A/L Levels in Section 3.3 of this report.

Summary of Mid-Flood Tide

The lowest DO levels for surface & middle and bottom positions were 5.68 mg/L at WWA3 on 16 October 2006 and 5.43 mg/L at WWA2 on 27 October 2006 respectively. There was no exceedance of DO levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 11.1 NTU at WWA1 on 9 October 2006. There were exceedances of Tby Baseline Check Criteria on 5 October 2006 (1 event) and 13 October 2006 (1 event) when compared with the established baseline check criteria in Section 3.3 of this report. There were exceedances of Tby Action Level on 5 October 2006 (1 event), 9 October 2006 (1 event) and 11 October 2006 (1 event), respectively when compared with the established A/L Levels in Section 3.3 of this report. There were exceedances of Tby Limit Level on 5 October 2006 (1 event), 9 October 2006 (2 events) and 11 October 2006 (1 event) respectively, when compared with the established A/L Levels in Section 3.3 of this report.

The highest SS level was 26.0 mg/L at WWFCZ1 on 9 October 2006. There were exceedances of SS Baseline Check Criteria on 5 October 2006 (1 event), 9 October 2006 (2 events), 11 October (1 event) and 25 October 2006 (1 event) respectively, when compared with the established baseline check criteria in Section 3.3 of this report. There were exceedances of SS Action Level and Limit

Level on 5 October 2006 (1 event) and 9 October 2006 (1 event) when compared with the established A/L Levels in Section 3.3 of this report.

Environmental Auditing

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

Air quality: Cover excavated materials and exposed slopes;

Noise: Close the door while generator in operation;

Water quality: Frequent clearing of mud trails and stagnant water; provision of treatment of site surface runoff before discharging;

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

Chemical Waste: Provision of driptray to oil drum; storage of chemical waste in the chemical waste storage tank

Waste Disposal

A total of 24.46 tonnes of Construction & Demolition (C&D) waste and a total of 2,947.41 tonnes of C&D materials (transported by trucks) were disposed of at WENT Landfill and Public Filling Reception Facility at Tuen Mun Area 38 respectively in October 2006. No chemical waste was disposed of during the reporting period.

Complaint Records

No environmental complaint was received during the reporting period.

Exceedance

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

No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations during the reporting period. During the reporting period, formwork, reinforcement works and concreting were conducted at Seawall A and B. Hence, the exceedances were unlikely due to the construction works of the Project.

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

Notification of Summons and Successful Prosecution

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

Environmental Licences

There was no environmental licence granted during the reporting period.

1 Introduction

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

1.1 Project Background

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

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

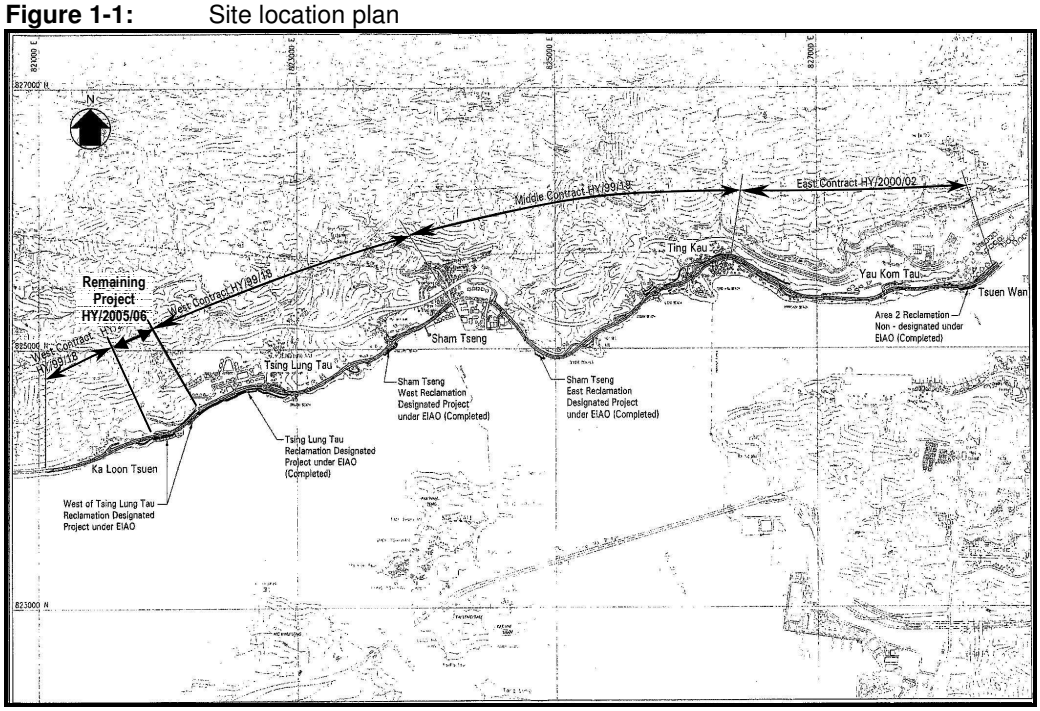
Following subsequent developments, the Route 10 project was placed under review, and Government therefore decided to implement the excised section of CPR (the Remaining Project) under the original CPR Improvement project. **Figure 1-1** shows the site location plan.

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

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

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

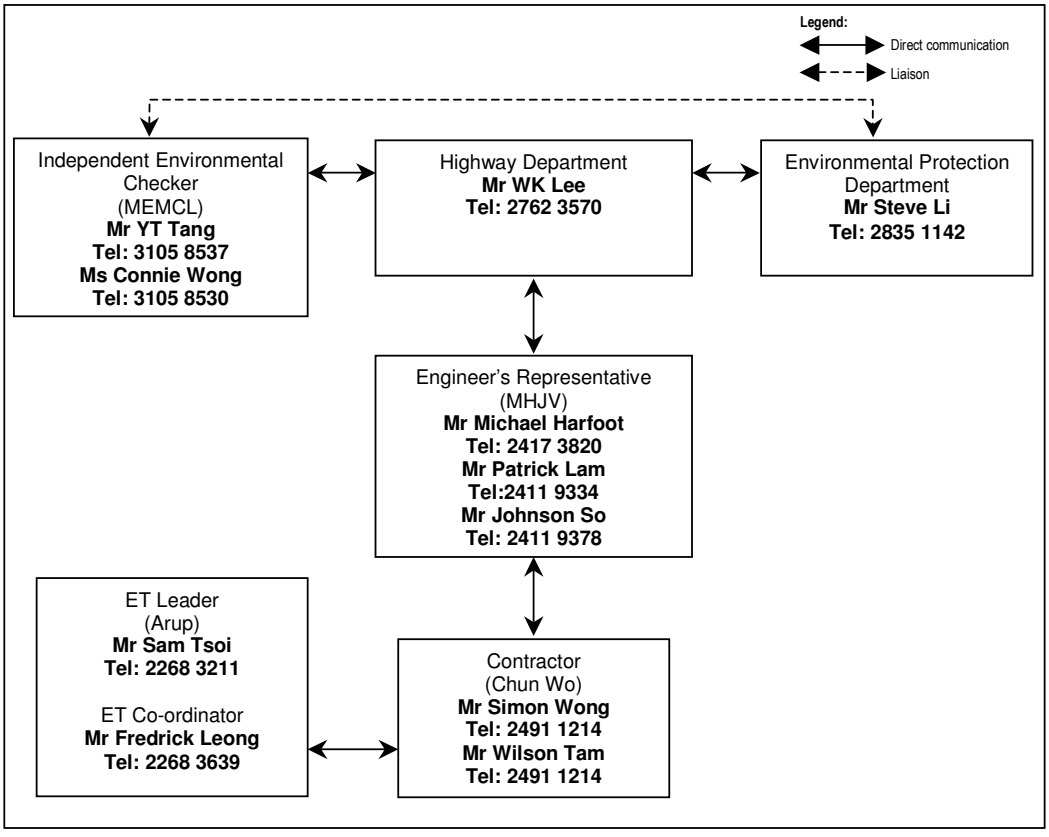
Figure 1-1: Site location plan



1.2 Project Organisation

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

Figure 1-2: Project organisation chart



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

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

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

The duties of IEC include the followings:

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

1.3 Impact EM&A Requirements

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

2 Scope of Construction Works

2.1 Construction Programme

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

2.2 Construction Activities of the Month

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

- Construction of upper RC retaining wall and backfilling at Seawall A; and
- Backfilling and complete Rock Armour 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 2006 and the tentative schedule for November 2006 are attached in **Appendix B**.

3.1 Construction Noise

3.1.1 Monitoring Parameters

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

3.1.2 Monitoring Frequency

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

Table 3-1: Construction noise monitoring parameters and frequency

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

* The $L_{eq(5\ min)}$ 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

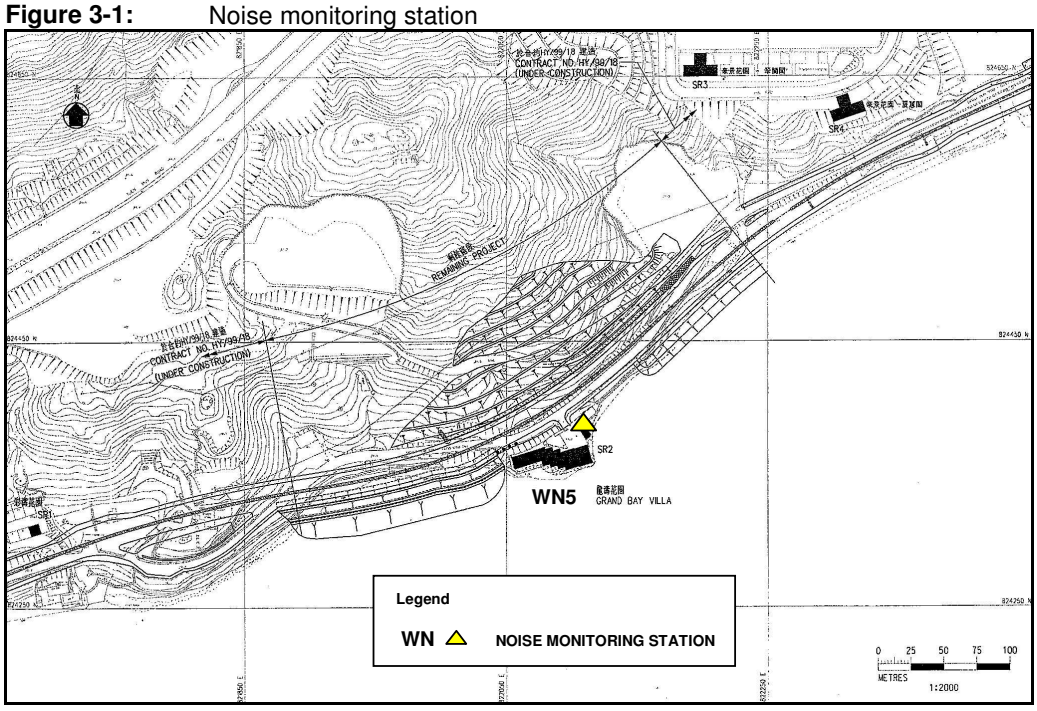
Noise monitoring will be conducted at one designated location as shown in **Figure 3-1**. The details of the noise monitoring location are given in **Table 3-2**. The measurements will be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

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.

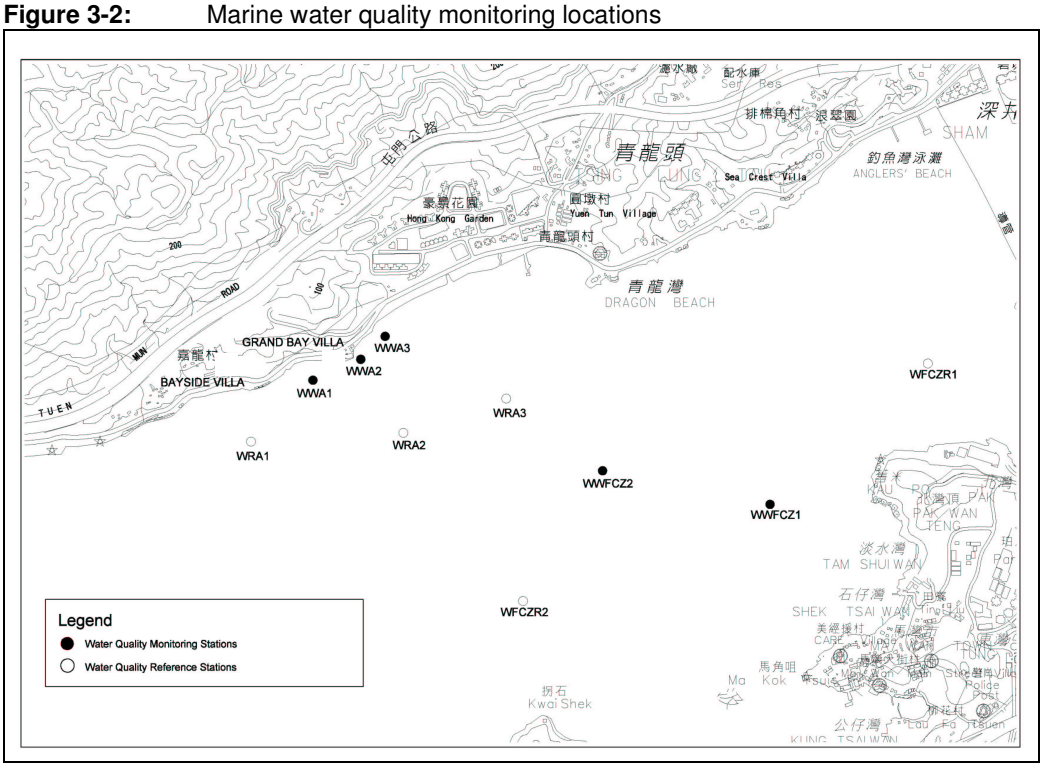
3.2.3 Monitoring Locations

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	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.	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.	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.	1. Submit noise mitigation proposals to IEC. 2. Implement noise mitigation proposals.
Limit Level	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	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.	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.	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	1. Repeat in-situ measurement to confirm findings. 2. Identify source(s) of impact. 3. Inform the IEC and the CT. 4. Check monitoring data, all plant, equipment and the CT's working methods. 5. Discuss mitigation measures with the IEC and the CT. 6. Repeat measurement on next day of exceedance.	1. Discuss with the ET Leader and the CT on the mitigation measures. 2. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC on the proposed mitigation measures. 2. Make agreement on the mitigation measures to be implemented.	1. Inform the ER and confirm notification of the non-compliance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader and the IEC and propose mitigation measures to the IEC and the ER. 6. Implement the agreed mitigation measures.
Action level being exceeded by more than one consecutive days	1. Repeat in-situ measurement to confirm findings. 2. Identify source(s) of impact. 3. Inform the IEC and the CT. 4. Check monitoring data, all plant, equipment and the CT's working methods. 5. Discuss mitigation measures with the IEC and the CT. 6. Ensure mitigation measures are implemented. 7. Prepare to increase the monitoring frequency to daily. 8. Repeat measurement on next day of exceedance.	1. Discuss with the ET Leader and the CT on the mitigation measures. 2. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IEC on the proposed mitigation measures. 2. Make agreement on the mitigation measures to be implemented. 3. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the non-compliance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader and the IEC and propose mitigation measures to the IEC and the ER within 3 working days. 6. Implement the agreed mitigation measures.
Limit Level				
Limit level being exceeded by one sampling day	1. Repeat in-situ measurement to confirm findings. 2. Identify source(s) of impact. 3. Inform the IEC, the CT and the DEP. 4. Check monitoring data, all plant, equipment and the CT's working methods. 5. Discuss mitigation measures with the IEC, the ER and the CT. 6. Ensure mitigation measures are implemented. 7. Increase the monitoring frequency to daily until no exceedance of the Limit Level.	1. Discuss with the ET Leader and the CT on the mitigation measures. 2. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IEC, the ET Leader and the CT on the proposed mitigation measures. 2. Request the CT to critically review the working methods. 3. Make agreement on the mitigation measures to be implemented. 4. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the non-compliance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader, the IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days. 6. Implement the agreed mitigation measures.
Limit level being exceeded by more than one consecutive days	1. Repeat in-situ measurement to confirm findings. 2. Identify source(s) of impact. 3. Inform the IEC, the CT and the DEP. 4. Check monitoring data, all plant, equipment and the CT's working methods. 5. Discuss mitigation measures with the IEC, the ER and the CT. 6. Ensure mitigation measures are implemented. 7. Increase the monitoring frequency to daily until no exceedance of the Limit Level for two consecutive days.	1. Discuss with the ET Leader and the CT on the mitigation measures. 2. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IEC, the ET Leader and the CT on the proposed mitigation measures. 2. Request the CT to critically review the working methods. 3. Make agreement on the mitigation measures to be implemented. 4. Assess the effectiveness of the implemented mitigation measures. 5. 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.	1. Inform the ER and confirm notification of the non-compliance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader, the IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days. 6. Implement the agreed mitigation measures. 7. 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.

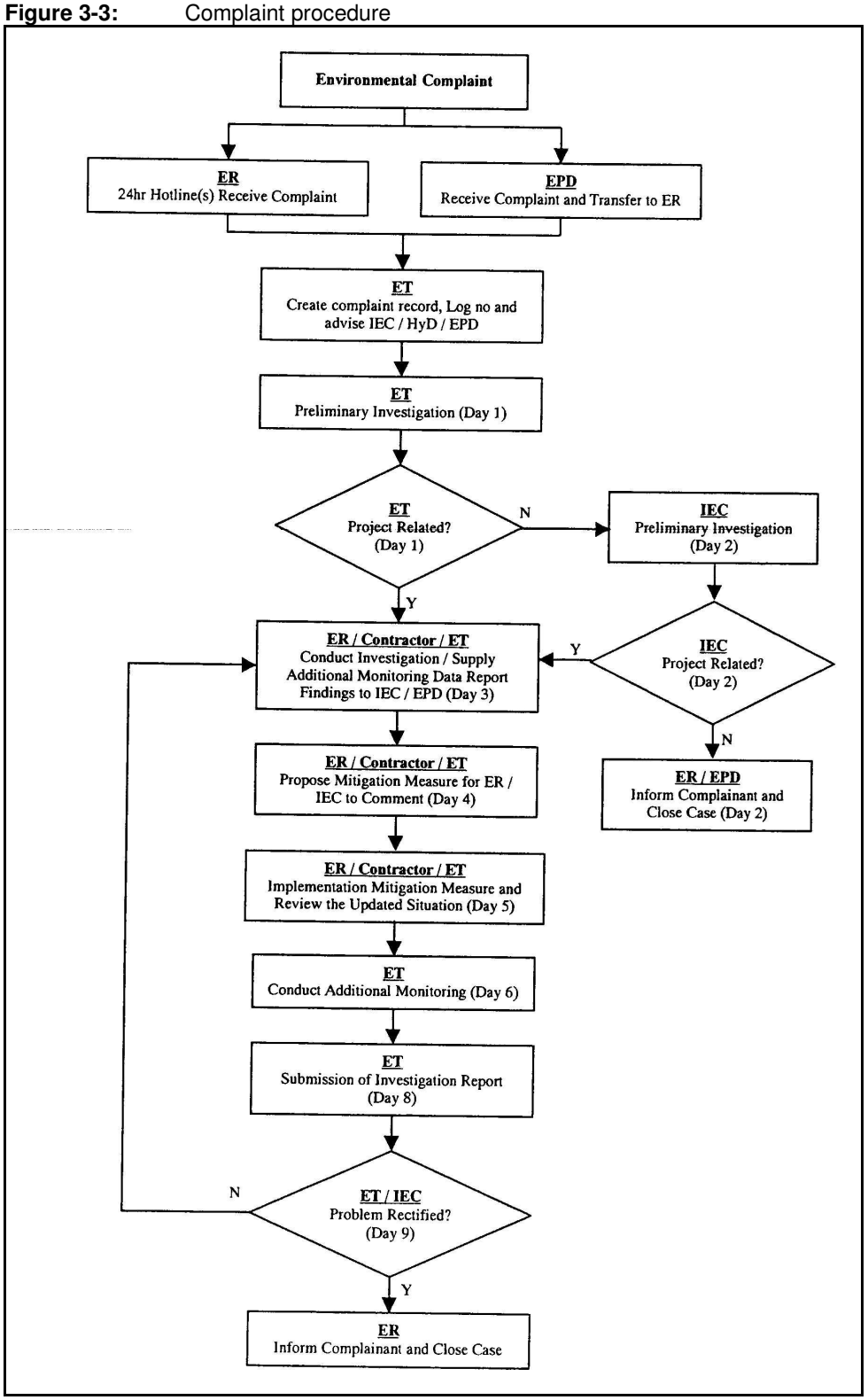
h) The ET will report on the investigation results and the subsequent actions to the source of complaint for responding to the complainant. If the source of complaint is via EPD, the results will be reported within the time frame assigned by EPD.

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	Brüel & Kjær UA0237		1
Acoustical calibrator	Brüel & Kjær 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^{o}C; and
   - A salinity level in the range of 0-40 ppt.

ii. It had a membrane electrode with automatic temperature compensation complete with a cable.

5.2.2 Tby Measurement Instrument

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

5.2.3 SS

The following equipment was used to monitor the SS:

i. A water sampler comprised a transparent PVC cylinder, with a capacity of not less than 2 litres and which can be effectively sealed with latex cups at both ends. The sampler had a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was at the selected water depth.

ii. Water samples for SS measurement were collected in high density polythene bottles, packed in ice (cooled at 4^{o}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 undertaking during mid-ebb and mid-flood tidal cycles at 10 designated locations including 5 impact and 5 control stations. A baseline check was conducted on 27 February 2006 prior to the commencement of marine works and a compliance checking mechanism was established in accordance with the Baseline Monitoring Report. Detailed water quality monitoring results are given in **Appendix D**. Graphical presentation of the monitoring results are illustrated in **Figures 5-1 to 5-8**.

Summary of Mid-Ebb Tide

The lowest DO levels for surface & middle and bottom positions were 5.67 mg/L at WWA3 on 9 October 2006 and 5.45 mg/L at WWFCZ1, WWA3, WWFCZ2 and WWA3 on 11, 25, 27 and 31 October 2006, respectively. 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 was 14.1 Nephelometric Turbidity Unit (NTU) at WWA1 on 9 October 2006. There were exceedances of Tby Baseline Check Criteria on 13 October 2006 (1 event) and 23 October 2006 (2 events), respectively. There was 1 exceedance on 11 October 2006 of Action Level when compared with the established A/L Levels criteria in Section 3.3 of this report. There were exceedances of Limit Level on 5 October 2006 (3 events) and 9 October 2006 (4 events) when compared with the established A/L Levels in Section 3.3 of this report.

The highest SS level was 27.5 mg/L at WWA3 on 23 October 2006. There were exceedances of SS Baseline Check Criteria on 3 October 2006 (2 events), 5 October 2006 (3 events), 9 October 2006 (2 events), 13 October 2006 (1 event), 20 October 2006 (1 event) and 23 October 2006 (1 event) respectively, when compared with the established baseline check criteria in Section 3.3 of this report. There was 1 exceedance of SS Limit Level on 23 October 2006 when compared with the established A/L Levels in Section 3.3 of this report.

Summary of Mid-Flood Tide

The lowest DO levels for surface & middle and bottom positions were 5.68 mg/L at WWA3 on 16 October 2006 and 5.43 mg/L at WWA2 on 27 October 2006 respectively. There was no exceedance of DO levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 11.1 NTU at WWA1 on 9 October 2006. There were exceedances of Tby Baseline Check Criteria on 5 October 2006 (1 event) and 13 October 2006 (1 event) when compared with the established baseline check criteria in Section 3.3 of this report. There were exceedances of Tby Action Level on 5 October 2006 (1 event), 9 October 2006 (1 event) and 11 October 2006 (1 event), respectively when compared with the established A/L Levels in Section 3.3 of this report. There were exceedances of Tby Limit Level on 5 October 2006 (1 event), 9 October 2006 (2 events) and 11 October 2006 (1 event) respectively, when compared with the established A/L Levels in Section 3.3 of this report.

The highest SS level was 26.0 mg/L at WWFCZ1 on 9 October 2006. There were exceedances of SS Baseline Check Criteria on 5 October 2006 (1 event), 9 October 2006 (2 events), 11 October (1 event) and 25 October 2006 (1 event) respectively, when compared with the established baseline check criteria in Section 3.3 of this report. There were exceedances of SS Action Level and Limit Level on 5 October 2006 (1 event) and 9 October 2006 (1 event) when compared with the established A/L Levels in Section 3.3 of this report.

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

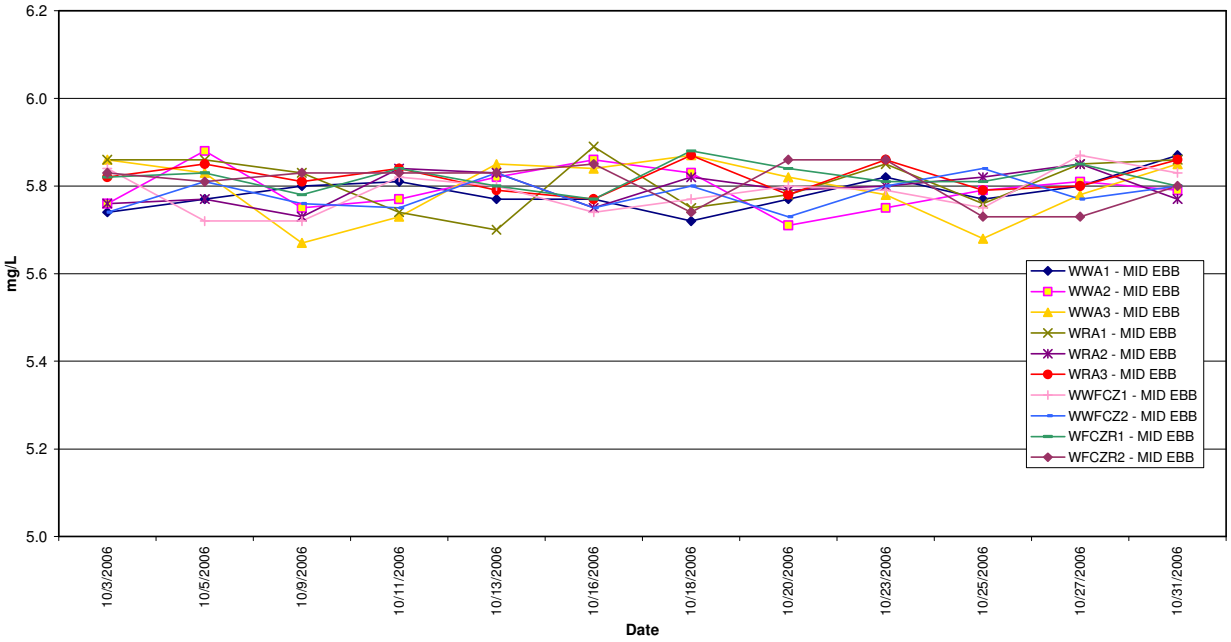


Figure 5-2: DO levels (bottom level) at mid-ebb tide in October 2006

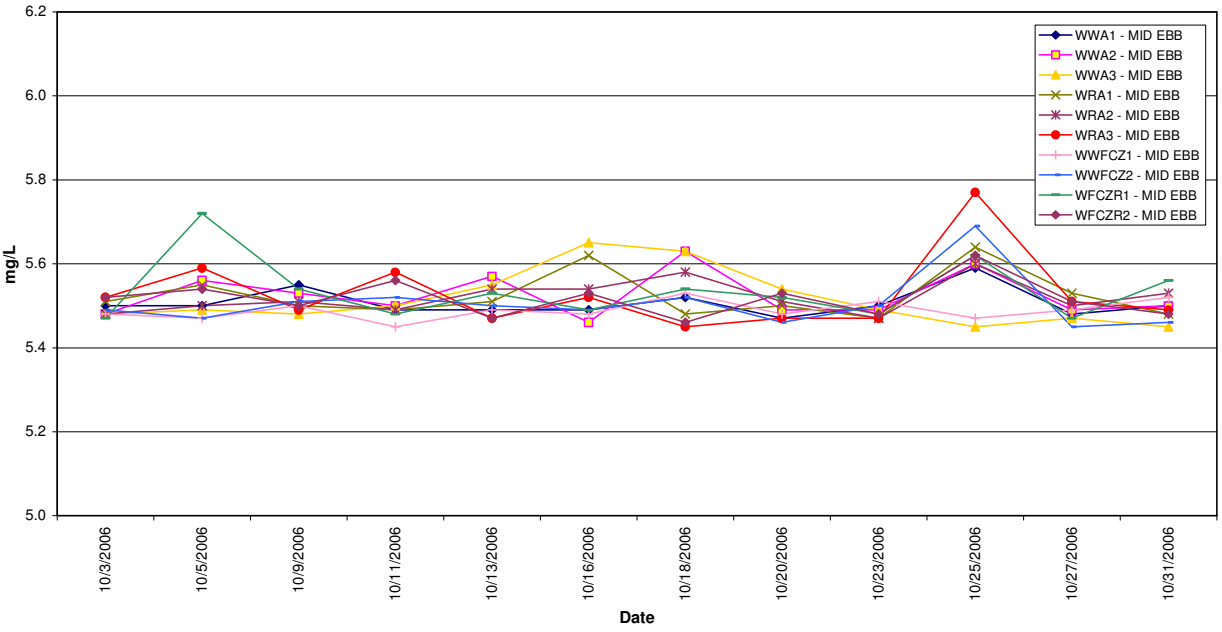


Figure 5-3: DO levels (surface and middle level) at mid-flood tide in October 2006

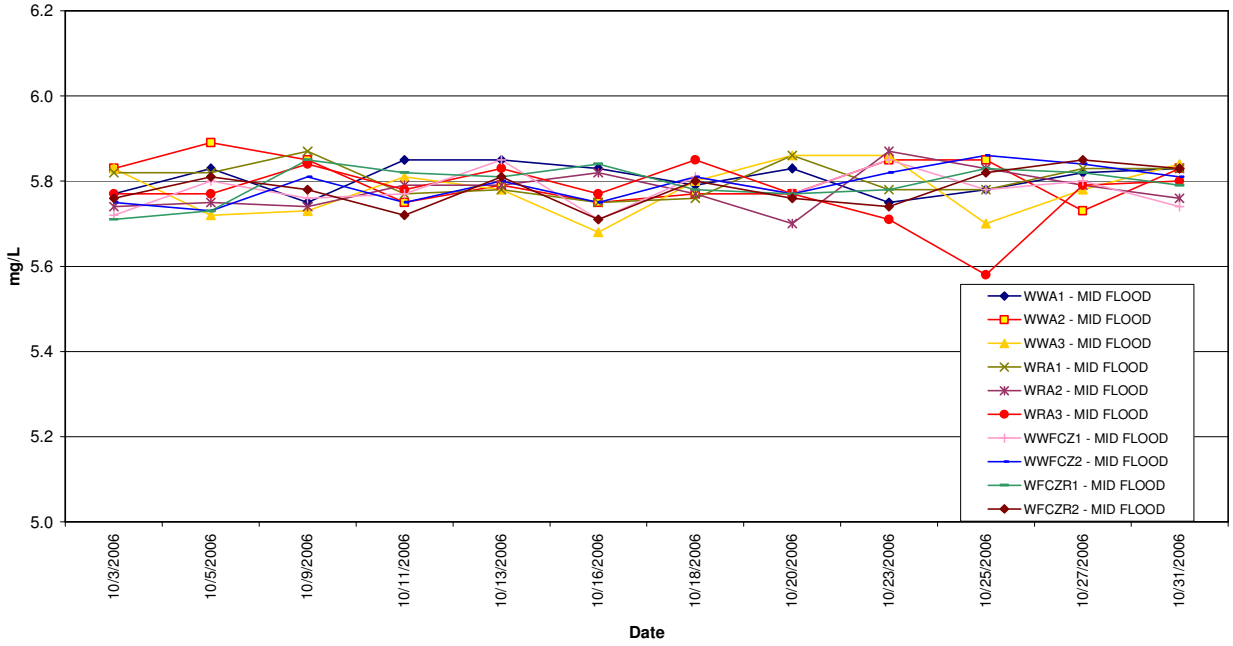


Figure 5-4: DO levels (bottom level) at mid-flood tide in October 2006

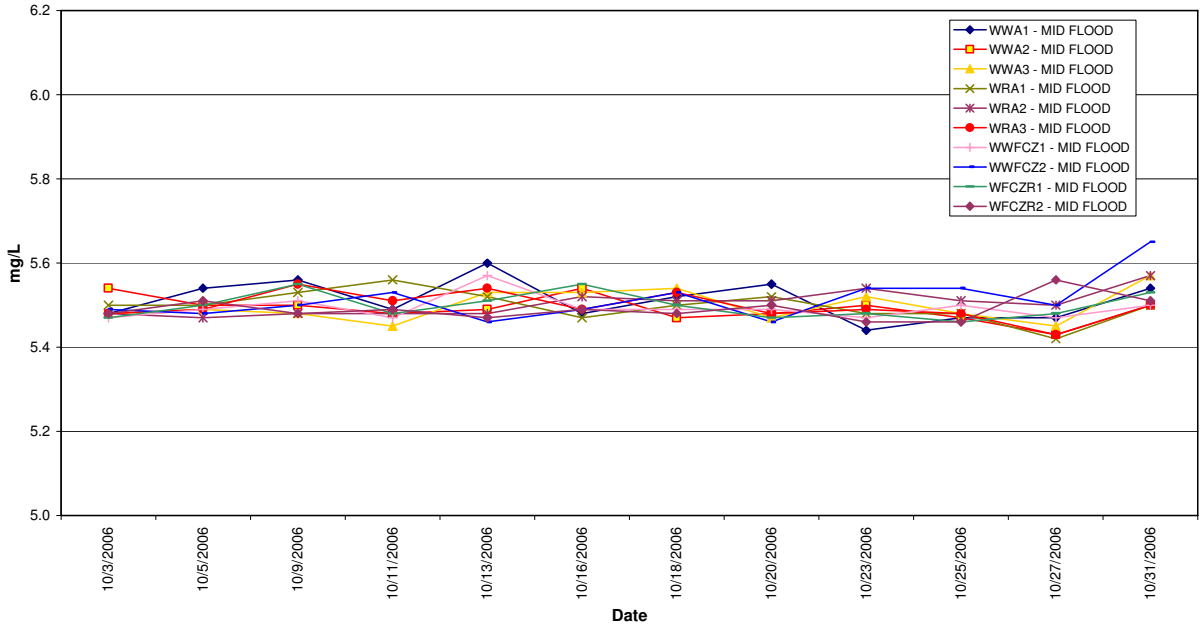


Figure 5-5: Turbidity levels at mid-ebb tide in October 2006

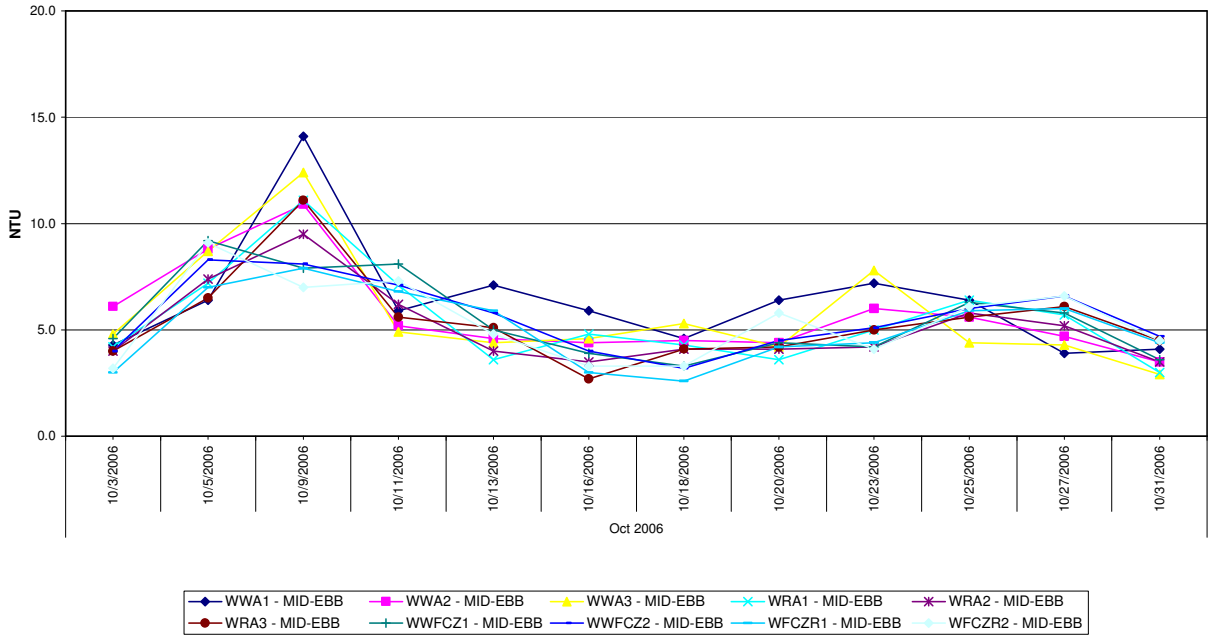


Figure 5-6: Turbidity levels at mid-flood tide in October 2006

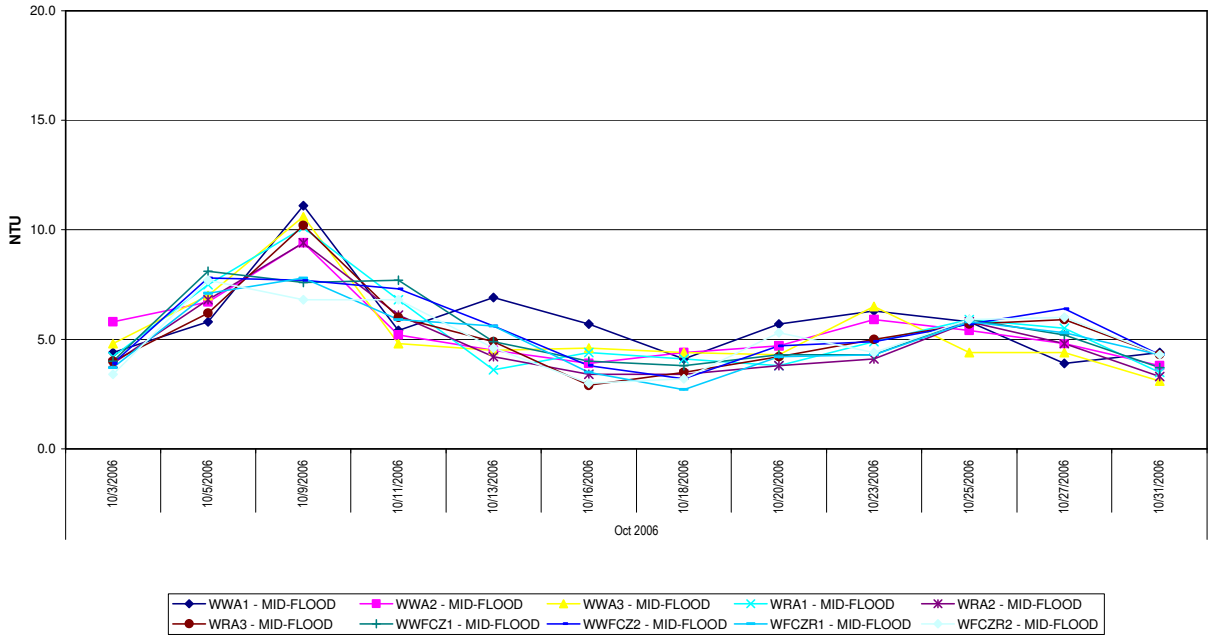


Figure 5-7: SS levels at mid-ebb tide in October 2006

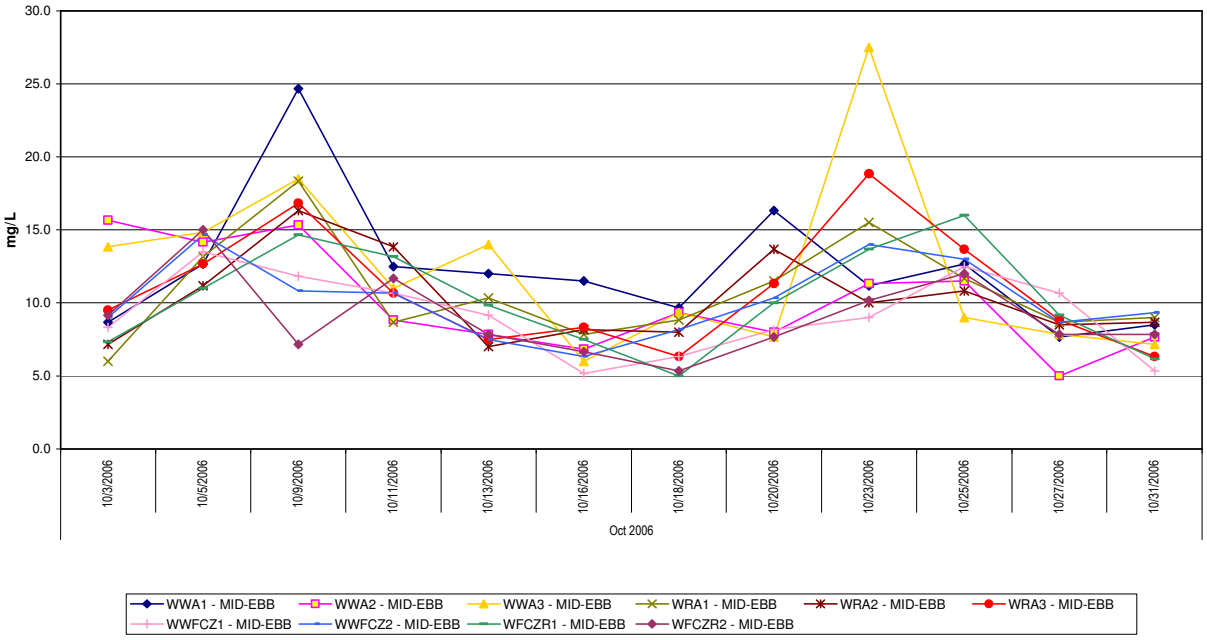
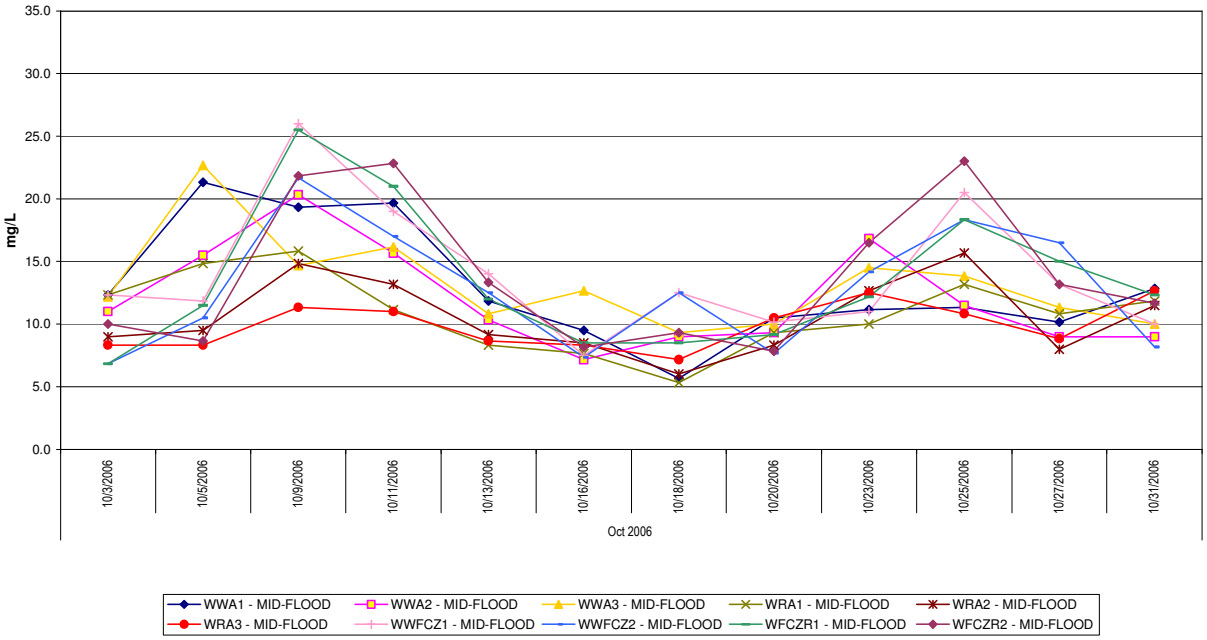


Figure 5-8: SS levels at mid-flood tide in October 2006



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

6.1 Site Audit Findings

Four weekly environmental site audits were carried out on 5, 12, 20 and 26 October 2006. The findings of the site audits are summarised in **Table 6-1**.

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

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
5 October 2006 (WTLT 037)	1. Construction waste was observed along flat-channel in the bore piling site.	CT was reminded to clear the waste as soon as possible.	Agreed with the ET's advice.	12 October 2006
	2. Haul road was observed dry in the bore piling site.	CT was reminded to provide water spraying frequently, especially during dry and windy days.	Agreed with the ET's advice.	
	3. A generator, which was not is use, was observed without noise emission label. The Contractor posted a notice "Equipment not in use" on the generator immediately during site audit.	CT was reminded to post the noise emission label on the generator before using.	Agreed with the ET's advice.	
	4. Construction waste was observed in the bore piling site.	CT was reminded to clear the waste.	Agreed with the ET's advice.	
	5. Construction waste, mainly waste wood, was observed at the car park area.	CT was reminded to clear the waste.	Agreed with the ET's advice.	
12 October 2006 (WTLT 038)	1. General refuse was observed at Seawall B.	CT was reminded to clear the refuse.	Agreed with the ET's advice.	20 October 2006
	2. The entrance of Seawall B site was observed dry.	CT was reminded to provide water spraying frequently.	Agreed with the ET's advice.	20 October 2006
	3. Silt was observed along the u-channel of the drainage system in the bore piling site.	CT was reminded to clear the silt.	Agreed with the ET's advice.	20 October 2006

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
	4. Diesel fuel was observed contained in a distilled water bottle in the bore piling site. The contractor was reminded to store all chemical waste and diesel fuel properly.	CT was reminded to store all fuel properly.	Agreed with the ET's advice.	20 October 2006
	5. The outlet of a driptray for oil tanks was not sealed.	CT was reminded to seal the outlet to prevent leakage of oil from the drip tray..	Agreed with the ET's advice.	20 October 2006
	6. Construction waste was observed at the entrance of Sewall B near CPR.	CT was reminded to clear the waste.	Agreed with the ET's advice.	20 October 2006
20 October 2006 (WTLT 039)	1. Chemical waste label was not observed on the chemical waste storage containers.	CT was reminded to provide appropriate label on the containers.	Agreed with the ET's advice.	On-going
	2. The haul road at seawall B was observed dry.	CT was reminded to provide water spraying frequently.	Agreed with the ET's advice.	On-going
	3. An oil drum was observed without driptray at the eastern end of the site (near Seawall B).	CT was reminded to provide driptray to the oil drum.	Agreed with the ET's advice.	20 October 2006
	4. No water spraying was provided for rock breaking works.	CT was reminded to provide water spraying during rock breaking works.	Agreed with the ET's advice.	20 October 2006
26 October 2006 (WTLT 040)	1. Construction waste was observed at Seawall A.	CT was reminded to clear the waste regularly.	Agreed with the ET's advice.	On-going
	2. Haul road along bored piling site was observed dry.	CT was reminded to provide water spraying frequently.	Agreed with the ET's advice.	
	3. A waste battery was observed at the bore piling site.	CT was reminded to store all chemical waste at the chemical waste storage area.	Agreed with the ET's advice.	
	4. Cement bags were being unloaded from trucks during site audit.	CT was reminded to provide cover over the stockpiled cement bags.	Agreed with the ET's advice.	

6.2 Waste Disposal

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

Table 6-2: Waste disposal quantity in October 2006

Type of waste or material		Disposal at	No. of loads or quantities
C&D waste		WENT Landfill	24.46 tonnes
C&D material	By truck	Public Filling Reception Facility in Tuen Mun Area 38	2947.41tonnes
Chemical waste		Collected by licensed collector	0

6.3 Complaint Record

There was no environmental complaint received in October 2006.

6.4 Exceedance

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

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

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
3-Oct	Mid-ebb	WWA2	-	-	-	7.2	15.7	Baseline Check
3-Oct	Mid-ebb	WWA3	-	-	-	9.5	13.8	Baseline Check
5-Oct	Mid-ebb	WWA2	7.4	8.8	Limit Level	11.2	14.2	Baseline Check
5-Oct	Mid-ebb	WWA3	6.5	8.7	Limit Level	12.7	14.8	Baseline Check
5-Oct	Mid-ebb	WWFCZ1	7.0	9.2	Limit Level	11.0	13.5	Baseline Check
5-Oct	Mid-flood	WWA1	-	-	-	14.8	21.3	Baseline Check
5-Oct	Mid-flood	WWA3	6.2	7.0	Baseline Check	8.3	22.7	Action Level
5-Oct	Mid-flood	WWFCZ1	7.1	8.1	Action Level	-	-	-
5-Oct	Mid-flood	WWFCZ2	7.7	7.8	Limit Level	-	-	-
9-Oct	Mid-ebb	WWA1	11.1	14.1	Limit Level	18.3	24.7	Baseline Check
9-Oct	Mid-ebb	WWA2	9.5	10.9	Limit Level	-	-	-
9-Oct	Mid-ebb	WWA3	11.1	12.4	Limit Level	16.8	18.5	Baseline Check

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
9-Oct	Mid-ebb	WWFCZ2	7.0	8.1	Limit Level	-	-	-
9-Oct	Mid-flood	WWA1	10.1	11.1	Limit Level	15.8	19.3	Baseline Check
9-Oct	Mid-flood	WWA2	-	-	-	14.8	20.3	Baseline Check
9-Oct	Mid-flood	WWA3	10.2	10.6	Action Level	-	-	-
9-Oct	Mid-flood	WWFCZ1	-	-	-	25.5	26.0	Limit Level
9-Oct	Mid-flood	WWFCZ2	6.8	7.7	Limit Level	-	-	-
11-Oct	Mid-ebb	WWFCZ1	6.8	8.1	Action Level	-	-	-
11-Oct	Mid-flood	WWA1	-	-	-	11.2	19.7	Baseline Check
11-Oct	Mid-flood	WWFCZ1	5.9	7.7	Action Level	-	-	-
11-Oct	Mid-flood	WWFCZ2	6.8	7.3	Limit Level	-	-	-
13-Oct	Mid-ebb	WWA1	3.6	7.1	Baseline Check	-	-	-
13-Oct	Mid-ebb	WWA3	-	-	-	7.5	14.0	Baseline Check
13-Oct	Mid-flood	WWA1	3.6	6.9	Baseline Check	-	-	-
20-Oct	Mid-ebb	WWA1	-	-	-	11.5	16.3	Baseline Check
23-Oct	Mid-ebb	WWA1	5.0	7.2	Baseline Check	-	-	-
23-Oct	Mid-ebb	WWA3	5.0	7.8	Baseline Check	18.8	27.5	Limit Level
23-Oct	Mid-ebb	WWFCZ2	-	-	-	10.2	14.0	Baseline Check
25-Oct	Mid-flood	WWFCZ1	18.3	20.5	Baseline Check	-	-	-

6.5 Notification of Summons and Successful Prosecution

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

6.6 Environmental Licenses

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

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

Type of Licence	Reference No.	Valid from	Valid to
Environmental Permit	EP-219/2005	20 Jun 2005	Not applicable
Registration of Chemical Waste Producer	5111-336-C2869-49	16 Feb 2006	Not applicable
Water Discharge Licence	EP760/336/011348 I	31 Mar 2006	31 Mar 2011
Construction Noise Permit	GW-RW0326-06	9 June 2006	8 December 2006
Construction Noise Permit	GW-RW0349-06	23 June 2006	22 December 2006

7 Conclusions

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

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

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

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

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

8 References

[1] Mouchel Halcrow Joint Venture. January 2006. Supplementary Agreement No.1 – Remaining Project EM&A Manual for Construction of Reclamation West of Tsing Lung Tau.

[2] Ove Arup & Partners Hong Kong Limited. April 2006. Contract No.HY2005/06 Castle Peak Road Improvement – West of Tsing Lung Tau. Environmental Baseline Monitoring Report for Reclamation Works (EP No. EP-219/2005) (Second Issue)

Appendix A

Construction programme

Appendix B

Monitoring schedule for October and November 2006

Appendix C

Calibration certificates of marine water monitoring equipment

Appendix D

Marine water quality monitoring results

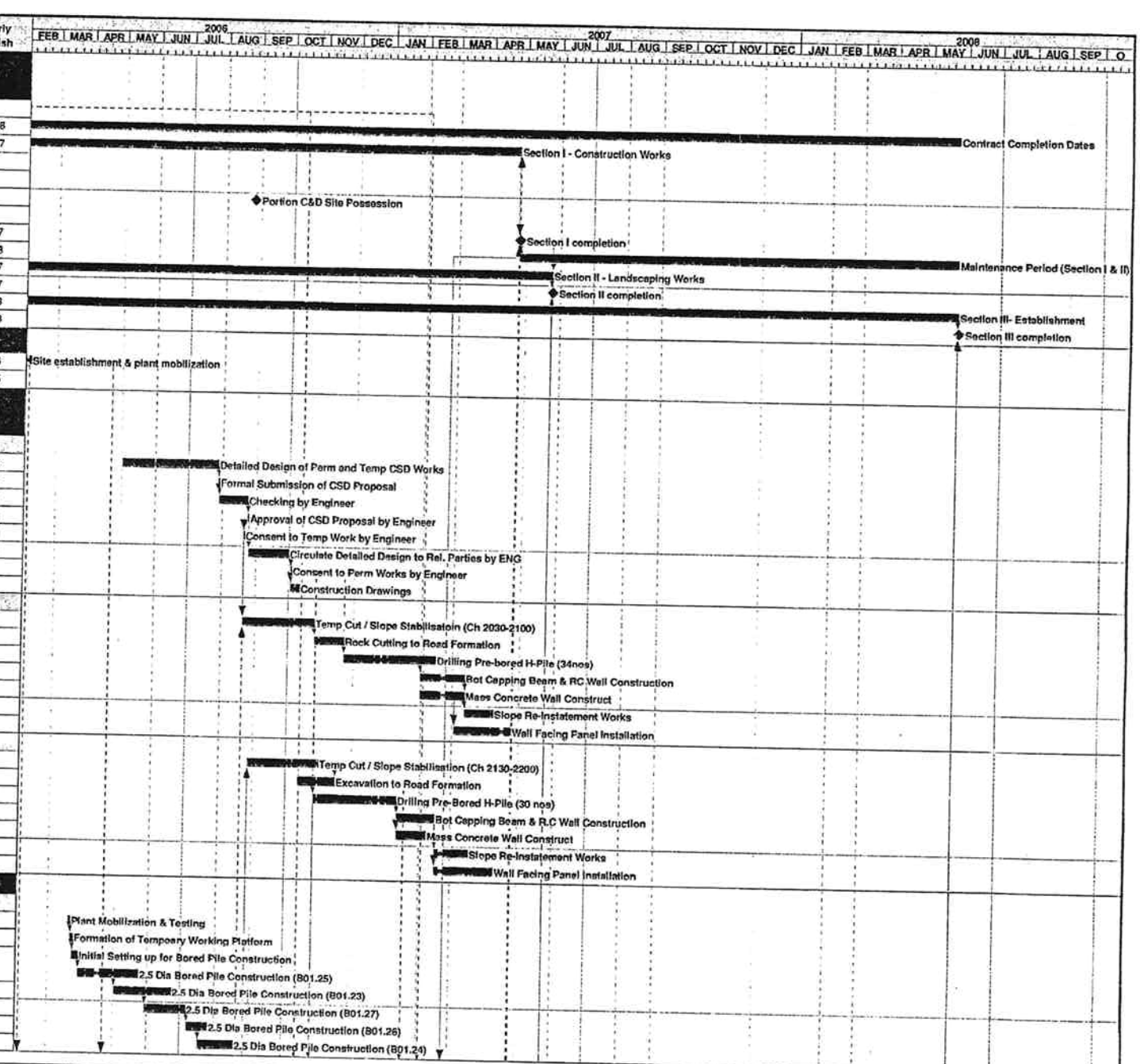
Appendix E

Investigation Summary on Marine Water Quality Exceedances

Appendix A

Construction programme

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
GENERAL				
KEY DATES				
KD0500	Commencement of Works	0	21/12/05	
KD1000	Contract Completion Dates	885	21/12/05	23/05/08
KD1100	Section I - Construction Works	490	21/12/05	24/04/07
KD1110	Portion A Site Possession	0	21/12/05	
KD1120	Portion B Site Possession	0	21/12/05	
KD1130	Portion C&D Site Possession	0	27/08/06*	
KD1140	Portion E Site Possession	0	21/12/05	
KD1200	Section I completion	0		24/04/07
KD1300	Maintenance Period (Section I & II)	395	25/04/07	23/05/08
KD1400	Section II - Landscaping Works	520	21/12/05	24/05/07
KD1500	Section II completion	0		24/05/07
KD1600	Section III- Establishment	885	21/12/05	23/05/08
KD1700	Section III completion	0		23/05/08
PRELIMINARIES				
P1000	Site establishment & plant mobilization	40	21/12/05	05/02/06
P1010	Submit TTM Schematic Drawing (PS1.15S(16))	0		20/12/05
Area 4 Construction(Ch2+030 to Ch2+150)				
Pre-Bored H-Pile Wall at Both Ends at GL				
Pre-Construction				
4PP0100	Detailed Design of Perm and Temp CSD Works	72	02/05/06*	27/07/06
4PP0110	Formal Submission of CSD Proposal	1	28/07/06	28/07/06
4PP0120	Checking by Engineer	23	29/07/06	24/08/06
4PP0130	Approval of CSD Proposal by Engineer	1	25/08/06	25/08/06
4PP0135	Consent to Temp Work by Engineer	1	21/08/06	21/08/06
4PP0150	Circulate Detailed Design to Rel. Parties by ENG	31	26/08/06	30/09/06
4PP0155	Consent to Perm Works by Engineer	1	03/10/06	03/10/06
4PP0160	Construction Drawings	7	03/10/06	11/10/06
Construction - West Side				
A04PP1022	Temp Cut / Slope Stabilisatoin (Ch 2030-2100)	55	21/08/06	25/10/06
A04PP1026	Rock Cutting to Road Formation	22	26/10/06	21/11/06
4PP1030	Drilling Pre-bored H-Pile (34nos)	68	22/11/06	13/02/07
4PP1040	Bot Capping Beam & RC Wall Construction	30	31/01/07	12/03/07
4PP1050	Mass Concrete Wall Construct	30	31/01/07	12/03/07
4PP1060	Slope Re-Instatement Works	22	13/03/07	07/04/07
4PP1070	Wall Facing Panel Installation	40	03/03/07	23/04/07
Construction - East Side				
4PP2000	Temp Cut / Slope Stabilisation (Ch 2130-2200)	53	28/08/06	31/10/06
4PP2020	Excavation to Road Formation	28	13/10/06	15/11/06
4PP2030	Drilling Pre-Bored H-Pile (30 nos)	60	27/10/06	10/01/07
4PP2040	Bot Capping Beam & R.C Wall Construction	30	11/01/07	14/02/07
4PP2100	Mass Concrete Wall Construct	24	11/01/07	07/02/07
4PP2110	Slope Re-Instatement Works	22	15/02/07	17/03/07
4PP2120	Wall Facing Panel Installation	40	15/02/07	09/04/07
Bored Pile Retaining Wall Construction				
Bored Pile Construction - B01.23 - B01.33				
4BP3000	Plant Mobilization & Testing	2	20/03/06*	21/03/06
4BP3010	Formation of Tempoary Working Platform	3	22/03/06	24/03/06
4BP3020	Initial Setting up for Bored Pile Construction	5	24/03/06	29/03/06
4BP3030	2.5 Dia Bored Pile Construction (B01.25)	41	30/03/06	23/05/06
4BP3040	2.5 Dia Bored Pile Construction (B01.23)	43	02/05/06	22/06/06
4BP3050	2.5 Dia Bored Pile Construction (B01.27)	31	30/05/06	06/07/06
4BP3060	2.5 Dia Bored Pile Construction (B01.26)	15	08/07/06	25/07/06
4BP3070	2.5 Dia Bored Pile Construction (B01.24)	28	18/07/06	18/08/06



Start Date 21/12/05
Finish Date 23/05/08
Data Date 21/12/05
Run Date 22/08/06 15:00

Early Bar
Progress Bar
Critical Activity

?Primavera Systems, Inc.

CSD2

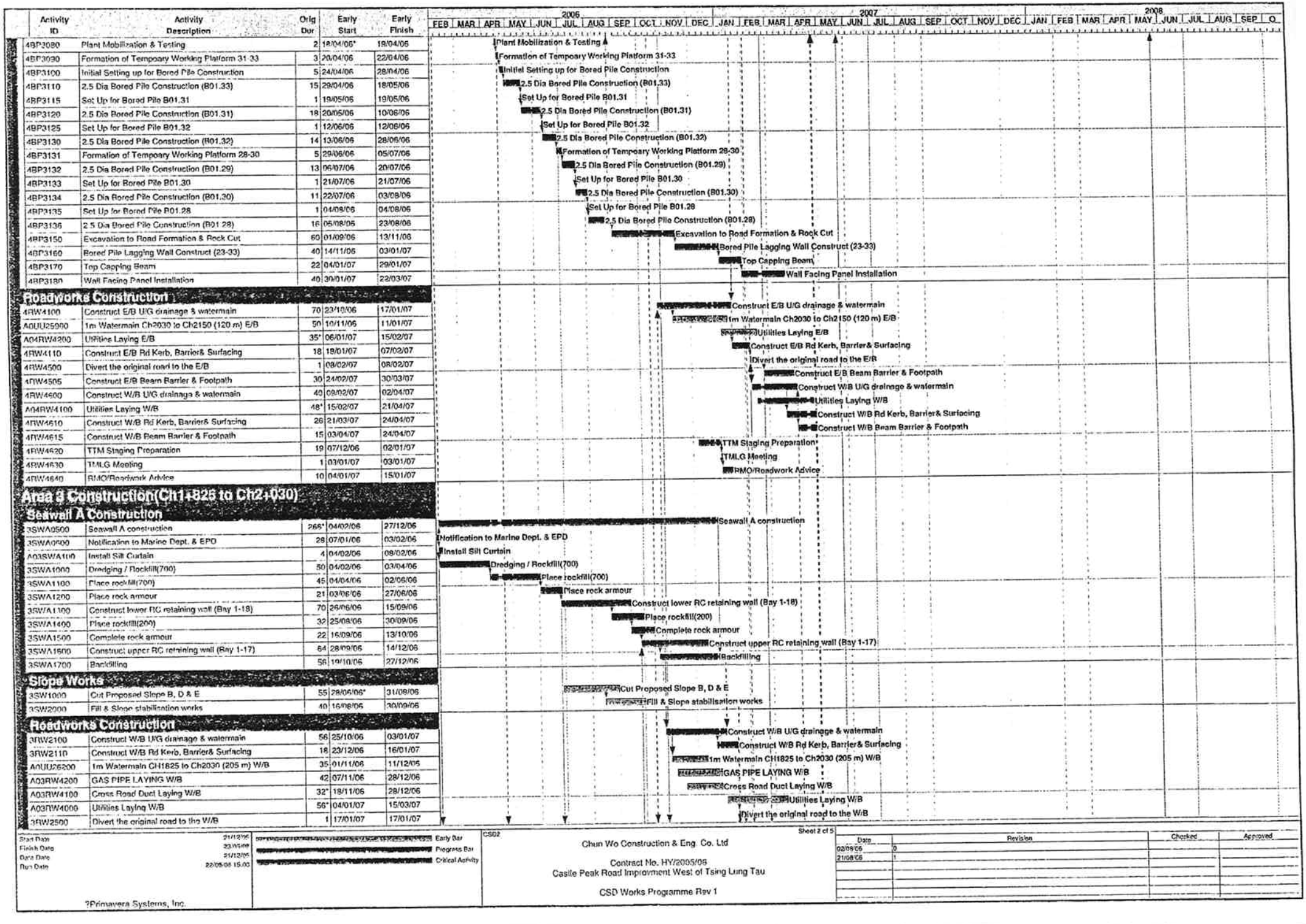
Chun Wo Construction & Eng. Co. Ltd

Contract No. HY/2005/06
Castle Peak Road Improvment West of Tsing Lung Tau

CSD Works Programme Rev 1

Sheet 1 of 5

Date	Revision	Checked	Approved
02/08/06	0		
21/08/06	1		



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
4BP3080	Plant Mobilization & Testing	2	19/04/06*	19/04/06
4BP3090	Formation of Tempoary Working Platform 31-33	3	20/04/06	22/04/06
4BP3100	Initial Setting up for Bored Pile Construction	5	24/04/06	28/04/06
4BP3110	2.5 Dia Bored Pile Construction (B01.33)	15	29/04/06	18/05/06
4BP3115	Set Up for Bored Pile B01.31	1	19/05/06	19/05/06
4BP3120	2.5 Dia Bored Pile Construction (B01.31)	18	20/05/06	10/06/06
4BP3125	Set Up for Bored Pile B01.32	1	12/06/06	12/06/06
4BP3130	2.5 Dia Bored Pile Construction (B01.32)	14	13/06/06	28/06/06
4BP3131	Formation of Tempoary Working Platform 28-30	5	29/06/06	05/07/06
4BP3132	2.5 Dia Bored Pile Construction (B01.29)	13	06/07/06	20/07/06
4BP3133	Set Up for Bored Pile B01.30	1	21/07/06	21/07/06
4BP3134	2.5 Dia Bored Pile Construction (B01.30)	11	22/07/06	03/08/06
4BP3135	Set Up for Bored Pile B01.28	1	04/08/06	04/08/06
4BP3136	2.5 Dia Bored Pile Construction (B01.28)	16	05/08/06	23/08/06
4BP3150	Excavation to Road Formation & Rock Cut	60	01/09/06	13/11/06
4BP3160	Bored Pile Lagging Wall Construct (23-33)	40	14/11/06	03/01/07
4BP3170	Top Capping Beam	22	04/01/07	29/01/07
4BP3180	Wall Facing Panel Installation	40	30/01/07	22/03/07
Roadworks Construction				
4RW4100	Construct E/B U/G drainage & watermain	70	23/10/06	17/01/07
A0UU25900	1m Watermain Ch2030 to Ch2150 (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, Barrier& Surfacing	18	19/01/07	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	09/02/07	02/04/07
A04RW4100	Utilities Laying W/B	48*	15/02/07	21/04/07
4RW4610	Construct W/B Rd Kerb, Barrier& Surfacing	26	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	TMLG Meeting	1	03/01/07	03/01/07
4RW4640	RMO/Roadwork Advice	10	04/01/07	15/01/07
Area 3 Construction(Ch1+825 to Ch2+030)				
Seawall A Construction				
3SWA0500	Seawall A construction	266*	04/02/06	27/12/06
3SWA0900	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	04/02/06	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	26/06/06	15/09/06
3SWA1400	Place rockfill(200)	32	25/08/06	30/09/06
3SWA1500	Complete rock armour	22	16/09/06	13/10/06
3SWA1600	Construct upper RC retaining wall (Bay 1-17)	64	28/09/06	14/12/06
3SWA1700	Backfilling	56	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	56	25/10/06	03/01/07
3RW2110	Construct W/B Rd Kerb, Barrier& Surfacing	18	23/12/06	16/01/07
A0UU26200	1m Watermain CH1825 to Ch2030 (205 m) W/B	35	01/11/06	11/12/06
A03RW4200	GAS PIPE LAYING W/B	42	07/11/06	28/12/06
A03RW4100	Cross Road Duct Laying W/B	32*	19/11/06	28/12/06
A03RW4000	Utilities Laying W/B	56*	04/01/07	15/03/07
3RW2500	Divert the original road to the W/B	1	17/01/07	17/01/07

Start Date 21/12/06
Finish Date 23/Mar/08
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Run Date 22/05/08 15:00

?Primavera Systems, Inc.

Early Bar
Progress Bar
Critical Activity

CSD2

Chun Wo Construction & Eng. Co. Ltd

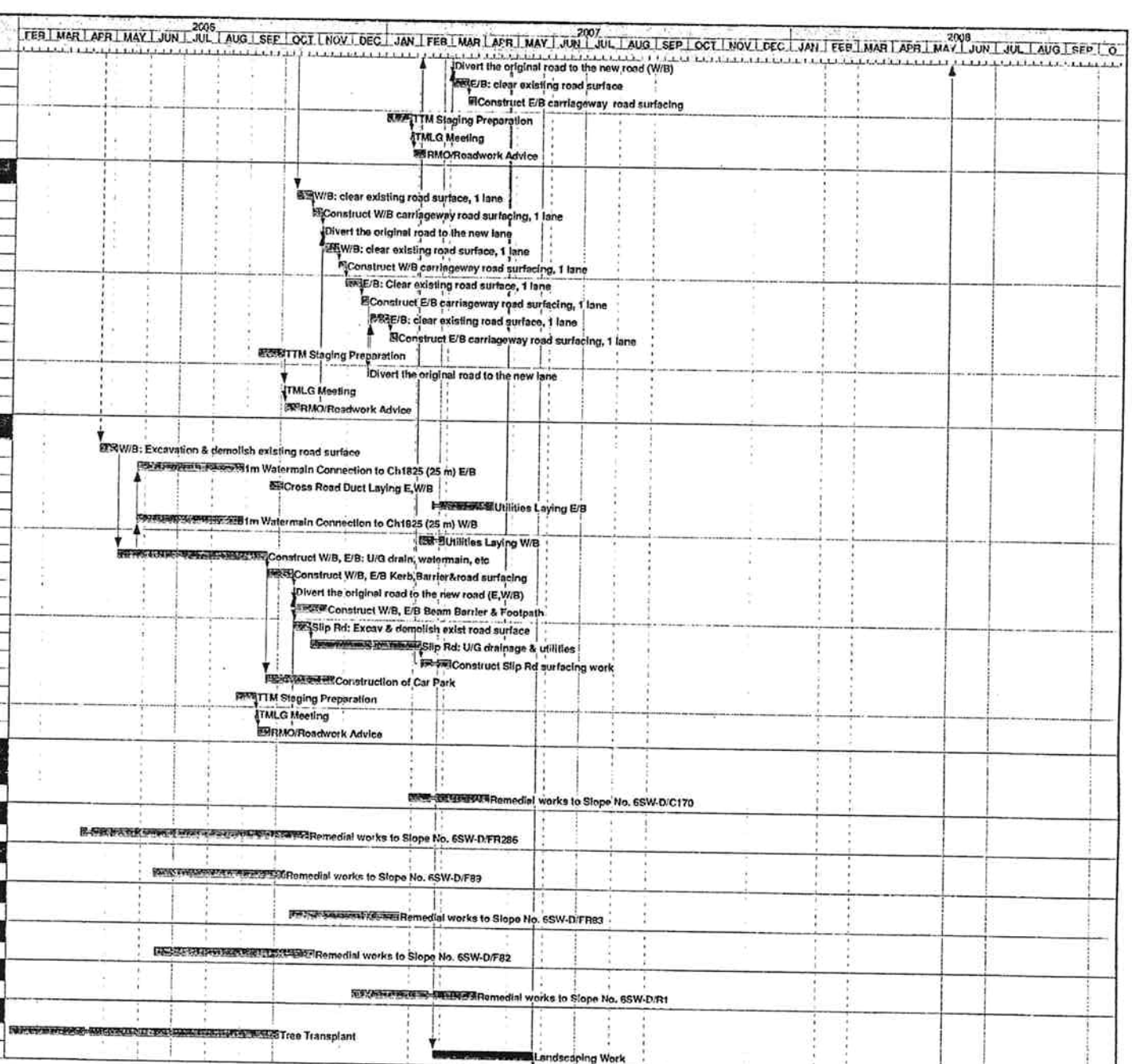
Contract No. HY/2005/06
Castle Peak Road Improvment West of Tsing Lung Tau

CSD Works Programme Rev 1

Sheet 2 of 5

Date	Revision	Checked	Approved
02/06/06	0		
21/06/06	1		

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
5RW2000	Divert the original road to the new road (W/B)	1	02/03/07	02/03/07
5RW2500	E/B: clear existing road surface	12	03/03/07	16/03/07
5RW3500	Construct E/B carriageway road surfacing	6	17/03/07	23/03/07
5RW3510	TTM Staging Preparation	19	03/01/07	24/01/07
5RW3520	TMLG Meeting	1	25/01/07	25/01/07
5RW3530	RMO/Roadwork Advice	10	26/01/07	06/02/07
Area B Construction(Ch2+300 to Ch2+400)				
6RW0500	W/B: clear existing road surface, 1 lane	12	14/10/06	27/10/06
6RW1500	Construct W/B carriageway road surfacing, 1 lane	6	28/10/06	04/11/06
6RW2000	Divert the original road to the new lane	1	06/11/06	06/11/06
6RW2100	W/B: clear existing road surface, 1 lane	12	07/11/06	20/11/06
6RW2200	Construct W/B carriageway road surfacing, 1 lane	6	21/11/06	27/11/06
6RW2500	E/B: Clear existing road surface, 1 lane	12	28/11/06	11/12/06
6RW3500	Construct E/B carriageway road surfacing, 1 lane	6	12/12/06	18/12/06
6RW3501	E/B: clear existing road surface, 1 lane	12	21/12/06	06/01/07
6RW3502	Construct E/B carriageway road surfacing, 1 lane	6	08/01/07	13/01/07
6RW3510	TTM Staging Preparation	19	11/09/06	03/10/06
6RW3511	Divert the original road to the new lane	1	19/12/06	19/12/06
6RW3520	TMLG Meeting	1	04/10/06	04/10/06
6RW3530	RMO/Roadwork Advice	10	05/10/06	17/10/06
Area 2 Construction(Ch1+708 to Ch1+825)				
1RW0500	W/B: Excavation & demolish existing road surface	12	21/04/06*	06/05/06
A01UU25700	1m Watermain Connection to Ch1825 (25 m) E/B	80	25/05/06	28/08/06
A01RW0800	Cross Road Duct Laying E,W/B	8	23/09/06	03/10/06
A01RW0600	Utilities Laying E/B	42*	17/02/07	13/04/07
A0UU26100	1m Watermain Connection to Ch1825 (25 m) W/B	80	25/05/06	28/08/06
A01RW0700	Utilities Laying W/B	14*	06/02/07	27/02/07
1RW1000	Construct W/B, E/B: U/G drain, watermain, etc	115	08/05/06	20/09/06
1RW1500	Construct W/B, E/B Kerb,Barrier&road surfacing	19	21/09/06	14/10/06
1RW2000	Divert the original road to the new road (E,W/B)	1	16/10/06	16/10/06
1RW2010	Construct W/B, E/B Beam Barrier & Footpath	24	17/10/06	14/11/06
1RW2500	Slip Rd: Excav & demolish exist road surface	12	17/10/06	31/10/06
1RW3000	Slip Rd: U/G drainage & utilities	82	01/11/06	08/02/07
1RW3500	Construct Slip Rd surfacing work	18	09/02/07	07/03/07
A01RW0500	Construction of Car Park	50	21/09/06	21/11/06
1RW3510	TTM Staging Preparation	15	26/08/06	12/09/06
1RW3520	TMLG Meeting	1	13/09/06	13/09/06
1RW3530	RMO/Roadwork Advice	10	14/09/06	25/09/06
Slope Remedial Works				
Remedial Work 6SW-D/C170				
SW3000	Remedial works to Slope No. 6SW-D/C170	57*	30/01/07	12/04/07
Remedial Work 6SW-D/FR286				
SW3500	Remedial works to Slope No. 6SW-D/FR286	167*	08/04/06	31/10/06
Remedial Work 6SW-D/F89				
SW4000	Remedial works to Slope No. 6SW-D/F89	100*	13/06/06	10/10/06
Remedial Work 6SW-D/FR83				
SW5000	Remedial works to Slope No. 6SW-D/FR83	80*	16/10/06	22/01/07
Remedial Work 6SW-D/F82				
SW5500	Remedial works to Slope No. 6SW-D/F82	120*	15/06/06	06/11/06
Remedial Work 6SW-D/R1				
SW6000	Remedial works to Slope No. 6SW-D/R1	87*	12/12/06	02/04/07
Section II - Landscaping Works				
A0LW1000	Tree Transplant	200	06/02/06*	06/10/06
LW1000	Landscaping Work	90	24/02/07	24/05/07



Start Date 21/12/05
Finish Date 23/05/08
Data Date 21/12/05
Run Date 22/08/06 15:09

Early Bar
Progress Bar
Critical Activity

?Primavera Systems, Inc.

CSD2

Chun Wo Construction & Eng. Co. Ltd

Contract No. HY/2005/06
Castle Peak Road Improvment West of Tsing Lung Tau

CSD Works Programme Rev 1

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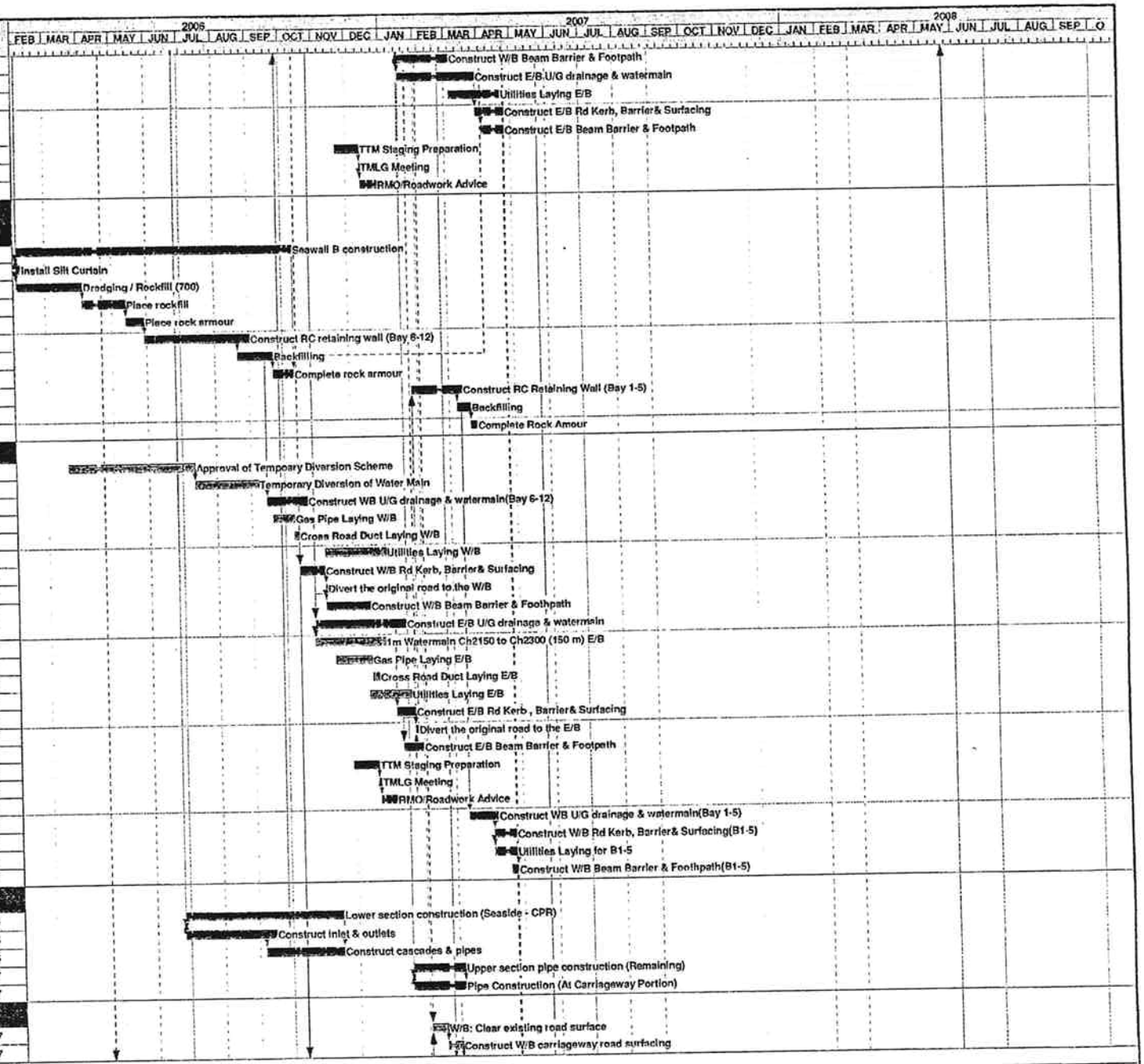
Date	Revision	Checked	Approved
02/08/06	0		
21/08/06	1		

Activity ID	Activity Description	Orig Dur	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
A03RW4500	Utilities Laying E/B	36*	06/03/07	20/04/07
3RW2605	Construct E/B Rd Kerb, Barrier& Surfacing	18	30/03/07	24/04/07
3RW2608	Construct E/B Beam Barrier & Footpath	14	04/04/07	24/04/07
3RW2610	TTM Staging Preparation	19	21/11/06	12/12/06
3RW2620	TMLG Meeting	1	13/12/06	13/12/06
3RW2630	RMO/Roadwork Advice	10	14/12/06	28/12/06
Area 5 Construction(Ch2+150 to Ch2+300)				
Seawall B Construction				
2SWB0500	Seawall B construction	204*	04/02/06	11/10/06
A02SWB100	Install Silt Curtain	3	04/02/06	07/02/06
2SWB1000	Dredging / Rockfill (700)	50	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	22/08/06	22/09/06
2SWB1500	Complete rock armour	14	23/09/06	11/10/06
A02SWB0500	Construct RC Retaining Wall (Bay 1-5)	35	26/01/07	13/03/07
A02SWB1000	Backfilling	10	09/03/07	20/03/07
A02SWB1100	Complete Rock Amour	5	21/03/07	26/03/07
Roadworks Construction				
A02RW0100	Approval of Tempoary Diversion Scheme	90	20/03/06*	11/07/06
A02RW0500	Temporary Diversion of Water Main	50	12/07/06	07/09/06
2RW3000	Construct WB U/G drainage & watermain(Bay 6-12)	30	15/09/06	21/10/06
A02RW1900	Gas Pipe Laying W/B	14	21/09/06	09/10/06
A02RW1800	Cross Road Duct Laying W/B	4*	10/10/06	13/10/06
A02RW1600	Utilities Laying W/B	45*	06/11/06	30/12/06
2RW3010	Construct W/B Rd Kerb, Barrier& 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 & Foothpath	35	06/11/06	15/12/06
2RW3500	Construct E/B U/G drainage & watermain	65	27/10/06	16/01/07
A0UU26000	1m Watermain Ch2150 to Ch2300 (150 m) E/B	50	27/10/06	28/12/06
A02RW2100	Gas Pipe Laying E/B	28	15/11/06	16/12/06
A02RW2000	Cross Road Duct Laying E/B	4*	18/12/06	22/12/06
A02RW1700	Utilities Laying E/B	28*	15/12/06	20/01/07
2RW3610	Construct E/B Rd Kerb , Barrier& Surfacing	15	08/01/07	24/01/07
2RW3590	Divert the original road to the E/B	1	25/01/07	25/01/07
2RW3620	Construct E/B Beam Barrier & Footpath	15	13/01/07	30/01/07
2RW3700	TTM Staging Preparation	19	29/11/06	21/12/06
2RW3710	TMLG Meeting	1	22/12/06	22/12/06
2RW3720	RMO/Roadwork Advice	10	23/12/06	06/01/07
A02RW1100	Construct WB U/G drainage & watermain(Bay 1-5)	22	13/03/07	07/04/07
A02RW1300	Construct W/B Rd Kerb, Barrier& Surfacing(B1-5)	13	04/04/07	23/04/07
A02RW1200	Utilities Laying for B1-5	13	04/04/07	23/04/07
A02RW1400	Construct W/B Beam Barrier & Foothpath(B1-5)	5	19/04/07	24/04/07
OUTFALL EA & EB CONSTRUCTION				
3OF1000	Lower section construction (Seaside - CPR)	120*	26/06/06	16/11/06
3OF1100	Construct inlet & outlets	70	26/06/06	15/09/06
3OF1200	Construct cascades & 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	W/B: Clear existing road surface	12	03/02/07	16/02/07
5RW1500	Construct W/B carriagewny road surfacing	6	17/02/07	01/03/07



Start Date 21/12/05
Finish Date 23/05/08
Data Date 21/12/05
Run Date 22/08/06 15:09

Early Bar
Progress Bar
Critical Activity

?Primavera Systems, Inc

CSD2

Chun Wo Construction & Eng. Co. Ltd

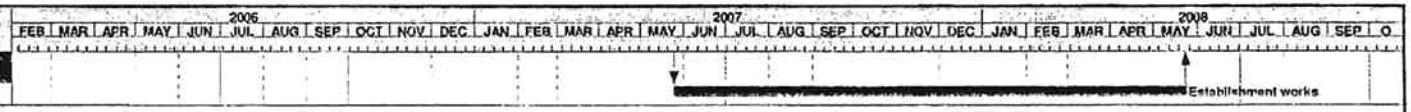
Contract No. HY/2005/06
Castle Peak Road Improvment West of Tsing Lung Tau

CSD Works Programme Rev 1

Sheet 3 of 5

Date	Revision	Checked	Approved
02/08/06	0		
21/08/06	1		

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Section III - Establishment Period				
EP1000	Establishment works	365	25/05/07	23/05/08



Start Date	21/12/05
Finish Date	23/05/08
Data Date	21/12/05
Run Date	22/08/06 15:00

Early Bar
Progress Bar
Critical Activity

CSD2

Sheet 5 of 5

Chun Wo Construction & Eng. Co. Ltd

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Castle Peak Road Improvment West of Tsing Lung Tau

CSD Works Programme Rev 1

Date	Revision	Checked	Approved
02/08/06	0		
21/08/06	1		

Appendix B

Monitoring schedule for October and November 2006

Environmental Monitoring and Audit Schedule - October 2006

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

Oct-2006						
Sunday	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
1	2	3 MW	4	5 Site Inspection MW	6	7
8	9 MW	10	11 MW	12 Site Inspection	13 MW	14
15	16 MW	17	18 MW	19	20 Site Inspection MW	21
22	23 MW	24	25 MW	26 Site Inspection	27 MW	28
29	30	31 MW				

Tentative Environmental Monitoring and Audit Schedule - November 2006

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

Nov-2006

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

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

Report No. : CR 000074
Page No. : 1 of 5
Issue Date : 04/08/2006

Received Date : 01/08/2006
Completion Date : 02/08/2006
Approved Signatory : Grace Ting
Remarks :

Calibration Results:

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

Serial No. : 02D1076 AB

Calibration Method : APHA 18e 2520 A & B

Date of Calibration : 01/08/2006

Results :

Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.3
15	14.4
35	33.8
39.3	37.9

Approval Signatory:

Hong Kong Head Office TST P.O. Box 99027 Hong Kong • HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
Tel: (852) 2788 5678 • Fax: (852) 2788 5900 • Telex: 32842 HKPC HX
香港總部 香港尖沙咀郵政信箱99027號 • 香港九龍達之路78號生產力大樓

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,
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Kowloon.

Report No. : CR 000074
Page No. : 2 of 5
Issue Date : 04/08/2006

Received Date : 01/08/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/08/2006

Calibration Results:

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

Serial No. : 02D1076 AB

Calibration Method : In house method

Date of Calibration : 01/08/2006

Results :

Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	10.1
20.0	20.4
30.0	30.4
40.0	40.3

Approval Signatory:

Hong Kong Head Office 香港總部
TST P.O. Box 99027 Hong Kong • HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
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Hong Kong
Productivity Council
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CALIBRATION REPORT

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Address : Level 5 Festival Walk,
80 Tat Chee Avenue,
Kowloon Tong,
Kowloon.

Report No. : CR 000074

Issue Date : 04/08/2006

Received Date : 01/08/2006
Completion Date : 02/08/2006
Approved Signatory : Grace Ting
Remarks :

Calibration Results:

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

Serial No. : 02D1076 AB

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

Date of Calibration : 01/08/2006

Results :

Dissolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
3.75	3.68
4.80	4.80
5.75	5.69
6.80	6.88
7.90	7.90
9.00	8.92

Approval Signatory:

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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 000074
Page No. : 4 of 5
Issue Date : 04/08/2006

Received Date : 01/08/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/08/2006

Calibration Results:

Item : HACH 2100P Turbidimeter

Serial No. : 011100024354

Calibration Method : APHA 18e 2130 B

Date of Calibration : 01/08/2006

Results :

Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0.21
2	2.20
4	4.11
16	15.5
40	38.8
80	77.1

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Report No. : CR 000074
Page No. : 5 of 5
Issue Date : 04/08/2006

Received Date : 01/08/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/08/2006

Calibration Results:

Item : HANNA instrument HI 98128 membrane pH meter

Serial No. : 1377140

Calibration Method : In house method

Date of Calibration : 01/08/2006

Results :

pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4.00	4.18
6.86	7.10
10.0	10.2

Approval Signatory:

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Appendix D

Marine water quality monitoring results

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
1	WWA1	S	MID-EBB	3-Oct-06			26.7	5.93	5.76	YES			96.4	90.6	8.2	31.2	4.1	4.1	YES			11.5		
2	WWA1	M	MID-EBB	3-Oct-06	10:10	8.30	26.8	5.70	5.56	YES	5.74	Comply	85.6	83.6	8.2	31.1	5.2	5.0	YES			7.5		
3	WWA1	B	MID-EBB	3-Oct-06			26.6	5.53	5.46	YES	5.50	Comply	84.1	81.6	8.2	31.2	3.7	3.8	YES	4.3	Comply	7.0	8.7	Comply
4	WWA2	S	MID-EBB	3-Oct-06			26.8	5.94	5.80	YES			93.6	88.2	8.2	31.3	4.9	4.7	YES			15.5		
5	WWA2	M	MID-EBB	3-Oct-06	10:10	8.70	26.7	5.70	5.59	YES	5.76	Comply	85.7	83.8	8.2	31.4	7.1	7.0	YES			15.5		
6	WWA2	B	MID-EBB	3-Oct-06			26.7	5.54	5.42	YES	5.48	Comply	83.6	80.2	8.2	31.2	6.8	6.3	YES	6.1	Comply	16.0	15.7	Exceed Action Level
7	WWA3	S	MID-EBB	3-Oct-06			27.0	5.97	5.96	YES			98.2	91.0	8.2	29.5	4.3	4.2	YES			11.0		
8	WWA3	M	MID-EBB	3-Oct-06	10:00	8.50	26.7	5.83	5.69	YES	5.86	Comply	86.9	84.7	8.2	30.3	4.8	4.0	YES			16.5		
9	WWA3	B	MID-EBB	3-Oct-06			26.8	5.52	5.43	YES	5.48	Comply	85.1	83.0	8.2	31.2	5.8	5.8	YES	4.8	Comply	14.0	13.8	Exceed Action Level
10	WRA1	S	MID-EBB	3-Oct-06			26.6	5.96	5.91	YES			96.2	92.1	8.2	31.2	4.1	4.2	YES			4.5		
11	WRA1	M	MID-EBB	3-Oct-06	10:32	31.50	26.7	5.86	5.72	YES	5.86		86.9	84.6	8.2	31.1	4.1	4.1	YES			5.5		
12	WRA1	B	MID-EBB	3-Oct-06			26.6	5.59	5.43	YES	5.51		84.2	81.6	8.2	31.2	4.5	4.3	YES	4.2		8.0	6.0	
13	WRA2	S	MID-EBB	3-Oct-06			26.8	5.92	5.87	YES			95.7	90.6	8.2	30.6	3.9	3.6	YES			5.0		
14	WRA2	M	MID-EBB	3-Oct-06	10:45	27.20	26.8	5.70	5.56	YES	5.76		85.7	83.7	8.2	30.8	4.6	4.5	YES			8.0		
15	WRA2	B	MID-EBB	3-Oct-06			26.7	5.54	5.42	YES	5.48		82.4	80.2	8.2	31.3	3.7	3.7	YES	4.0		8.5	7.2	
16	WRA3	S	MID-EBB	3-Oct-06			26.9	5.96	5.90	YES			96.9	92.1	8.2	30.5	3.2	3.4	YES			6.0		
17	WRA3	M	MID-EBB	3-Oct-06	10:57	25.90	26.6	5.80	5.62	YES	5.82		87.2	83.6	8.2	31.1	3.6	3.5	YES			13.5		
18	WRA3	B	MID-EBB	3-Oct-06			26.4	5.57	5.46	YES	5.52		84.0	81.2	8.2	31.2	5.1	5.2	YES	4.0		9.0	9.5	
19	WWFCZ1	S	MID-EBB	3-Oct-06			27.0	5.97	5.90	YES			96.2	91.6	8.2	29.7	3.4	3.4	YES			10.0		
20	WWFCZ1	M	MID-EBB	3-Oct-06	11:37	34.20	26.9	5.80	5.67	YES	5.84	Comply	87.6	84.9	8.2	26.9	3.6	3.6	YES			7.5		
21	WWFCZ1	B	MID-EBB	3-Oct-06			26.8	5.54	5.41	YES	5.48	Comply	84.2	80.5	8.2	31.0	6.8	6.6	YES	4.6	Comply	7.5	8.3	Comply
22	WWFCZ2	S	MID-EBB	3-Oct-06			26.8	5.94	5.82	YES			92.8	87.5	8.1	30.0	2.6	2.8	YES			8.5		
23	WWFCZ2	M	MID-EBB	3-Oct-06	11:24	33.80	26.7	5.68	5.51	YES	5.74	Comply	85.9	83.3	8.1	31.1	4.9	4.7	YES			8.5		
24	WWFCZ2	B	MID-EBB	3-Oct-06			27.2	5.55	5.42	YES	5.49	Comply	84.0	81.2	8.1	31.3	4.6	4.6	YES	4.0	Comply	10.0	9.0	Comply
25	WFCZR1	S	MID-EBB	3-Oct-06			27.1	5.96	5.92	YES			96.3	90.2	8.4	30.1	2.8	2.8	YES			10.0		
26	WFCZR1	M	MID-EBB	3-Oct-06	11:50	40.70	26.8	5.79	5.61	YES	5.82		86.2	84.0	8.4	30.5	2.9	2.6	YES			7.5		
27	WFCZR1	B	MID-EBB	3-Oct-06			26.7	5.54	5.40	YES	5.47		83.5	81.1	8.4	31.0	3.2	3.5	YES	3.0		4.5	7.3	
28	WFCZR2	S	MID-EBB	3-Oct-06			27.1	5.96	5.90	YES			96.2	90.6	8.2	29.9	2.6	2.8	YES			9.0		
29	WFCZR2	M	MID-EBB	3-Oct-06	11:10	40.90	26.8	5.80	5.65	YES	5.83		84.9	82.5	8.2	30.4	3.2	3.5	YES			10.0		
30	WFCZR2	B	MID-EBB	3-Oct-06			26.7	5.60	5.43	YES	5.52		83.0	80.3	8.2	30.8	3.7	3.7	YES	3.2		8.5	9.2	
31	WWA1	S	MID-FLOOD	3-Oct-06			27.2	5.94	5.86	YES			96.3	91.6	8.1	30.0	4.2	4.2	YES			9.0		
32	WWA1	M	MID-FLOOD	3-Oct-06	15:57	8.50	27.2	5.70	5.59	YES	5.77	Comply	87.4	85.1	8.1	29.9	4.9	4.7	YES			17.0		
33	WWA1	B	MID-FLOOD	3-Oct-06			27.2	5.54	5.41	YES	5.48	Comply	83.8	80.2	8.1	29.9	4.2	4.2	YES	4.4	Comply	11.0	12.3	Comply
34	WWA2	S	MID-FLOOD	3-Oct-06			27.3	5.99	5.92	YES			93.6	89.2	8.1	29.8	5.0	5.0	YES			10.0		
35	WWA2	M	MID-FLOOD	3-Oct-06	15:44	8.90	27.2	5.79	5.62	YES	5.83	Comply	87.4	85.7	8.1	30.0	6.2	6.1	YES			9.5		
36	WWA2	B	MID-FLOOD	3-Oct-06			27.3	5.63	5.45	YES	5.54	Comply	83.9	80.6	8.1	29.8	6.2	6.2	YES	5.8	Comply	13.5	11.0	Comply
37	WWA3	S	MID-FLOOD	3-Oct-06			27.7	5.96	5.86	YES			95.6	90.2	8.1	29.7	4.5	4.5	YES			9.5		
38	WWA3	M	MID-FLOOD	3-Oct-06	15:30	8.30	27.4	5.82	5.69	YES	5.83	Comply	87.9	85.1	8.1	29.6	4.7	4.7	YES			14.0		
39	WWA3	B	MID-FLOOD	3-Oct-06			27.3	5.54	5.41	YES	5.48	Comply	84.0	81.3	8.1	29.8	5.2	5.1	YES	4.8	Comply	13.0	12.2	Comply
40	WRA1	S	MID-FLOOD	3-Oct-06			27.3	5.96	5.90	YES			97.3	92.6	8.1	29.9	4.2	4.2	YES			10.0		
41	WRA1	M	MID-FLOOD	3-Oct-06	16:09	32.40	26.9	5.80	5.63	YES	5.82		88.3	84.9	8.1	30.5	4.2	4.3	YES			12.5		
42	WRA1	B	MID-FLOOD	3-Oct-06			26.7	5.57	5.43	YES	5.50		84.1	81.7	8.1	30.8	4.3	4.3	YES	4.2		14.5	12.3	
43	WRA2	S	MID-FLOOD	3-Oct-06			27.1	5.90	5.76	YES			96.5	89.7	8.1	29.9	4.1	3.9	YES			5.5		
44	WRA2	M	MID-FLOOD	3-Oct-06	16:23	27.50	26.9	5.70	5.59	YES	5.74		86.1	84.9	8.1	30.2	3.3	3.4	YES			12.5		
45	WRA2	B	MID-FLOOD	3-Oct-06			26.9	5.55	5.41	YES	5.48		84.2	82.9	8.1	30.2	4.2	4.3	YES	3.9		9.0	9.0	
46	WRA3	S	MID-FLOOD	3-Oct-06			27.1	5.92	5.86	YES			91.3	87.6	8.1	29.9	3.4	3.1	YES			7.0		
47	WRA3	M	MID-FLOOD	3-Oct-06	16:37	26.30	26.9	5.71	5.59	YES	5.77		86.2	84.3	8.1	30.3	3.5	3.3	YES			8.5		
48	WRA3	B	MID-FLOOD	3-Oct-06			26.8	5.54	5.41	YES	5.48		83.5	80.6	8.1	30.8	5.3	5.3	YES	4.0		9.5	8.3	
49	WWFCZ1	S	MID-FLOOD	3-Oct-06			27.1	5.91	5.80	YES			92.2	88.4	8.0	29.8	3.1	3.2	YES			15.5		
50	WWFCZ1	M	MID-FLOOD	3-Oct-06	17:19	34.90	26.9	5.67	5.51	YES	5.72	Comply	86.0	84.3	8.0	30.1	3.5	3.6	YES			7.0		
51	WWFCZ1	B	MID-FLOOD	3-Oct-06			26.8	5.53	5.41	YES	5.47	Comply	84.0	80.4	8.0	30.4	5.2	5.3	YES	4.0	Comply	14.5	12.3	Comply

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
52	WWFCZ2	S	MID-FLOOD	3-Oct-06	17:04	34.20	27.0	5.90	5.73	YES			97.3	90.9	8.0	29.3	3.2	3.3	YES			6.0		
53	WWFCZ2	M	MID-FLOOD	3-Oct-06			26.8	5.75	5.60	YES	5.75	Comply	86.8	84.7	8.0	30.3	3.9	3.9	YES			8.5		
54	WWFCZ2	B	MID-FLOOD	3-Oct-06			26.8	5.56	5.41	YES	5.49	Comply	84.0	82.1	8.0	30.5	4.5	4.5	YES	3.9	Comply	6.0	6.8	Comply
55	WFCZR1	S	MID-FLOOD	3-Oct-06	17:38	41.50	26.8	5.86	5.69	YES			90.4	85.9	8.1	30.2	3.2	3.4	YES			7.5		
56	WFCZR1	M	MID-FLOOD	3-Oct-06			26.8	5.72	5.56	YES	5.71		86.6	84.1	8.1	30.0	3.2	3.6	YES			7.0		
57	WFCZR1	B	MID-FLOOD	3-Oct-06			26.8	5.54	5.40	YES	5.47		85.9	81.4	8.2	30.6	4.2	4.4	YES	3.7		6.0	6.8	
58	WFCZR2	S	MID-FLOOD	3-Oct-06	16:52	41.20	27.3	5.93	5.85	YES			93.6	90.4	8.0	29.8	3.3	3.3	YES			8.0		
59	WFCZR2	M	MID-FLOOD	3-Oct-06			26.7	5.70	5.57	YES	5.76		87.0	85.2	8.0	30.8	3.3	3.5	YES			9.5		
60	WFCZR2	B	MID-FLOOD	3-Oct-06			26.3	5.54	5.41	YES	5.48		84.4	80.6	8.0	30.7	3.7	3.7	YES	3.4		12.5	10.0	
61	WWA1	S	MID-EBB	5-Oct-06	11.28	7.80	27.5	5.86	5.80	YES			96.4	90.7	7.9	30.0	5.2	5.5	YES			12.5		
62	WWA1	M	MID-EBB	5-Oct-06			27.3	5.74	5.67	YES	5.77	Comply	87.6	84.3	7.8	30.5	6.5	6.6	YES			12.5		
63	WWA1	B	MID-EBB	5-Oct-06			27.0	5.57	5.43	YES	5.50	Comply	84.6	81.6	7.8	30.2	7.4	7.4	YES	6.4	Comply	13.0	12.7	Comply
64	WWA2	S	MID-EBB	5-Oct-06	11:13	9.70	27.5	5.99	5.93	YES			92.6	87.6	7.8	30.9	6.5	6.5	YES			13.5		
65	WWA2	M	MID-EBB	5-Oct-06			27.4	5.82	5.76	YES	5.88	Comply	88.3	85.5	7.8	30.3	9.3	8.6	YES			15.5		
66	WWA2	B	MID-EBB	5-Oct-06			27.3	5.65	5.46	YES	5.56	Comply	84.0	82.3	7.8	30.3	11.4	10.5	YES	8.8	Exceed Action Level	13.5	14.2	Exceed Action Level
67	WWA3	S	MID-EBB	5-Oct-06	11:00	7.50	27.8	5.95	5.82	YES			99.2	93.0	7.8	29.6	7.5	7.5	YES			10.5		
68	WWA3	M	MID-EBB	5-Oct-06			27.5	5.96	5.59	YES	5.83	Comply	87.6	84.7	7.8	30.0	7.7	7.7	YES			12.0		
69	WWA3	B	MID-EBB	5-Oct-06			27.4	5.54	5.43	YES	5.49	Comply	85.0	83.1	7.8	30.0	11.6	10.2	YES	8.7	Exceed Action Level	22.0	14.8	Exceed Action Level
70	WRA1	S	MID-EBB	5-Oct-06	11:43	28.50	27.5	5.96	5.91	YES			93.6	89.1	7.8	30.0	5.2	5.1	YES			11.5		
71	WRA1	M	MID-EBB	5-Oct-06			27.2	5.84	5.71	YES	5.86		87.8	84.9	7.8	30.2	7.4	7.0	YES			10.0		
72	WRA1	B	MID-EBB	5-Oct-06			27.0	5.64	5.45	YES	5.55		83.8	80.7	7.8	30.7	10.1	8.7	YES	7.2		18.0	13.2	
73	WRA2	S	MID-EBB	5-Oct-06	11:59	24.70	27.9	5.88	5.81	YES			95.3	87.9	8.1	29.7	5.0	5.1	YES			5.5		
74	WRA2	M	MID-EBB	5-Oct-06			27.1	5.76	5.62	YES	5.77		86.2	84.4	8.1	30.3	8.4	8.2	YES			12.5		
75	WRA2	B	MID-EBB	5-Oct-06			27.0	5.56	5.43	YES	5.50		83.5	80.6	8.1	30.7	9.0	8.8	YES	7.4		15.5	11.2	
76	WRA3	S	MID-EBB	5-Oct-06	12:12	22.30	27.6	5.96	5.88	YES			93.6	88.4	8.1	30.0	5.4	5.2	YES			11.0		
77	WRA3	M	MID-EBB	5-Oct-06			27.0	5.83	5.71	YES	5.85		86.2	84.5	8.1	30.4	6.0	5.9	YES			13.5		
78	WRA3	B	MID-EBB	5-Oct-06			26.8	5.60	5.58	YES	5.59		85.3	82.6	8.1	30.8	8.4	8.0	YES	6.5		13.5	12.7	
79	WWFCZ1	S	MID-EBB	5-Oct-06	12:54	29.70	27.4	5.90	5.79	YES			92.6	88.6	7.6	29.7	7.9	7.5	YES			12.5		
80	WWFCZ1	M	MID-EBB	5-Oct-06			27.0	5.67	5.51	YES	5.72	Comply	85.9	84.6	7.6	30.4	10.6	9.7	YES			14.0		
81	WWFCZ1	B	MID-EBB	5-Oct-06			26.8	5.53	5.40	YES	5.47	Comply	84.0	81.2	7.6	30.6	10.2	9.5	YES	9.2	Exceed Action Level	14.0	13.5	Exceed Action Level
82	WWFCZ2	S	MID-EBB	5-Oct-06	12:40	33.80	27.2	5.95	5.86	YES			96.8	92.0	7.5	30.0	6.9	7.5	YES			13.5		
83	WWFCZ2	M	MID-EBB	5-Oct-06			27.0	5.80	5.64	YES	5.81	Comply	87.6	85.5	7.5	30.2	9.5	8.8	YES			15.0		
84	WWFCZ2	B	MID-EBB	5-Oct-06			27.0	5.52	5.41	YES	5.47	Comply	83.0	80.6	7.5	30.2	8.4	8.8	YES	8.3	Exceed Action Level	15.5	14.7	Exceed Action Level
85	WFCZR1	S	MID-EBB	5-Oct-06	13:09	40.70	27.3	5.96	5.90	YES			88.9	85.6	7.6	29.7	6.5	6.7	YES			9.0		
86	WFCZR1	M	MID-EBB	5-Oct-06			27.0	5.80	5.67	YES	5.83		86.0	84.5	7.6	30.2	7.8	7.7	YES			14.0		
87	WFCZR1	B	MID-EBB	5-Oct-06			26.9	5.91	5.53	YES	5.72		83.4	80.7	7.6	30.4	6.8	6.5	YES	7.0		10.0	11.0	
88	WFCZR2	S	MID-EBB	5-Oct-06	12:27	39.40	27.5	5.90	5.84	YES			92.6	86.7	7.7	29.6	7.1	7.0	YES			10.5		
89	WFCZR2	M	MID-EBB	5-Oct-06			27.2	5.80	5.70	YES	5.81		85.3	83.9	7.7	29.9	9.9	9.8	YES			15.5		
90	WFCZR2	B	MID-EBB	5-Oct-06			27.0	5.61	5.46	YES	5.54		83.0	81.1	7.7	30.2	12.4	8.7	NO	9.1		19.0	15.0	
91	WWA1	S	MID-FLOOD	5-Oct-06	16:57	8.20	26.8	5.93	5.86	YES			94.4	89.3	8.1	31.3	5.2	5.3	YES			20.5		
92	WWA1	M	MID-FLOOD	5-Oct-06			26.7	5.83	5.70	YES	5.83	Comply	87.0	84.4	8.1	31.4	6.0	5.8	YES			19.5		
93	WWA1	B	MID-FLOOD	5-Oct-06			26.7	5.64	5.44	YES	5.54	Comply	83.8	80.7	8.1	31.4	6.3	6.4	YES	5.8	Comply	24.0	21.3	Exceed Action Level
94	WWA2	S	MID-FLOOD	5-Oct-06	16:43	9.80	26.8	5.99	5.92	YES			98.2	91.9	8.1	31.5	6.0	5.8	YES			17.0		
95	WWA2	M	MID-FLOOD	5-Oct-06			27.0	5.87	5.77	YES	5.89	Comply	87.9	84.3	8.1	31.4	8.7	8.0	YES			15.5		
96	WWA2	B	MID-FLOOD	5-Oct-06			26.8	5.57	5.42	YES	5.50	Comply	83.5	80.3	8.2	31.3	5.7	5.9	YES	6.7	Exceed Action Level	14.0	15.5	Comply
97	WWA3	S	MID-FLOOD	5-Oct-06	16:30	7.90	26.8	5.93	5.76	YES			95.0	90.3	8.1	30.9	6.4	6.2	YES			23.0		
98	WWA3	M	MID-FLOOD	5-Oct-06			26.9	5.63	5.56	YES	5.72	Comply	84.6	82.1	8.1	31.2	6.5	6.5	YES			23.0		
99	WWA3	B	MID-FLOOD	5-Oct-06			26.9	5.55	5.42	YES	5.49	Comply	83.3	80.1	8.1	31.2	8.3	8.2	YES	7.0	Exceed Action Level	22.0	22.7	Exceed Action Level
100	WRA1	S	MID-FLOOD	5-Oct-06	17:09	29.50	26.9	5.94	5.87	YES			95.9	90.2	8.0	30.9	5.2	5.5	YES			15.0		
101	WRA1	M	MID-FLOOD	5-Oct-06			26.8	5.80	5.68	YES	5.82		86.5	83.7	8.0	31.3	8.3	7.3	YES			15.5		
102	WRA1	B	MID-FLOOD	5-Oct-06			26.7	5.57	5.42	YES	5.50		83.2	80.8	8.0	31.4	9.3	9.6	YES	7.5		14.0	14.8	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
103	WRA2	S	MID-FLOOD	5-Oct-06	17:23	25.70	26.9	5.89	5.80	YES			96.3	90.4	8.1	31.2	5.4	5.7	YES			8.5		
104	WRA2	M	MID-FLOOD	5-Oct-06			26.8	5.71	5.59	YES	5.75		87.0	83.9	8.1	31.3	7.2	7.5	YES			10.0		
105	WRA2	B	MID-FLOOD	5-Oct-06			26.7	5.53	5.41	YES	5.47		83.5	80.2	8.1	31.3	7.5	7.5	YES	6.8		10.0	9.5	
106	WRA3	S	MID-FLOOD	5-Oct-06	17:36	23.40	26.9	5.92	5.80	YES			99.2	91.9	8.0	31.1	5.4	5.7	YES			8.0		
107	WRA3	M	MID-FLOOD	5-Oct-06			26.7	5.76	5.60	YES	5.77		87.9	85.2	8.0	31.1	5.8	5.8	YES			8.5		
108	WRA3	B	MID-FLOOD	5-Oct-06			26.7	5.56	5.41	YES	5.49		83.8	81.4	8.0	31.4	7.2	7.3	YES	6.2		8.5	8.3	
109	WWFCZ1	S	MID-FLOOD	5-Oct-06	18:18	30.50	26.8	5.96	5.87	YES			93.4	90.0	8.4	31.0	5.8	6.9	YES			10.5		
110	WWFCZ1	M	MID-FLOOD	5-Oct-06			26.8	5.76	5.62	YES	5.80	Comply	86.3	84.1	8.4	31.3	8.5	8.3	YES			11.0		
111	WWFCZ1	B	MID-FLOOD	5-Oct-06			26.7	5.56	5.42	YES	5.49	Comply	83.9	80.9	8.4	31.3	9.2	8.7	YES	8.1	Exceed Action Level	14.0	11.8	Comply
112	WWFCZ2	S	MID-FLOOD	5-Oct-06	18:03	34.20	26.7	5.96	5.79	YES			96.1	91.3	8.3	31.0	7.1	7.0	YES			12.0		
113	WWFCZ2	M	MID-FLOOD	5-Oct-06			26.6	5.68	5.50	YES	5.73	Comply	87.0	84.4	8.3	31.3	8.2	8.1	YES			8.0		
114	WWFCZ2	B	MID-FLOOD	5-Oct-06			26.5	5.51	5.44	YES	5.48	Comply	83.8	80.6	8.3	31.1	8.3	8.2	YES	7.8	Exceed Action Level	11.5	10.5	Comply
115	WFCZR1	S	MID-FLOOD	5-Oct-06	18:34	39.60	26.7	5.90	5.79	YES			92.9	87.1	8.3	31.3	6.9	6.9	YES			10.0		
116	WFCZR1	M	MID-FLOOD	5-Oct-06			26.7	5.68	5.53	YES	5.73		86.5	84.0	8.3	31.2	7.8	7.5	YES			9.0		
117	WFCZR1	B	MID-FLOOD	5-Oct-06			26.7	5.56	5.43	YES	5.50		84.5	81.9	8.3	31.3	6.6	6.6	YES	7.1		15.5	11.5	
118	WFCZR2	S	MID-FLOOD	5-Oct-06	17:50	38.30	26.8	5.94	5.83	YES			94.7	90.2	8.4	31.0	7.0	6.8	YES			7.0		
119	WFCZR2	M	MID-FLOOD	5-Oct-06			26.9	5.76	5.70	YES	5.81		84.9	83.0	8.4	31.1	7.2	7.2	YES			9.5		
120	WFCZR2	B	MID-FLOOD	5-Oct-06			26.8	5.59	5.42	YES	5.51		83.6	80.4	8.4	31.0	9.2	8.8	YES	7.7		9.5	8.7	
121	WWA1	S	MID-EBB	9-Oct-06	14:20	7.20	26.8	5.95	5.90	YES			94.1	90.6	8.3	30.4	11.3	12.3	YES			19.5		
122	WWA1	M	MID-EBB	9-Oct-06			26.8	5.70	5.62	YES	5.80	Comply	87.2	85.6	8.3	30.5	12.8	8.9	NO			23.5		
123	WWA1	B	MID-EBB	9-Oct-06			26.7	5.64	5.45	YES	5.55	Comply	84.0	82.6	8.3	30.5	20.4	18.7	YES	14.1	Exceed Action Level	31.0	24.7	Exceed Action Level
124	WWA2	S	MID-EBB	9-Oct-06	14:11	10.80	26.9	5.86	5.74	YES			92.7	88.6	8.3	30.4	10.1	9.6	YES			13.0		
125	WWA2	M	MID-EBB	9-Oct-06			26.9	5.76	5.64	YES	5.75	Comply	89.0	86.2	8.3	30.5	12.1	11.6	YES			15.5		
126	WWA2	B	MID-EBB	9-Oct-06			26.8	5.62	5.43	YES	5.53	Comply	84.0	82.5	8.3	30.5	11.5	10.7	YES	10.9	Exceed Action Level	17.5	15.3	Exceed Action Level
127	WWA3	S	MID-EBB	9-Oct-06	14:00	7.10	26.9	5.87	5.71	YES			90.1	87.6	8.2	25.6	9.3	9.4	YES			12.5		
128	WWA3	M	MID-EBB	9-Oct-06			26.8	5.60	5.48	YES	5.67	Comply	86.0	84.3	8.2	30.3	14.8	12.7	YES			23.0		
129	WWA3	B	MID-EBB	9-Oct-06			26.9	5.54	5.42	YES	5.48	Comply	85.3	83.6	8.2	30.5	14.2	13.8	YES	12.4	Exceed Action Level	20.0	18.5	Exceed Action Level
130	WRA1	S	MID-EBB	9-Oct-06	14:34	31.80	26.9	5.92	5.85	YES			93.3	90.2	8.4	30.2	12.6	9.6	YES			22.5		
131	WRA1	M	MID-EBB	9-Oct-06			26.9	5.86	5.70	YES	5.83		87.0	84.9	8.4	30.4	13.9	8.5	NO			17.0		
132	WRA1	B	MID-EBB	9-Oct-06			26.8	5.56	5.43	YES	5.50		86.3	83.2	8.4	30.0	11.0	10.7	YES	11.1		15.5	18.3	
133	WRA2	S	MID-EBB	9-Oct-06	14:46	24.30	26.8	5.90	5.74	YES			92.7	88.0	8.4	30.4	9.5	9.2	YES			14.0		
134	WRA2	M	MID-EBB	9-Oct-06			26.8	5.70	5.58	YES	5.73		86.5	84.2	8.4	30.5	10.4	8.9	YES			19.0		
135	WRA2	B	MID-EBB	9-Oct-06			26.8	5.56	5.46	YES	5.51		83.7	80.9	8.4	30.7	9.7	9.4	YES	9.5		16.0	16.3	
136	WRA3	S	MID-EBB	9-Oct-06	14:59	25.00	26.8	5.91	5.87	YES			91.6	87.9	8.4	30.4	10.9	10.5	YES			14.0		
137	WRA3	M	MID-EBB	9-Oct-06			26.8	5.80	5.64	YES	5.81		86.2	84.3	8.4	30.0	11.1	10.3	YES			20.0		
138	WRA3	B	MID-EBB	9-Oct-06			26.8	5.56	5.42	YES	5.49		84.2	80.7	8.4	30.7	11.4	12.1	YES	11.1		16.5	16.8	
139	WWFCZ1	S	MID-EBB	9-Oct-06	15:27	42.20	26.7	5.90	5.76	YES			90.8	86.4	8.4	29.1	7.1	6.8	YES			10.5		
140	WWFCZ1	M	MID-EBB	9-Oct-06			26.8	5.69	5.52	YES	5.72	Comply	86.0	83.6	8.4	30.2	7.3	6.8	YES			10.0		
141	WWFCZ1	B	MID-EBB	9-Oct-06			26.8	5.56	5.44	YES	5.50	Comply	84.6	84.0	8.4	30.6	9.9	9.7	YES	7.9	Exceed Action Level	15.0	11.8	Comply
142	WWFCZ2	S	MID-EBB	9-Oct-06	15:39	37.90	26.8	5.92	5.80	YES			93.6	89.9	8.4	29.5	6.8	6.7	YES			10.0		
143	WWFCZ2	M	MID-EBB	9-Oct-06			26.8	5.71	5.60	YES	5.76	Comply	87.0	84.9	8.4	30.2	8.1	7.8	YES			8.5		
144	WWFCZ2	B	MID-EBB	9-Oct-06			26.8	5.59	5.43	YES	5.51	Comply	85.3	81.8	8.4	30.4	9.4	9.5	YES	8.1	Exceed Action Level	14.0	10.8	Comply
145	WFCZR1	S	MID-EBB	9-Oct-06	15:52	40.60	26.8	5.96	5.82	YES			98.1	92.6	8.4	30.2	7.4	7.3	YES			17.5		
146	WFCZR1	M	MID-EBB	9-Oct-06			26.8	5.76	5.58	YES	5.78		87.4	84.9	8.4	30.5	8.3	8.1	YES			14.5		
147	WFCZR1	B	MID-EBB	9-Oct-06			26.7	5.62	5.45	YES	5.54		83.0	80.7	8.4	30.4	8.5	7.9	YES	7.9		12.0	14.7	
148	WFCZR2	S	MID-EBB	9-Oct-06	15:13	41.00	26.8	5.96	5.91	YES			93.2	88.8	8.4	30.0	6.9	8.3	YES			6.5		
149	WFCZR2	M	MID-EBB	9-Oct-06			26.6	5.80	5.64	YES	5.83		87.9	85.2	8.4	30.4	7.0	6.9	YES			8.0		
150	WFCZR2	B	MID-EBB	9-Oct-06			26.8	5.56	5.44	YES	5.50		86.0	84.1	8.4	30.3	6.5	6.2	YES	7.0		7.0	7.2	
151	WWA1	S	MID-FLOOD	9-Oct-06	11:36	8.90	26.6	5.86	5.80	YES			89.9	86.9	8.4	30.8	12.5	11.7	YES			17.5		
152	WWA1	M	MID-FLOOD	9-Oct-06			26.7	5.72	5.60	YES	5.75	Comply	85.2	82.9	8.4	30.9	9.8	8.3	YES			20.0		
153	WWA1	B	MID-FLOOD	9-Oct-06			26.6	5.62	5.50	YES	5.56	Comply	83.6	80.5	8.4	31.0	13.2	10.9	YES	11.1	Exceed Action Level	20.5	19.3	Exceed Action Level

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp, °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
154	WWA2	S	MID-FLOOD	9-Oct-06	11:46	12.00	26.7	5.96	5.90	YES	5.85	Comply	89.9	85.9	8.4	30.7	9.5	8.6	YES	9.4	Exceed Action Level	15.5	20.3	Exceed Action Level
155	WWA2	M	MID-FLOOD	9-Oct-06			26.8	5.84	5.69	YES			87.2	85.0	8.4	30.9	10.3	11.6	YES			22.0		
156	WWA2	B	MID-FLOOD	9-Oct-06			26.7	5.57	5.43	YES	5.50	Comply	84.1	82.0	8.4	30.9	7.7	8.4	YES			23.5		
157	WWA3	S	MID-FLOOD	9-Oct-06	11:56	8.00	26.6	5.90	5.76	YES	5.73	Comply	89.8	86.0	8.4	30.9	9.4	9.3	YES	10.6	Exceed Action Level	12.0	14.7	Comply
158	WWA3	M	MID-FLOOD	9-Oct-06			26.5	5.70	5.56	YES			85.2	83.8	8.4	30.9	12.3	11.6	YES			16.0		
159	WWA3	B	MID-FLOOD	9-Oct-06			26.6	5.50	5.46	YES	5.48	Comply	83.0	80.4	8.4	30.9	10.8	10.5	YES			16.0		
160	WRA1	S	MID-FLOOD	9-Oct-06	11:26	32.20	26.9	5.99	5.93	YES	5.87		95.0	90.3	8.4	30.8	8.7	9.2	YES	10.1		11.0	15.8	
161	WRA1	M	MID-FLOOD	9-Oct-06			26.8	5.86	5.71	YES			89.6	85.2	8.4	30.9	11.4	10.8	YES			18.5		
162	WRA1	B	MID-FLOOD	9-Oct-06			26.8	5.60	5.45	YES	5.53		83.6	80.8	8.4	30.9	10.9	9.5	YES			18.0		
163	WRA2	S	MID-FLOOD	9-Oct-06	11:12	25.70	26.8	5.89	5.79	YES	5.74		92.0	89.1	8.4	30.7	10.3	9.6	YES	9.4		12.0	14.8	
164	WRA2	M	MID-FLOOD	9-Oct-06			26.8	5.70	5.58	YES			86.7	84.2	8.4	30.8	9.5	8.3	YES			15.0		
165	WRA2	B	MID-FLOOD	9-Oct-06			26.8	5.56	5.40	YES	5.48		83.6	81.4	8.4	30.0	9.2	9.2	YES			17.5		
166	WRA3	S	MID-FLOOD	9-Oct-06	10:58	26.30	26.7	5.96	5.89	YES	5.84		97.6	90.9	8.4	30.9	10.2	9.8	YES	10.2		8.0	11.3	
167	WRA3	M	MID-FLOOD	9-Oct-06			26.7	5.80	5.71	YES			86.7	84.9	8.4	30.7	10.8	10.1	YES			11.0		
168	WRA3	B	MID-FLOOD	9-Oct-06			26.7	5.60	5.49	YES	5.55		85.0	82.5	8.4	30.9	10.5	9.7	YES			15.0		
169	WWFCZ1	S	MID-FLOOD	9-Oct-06	10:16	37.00	26.4	5.92	5.80	YES	5.76	Comply	98.6	91.9	8.3	31.1	7.2	7.0	YES	7.6	Exceed Action Level	18.5	26.0	Exceed Action Level
170	WWFCZ1	M	MID-FLOOD	9-Oct-06			26.8	5.72	5.59	YES			87.0	84.1	8.3	30.8	7.2	7.2	YES			26.5		
171	WWFCZ1	B	MID-FLOOD	9-Oct-06			26.8	5.60	5.42	YES	5.51	Comply	83.6	80.4	8.3	30.9	8.5	8.3	YES			33.0		
172	WWFCZ2	S	MID-FLOOD	9-Oct-06	10:30	38.30	26.5	5.95	5.90	YES	5.81	Comply	92.0	87.9	8.4	31.0	6.7	6.7	YES	7.7	Exceed Action Level	15.5	21.7	Exceed Action Level
173	WWFCZ2	M	MID-FLOOD	9-Oct-06			26.8	5.79	5.61	YES			87.0	83.9	8.4	31.0	7.2	7.2	YES			23.5		
174	WWFCZ2	B	MID-FLOOD	9-Oct-06			26.8	5.58	5.42	YES	5.50	Comply	84.1	81.3	8.4	31.0	9.3	9.2	YES			26.0		
175	WFCZR1	S	MID-FLOOD	9-Oct-06	10:02	41.40	26.8	5.96	5.90	YES	5.85		96.4	91.0	8.4	27.5	7.3	7.2	YES	7.8		14.0	25.5	
176	WFCZR1	M	MID-FLOOD	9-Oct-06			26.8	5.84	5.71	YES			89.3	87.4	8.4	7.3	8.0	7.8	YES			31.5		
177	WFCZR1	B	MID-FLOOD	9-Oct-06			26.7	5.61	5.48	YES	5.55		84.5	82.7	8.4	8.0	8.2	8.2	YES			31.0		
178	WFCZR2	S	MID-FLOOD	9-Oct-06	10:45	42.20	26.7	5.94	5.82	YES	5.78		90.6	86.9	8.4	30.8	7.1	7.1	YES	6.8		25.5	21.8	
179	WFCZR2	M	MID-FLOOD	9-Oct-06			26.8	5.76	5.61	YES			87.4	85.2	8.4	30.9	7.0	6.8	YES			18.5		
180	WFCZR2	B	MID-FLOOD	9-Oct-06			26.6	5.54	5.41	YES	5.48		83.0	80.6	8.4	31.0	6.5	6.5	YES			21.5		
181	WWA1	S	MID-EBB	11-Oct-06	16:44	8.10	27.3	5.96	5.89	YES	5.81	Comply	90.9	86.7	7.6	30.2	4.9	4.9	YES	5.9	Comply	8.5	12.5	Comply
182	WWA1	M	MID-EBB	11-Oct-06			27.1	5.76	5.61	YES			89.0	87.2	7.6	30.3	5.4	5.2	YES			16.0		
183	WWA1	B	MID-EBB	11-Oct-06			27.1	5.56	5.41	YES	5.49	Comply	84.6	80.7	7.6	30.2	7.7	7.5	YES			13.0		
184	WWA2	S	MID-EBB	11-Oct-06	16:58	10.20	27.2	5.90	5.74	YES	5.77	Comply	94.9	90.8	7.5	30.3	4.6	4.5	YES	5.2	Comply	7.5	8.8	Comply
185	WWA2	M	MID-EBB	11-Oct-06			27.1	5.80	5.62	YES			86.9	84.5	7.5	30.2	5.3	5.3	YES			10.0		
186	WWA2	B	MID-EBB	11-Oct-06			27.2	5.56	5.44	YES	5.50	Comply	86.0	82.8	7.5	30.2	5.8	5.8	YES			9.0		
187	WWA3	S	MID-EBB	11-Oct-06	17:05	6.90	27.1	5.91	5.80	YES	5.73	Comply	94.6	91.3	7.4	30.3	4.0	4.1	YES	4.9	Comply	7.5	11.0	Comply
188	WWA3	M	MID-EBB	11-Oct-06			27.0	5.67	5.54	YES			87.0	84.1	7.4	30.3	5.2	5.2	YES			14.0		
189	WWA3	B	MID-EBB	11-Oct-06			27.0	5.56	5.43	YES	5.50	Comply	80.5	83.3	7.4	30.2	5.4	5.2	YES			11.5		
190	WRA1	S	MID-EBB	11-Oct-06	16:29	31.80	27.1	5.94	5.79	YES	5.74		92.9	89.3	7.8	30.2	6.6	6.5	YES	7.1		7.5	8.7	
191	WRA1	M	MID-EBB	11-Oct-06			27.1	5.64	5.57	YES			86.5	84.1	7.8	30.4	7.5	7.4	YES			8.0		
192	WRA1	B	MID-EBB	11-Oct-06			27.1	5.54	5.43	YES	5.49		83.0	80.5	7.8	30.2	7.2	7.4	YES			10.5		
193	WRA2	S	MID-EBB	11-Oct-06	16:13	25.30	27.1	5.96	5.89	YES	5.84		96.9	91.0	7.8	30.2	5.9	5.7	YES	5.2		11.0	13.8	
194	WRA2	M	MID-EBB	11-Oct-06			27.1	5.82	5.70	YES			88.2	84.9	7.8	30.2	6.1	6.0	YES			17.0		
195	WRA2	B	MID-EBB	11-Oct-06			27.1	5.57	5.41	YES	5.49		83.5	80.6	7.8	30.3	6.7	6.5	YES			13.5		
196	WRA3	S	MID-EBB	11-Oct-06	15:58	24.60	27.1	5.96	5.90	YES	5.84		96.7	90.4	7.7	28.8	5.3	5.2	YES	5.6		11.0	10.7	
197	WRA3	M	MID-EBB	11-Oct-06			27.1	5.86	5.64	YES			87.3	85.6	7.7	30.1	6.7	6.3	YES			10.0		
198	WRA3	B	MID-EBB	11-Oct-06			27.1	5.66	5.50	YES	5.58		84.2	81.6	7.7	30.2	5.0	4.8	YES			11.0		
199	WWFCZ1	S	MID-EBB	11-Oct-06	15:15	36.10	27.1	5.96	5.90	YES	5.82	Comply	96.7	92.3	7.7	30.0	4.9	4.6	YES	8.1	Exceed Action Level	7.0	10.7	Comply
200	WWFCZ1	M	MID-EBB	11-Oct-06			27.0	5.79	5.63	YES			87.6	84.9	7.7	30.1	9.8	9.5	YES			13.0		
201	WWFCZ1	B	MID-EBB	11-Oct-06			27.0	5.49	5.40	YES	5.45	Comply	85.5	83.0	7.7	30.2	10.4	9.7	YES			12.0		

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
202	WWFCZ2	S	MID-EBB	11-Oct-06	15:31	34.20	27.1	5.91	5.79	YES	5.75	Comply	92.0	88.3	7.6	30.0	7.1	6.8	YES	7.1	Exceed Action Level	8.0	10.7	Comply
203	WWFCZ2	M	MID-EBB	11-Oct-06			27.1	5.71	5.59	YES			86.7	84.2	7.6	30.2	8.4	8.1	YES			12.5		
204	WWFCZ2	B	MID-EBB	11-Oct-06			27.1	5.58	5.46	YES	5.52	Comply	82.9	80.4	7.7	30.1	6.2	6.2	YES			11.5		
205	WFCZR1	S	MID-EBB	11-Oct-06	15:00	42.70	27.3	5.97	5.91	YES	5.84		93.9	86.9	8.1	28.6	5.6	5.8	YES	6.8		11.5	13.2	
206	WFCZR1	M	MID-EBB	11-Oct-06			27.2	5.82	5.67	YES			88.3	85.6	8.1	25.7	6.3	6.3	YES			11.0		
207	WFCZR1	B	MID-EBB	11-Oct-06			27.0	5.55	5.41	YES	5.48		84.0	81.7	8.1	30.6	8.4	8.3	YES			17.0		
208	WFCZR2	S	MID-EBB	11-Oct-06	15:43	41.40	27.3	5.94	5.86	YES	5.83		95.2	90.6	7.6	30.0	3.7	3.6	YES	7.3		6.5	11.7	
209	WFCZR2	M	MID-EBB	11-Oct-06			27.1	5.82	5.70	YES			87.2	85.6	7.6	30.1	10.2	9.8	YES			12.0		
210	WFCZR2	B	MID-EBB	11-Oct-06			27.0	5.60	5.51	YES	5.56		84.5	82.3	7.6	30.3	8.3	8.2	YES			16.5		
211	WWA1	S	MID-FLOOD	11-Oct-06	10:27	8.50	27.0	5.96	5.90	YES	5.85	Comply	94.7	89.6	7.8	30.0	4.8	4.7	YES	5.4	Comply	18.5	19.7	Exceed Action Level
212	WWA1	M	MID-FLOOD	11-Oct-06			27.1	5.84	5.69	YES			87.2	85.7	7.7	30.0	5.2	5.0	YES			21.0		
213	WWA1	B	MID-FLOOD	11-Oct-06			27.1	5.56	5.41	YES	5.49	Comply	84.9	82.6	7.8	30.0	6.5	6.4	YES			19.5		
214	WWA2	S	MID-FLOOD	11-Oct-06	10:14	10.90	27.1	5.90	5.79	YES	5.75	Comply	89.9	87.2	7.8	30.1	4.7	4.7	YES	5.2	Comply	16.5	15.7	Comply
215	WWA2	M	MID-FLOOD	11-Oct-06			27.1	5.72	5.60	YES			86.0	84.5	7.8	30.0	5.5	5.3	YES			12.0		
216	WWA2	B	MID-FLOOD	11-Oct-06			27.2	5.54	5.42	YES	5.48	Comply	83.0	80.6	7.8	30.0	5.4	5.6	YES			18.5		
217	WWA3	S	MID-FLOOD	11-Oct-06	10:00	7.60	27.2	5.96	5.90	YES	5.81	Comply	94.9	91.0	7.7	30.2	4.2	4.4	YES	4.8	Comply	10.5	16.2	Comply
218	WWA3	M	MID-FLOOD	11-Oct-06			27.1	5.76	5.61	YES			87.6	84.6	7.7	29.8	5.0	4.8	YES			17.5		
219	WWA3	B	MID-FLOOD	11-Oct-06			27.0	5.49	5.40	YES	5.45	Comply	83.2	81.4	7.7	30.1	5.4	5.3	YES			20.5		
220	WRA1	S	MID-FLOOD	11-Oct-06	10:43	32.50	27.1	5.96	5.80	YES	5.77		96.3	91.6	7.7	29.9	6.3	6.2	YES	6.8		9.0	11.2	
221	WRA1	M	MID-FLOOD	11-Oct-06			27.1	5.74	5.59	YES			87.4	85.0	7.7	30.0	7.2	7.2	YES			11.0		
222	WRA1	B	MID-FLOOD	11-Oct-06			27.2	5.64	5.48	YES	5.56		83.0	80.6	7.7	30.0	6.8	7.0	YES			13.5		
223	WRA2	S	MID-FLOOD	11-Oct-06	10:59	26.50	27.1	5.93	5.84	YES	5.79		96.9	92.0	7.7	30.1	5.9	5.8	YES	6.1		12.5	13.2	
224	WRA2	M	MID-FLOOD	11-Oct-06			27.1	5.79	5.60	YES			88.4	84.9	7.7	30.1	6.2	6.2	YES			15.0		
225	WRA2	B	MID-FLOOD	11-Oct-06			27.1	5.54	5.42	YES	5.48		85.2	83.6	7.7	29.3	6.3	6.2	YES			12.0		
226	WRA3	S	MID-FLOOD	11-Oct-06	11:15	25.30	27.2	5.96	5.80	YES	5.78		92.7	86.2	7.7	30.2	5.1	5.1	YES	6.0		11.5	11.0	
227	WRA3	M	MID-FLOOD	11-Oct-06			27.1	5.74	5.60	YES			84.9	84.1	7.7	30.2	6.6	6.6	YES			10.5		
228	WRA3	B	MID-FLOOD	11-Oct-06			27.0	5.57	5.44	YES	5.51		85.0	83.7	7.7	30.2	6.2	6.4	YES			11.0		
229	WWFCZ1	S	MID-FLOOD	11-Oct-06	12:03	37.00	27.1	5.94	5.75	YES	5.77	Comply	90.5	86.6	7.7	30.2	4.8	4.6	YES	4.7	Comply	12.0	19.0	Exceed Action Level
230	WWFCZ1	M	MID-FLOOD	11-Oct-06			27.0	5.76	5.64	YES			87.0	83.5	7.7	29.8	8.8	8.6	YES			20.5		
231	WWFCZ1	B	MID-FLOOD	11-Oct-06			27.2	5.53	5.41	YES	5.47	Comply	85.6	82.4	7.7	30.2	9.6	9.6	YES			24.5		
232	WWFCZ2	S	MID-FLOOD	11-Oct-06	11:47	35.70	27.1	5.92	5.80	YES	5.75	Comply	96.2	91.0	7.8	29.6	7.2	7.3	YES	7.3	Exceed Action Level	16.0	17.0	Comply
233	WWFCZ2	M	MID-FLOOD	11-Oct-06			27.0	5.73	5.56	YES			86.9	84.5	7.8	29.8	8.2	8.0	YES			16.0		
234	WWFCZ2	B	MID-FLOOD	11-Oct-06			27.0	5.60	5.46	YES	5.53	Comply	84.0	81.9	7.8	30.2	6.5	6.4	YES			19.0		
235	WFCZR1	S	MID-FLOOD	11-Oct-06	12:18	44.30	27.1	5.96	5.89	YES	5.82		92.6	88.6	7.7	30.3	5.5	5.4	YES	5.9		19.5	21.0	
236	WFCZR1	M	MID-FLOOD	11-Oct-06			27.0	5.80	5.64	YES			88.0	86.4	7.7	30.4	6.1	5.9	YES			21.5		
237	WFCZR1	B	MID-FLOOD	11-Oct-06			26.7	5.53	5.42	YES	5.48		84.1	81.6	7.7	30.4	6.4	6.2	YES			22.0		
238	WFCZR2	S	MID-FLOOD	11-Oct-06	11:29	43.20	27.1	5.90	5.76	YES	5.72		93.0	87.7	7.8	30.2	3.8	3.7	YES	6.8		25.5	22.8	
239	WFCZR2	M	MID-FLOOD	11-Oct-06			27.1	5.70	5.52	YES			85.6	83.0	7.8	30.3	8.8	8.5	YES			24.0		
240	WFCZR2	B	MID-FLOOD	11-Oct-06			27.2	5.56	5.41	YES	5.49		83.6	80.2	7.8	30.2	7.9	8.0	YES			19.0		
241	WWA1	S	MID-EBB	13-Oct-06	10:59	7.70	27.5	5.91	5.79	YES	5.77	Comply	92.6	87.7	7.5	28.1	6.7	6.5	YES	7.1	Exceed Action Level	9.5	12.0	Comply
242	WWA1	M	MID-EBB	13-Oct-06			27.5	5.76	5.61	YES			86.7	84.6	7.5	28.2	6.8	6.6	YES			12.5		
243	WWA1	B	MID-EBB	13-Oct-06			27.4	5.56	5.42	YES	5.49	Comply	84.0	82.6	7.5	28.3	7.9	7.8	YES			14.0		
244	WWA2	S	MID-EBB	13-Oct-06	11:10	9.30	27.6	5.92	5.85	YES	5.82	Comply	93.9	90.6	7.5	28.0	4.3	4.1	YES	4.6	Comply	6.5	7.8	Comply
245	WWA2	M	MID-EBB	13-Oct-06			27.3	5.80	5.69	YES			87.6	85.1	7.5	28.2	4.2	4.4	YES			10.0		
246	WWA2	B	MID-EBB	13-Oct-06			27.2	5.68	5.46	YES	5.57	Comply	85.2	83.5	7.5	28.2	5.3	5.2	YES			7.0		
247	WWA3	S	MID-EBB	13-Oct-06	11:20	6.50	27.3	5.95	5.90	YES	5.85	Comply	89.7	87.0	7.6	28.2	5.2	5.2	YES	4.4	Comply	14.0	14.0	Exceed Action Level
248	WWA3	M	MID-EBB	13-Oct-06			27.1	5.82	5.70	YES			87.2	86.1	7.6	28.2	4.4	4.6	YES			14.0		
249	WWA3	B	MID-EBB	13-Oct-06			27.0	5.63	5.46	YES	5.55	Comply	84.3	82.7	7.6	28.2	3.5	3.5	YES			14.0		
250	WRA1	S	MID-EBB	13-Oct-06	10:48	31.60	27.4	5.86	5.75	YES	5.70		89.2	86.8	7.3	28.2	3.6	3.4	YES	3.6		7.5	10.3	
251	WRA1	M	MID-EBB	13-Oct-06			27.3	5.64	5.56	YES			85.3	84.2	7.4	27.2	3.8	3.6	YES			12.5		
252	WRA1	B	MID-EBB	13-Oct-06			27.2	5.52	5.49	YES	5.51		83.6	80.9	7.4	29.6	3.7	3.5	YES			11.0		

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
253	WRA2	S	MID-EBB	13-Oct-06	10:35	24.90	27.3	5.96	5.87	YES	5.83		92.6	89.4	7.1	28.2	5.0	4.8	YES	4.0		5.5	7.0	
254	WRA2	M	MID-EBB	13-Oct-06			27.3	5.81	5.68	YES			87.0	84.3	7.1	28.4	3.8	3.8	YES			7.0		
255	WRA2	B	MID-EBB	13-Oct-06			27.2	5.60	5.47	YES	5.54		83.7	81.6	7.1	28.9	3.5	3.4	YES			8.5		
256	WRA3	S	MID-EBB	13-Oct-06	10:22	24.20	27.6	5.92	5.84	YES	5.79		90.4	87.3	7.2	28.1	3.7	3.8	YES	5.1		5.5	7.5	
257	WRA3	M	MID-EBB	13-Oct-06			27.2	5.76	5.62	YES			86.1	84.0	7.2	28.7	5.2	5.2	YES			8.5		
258	WRA3	B	MID-EBB	13-Oct-06			27.2	5.51	5.43	YES	5.47		84.2	81.6	7.2	29.0	6.4	6.2	YES			8.5		
259	WWFCZ1	S	MID-EBB	13-Oct-06	9:58	33.50	27.4	5.92	5.89	YES	5.80	Comply	90.6	87.5	8.0	27.7	3.6	3.3	YES	5.0	Comply	9.5	9.2	Comply
260	WWFCZ1	M	MID-EBB	13-Oct-06			27.3	5.76	5.63	YES			86.3	85.2	8.0	28.6	6.2	6.2	YES			9.5		
261	WWFCZ1	B	MID-EBB	13-Oct-06			27.3	5.56	5.41	YES	5.49	Comply	84.1	82.5	8.0	29.0	5.2	5.2	YES			8.5		
262	WWFCZ2	S	MID-EBB	13-Oct-06	9:44	34.20	27.1	5.94	5.89	YES	5.83	Comply	92.8	89.6	7.8	27.9	5.1	5.1	YES	5.8	Comply	7.0	7.5	Comply
263	WWFCZ2	M	MID-EBB	13-Oct-06			27.2	5.80	5.69	YES			87.0	84.8	7.8	28.6	5.7	5.1	YES			7.5		
264	WWFCZ2	B	MID-EBB	13-Oct-06			27.2	5.57	5.43	YES	5.50	Comply	84.6	82.1	7.8	28.8	7.0	6.7	YES			8.0		
265	WFCZR1	S	MID-EBB	13-Oct-06	9:30	39.50	27.5	5.92	5.87	YES	5.80		95.4	89.6	7.7	25.4	4.9	4.8	YES	5.9		13.5	9.8	
266	WFCZR1	M	MID-EBB	13-Oct-06			27.3	5.76	5.63	YES			88.6	85.2	7.7	28.5	7.3	7.2	YES			9.0		
267	WFCZR1	B	MID-EBB	13-Oct-06			27.5	5.58	5.47	YES	5.53		86.0	83.4	7.7	28.9	5.7	5.5	YES			7.0		
268	WFCZR2	S	MID-EBB	13-Oct-06	10:10	40.60	27.2	5.95	5.87	YES	5.83		94.6	89.5	7.4	27.4	3.7	3.7	YES	4.8		5.0	7.8	
269	WFCZR2	M	MID-EBB	13-Oct-06			27.2	5.80	5.69	YES			87.4	85.3	7.5	28.5	5.0	4.6	YES			9.5		
270	WFCZR2	B	MID-EBB	13-Oct-06			27.2	5.54	5.40	YES	5.47		86.0	83.8	7.5	29.5	6.0	5.7	YES			9.0		
271	WWA1	S	MID-FLOOD	13-Oct-06	14:55	8.20	27.3	5.96	5.90	YES	5.85	Comply	94.0	90.6	7.5	29.9	6.5	6.5	YES	6.9	Exceed Action Level	11.5	11.8	Comply
272	WWA1	M	MID-FLOOD	13-Oct-06			27.2	5.82	5.73	YES			86.9	85.6	7.5	30.0	6.7	6.6	YES			12.5		
273	WWA1	B	MID-FLOOD	13-Oct-06			27.2	5.64	5.56	YES	5.60	Comply	84.0	81.5	7.5	27.7	7.8	7.2	YES			11.5		
274	WWA2	S	MID-FLOOD	13-Oct-06	15:09	9.70	27.3	5.90	5.82	YES	5.79	Comply	92.4	88.6	7.6	30.1	4.5	4.6	YES	4.5	Comply	8.0	10.3	Comply
275	WWA2	M	MID-FLOOD	13-Oct-06			27.2	5.80	5.63	YES			86.7	84.9	7.6	29.5	4.2	4.2	YES			11.0		
276	WWA2	B	MID-FLOOD	13-Oct-06			27.1	5.56	5.42	YES	5.49	Comply	85.0	83.3	7.6	30.2	5.0	4.8	YES			12.0		
277	WWA3	S	MID-FLOOD	13-Oct-06	15:24	6.80	27.3	5.90	5.81	YES	5.78	Comply	92.9	88.7	7.7	30.0	5.4	5.2	YES	4.5	Comply	7.5	10.8	Comply
278	WWA3	M	MID-FLOOD	13-Oct-06			27.2	5.76	5.64	YES			86.8	84.7	7.7	30.0	4.5	4.5	YES			12.0		
279	WWA3	B	MID-FLOOD	13-Oct-06			27.2	5.60	5.46	YES	5.53	Comply	84.2	82.6	7.7	30.1	3.6	3.6	YES			13.0		
280	WRA1	S	MID-FLOOD	13-Oct-06	14:38	32.40	27.0	5.93	5.82	YES	5.78		92.0	86.7	7.4	29.7	3.8	3.7	YES	3.6		5.5	8.3	
281	WRA1	M	MID-FLOOD	13-Oct-06			27.1	5.76	5.61	YES			85.9	83.9	7.4	30.0	3.5	3.5	YES			8.0		
282	WRA1	B	MID-FLOOD	13-Oct-06			27.1	5.58	5.46	YES	5.52		84.2	82.8	7.5	30.0	3.5	3.5	YES			11.5		
283	WRA2	S	MID-FLOOD	13-Oct-06	14:23	25.30	27.2	5.92	5.85	YES	5.79		97.6	93.1	7.6	29.3	5.0	5.1	YES	4.2		5.0	9.2	
284	WRA2	M	MID-FLOOD	13-Oct-06			27.2	5.79	5.60	YES			89.0	87.3	7.6	30.1	3.9	3.9	YES			11.5		
285	WRA2	B	MID-FLOOD	13-Oct-06			27.1	5.54	5.41	YES	5.48		84.2	82.0	7.6	30.2	3.5	3.7	YES			11.0		
286	WRA3	S	MID-FLOOD	13-Oct-06	14:09	25.70	27.3	5.94	5.89	YES	5.83		95.8	92.1	7.6	29.7	3.5	3.4	YES	4.9		8.5	8.7	
287	WRA3	M	MID-FLOOD	13-Oct-06			27.1	5.82	5.67	YES			86.8	84.7	7.6	29.8	5.1	5.1	YES			8.0		
288	WRA3	B	MID-FLOOD	13-Oct-06			27.1	5.60	5.47	YES	5.54		83.6	81.3	7.6	30.3	6.2	6.2	YES			9.5		
289	WWFCZ1	S	MID-FLOOD	13-Oct-06	13:56	34.70	27.4	5.96	5.91	YES	5.85	Comply	95.0	89.4	7.5	29.2	3.7	3.7	YES	4.9	Comply	9.0	14.0	Comply
290	WWFCZ1	M	MID-FLOOD	13-Oct-06			27.2	5.84	5.70	YES			87.5	84.9	7.5	30.0	5.8	5.5	YES			16.5		
291	WWFCZ1	B	MID-FLOOD	13-Oct-06			27.2	5.67	5.47	YES	5.57	Comply	83.6	81.2	7.5	30.1	5.5	5.4	YES			16.5		
292	WWFCZ2	S	MID-FLOOD	13-Oct-06	13:43	35.30	27.4	5.94	5.86	YES	5.80	Comply	91.0	87.6	7.7	28.7	5.2	5.2	YES	5.6	Comply	7.5	12.5	Comply
293	WWFCZ2	M	MID-FLOOD	13-Oct-06			27.3	5.76	5.63	YES			86.3	84.8	7.7	29.7	5.5	5.3	YES			12.5		
294	WWFCZ2	B	MID-FLOOD	13-Oct-06			27.1	5.50	5.41	YES	5.46	Comply	84.0	82.7	7.7	29.9	6.2	6.2	YES			17.5		
295	WFCZR1	S	MID-FLOOD	13-Oct-06	13:30	40.50	27.9	5.92	5.84	YES	5.81		92.2	89.5	7.7	29.0	5.0	5.1	YES	5.6		6.5	12.0	
296	WFCZR1	M	MID-FLOOD	13-Oct-06			27.5	5.80	5.67	YES			86.9	84.7	7.7	30.3	6.0	6.1	YES			13.0		
297	WFCZR1	B	MID-FLOOD	13-Oct-06			27.5	5.58	5.43	YES	5.51		85.1	82.6	7.7	30.6	5.5	5.5	YES			16.5		
298	WFCZR2	S	MID-FLOOD	13-Oct-06	13:17	41.90	27.2	5.95	5.87	YES	5.81		95.7	91.0	7.7	29.8	3.8	3.7	YES	4.6		10.0	13.3	
299	WFCZR2	M	MID-FLOOD	13-Oct-06			27.2	5.76	5.64	YES			87.3	85.4	7.7	30.0	4.8	4.8	YES			13.5		
300	WFCZR2	B	MID-FLOOD	13-Oct-06			27.2	5.52	5.41	YES	5.47		83.6	81.0	7.7	30.3	5.2	5.1	YES			16.5		
301	WWA1	S	MID-EBB	16-Oct-06	11:15	7.50	27.2	5.91	5.79	YES	5.77	Comply	97.2	91.0	8.2	27.6	4.5	4.4	YES	5.9	Comply	8.0	11.5	Comply
302	WWA1	M	MID-EBB	16-Oct-06			27.0	5.76	5.62	YES			87.8	85.5	8.2	27.5	7.4	7.6	YES			13.5		
303	WWA1	B	MID-EBB	16-Oct-06			27.1	5.54	5.43	YES	5.49	Comply	84.3	83.0	8.2	28.1	5.9	5.8	YES			13.0		

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
304	WWA2	S	MID-EBB	16-Oct-06	11:28	8.70	27.1	5.96	5.92	YES	5.86	Comply	94.0	89.2	8.2	27.5	3.6	3.9	YES	4.4	Comply	7.0	6.8	Comply
305	WWA2	M	MID-EBB	16-Oct-06			27.2	5.86	5.71	YES			85.1	83.6	8.2	27.5	4.2	4.3	YES			6.5		
306	WWA2	B	MID-EBB	16-Oct-06			27.2	5.50	5.42	YES	5.46	Comply	84.9	82.9	8.2	27.5	5.2	5.2	YES			7.0		
307	WWA3	S	MID-EBB	16-Oct-06	11:44	6.20	27.3	5.94	5.90	YES	5.84	Comply	92.6	88.1	7.9	27.5	4.0	3.8	YES	4.6	Comply	5.0	6.0	Comply
308	WWA3	M	MID-EBB	16-Oct-06			27.1	5.81	5.70	YES			87.6	85.9	7.9	27.8	5.8	5.6	YES			7.0		
309	WWA3	B	MID-EBB	16-Oct-06			27.1	5.72	5.58	YES	5.65	Comply	84.2	82.6	7.9	27.8	4.0	4.2	YES			6.0		
310	WRA1	S	MID-EBB	16-Oct-06	11:01	31.90	27.2	5.99	5.94	YES	5.89		90.7	87.4	8.2	26.8	3.0	3.2	YES	4.8		5.0	7.8	
311	WRA1	M	MID-EBB	16-Oct-06			27.1	5.84	5.80	YES			85.9	84.2	8.3	28.7	3.9	3.9	YES			5.5		
312	WRA1	B	MID-EBB	16-Oct-06			27.1	5.71	5.52	YES	5.62		84.6	82.9	8.3	29.8	7.9	6.9	YES			13.0		
313	WRA2	S	MID-EBB	16-Oct-06	10:47	25.20	26.7	5.90	5.76	YES	5.75		94.0	89.5	8.3	27.0	2.9	2.8	YES	3.5		5.0	8.2	
314	WRA2	M	MID-EBB	16-Oct-06			27.1	5.72	5.60	YES			87.5	85.3	8.3	29.1	3.3	3.5	YES			9.0		
315	WRA2	B	MID-EBB	16-Oct-06			27.2	5.61	5.46	YES	5.54		84.6	83.2	8.3	29.4	4.3	4.3	YES			10.5		
316	WRA3	S	MID-EBB	16-Oct-06	10:34	24.70	27.1	5.92	5.81	YES	5.77		89.9	87.2	8.3	26.9	2.5	2.8	YES	2.7		5.5	8.3	
317	WRA3	M	MID-EBB	16-Oct-06			27.2	5.72	5.61	YES			86.2	84.9	8.3	29.1	2.9	2.8	YES			6.5		
318	WRA3	B	MID-EBB	16-Oct-06			27.2	5.59	5.44	YES	5.52		85.9	83.6	8.3	29.4	2.8	2.7	YES			13.0		
319	WWFCZ1	S	MID-EBB	16-Oct-06	9:47	32.10	27.1	5.93	5.82	YES	5.74	Comply	91.2	87.7	8.3	27.3	4.0	4.0	YES	3.9	Comply	5.0	5.2	Comply
320	WWFCZ1	M	MID-EBB	16-Oct-06			27.1	5.69	5.51	YES			86.5	87.9	8.3	28.4	4.0	3.8	YES			5.5		
321	WWFCZ1	B	MID-EBB	16-Oct-06			27.1	5.53	5.42	YES	5.48	Comply	84.6	83.9	8.3	29.7	3.7	3.8	YES			5.0		
322	WWFCZ2	S	MID-EBB	16-Oct-06	10:02	31.60	27.1	5.90	5.79	YES	5.75	Comply	96.2	93.0	8.3	27.3	5.1	5.0	YES	4.0	Comply	6.5	6.3	Comply
323	WWFCZ2	M	MID-EBB	16-Oct-06			27.2	5.70	5.59	YES			88.4	85.9	8.3	28.6	3.6	3.7	YES			5.5		
324	WWFCZ2	B	MID-EBB	16-Oct-06			27.0	5.53	5.44	YES	5.49	Comply	84.0	82.6	8.3	29.2	3.4	3.4	YES			7.0		
325	WFCZR1	S	MID-EBB	16-Oct-06	9:30	38.30	27.0	5.92	5.80	YES	5.77		89.9	87.6	8.3	27.2	2.9	2.8	YES	3.0		10.0	7.5	
326	WFCZR1	M	MID-EBB	16-Oct-06			28.2	5.74	5.61	YES			87.1	84.5	8.3	28.4	3.0	3.1	YES			5.0		
327	WFCZR1	B	MID-EBB	16-Oct-06			26.6	5.54	5.43	YES	5.49		84.0	82.0	8.3	28.7	3.1	3.1	YES			7.5		
328	WFCZR2	S	MID-EBB	16-Oct-06	10:18	39.50	27.1	5.96	5.90	YES	5.85		93.9	89.2	8.2	27.1	2.8	2.8	YES	3.3		10.0	6.7	
329	WFCZR2	M	MID-EBB	16-Oct-06			27.2	5.82	5.71	YES			86.2	84.9	8.3	28.3	3.3	3.4	YES			5.0		
330	WFCZR2	B	MID-EBB	16-Oct-06			26.9	5.60	5.45	YES	5.53		85.0	82.2	8.3	28.6	3.7	3.7	YES			5.0		
331	WWA1	S	MID-FLOOD	16-Oct-06	17:39	7.90	27.3	5.94	5.91	YES	5.83	Comply	95.3	92.6	8.3	27.5	4.5	4.5	YES	5.7	Comply	9.0	9.5	Comply
332	WWA1	M	MID-FLOOD	16-Oct-06			27.1	5.80	5.67	YES			87.5	85.3	8.3	27.5	6.4	6.4	YES			10.5		
333	WWA1	B	MID-FLOOD	16-Oct-06			27.3	5.54	5.42	YES	5.48	Comply	84.0	82.1	8.3	27.5	6.1	6.2	YES			9.0		
334	WWA2	S	MID-FLOOD	16-Oct-06	17:42	9.50	27.4	5.91	5.80	YES	5.75	Comply	89.9	87.5	8.3	27.5	3.7	3.7	YES	3.9	Comply	7.5	7.2	Comply
335	WWA2	M	MID-FLOOD	16-Oct-06			27.2	5.74	5.56	YES			86.0	85.1	8.3	26.7	4.3	4.3	YES			7.5		
336	WWA2	B	MID-FLOOD	16-Oct-06			27.2	5.61	5.46	YES	5.54	Comply	83.6	81.5	8.3	25.8	4.0	3.7	YES			6.5		
337	WWA3	S	MID-FLOOD	16-Oct-06	17:56	7.30	27.2	5.86	5.71	YES	5.68	Comply	90.6	88.5	8.3	27.7	4.1	4.0	YES	4.6	Comply	11.0	12.7	Comply
338	WWA3	M	MID-FLOOD	16-Oct-06			27.0	5.60	5.54	YES			86.5	84.6	8.3	27.6	5.7	5.6	YES			15.5		
339	WWA3	B	MID-FLOOD	16-Oct-06			27.1	5.60	5.46	YES	5.53	Comply	85.9	83.0	8.3	27.9	4.1	4.3	YES			11.5		
340	WRA1	S	MID-FLOOD	16-Oct-06	17:23	32.50	27.2	5.86	5.80	YES	5.75		95.2	91.9	8.4	27.3	3.2	3.2	YES	4.4		6.5	7.7	
341	WRA1	M	MID-FLOOD	16-Oct-06			27.2	5.74	5.59	YES			87.1	85.6	8.3	28.0	3.8	3.6	YES			6.0		
342	WRA1	B	MID-FLOOD	16-Oct-06			27.1	5.52	5.41	YES	5.47		84.0	82.5	8.3	29.3	6.2	6.2	YES			10.5		
343	WRA2	S	MID-FLOOD	16-Oct-06	17:09	26.30	27.1	5.93	5.89	YES	5.82		91.9	88.4	8.3	27.5	3.0	2.9	YES	3.4		10.0	8.5	
344	WRA2	M	MID-FLOOD	16-Oct-06			27.1	5.80	5.67	YES			87.0	84.9	8.3	29.3	3.3	3.2	YES			6.5		
345	WRA2	B	MID-FLOOD	16-Oct-06			27.0	5.60	5.44	YES	5.52		84.3	82.9	8.3	29.8	4.0	4.1	YES			9.0		
346	WRA3	S	MID-FLOOD	16-Oct-06	17:00	25.90	27.3	5.90	5.82	YES	5.77		93.1	89.6	8.4	27.6	2.8	2.8	YES	2.9		6.5	8.3	
347	WRA3	M	MID-FLOOD	16-Oct-06			27.2	5.74	5.61	YES			87.6	84.5	8.4	29.3	3.0	3.1	YES			9.5		
348	WRA3	B	MID-FLOOD	16-Oct-06			27.1	5.54	5.43	YES	5.49		83.8	82.2	8.4	29.8	3.0	2.8	YES			9.0		
349	WWFCZ1	S	MID-FLOOD	16-Oct-06	16:19	33.20	27.2	5.90	5.78	YES	5.71	Comply	91.7	87.5	8.3	27.2	4.5	4.7	YES	4.0	Comply	8.0	7.5	Comply
350	WWFCZ1	M	MID-FLOOD	16-Oct-06			27.3	5.63	5.51	YES			87.2	84.0	8.4	28.7	4.3	4.2	YES			8.0		
351	WWFCZ1	B	MID-FLOOD	16-Oct-06			27.2	5.55	5.43	YES	5.49	Comply	83.8	82.5	8.4	29.1	3.2	3.2	YES	4.0	Comply	6.5	7.5	Comply

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
352	WWFCZ2	S	MID-FLOOD	16-Oct-06	16:34	32.50	27.3	5.92	5.75	YES	5.75	Comply	92.0	89.4	8.4	27.5	4.2	4.2	YES	3.8	Comply	7.5	7.3	Comply
353	WWFCZ2	M	MID-FLOOD	16-Oct-06			27.3	5.70	5.62	YES			87.0	84.6	8.4	28.0	3.7	3.7	YES			8.5		
354	WWFCZ2	B	MID-FLOOD	16-Oct-06			27.2	5.54	5.43	YES	5.49	Comply	83.5	81.6	8.4	29.5	3.5	3.4	YES			6.0		
355	WFCZR1	S	MID-FLOOD	16-Oct-06	16:05	39.60	27.6	5.96	5.94	YES	5.84		98.2	91.9	8.3	25.8	3.1	3.2	YES	3.5		6.5	8.5	
356	WFCZR1	M	MID-FLOOD	16-Oct-06			27.4	5.80	5.67	YES			88.6	84.7	8.3	28.4	3.2	3.2	YES			9.5		
357	WFCZR1	B	MID-FLOOD	16-Oct-06			27.1	5.63	5.47	YES	5.55		83.6	81.5	8.3	29.2	4.2	4.2	YES			9.5		
358	WFCZR2	S	MID-FLOOD	16-Oct-06	16:47	40.20	27.4	5.90	5.76	YES	5.71		89.4	84.9	8.3	27.1	3.0	2.9	YES	3.0		9.0	8.2	
359	WFCZR2	M	MID-FLOOD	16-Oct-06			27.2	5.64	5.52	YES			87.5	85.9	8.3	28.8	2.8	2.5	YES			8.0		
360	WFCZR2	B	MID-FLOOD	16-Oct-06			27.1	5.53	5.44	YES	5.49		84.3	82.5	8.3	29.9	3.3	3.5	YES			7.5		
361	WWA1	S	MID-EBB	18-Oct-06	10:57	7.30	27.0	5.90	5.79	YES	5.72	Comply	94.4	91.0	8.3	29.4	3.7	3.8	YES	4.6	Comply	10.5	9.7	Comply
362	WWA1	M	MID-EBB	18-Oct-06			27.2	5.62	5.56	YES			88.5	85.6	8.2	30.1	5.8	5.7	YES			7.5		
363	WWA1	B	MID-EBB	18-Oct-06			27.1	5.58	5.45	YES	5.52	Comply	83.5	81.6	8.2	30.0	4.4	4.5	YES			11.0		
364	WWA2	S	MID-EBB	18-Oct-06	10:42	8.20	27.1	5.92	5.86	YES	5.83	Comply	92.2	88.1	8.1	30.2	5.5	5.2	YES	4.5	Comply	8.5	9.3	Comply
365	WWA2	M	MID-EBB	18-Oct-06			27.2	5.81	5.74	YES			85.9	84.6	8.1	30.2	4.5	4.5	YES			9.0		
366	WWA2	B	MID-EBB	18-Oct-06			27.2	5.69	5.56	YES	5.63	Comply	83.4	81.0	8.1	30.1	3.7	3.6	YES			10.5		
367	WWA3	S	MID-EBB	18-Oct-06	10:30	6.30	27.3	5.96	5.91	YES	5.87	Comply	91.6	88.2	8.1	30.1	4.4	4.7	YES	5.3	Comply	8.0	9.3	Comply
368	WWA3	M	MID-EBB	18-Oct-06			27.2	5.84	5.76	YES			86.5	84.9	8.1	30.4	5.9	5.8	YES			10.5		
369	WWA3	B	MID-EBB	18-Oct-06			27.2	5.70	5.56	YES	5.63	Comply	84.0	82.2	8.1	30.0	5.4	5.6	YES			9.5		
370	WRA1	S	MID-EBB	18-Oct-06	11:11	30.70	27.1	5.91	5.84	YES	5.75		89.2	86.9	8.4	28.8	2.6	2.6	YES	4.3		8.5	8.8	
371	WRA1	M	MID-EBB	18-Oct-06			27.0	5.69	5.56	YES			86.2	85.1	8.3	30.4	5.0	4.9	YES			10.0		
372	WRA1	B	MID-EBB	18-Oct-06			27.1	5.54	5.42	YES	5.48		83.2	82.0	8.3	30.8	5.4	5.1	YES			8.0		
373	WRA2	S	MID-EBB	18-Oct-06	11:24	24.50	27.1	5.94	5.86	YES	5.82		86.6	84.9	8.4	29.1	2.4	2.4	YES	4.1		5.0	8.0	
374	WRA2	M	MID-EBB	18-Oct-06			27.0	5.81	5.66	YES			86.2	85.1	8.4	30.7	5.2	5.2	YES			11.5		
375	WRA2	B	MID-EBB	18-Oct-06			26.8	5.69	5.46	YES	5.58		84.2	81.6	8.3	30.4	4.5	4.7	YES			7.5		
376	WRA3	S	MID-EBB	18-Oct-06	11:49	23.90	27.1	5.99	5.92	YES	5.87		89.4	86.9	8.3	29.3	3.1	3.2	YES	4.1		5.0	6.3	
377	WRA3	M	MID-EBB	18-Oct-06			27.0	5.82	5.74	YES			85.6	84.0	8.3	30.9	3.0	3.2	YES			6.5		
378	WRA3	B	MID-EBB	18-Oct-06			27.0	5.50	5.39	YES	5.45		82.9	80.4	8.3	30.5	6.1	6.1	YES			7.5		
379	WWFCZ1	S	MID-EBB	18-Oct-06	12:34	32.40	27.1	5.94	5.82	YES	5.77	Comply	92.6	88.4	8.4	28.0	3.0	3.1	YES	3.3	Comply	5.0	6.3	Comply
380	WWFCZ1	M	MID-EBB	18-Oct-06			27.1	5.71	5.59	YES			87.0	84.2	8.4	29.9	3.0	3.1	YES			5.0		
381	WWFCZ1	B	MID-EBB	18-Oct-06			27.0	5.61	5.44	YES	5.53	Comply	82.8	80.1	8.4	30.7	3.7	3.7	YES			9.0		
382	WWFCZ2	S	MID-EBB	18-Oct-06	12:17	31.90	27.0	5.91	5.83	YES	5.80	Comply	91.6	87.7	8.4	29.9	2.5	2.5	YES	3.2	Comply	8.0	8.2	Comply
383	WWFCZ2	M	MID-EBB	18-Oct-06			27.0	5.80	5.64	YES			87.0	84.9	8.4	30.2	3.4	3.5	YES			7.0		
384	WWFCZ2	B	MID-EBB	18-Oct-06			27.0	5.58	5.46	YES	5.52	Comply	83.4	80.7	8.4	30.5	3.6	3.6	YES			9.5		
385	WFCZR1	S	MID-EBB	18-Oct-06	12:49	37.50	27.0	5.99	5.94	YES	5.88		96.8	91.6	8.4	27.9	2.6	2.6	YES	2.6		5.0	5.0	
386	WFCZR1	M	MID-EBB	18-Oct-06			27.0	5.84	5.76	YES			88.4	85.6	8.4	29.8	2.6	2.6	YES			5.0		
387	WFCZR1	B	MID-EBB	18-Oct-06			26.8	5.62	5.46	YES	5.54		83.5	80.9	8.4	30.4	2.6	2.8	YES			5.0		
388	WFCZR2	S	MID-EBB	18-Oct-06	12:03	38.60	27.1	5.90	5.77	YES	5.74		92.9	89.3	8.4	28.1	3.4	3.5	YES	3.3		5.5	5.3	
389	WFCZR2	M	MID-EBB	18-Oct-06			27.1	5.70	5.58	YES			86.9	85.1	8.4	29.6	3.0	2.8	YES			5.5		
390	WFCZR2	B	MID-EBB	18-Oct-06			27.0	5.52	5.40	YES	5.46		83.0	81.1	8.4	30.0	3.5	3.6	YES			5.0		
391	WWA1	S	MID-FLOOD	18-Oct-06	16:27	7.60	27.7	5.93	5.81	YES	5.79	Comply	95.5	92.0	7.8	27.5	3.1	3.5	YES	4.1	Comply	5.0	5.7	Comply
392	WWA1	M	MID-FLOOD	18-Oct-06			27.7	5.76	5.64	YES			89.1	87.5	7.8	27.6	4.8	4.6	YES			5.0		
393	WWA1	B	MID-FLOOD	18-Oct-06			27.8	5.61	5.43	YES	5.52	Comply	85.0	83.6	7.8	27.5	4.3	4.4	YES			7.0		
394	WWA2	S	MID-FLOOD	18-Oct-06	16:13	8.50	27.6	5.91	5.82	YES	5.77	Comply	93.4	89.2	8.0	27.6	4.9	4.9	YES	4.4	Comply	8.5	9.0	Comply
395	WWA2	M	MID-FLOOD	18-Oct-06			27.5	5.74	5.60	YES			87.0	84.4	7.8	28.0	4.6	4.8	YES			8.5		
396	WWA2	B	MID-FLOOD	18-Oct-06			27.6	5.52	5.41	YES	5.47	Comply	83.5	80.6	7.8	28.0	3.6	3.6	YES			10.0		
397	WWA3	S	MID-FLOOD	18-Oct-06	16:00	6.70	28.0	5.94	5.82	YES	5.80	Comply	95.3	90.6	7.8	19.6	4.3	4.6	YES	4.4	Comply	9.0	9.3	Comply
398	WWA3	M	MID-FLOOD	18-Oct-06			27.7	5.76	5.67	YES			86.8	84.1	7.8	26.7	4.9	4.8	YES			11.5		
399	WWA3	B	MID-FLOOD	18-Oct-06			27.6	5.60	5.48	YES	5.54	Comply	83.6	81.5	7.8	27.6	3.9	3.8	YES			7.5		
400	WRA1	S	MID-FLOOD	18-Oct-06	16.47	31.40	27.5	5.89	5.82	YES	5.76		89.3	87.1	7.8	27.6	2.9	2.8	YES	4.1		5.0	5.3	
401	WRA1	M	MID-FLOOD	18-Oct-06			27.4	5.70	5.62	YES			86.3	84.3	7.8	27.7	4.2	4.2	YES			6.0		
402	WRA1	B	MID-FLOOD	18-Oct-06			27.3	5.57	5.43	YES	5.50		83.7	82.0	7.8	28.4	5.2	5.2	YES			5.0		

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
403	WRA2	S	MID-FLOOD	18-Oct-06	16:59	25.30	27.6	5.92	5.80	YES	5.77		94.6	92.1	7.8	24.3	3.2	3.4	YES	3.4		5.0	6.0	
404	WRA2	M	MID-FLOOD	18-Oct-06			27.3	5.71	5.63	YES			87.6	85.2	7.8	28.6	3.8	3.6	YES			5.0		
405	WRA2	B	MID-FLOOD	18-Oct-06			27.3	5.59	5.43	YES	5.51		84.0	82.4	7.8	29.2	3.3	3.5	YES			8.0		
406	WRA3	S	MID-FLOOD	18-Oct-06	17:09	24.50	27.7	5.96	5.91	YES	5.85		93.6	91.0	7.9	27.6	3.3	3.6	YES	3.5		8.5	7.2	
407	WRA3	M	MID-FLOOD	18-Oct-06			27.3	5.82	5.70	YES			86.2	84.0	7.9	28.5	3.0	2.9	YES			7.0		
408	WRA3	B	MID-FLOOD	18-Oct-06			27.3	5.61	5.45	YES	5.53		82.6	80.2	7.9	28.7	4.0	4.2	YES			6.0		
409	WWFCZ1	S	MID-FLOOD	18-Oct-06	17:48	33.60	27.6	5.99	5.86	YES	5.81	Comply	96.6	90.1	7.9	27.5	3.3	3.2	YES	3.8	Comply	11.0	12.5	Comply
410	WWFCZ1	M	MID-FLOOD	18-Oct-06			27.3	5.76	5.64	YES			87.7	85.1	7.9	28.4	4.2	4.6	YES			12.0		
411	WWFCZ1	B	MID-FLOOD	18-Oct-06			27.2	5.53	5.45	YES	5.49	Comply	83.6	80.5	7.9	29.3	4.0	3.8	YES			14.5		
412	WWFCZ2	S	MID-FLOOD	18-Oct-06	17:34	32.50	27.5	5.91	5.80	YES	5.81	Comply	91.9	87.5	7.9	27.6	3.2	3.0	YES	3.2	Comply	20.5	12.5	Comply
413	WWFCZ2	M	MID-FLOOD	18-Oct-06			26.9	5.82	5.70	YES			86.2	85.3	7.9	28.4	3.2	3.3	YES			8.0		
414	WWFCZ2	B	MID-FLOOD	18-Oct-06			27.1	5.60	5.45	YES	5.53	Comply	84.0	81.2	7.9	29.1	3.4	3.2	YES			9.0		
415	WFCZR1	S	MID-FLOOD	18-Oct-06	18:01	38.30	27.6	5.96	5.89	YES	5.78		93.7	90.2	7.6	27.8	2.8	3.0	YES	2.7		7.5	8.5	
416	WFCZR1	M	MID-FLOOD	18-Oct-06			27.3	5.76	5.51	YES			87.1	84.4	7.6	28.7	2.8	2.6	YES			10.5		
417	WFCZR1	B	MID-FLOOD	18-Oct-06			27.3	5.53	5.46	YES	5.50		85.6	83.0	7.6	29.2	2.5	2.7	YES			7.5		
418	WFCZR2	S	MID-FLOOD	18-Oct-06	17:23	39.70	27.5	5.94	5.90	YES	5.80		91.1	88.5	7.8	27.6	3.4	3.6	YES	3.2		7.5	9.3	
419	WFCZR2	M	MID-FLOOD	18-Oct-06			27.4	5.76	5.61	YES			86.7	85.8	7.8	28.3	3.0	2.8	YES			7.0		
420	WFCZR2	B	MID-FLOOD	18-Oct-06			27.2	5.53	5.43	YES	5.48		83.3	81.2	7.8	28.7	3.2	3.2	YES			13.5		
421	WWA1	S	MID-EBB	20-Oct-06	12:27	7.20	27.2	5.94	5.81	YES	5.77	Comply	89.8	87.3	8.2	30.1	6.4	6.3	YES	6.4	Comply	16.0	16.3	Exceed Action Level
422	WWA1	M	MID-EBB	20-Oct-06			26.8	5.72	5.59	YES			86.0	84.5	8.2	30.1	5.5	5.3	YES			16.0		
423	WWA1	B	MID-EBB	20-Oct-06			26.8	5.52	5.41	YES	5.47	Comply	84.2	80.8	8.2	30.1	7.6	7.3	YES			17.0		
424	WWA2	S	MID-EBB	20-Oct-06	12:14	8.10	27.2	5.90	5.74	YES	5.71	Comply	89.1	86.7	8.2	30.2	4.4	4.2	YES	4.4	Comply	6.5	8.0	Comply
425	WWA2	M	MID-EBB	20-Oct-06			27.1	5.67	5.53	YES			85.0	83.9	8.2	30.4	5.7	5.7	YES			10.5		
426	WWA2	B	MID-EBB	20-Oct-06			27.1	5.56	5.42	YES	5.49	Comply	83.3	80.9	8.2	30.3	3.3	3.2	YES			7.0		
427	WWA3	S	MID-EBB	20-Oct-06	12:00	6.20	27.3	5.94	5.86	YES	5.82	Comply	90.6	88.7	8.2	30.0	3.8	3.7	YES	4.2	Comply	6.0	7.7	Comply
428	WWA3	M	MID-EBB	20-Oct-06			27.1	5.80	5.67	YES			87.3	84.8	8.2	30.2	4.4	4.4	YES			9.0		
429	WWA3	B	MID-EBB	20-Oct-06			27.1	5.60	5.47	YES	5.54	Comply	84.1	81.4	8.2	30.3	4.5	4.3	YES			8.0		
430	WRA1	S	MID-EBB	20-Oct-06	12:44	30.80	27.1	5.92	5.83	YES	5.78		93.8	91.0	8.2	29.6	3.7	3.6	YES	3.6		9.5	11.5	
431	WRA1	M	MID-EBB	20-Oct-06			26.9	5.75	5.60	YES			88.2	87.0	8.2	30.5	3.4	3.4	YES			13.5		
432	WRA1	B	MID-EBB	20-Oct-06			26.8	5.56	5.44	YES	5.50		84.6	81.9	8.2	30.3	3.9	3.9	YES			11.5		
433	WRA2	S	MID-EBB	20-Oct-06	13:02	25.40	27.2	5.91	5.84	YES	5.79		91.4	86.8	8.3	29.5	4.3	4.4	YES	4.1		15.0	13.7	
434	WRA2	M	MID-EBB	20-Oct-06			27.0	5.77	5.64	YES			87.4	85.6	8.3	30.4	3.3	3.2	YES			14.0		
435	WRA2	B	MID-EBB	20-Oct-06			27.0	5.57	5.44	YES	5.51		83.7	80.8	8.3	30.5	4.7	4.5	YES			12.0		
436	WRA3	S	MID-EBB	20-Oct-06	13:16	24.90	27.0	5.94	5.84	YES	5.78		92.9	89.4	8.3	30.1	5.1	5.2	YES	4.2		12.5	11.3	
437	WRA3	M	MID-EBB	20-Oct-06			27.0	5.71	5.64	YES			86.2	84.9	8.3	30.4	4.1	4.3	YES			13.0		
438	WRA3	B	MID-EBB	20-Oct-06			27.0	5.53	5.41	YES	5.47		83.8	81.5	8.3	30.5	3.1	3.3	YES			8.5		
439	WWFCZ1	S	MID-EBB	20-Oct-06	13:59	33.80	27.2	5.94	5.88	YES	5.80	Comply	90.0	87.3	8.3	29.7	4.2	4.1	YES	4.4	Comply	6.5	8.2	Comply
440	WWFCZ1	M	MID-EBB	20-Oct-06			27.2	5.76	5.62	YES			85.9	83.8	8.3	30.3	4.9	4.8	YES			8.0		
441	WWFCZ1	B	MID-EBB	20-Oct-06			27.1	5.54	5.41	YES	5.48	Comply	84.2	82.0	8.3	30.3	4.2	4.4	YES			10.0		
442	WWFCZ2	S	MID-EBB	20-Oct-06	13:43	32.70	26.7	5.89	5.74	YES	5.73	Comply	91.0	87.3	8.3	30.2	4.3	4.5	YES	4.5	Comply	8.5	10.3	Comply
443	WWFCZ2	M	MID-EBB	20-Oct-06			26.6	5.70	5.58	YES			86.1	84.4	8.2	32.3	6.0	5.9	YES			11.0		
444	WWFCZ2	B	MID-EBB	20-Oct-06			26.7	5.50	5.42	YES	5.46	Comply	82.9	80.5	8.2	33.8	3.2	3.4	YES			11.5		
445	WFCZR1	S	MID-EBB	20-Oct-06	14:09	38.60	27.2	5.96	5.90	YES	5.84		88.6	86.3	8.2	30.0	3.4	3.5	YES	4.2		8.0	10.0	
446	WFCZR1	M	MID-EBB	20-Oct-06			27.1	5.81	5.70	YES			85.2	83.8	8.2	30.3	5.0	4.7	YES			10.5		
447	WFCZR1	B	MID-EBB	20-Oct-06			26.2	5.59	5.45	YES	5.52		84.5	82.1	8.2	30.9	4.3	4.6	YES			11.5		
448	WFCZR2	S	MID-EBB	20-Oct-06	13:30	40.30	27.1	5.99	5.92	YES	5.86		95.3	90.8	8.3	29.6	6.8	6.7	YES	5.8		6.5	7.7	
449	WFCZR2	M	MID-EBB	20-Oct-06			27.1	5.84	5.70	YES			86.9	84.3	8.3	30.3	4.9	4.8	YES			7.5		
450	WFCZR2	B	MID-EBB	20-Oct-06			27.1	5.60	5.45	YES	5.53		83.2	80.9	8.3	30.3	5.9	5.7	YES			9.0		

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
451	WWA1	S	MID-FLOOD	20-Oct-06	16:58	7.80	27.9	5.96	5.90	YES	5.83	Comply	94.3	90.9	7.7	27.7	5.9	5.7	YES	5.7	Comply	8.5	10.5	Comply
452	WWA1	M	MID-FLOOD	20-Oct-06			27.5	5.81	5.66	YES			86.8	84.6	7.7	28.8	5.2	5.2	YES			10.5		
453	WWA1	B	MID-FLOOD	20-Oct-06			27.7	5.60	5.50	YES	5.55	Comply	83.5	81.8	7.7	28.0	6.2	6.1	YES			12.5		
454	WWA2	S	MID-FLOOD	20-Oct-06	16:43	8.90	27.9	5.89	5.81	YES	5.77	Comply	93.7	89.5	7.6	28.1	5.0	5.0	YES	4.7	Comply	11.0	9.3	Comply
455	WWA2	M	MID-FLOOD	20-Oct-06			27.8	5.76	5.63	YES			87.0	84.9	7.6	28.3	5.5	5.5	YES			9.0		
456	WWA2	B	MID-FLOOD	20-Oct-06			27.8	5.55	5.40	YES	5.48	Comply	84.0	81.6	7.6	28.0	3.8	3.7	YES			8.0		
457	WWA3	S	MID-FLOOD	20-Oct-06	16:30	6.80	28.4	5.96	5.93	YES	5.86	Comply	89.3	88.1	7.6	27.6	3.8	3.7	YES	4.3	Comply	7.5	10.0	Comply
458	WWA3	M	MID-FLOOD	20-Oct-06			28.1	5.82	5.71	YES			86.4	84.9	7.6	27.9	4.5	4.6	YES			11.0		
459	WWA3	B	MID-FLOOD	20-Oct-06			28.0	5.53	5.41	YES	5.47	Comply	83.6	81.5	7.6	27.8	4.6	4.6	YES			11.5		
460	WRA1	S	MID-FLOOD	20-Oct-06	17:12	31.60	27.7	5.99	5.92	YES	5.86		96.2	90.7	7.5	27.5	3.8	3.8	YES	3.8		5.5	9.3	
461	WRA1	M	MID-FLOOD	20-Oct-06			27.5	5.84	5.70	YES			87.4	86.1	7.5	28.3	3.5	3.6	YES			9.0		
462	WRA1	B	MID-FLOOD	20-Oct-06			27.2	5.59	5.44	YES	5.52		83.6	81.3	7.6	29.5	4.0	4.2	YES			13.5		
463	WRA2	S	MID-FLOOD	20-Oct-06	17:26	26.20	27.8	5.90	5.74	YES	5.70		92.1	89.3	7.6	27.2	4.2	4.4	YES	3.8		8.0	8.3	
464	WRA2	M	MID-FLOOD	20-Oct-06			27.4	5.64	5.53	YES			87.4	85.4	7.6	28.7	3.7	3.7	YES			8.0		
465	WRA2	B	MID-FLOOD	20-Oct-06			27.3	5.58	5.44	YES	5.51		84.3	81.7	7.6	29.4	3.3	3.5	YES			9.0		
466	WRA3	S	MID-FLOOD	20-Oct-06	17:40	25.30	28.0	5.94	5.80	YES	5.77		93.0	89.1	7.7	27.2	4.9	4.8	YES	4.2		13.0	10.5	
467	WRA3	M	MID-FLOOD	20-Oct-06			27.4	5.72	5.61	YES			86.9	83.6	7.7	25.6	4.4	4.5	YES			9.5		
468	WRA3	B	MID-FLOOD	20-Oct-06			27.3	5.54	5.41	YES	5.48		84.2	81.6	7.7	29.1	3.3	3.4	YES			9.0		
469	WWFCZ1	S	MID-FLOOD	20-Oct-06	18:17	34.20	27.8	5.91	5.81	YES	5.77	Comply	92.9	88.7	7.6	27.3	4.1	4.4	YES	4.3	Comply	9.5	10.2	Comply
470	WWFCZ1	M	MID-FLOOD	20-Oct-06			27.4	5.76	5.60	YES			88.0	85.8	7.6	28.8	4.8	4.5	YES			12.0		
471	WWFCZ1	B	MID-FLOOD	20-Oct-06			27.3	5.56	5.41	YES	5.49	Comply	83.5	80.7	7.6	28.7	4.0	3.9	YES			9.0		
472	WWFCZ2	S	MID-FLOOD	20-Oct-06	18:09	33.80	27.9	5.94	5.83	YES	5.77	Comply	91.6	89.8	7.6	29.1	4.5	4.7	YES	4.7	Comply	7.0	7.7	Comply
473	WWFCZ2	M	MID-FLOOD	20-Oct-06			27.3	5.74	5.58	YES			86.6	84.3	7.6	28.7	5.1	5.2	YES			9.5		
474	WWFCZ2	B	MID-FLOOD	20-Oct-06			27.2	5.51	5.40	YES	5.46	Comply	84.2	82.2	7.6	29.5	4.2	4.4	YES			6.5		
475	WFCZR1	S	MID-FLOOD	20-Oct-06	18:32	39.70	27.6	5.95	5.84	YES	5.77		95.9	91.0	7.5	27.3	3.5	3.6	YES	4.2		10.0	9.2	
476	WFCZR1	M	MID-FLOOD	20-Oct-06			27.4	5.73	5.56	YES			88.4	86.5	7.5	28.0	4.2	4.2	YES			6.5		
477	WFCZR1	B	MID-FLOOD	20-Oct-06			27.3	5.51	5.42	YES	5.47		83.1	80.8	7.5	28.4	4.9	4.9	YES			11.0		
478	WFCZR2	S	MID-FLOOD	20-Oct-06	17:53	41.20	28.0	5.92	5.80	YES	5.76		96.2	89.9	7.7	27.2	5.4	5.3	YES	5.3		5.0	7.8	
479	WFCZR2	M	MID-FLOOD	20-Oct-06			27.3	5.71	5.59	YES			86.5	85.0	7.7	28.1	4.9	4.9	YES			7.5		
480	WFCZR2	B	MID-FLOOD	20-Oct-06			27.1	5.54	5.46	YES	5.50		83.0	80.5	7.7	29.2	5.8	5.5	YES			11.0		
481	WWA1	S	MID-EBB	23-Oct-06	13:57	7.60	27.9	5.94	5.86	YES	5.82	Comply	97.9	92.0	7.8	29.5	6.1	6.1	YES	7.2	Exceed Action Level	10.5	11.2	Comply
482	WWA1	M	MID-EBB	23-Oct-06			27.6	5.80	5.66	YES			88.3	86.1	7.8	29.1	9.9	8.6	YES			11.0		
483	WWA1	B	MID-EBB	23-Oct-06			27.5	5.50	5.49	YES	5.50	Comply	83.3	81.0	7.8	29.1	6.2	6.2	YES			12.0		
484	WWA2	S	MID-EBB	23-Oct-06	13:43	8.50	26.6	5.97	5.81	YES	5.75	Comply	92.7	90.2	7.9	30.4	6.5	6.4	YES	6.0	Comply	12.5	11.3	Comply
485	WWA2	M	MID-EBB	23-Oct-06			27.0	5.68	5.53	YES			87.7	86.2	7.9	30.2	4.9	4.7	YES			12.0		
486	WWA2	B	MID-EBB	23-Oct-06			27.8	5.54	5.43	YES	5.49	Comply	84.0	81.5	7.9	29.6	7.2	6.5	YES			9.5		
487	WWA3	S	MID-EBB	23-Oct-06	13:30	6.90	26.4	5.92	5.82	YES	5.78	Comply	97.6	90.2	7.8	29.4	7.4	7.2	YES	7.8	Exceed Action Level	26.0	27.5	Exceed Action Level
488	WWA3	M	MID-EBB	23-Oct-06			27.9	5.76	5.60	YES			88.0	86.7	7.8	29.5	9.8	9.6	YES			25.5		
489	WWA3	B	MID-EBB	23-Oct-06			25.1	5.54	5.43	YES	5.49	Comply	83.5	81.0	7.8	32.3	6.5	6.3	YES			29.0		
490	WRA1	S	MID-EBB	23-Oct-06	14:11	32.30	27.7	5.96	5.90	YES	5.85		94.0	91.3	8.0	28.6	5.0	4.8	YES	5.0		19.5	15.5	
491	WRA1	M	MID-EBB	23-Oct-06			27.4	5.82	5.70	YES			88.4	86.5	8.0	29.4	4.9	4.7	YES			16.5		
492	WRA1	B	MID-EBB	23-Oct-06			27.3	5.54	5.40	YES	5.47		84.6	82.7	8.0	29.9	5.3	5.2	YES			10.5		
493	WRA2	S	MID-EBB	23-Oct-06	14:25	26.90	27.6	5.93	5.84	YES	5.80		97.6	92.0	8.0	28.7	4.2	4.2	YES	4.2		6.5	10.0	
494	WRA2	M	MID-EBB	23-Oct-06			27.5	5.74	5.67	YES			87.4	85.5	8.0	29.4	4.0	3.6	YES			7.5		
495	WRA2	B	MID-EBB	23-Oct-06			27.4	5.53	5.40	YES	5.47		83.0	80.3	8.0	29.8	4.6	4.5	YES			16.0		
496	WRA3	S	MID-EBB	23-Oct-06	14:38	26.70	27.5	5.99	5.91	YES	5.86		92.1	89.0	8.0	29.0	4.1	4.4	YES	5.0		15.5	18.8	
497	WRA3	M	MID-EBB	23-Oct-06			27.4	5.82	5.70	YES			87.4	85.6	8.0	29.6	5.3	5.3	YES			14.5		
498	WRA3	B	MID-EBB	23-Oct-06			27.3	5.53	5.41	YES	5.47		82.7	80.4	8.0	29.9	5.7	5.4	YES			26.5		
499	WWFCZ1	S	MID-EBB	23-Oct-06	15:20	35.30	27.6	5.91	5.84	YES	5.79	Comply	92.7	87.3	7.7	28.7	3.7	3.6	YES	4.2	Comply	12.5	9.0	Comply
500	WWFCZ1	M	MID-EBB	23-Oct-06			27.6	5.76	5.64	YES			86.5	84.7	7.7	28.8	4.1	4.3	YES			7.5		
501	WWFCZ1	B	MID-EBB	23-Oct-06			27.2	5.58	5.44	YES	5.51	Comply	83.8	81.0	7.7	28.9	4.7	4.7	YES			7.0		

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
502	WWFCZ2	S	MID-EBB	23-Oct-06	15:06	34.20	27.4	5.94	5.87	YES	5.80	Comply	95.3	91.0	7.7	28.4	3.9	3.6	YES	5.1	Comply	15.0	14.0	Exceed Action Level
503	WWFCZ2	M	MID-EBB	23-Oct-06			27.5	5.76	5.62	YES			86.8	84.6	7.7	28.2	5.7	5.5	YES			9.5		
504	WWFCZ2	B	MID-EBB	23-Oct-06			27.3	5.56	5.44	YES	5.50	Comply	83.3	81.1	7.7	29.5	6.0	5.8	YES			17.5		
505	WFCZR1	S	MID-EBB	23-Oct-06	15:36	40.30	27.7	5.91	5.86	YES	5.81		97.5	96.0	7.6	28.3	4.1	4.1	YES	4.4		13.5	13.7	
506	WFCZR1	M	MID-EBB	23-Oct-06			27.6	5.80	5.67	YES			93.6	88.3	7.6	28.8	4.7	4.5	YES			15.0		
507	WFCZR1	B	MID-EBB	23-Oct-06			27.0	5.53	5.42	YES	5.48		85.0	82.5	7.6	29.5	4.4	4.5	YES			12.5		
508	WFCZR2	S	MID-EBB	23-Oct-06	14:53	41.60	27.5	5.97	5.90	YES	5.86		93.6	90.2	7.8	28.6	4.1	4.1	YES	4.1		9.0	10.2	
509	WFCZR2	M	MID-EBB	23-Oct-06			27.7	5.81	5.74	YES			87.8	85.1	7.8	28.8	4.0	3.9	YES			12.5		
510	WFCZR2	B	MID-EBB	23-Oct-06			27.5	5.55	5.41	YES	5.48		85.0	81.5	7.8	28.9	4.5	4.3	YES			9.0		
511	WWA1	S	MID-FLOOD	23-Oct-06	9:54	7.90	27.3	5.91	5.79	YES	5.75	Comply	94.2	89.6	8.3	30.0	5.8	5.8	YES	6.3	Comply	8.5	11.2	Comply
512	WWA1	M	MID-FLOOD	23-Oct-06			27.2	5.70	5.59	YES			87.8	85.2	8.3	30.1	6.5	7.1	YES			13.0		
513	WWA1	B	MID-FLOOD	23-Oct-06			27.2	5.48	5.40	YES	5.44	Comply	83.4	80.8	8.3	30.1	6.2	6.1	YES			12.0		
514	WWA2	S	MID-FLOOD	23-Oct-06	9:42	8.70	27.4	5.99	5.90	YES	5.85	Comply	96.7	90.9	8.3	30.1	6.4	6.1	YES	5.9	Comply	13.0	16.8	Comply
515	WWA2	M	MID-FLOOD	23-Oct-06			27.4	5.81	5.70	YES			86.7	84.6	8.3	30.1	5.2	5.5	YES			17.0		
516	WWA2	B	MID-FLOOD	23-Oct-06			27.3	5.58	5.42	YES	5.50	Comply	85.2	82.6	8.2	30.2	6.1	6.3	YES			20.5		
517	WWA3	S	MID-FLOOD	23-Oct-06	9:30	7.50	27.6	5.96	5.90	YES	5.86	Comply	91.9	89.4	8.3	29.8	6.2	6.1	YES	6.5	Comply	14.5	14.5	Comply
518	WWA3	M	MID-FLOOD	23-Oct-06			27.5	5.82	5.77	YES			86.0	84.8	8.3	30.2	7.2	7.1	YES			13.0		
519	WWA3	B	MID-FLOOD	23-Oct-06			27.4	5.61	5.43	YES	5.52	Comply	83.6	81.2	8.3	30.2	6.2	6.2	YES			16.0		
520	WRA1	S	MID-FLOOD	23-Oct-06	10:09	32.80	27.3	5.93	5.82	YES	5.78		94.0	89.6	8.3	30.0	4.8	4.9	YES	4.9		8.0	10.0	
521	WRA1	M	MID-FLOOD	23-Oct-06			27.3	5.76	5.62	YES			87.4	85.6	8.3	28.1	4.8	4.6	YES			12.5		
522	WRA1	B	MID-FLOOD	23-Oct-06			27.3	5.54	5.41	YES	5.48		83.8	81.5	8.3	30.0	5.1	5.1	YES			9.5		
523	WRA2	S	MID-FLOOD	23-Oct-06	10:24	27.50	27.3	5.98	5.91	YES	5.87		96.7	92.0	8.3	30.2	4.2	4.2	YES	4.1		17.0	12.7	
524	WRA2	M	MID-FLOOD	23-Oct-06			27.3	5.85	5.74	YES			88.5	86.2	8.3	30.2	3.9	3.8	YES			10.5		
525	WRA2	B	MID-FLOOD	23-Oct-06			27.3	5.62	5.46	YES	5.54		85.4	82.6	8.3	30.2	4.2	4.5	YES			10.5		
526	WRA3	S	MID-FLOOD	23-Oct-06	10:37	27.30	27.3	5.92	5.80	YES	5.71		90.9	88.3	8.3	30.1	4.2	4.2	YES	5.0		10.0	12.5	
527	WRA3	M	MID-FLOOD	23-Oct-06			27.2	5.60	5.51	YES			86.6	85.2	8.3	30.3	5.1	5.1	YES			17.0		
528	WRA3	B	MID-FLOOD	23-Oct-06			27.2	5.56	5.41	YES	5.49		83.6	81.9	8.3	30.3	5.4	5.8	YES			10.5		
529	WWFCZ1	S	MID-FLOOD	23-Oct-06	11:19	36.40	27.4	5.96	5.91	YES	5.85	Comply	96.2	91.6	8.2	29.2	4.1	4.2	YES	4.3	Comply	9.0	11.0	Comply
530	WWFCZ1	M	MID-FLOOD	23-Oct-06			27.3	5.80	5.72	YES			88.7	85.9	8.2	29.7	4.3	4.2	YES			11.5		
531	WWFCZ1	B	MID-FLOOD	23-Oct-06			27.3	5.53	5.41	YES	5.47	Comply	84.3	81.6	8.2	29.8	4.4	4.5	YES			12.5		
532	WWFCZ2	S	MID-FLOOD	23-Oct-06	11:05	35.30	27.5	5.94	5.86	YES	5.82	Comply	92.8	88.6	8.1	29.0	3.7	3.7	YES	4.9	Comply	14.0	14.2	Comply
533	WWFCZ2	M	MID-FLOOD	23-Oct-06			27.3	5.80	5.66	YES			87.0	86.3	8.1	29.6	5.2	5.1	YES			13.5		
534	WWFCZ2	B	MID-FLOOD	23-Oct-06			27.3	5.61	5.46	YES	5.54		84.0	82.0	8.1	29.3	5.9	5.9	YES			15.0		
535	WFCZR1	S	MID-FLOOD	23-Oct-06	11:38	41.60	27.5	5.91	5.82	YES	5.78		95.4	89.6	8.2	29.6	4.1	4.3	YES	4.3		16.0	12.2	
536	WFCZR1	M	MID-FLOOD	23-Oct-06			27.3	5.76	5.62	YES			87.3	84.9	8.2	28.7	4.2	4.3	YES			9.5		
537	WFCZR1	B	MID-FLOOD	23-Oct-06			27.3	5.54	5.41	YES	5.48		83.7	80.6	8.2	30.3	4.5	4.5	YES			11.0		
538	WFCZR2	S	MID-FLOOD	23-Oct-06	10:49	41.90	27.4	5.92	5.79	YES	5.74		97.4	90.5	8.1	29.4	4.1	4.3	YES	4.4		14.0	16.5	
539	WFCZR2	M	MID-FLOOD	23-Oct-06			26.0	5.70	5.56	YES			87.7	85.2	8.1	29.9	4.2	4.4	YES			16.0		
540	WFCZR2	B	MID-FLOOD	23-Oct-06			27.3	5.51	5.40	YES	5.46		83.9	80.6	8.1	31.2	4.5	4.6	YES			19.5		
541	WWA1	S	MID-EBB	25-Oct-06	15:40	7.50	27.3	5.88	5.76	YES	5.77	Comply	92.1	89.7	8.1	31.2	4.5	4.4	YES	6.4	Comply	10.5	12.7	Comply
542	WWA1	M	MID-EBB	25-Oct-06			27.1	5.73	5.70	YES			88.3	87.2	8.1	30.8	7.1	6.8	YES			13.0		
543	WWA1	B	MID-EBB	25-Oct-06			26.8	5.64	5.53	YES	5.59	Comply	84.9	83.1	8.1	31.7	7.7	7.7	YES			14.5		
544	WWA2	S	MID-EBB	25-Oct-06	15:53	8.30	27.4	5.82	5.77	YES	5.79	Comply	91.3	90.7	8.1	31.5	5.6	5.6	YES	5.6	Comply	9.5	11.5	Comply
545	WWA2	M	MID-EBB	25-Oct-06			27.1	5.83	5.74	YES			85.7	84.2	8.1	31.3	6.5	6.4	YES			13.5		
546	WWA2	B	MID-EBB	25-Oct-06			26.9	5.61	5.58	YES	5.60	Comply	85.9	84.2	8.1	30.9	4.9	4.7	YES			11.5		
547	WWA3	S	MID-EBB	25-Oct-06	16:07	6.90	27.4	5.82	5.73	YES	5.68	Comply	87.3	86.4	8.1	31.7	4.2	4.2	YES	4.4	Comply	8.5	9.0	Comply
548	WWA3	M	MID-EBB	25-Oct-06			27.2	5.65	5.51	YES			86.5	86.3	8.1	31.6	3.8	3.7	YES			10.0		
549	WWA3	B	MID-EBB	25-Oct-06			26.8	5.49	5.41	YES	5.45	Comply	85.3	84.9	8.1	31.3	5.2	5.2	YES			8.5		
550	WRA1	S	MID-EBB	25-Oct-06	15:26	32.20	27.2	5.83	5.72	YES	5.76		87.2	86.3	8.1	31.9	5.4	5.4	YES	6.4		11.5	11.7	
551	WRA1	M	MID-EBB	25-Oct-06			27.1	5.84	5.63	YES			85.4	83.2	8.1	30.8	8.1	7.3	YES			11.0		
552	WRA1	B	MID-EBB	25-Oct-06			27.1	5.69	5.58	YES	5.64		82.1	81.5	8.1	30.6	6.1	6.2	YES			12.5		

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
553	WRA2	S	MID-EBB	25-Oct-06	15:12	26.50	27.2	5.86	5.81	YES	5.82		92.3	91.6	8.1	30.9	5.5	5.4	YES	5.8		11.5	10.9	
554	WRA2	M	MID-EBB	25-Oct-06			27.1	5.89	5.72	YES			88.4	86.2	8.1	31.3	5.7	5.6	YES			11.0		
555	WRA2	B	MID-EBB	25-Oct-06			26.9	5.62	5.57	YES	5.60		85.7	83.2	8.1	30.9	6.2	6.2	YES			10.0		
556	WRA3	S	MID-EBB	25-Oct-06	15:00	26.20	27.3	5.81	5.79	YES	5.79		92.3	90.6	8.1	31.6	6.8	6.3	YES	5.6		19.5	13.7	
557	WRA3	M	MID-EBB	25-Oct-06			27.1	5.88	5.69	YES			89.4	87.2	8.1	31.2	5.9	6.1	YES			11.5		
558	WRA3	B	MID-EBB	25-Oct-06			26.9	5.82	5.72	YES	5.77		85.8	84.7	8.1	31.6	4.3	4.3	YES			10.0		
559	WWFCZ1	S	MID-EBB	25-Oct-06	14:13	35.70	27.2	5.83	5.72	YES	5.75	Comply	89.5	87.4	8.1	31.2	5.1	5.1	YES	6.3	Comply	10.0	12.5	Comply
560	WWFCZ1	M	MID-EBB	25-Oct-06			27.1	5.77	5.68	YES			85.3	83.7	8.1	30.9	6.8	6.5	YES			14.0		
561	WWFCZ1	B	MID-EBB	25-Oct-06			26.9	5.54	5.39	YES	5.47	Comply	84.9	83.3	8.1	30.7	7.1	7.1	YES			13.5		
562	WWFCZ2	S	MID-EBB	25-Oct-06	14:27	34.20	27.2	5.86	5.71	YES	5.84	Comply	89.5	88.3	8.1	31.3	5.5	5.2	YES	6.0	Comply	14.5	13.0	Comply
563	WWFCZ2	M	MID-EBB	25-Oct-06			27.1	5.89	5.88	YES			89.2	88.7	8.1	30.4	5.7	5.6	YES			12.0		
564	WWFCZ2	B	MID-EBB	25-Oct-06			26.8	5.75	5.62	YES	5.69	Comply	84.6	83.1	8.1	30.9	7.2	6.8	YES			12.5		
565	WFCZR1	S	MID-EBB	25-Oct-06	14:00	40.30	27.2	5.87	5.81	YES	5.81		90.2	88.7	8.1	30.5	5.1	5.1	YES	5.9		25.0	16.0	
566	WFCZR1	M	MID-EBB	25-Oct-06			27.1	5.85	5.72	YES			87.9	86.5	8.1	30.4	6.5	6.2	YES			11.0		
567	WFCZR1	B	MID-EBB	25-Oct-06			26.9	5.62	5.61	YES	5.62		85.4	84.3	8.1	31.2	6.3	6.2	YES			12.0		
568	WFCZR2	S	MID-EBB	25-Oct-06	14:46	41.10	27.3	5.89	5.73	YES	5.73		92.1	90.3	8.1	31.2	5.1	5.4	YES	6.1		10.5	12.0	
569	WFCZR2	M	MID-EBB	25-Oct-06			26.9	5.69	5.62	YES			89.7	88.6	8.1	30.8	6.6	6.4	YES			12.0		
570	WFCZR2	B	MID-EBB	25-Oct-06			26.8	5.63	5.61	YES	5.62		85.7	84.8	8.1	30.7	6.7	6.3	YES			13.5		
571	WWA1	S	MID-FLOOD	25-Oct-06	9:28	7.90	26.2	5.96	5.87	YES	5.78	Comply	94.1	89.4	8.1	30.9	4.6	4.6	YES	5.8	Comply	9.0	11.3	Comply
572	WWA1	M	MID-FLOOD	25-Oct-06			25.7	5.70	5.58	YES			87.0	84.3	8.1	30.2	6.2	6.2	YES			10.5		
573	WWA1	B	MID-FLOOD	25-Oct-06			25.4	5.52	5.41	YES	5.47	Comply	82.9	80.1	8.1	32.0	6.5	6.4	YES			14.5		
574	WWA2	S	MID-FLOOD	25-Oct-06	9:13	8.70	26.7	5.96	5.91	YES	5.85	Comply	90.7	87.6	8.1	31.9	5.3	5.3	YES	5.4	Comply	6.5	11.5	Comply
575	WWA2	M	MID-FLOOD	25-Oct-06			26.6	5.81	5.70	YES			84.9	83.9	8.1	30.6	6.2	5.9	YES			11.5		
576	WWA2	B	MID-FLOOD	25-Oct-06			26.2	5.52	5.41	YES	5.47	Comply	83.3	81.0	8.1	32.3	4.9	4.8	YES			16.5		
577	WWA3	S	MID-FLOOD	25-Oct-06	9:00	7.30	26.3	5.90	5.77	YES	5.70	Comply	89.4	86.1	8.1	31.6	4.2	4.2	YES	4.4	Comply	8.0	13.8	Comply
578	WWA3	M	MID-FLOOD	25-Oct-06			26.1	5.60	5.51	YES			86.7	84.8	8.1	32.0	3.9	3.8	YES			15.0		
579	WWA3	B	MID-FLOOD	25-Oct-06			26.0	5.54	5.42	YES	5.48	Comply	83.0	80.4	8.1	31.9	5.1	5.2	YES			18.5		
580	WRA1	S	MID-FLOOD	25-Oct-06	9:48	33.50	26.0	5.94	5.82	YES	5.78		96.7	91.8	8.0	31.7	5.2	5.1	YES	5.9		11.0	13.2	
581	WRA1	M	MID-FLOOD	25-Oct-06			25.6	5.75	5.61	YES			86.2	84.0	8.0	30.6	6.5	6.3	YES			12.5		
582	WRA1	B	MID-FLOOD	25-Oct-06			25.4	5.54	5.41	YES	5.48		83.2	82.0	8.0	31.5	6.1	6.1	YES			16.0		
583	WRA2	S	MID-FLOOD	25-Oct-06	9:59	27.30	26.2	5.86	5.91	YES	5.83		93.4	90.0	8.1	30.4	5.6	5.5	YES	5.8		18.0	15.7	
584	WRA2	M	MID-FLOOD	25-Oct-06			25.9	5.84	5.71	YES			87.1	84.5	8.1	31.1	5.7	5.5	YES			12.5		
585	WRA2	B	MID-FLOOD	25-Oct-06			25.7	5.57	5.44	YES	5.51		85.1	82.9	8.1	30.6	6.2	6.2	YES			16.5		
586	WRA3	S	MID-FLOOD	25-Oct-06	10:13	27.10	25.9	5.72	5.64	YES	5.58		96.4	93.0	8.1	32.6	6.3	6.3	YES	5.7		7.0	10.8	
587	WRA3	M	MID-FLOOD	25-Oct-06			25.3	5.54	5.43	YES			96.4	84.8	8.1	31.6	5.9	5.9	YES			13.5		
588	WRA3	B	MID-FLOOD	25-Oct-06			25.1	5.48	5.47	YES	5.48		83.6	82.0	8.1	32.2	4.8	4.7	YES			12.0		
589	WWFCZ1	S	MID-FLOOD	25-Oct-06	10:59	36.50	25.2	5.90	5.84	YES	5.78	Comply	90.9	88.2	8.2	31.3	5.2	5.2	YES	5.9	Comply	13.0	20.5	Exceed Action Level
590	WWFCZ1	M	MID-FLOOD	25-Oct-06			24.9	5.76	5.62	YES			86.0	84.5	8.2	32.0	6.2	6.2	YES			21.0		
591	WWFCZ1	B	MID-FLOOD	25-Oct-06			25.0	5.57	5.43	YES	5.50	Comply	85.1	83.2	8.2	32.0	6.4	6.4	YES			27.5		
592	WWFCZ2	S	MID-FLOOD	25-Oct-06	10:43	35.20	25.9	5.96	5.92	YES	5.86	Comply	91.1	89.3	8.1	32.9	5.4	5.3	YES	5.7	Comply	11.0	18.3	Exceed Action Level
593	WWFCZ2	M	MID-FLOOD	25-Oct-06			25.3	5.85	5.72	YES			87.0	85.3	8.1	31.4	5.6	5.5	YES			17.0		
594	WWFCZ2	B	MID-FLOOD	25-Oct-06			25.2	5.61	5.46	YES	5.54	Comply	83.0	81.3	8.1	31.2	6.2	6.1	YES			27.0		
595	WFCZR1	S	MID-FLOOD	25-Oct-06	11:16	41.20	26.8	5.93	5.89	YES	5.83		95.6	92.9	8.2	30.6	5.2	5.2	YES	5.8		13.0	18.3	
596	WFCZR1	M	MID-FLOOD	25-Oct-06			25.0	5.80	5.68	YES			86.6	84.9	8.2	32.2	6.2	6.2	YES			20.0		
597	WFCZR1	B	MID-FLOOD	25-Oct-06			25.1	5.50	5.41	YES	5.46		83.6	82.2	8.2	32.1	6.2	6.1	YES			22.0		
598	WFCZR2	S	MID-FLOOD	25-Oct-06	10:28	42.90	25.4	5.97	5.90	YES	5.82		94.6	91.0	8.1	31.9	5.2	5.2	YES	5.9		25.0	23.0	
599	WFCZR2	M	MID-FLOOD	25-Oct-06			25.4	5.77	5.64	YES			88.2	85.7	8.1	31.6	6.2	6.1	YES			20.5		
600	WFCZR2	B	MID-FLOOD	25-Oct-06			25.1	5.50	5.41	YES	5.46		83.9	81.0	8.1	32.2	6.3	6.3	YES			23.5		

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
601	WWA1	S	MID-EBB	27-Oct-06	16:40	7.60	27.5	5.91	5.84	YES			93.7	90.6	7.4	31.0	3.5	3.1	YES			5.5		
602	WWA1	M	MID-EBB	27-Oct-06			27.4	5.80	5.66	YES	5.80	Comply	87.5	86.3	7.4	31.2	4.3	4.2	YES			8.0		
603	WWA1	B	MID-EBB	27-Oct-06			27.1	5.56	5.40	YES	5.48	Comply	83.1	80.8	7.4	31.3	4.1	4.4	YES	3.9	Comply	9.5	7.7	Comply
604	WWA2	S	MID-EBB	27-Oct-06	16:52	8.50	27.4	5.94	5.86	YES			90.9	89.1	7.4	31.3	5.0	4.8	YES			5.0		
605	WWA2	M	MID-EBB	27-Oct-06			27.4	5.79	5.64	YES	5.81	Comply	87.0	85.7	7.4	31.2	4.2	4.3	YES			5.0		
606	WWA2	B	MID-EBB	27-Oct-06			27.3	5.52	5.46	YES	5.49	Comply	84.2	81.3	7.4	31.2	5.2	5.1	YES	4.7	Comply	5.0	5.0	Comply
607	WWA3	S	MID-EBB	27-Oct-06	17:05	7.30	27.4	5.95	5.82	YES			93.3	89.0	7.3	31.3	4.4	4.7	YES			5.5		
608	WWA3	M	MID-EBB	27-Oct-06			27.3	5.73	5.60	YES	5.78	Comply	87.4	85.1	7.3	31.3	4.2	4.2	YES			8.0		
609	WWA3	B	MID-EBB	27-Oct-06			27.3	5.54	5.40	YES	5.47	Comply	84.6	81.9	7.3	31.3	4.2	4.4	YES	4.3	Comply	10.0	7.8	Comply
610	WRA1	S	MID-EBB	27-Oct-06	16:25	33.50	27.6	5.99	5.89	YES			91.4	89.0	7.4	30.7	5.1	5.2	YES			7.0		
611	WRA1	M	MID-EBB	27-Oct-06			27.5	5.80	5.72	YES	5.85		86.7	85.3	7.5	31.3	5.1	5.1	YES			10.5		
612	WRA1	B	MID-EBB	27-Oct-06			27.6	5.61	5.44	YES	5.53		82.8	80.2	7.4	31.3	7.0	6.8	YES	5.7		8.5	8.7	
613	WRA2	S	MID-EBB	27-Oct-06	16:09	27.10	27.5	5.99	5.93	YES			95.1	89.6	7.4	31.2	4.6	4.7	YES			9.5		
614	WRA2	M	MID-EBB	27-Oct-06			27.5	5.81	5.67	YES	5.85		89.4	85.0	7.4	31.2	5.9	5.6	YES			9.5		
615	WRA2	B	MID-EBB	27-Oct-06			27.5	5.56	5.43	YES	5.50		83.3	80.7	7.4	31.2	5.2	5.2	YES	5.2		6.5	8.5	
616	WRA3	S	MID-EBB	27-Oct-06	15:59	26.90	27.4	5.96	5.89	YES			92.9	88.7	7.5	31.2	6.6	6.3	YES			5.5		
617	WRA3	M	MID-EBB	27-Oct-06			27.5	5.74	5.62	YES	5.80		86.6	84.5	7.5	31.8	5.4	5.4	YES			10.0		
618	WRA3	B	MID-EBB	27-Oct-06			27.5	5.59	5.43	YES	5.51		84.0	80.6	7.5	31.1	6.5	6.3	YES	6.1		11.0	8.8	
619	WWFCZ1	S	MID-EBB	27-Oct-06	15:14	36.30	27.5	6.04	5.92	YES			98.7	90.9	7.4	31.0	4.7	4.4	YES			6.0		
620	WWFCZ1	M	MID-EBB	27-Oct-06			27.4	5.82	5.70	YES	5.87	Comply	86.5	85.1	7.4	31.3	5.5	5.2	YES			14.0		
621	WWFCZ1	B	MID-EBB	27-Oct-06			26.0	5.54	5.44	YES	5.49	Comply	83.0	80.3	7.4	31.8	7.5	7.4	YES	5.8	Comply	12.0	10.7	Comply
622	WWFCZ2	S	MID-EBB	27-Oct-06	15:27	35.30	27.5	5.92	5.85	YES			96.6	89.2	7.4	31.1	6.7	6.4	YES			6.5		
623	WWFCZ2	M	MID-EBB	27-Oct-06			27.5	5.72	5.59	YES	5.77	Comply	85.5	84.8	7.4	31.4	7.1	6.4	YES			9.5		
624	WWFCZ2	B	MID-EBB	27-Oct-06			27.3	5.49	5.40	YES	5.45	Comply	84.3	81.6	7.4	31.5	6.9	6.3	YES	6.6	Exceed Action Level	10.0	8.7	Comply
625	WFCZR1	S	MID-EBB	27-Oct-06	15:00	40.80	27.7	5.98	5.90	YES			97.7	94.0	7.4	27.7	4.2	4.3	YES			8.0		
626	WFCZR1	M	MID-EBB	27-Oct-06			27.5	5.85	5.67	YES	5.85		90.2	88.2	7.4	31.1	5.5	5.3	YES			10.0		
627	WFCZR1	B	MID-EBB	27-Oct-06			27.4	5.54	5.40	YES	5.47		84.9	82.3	7.4	31.9	8.6	8.0	YES	6.0		9.5	9.2	
628	WFCZR2	S	MID-EBB	27-Oct-06	15:44	41.70	27.5	5.91	5.80	YES			94.6	89.2	7.4	30.2	5.1	5.0	YES			7.0		
629	WFCZR2	M	MID-EBB	27-Oct-06			27.3	5.69	5.52	YES	5.73		96.8	85.0	7.4	31.1	6.0	6.1	YES			8.5		
630	WFCZR2	B	MID-EBB	27-Oct-06			27.4	5.56	5.46	YES	5.51		83.5	81.3	7.3	31.5	8.8	8.6	YES	6.6		8.0	7.8	
631	WWA1	S	MID-FLOOD	27-Oct-06	11:43	7.90	27.3	5.94	5.85	YES			97.0	88.7	8.3	26.1	3.4	3.2	YES			9.5		
632	WWA1	M	MID-FLOOD	27-Oct-06			26.8	5.81	5.66	YES	5.82	Comply	89.4	87.1	8.3	31.0	4.2	4.3	YES			12.0		
633	WWA1	B	MID-FLOOD	27-Oct-06			27.5	5.54	5.40	YES	5.47	Comply	83.9	80.3	8.3	30.5	4.4	4.2	YES	3.9	Comply	9.0	10.2	Comply
634	WWA2	S	MID-FLOOD	27-Oct-06	11:59	8.70	27.3	5.90	5.79	YES			93.7	90.6	8.3	30.8	5.0	5.1	YES			6.5		
635	WWA2	M	MID-FLOOD	27-Oct-06			27.3	5.67	5.54	YES	5.73	Comply	87.5	85.7	8.3	30.9	4.2	4.5	YES			10.5		
636	WWA2	B	MID-FLOOD	27-Oct-06			27.3	5.46	5.40	YES	5.43	Comply	84.2	81.6	8.3	31.0	5.0	5.2	YES	4.8	Comply	10.0	9.0	Comply
637	WWA3	S	MID-FLOOD	27-Oct-06	12:13	7.60	27.6	5.94	5.85	YES			89.7	87.9	8.3	30.9	4.5	4.3	YES			6.5		
638	WWA3	M	MID-FLOOD	27-Oct-06			27.3	5.74	5.60	YES	5.78	Comply	85.8	83.7	8.3	30.6	4.3	4.1	YES			12.5		
639	WWA3	B	MID-FLOOD	27-Oct-06			27.2	5.51	5.39	YES	5.45	Comply	84.1	81.2	8.3	30.9	4.6	4.4	YES	4.4	Comply	15.0	11.3	Comply
640	WRA1	S	MID-FLOOD	27-Oct-06	11:27	33.90	27.3	5.97	5.87	YES			93.0	89.2	8.3	30.2	5.2	5.2	YES			11.0		
641	WRA1	M	MID-FLOOD	27-Oct-06			27.3	5.82	5.66	YES	5.83		87.3	84.9	8.3	30.9	5.2	5.5	YES			12.0		
642	WRA1	B	MID-FLOOD	27-Oct-06			27.1	5.46	5.37	YES	5.42		83.0	80.0	8.3	30.9	5.9	5.8	YES	5.5		9.5	10.8	
643	WRA2	S	MID-FLOOD	27-Oct-06	11:14	28.20	27.5	5.95	5.83	YES			96.7	91.6	8.3	30.8	4.7	4.3	YES			6.5		
644	WRA2	M	MID-FLOOD	27-Oct-06			27.3	5.76	5.60	YES	5.79		87.4	85.2	8.3	31.0	5.0	5.2	YES			9.0		
645	WRA2	B	MID-FLOOD	27-Oct-06			27.0	5.54	5.46	YES	5.50		82.6	80.4	8.3	31.0	5.0	4.6	YES	4.8		8.5	8.0	
646	WRA3	S	MID-FLOOD	27-Oct-06	10:59	27.50	27.4	5.93	5.82	YES			93.7	90.0	8.3	31.0	6.2	6.0	YES			8.0		
647	WRA3	M	MID-FLOOD	27-Oct-06			27.3	5.76	5.65	YES	5.79		84.2	83.0	8.3	31.0	5.5	5.2	YES			8.5		
648	WRA3	B	MID-FLOOD	27-Oct-06			27.3	5.50	5.36	YES	5.43		83.2	80.1	8.3	31.0	6.2	6.4	YES	5.9		10.0	8.8	
649	WWFCZ1	S	MID-FLOOD	27-Oct-06	10:13	37.20	27.4	5.99	5.90	YES			96.4	90.7	8.3	29.5	4.7	4.7	YES			11.0		
650	WWFCZ1	M	MID-FLOOD	27-Oct-06			27.3	5.74	5.58	YES	5.80	Comply	87.5	84.9	8.3	29.5	4.8	4.5	YES			13.0		
651	WWFCZ1	B	MID-FLOOD	27-Oct-06			27.4	5.52	5.41	YES	5.47	Comply	83.2	81.0	8.3	30.7	6.3	6.3	YES	5.2	Comply	15.5	13.2	Comply

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
652	WWFCZ2	S	MID-FLOOD	27-Oct-06	10:27	36.10	27.4	5.96	5.90	YES			91.0	87.2	8.3	30.5	6.2	6.3	YES			12.0		
653	WWFCZ2	M	MID-FLOOD	27-Oct-06			27.3	5.81	5.68	YES	5.84	Comply	85.9	83.5	8.3	30.7	7.0	6.5	YES			19.5		
654	WWFCZ2	B	MID-FLOOD	27-Oct-06			27.1	5.56	5.44	YES	5.50	Comply	84.4	82.0	8.3	30.8	6.3	6.3	YES	6.4	Comply	18.0	16.5	Comply
655	WFCZR1	S	MID-FLOOD	27-Oct-06	10:00	41.50	27.2	6.03	5.83	YES			92.3	88.7	8.3	29.2	4.2	4.4	YES			13.0		
656	WFCZR1	M	MID-FLOOD	27-Oct-06			27.3	5.80	5.61	YES	5.82		87.4	86.0	8.3	30.8	5.6	5.4	YES			14.5		
657	WFCZR1	B	MID-FLOOD	27-Oct-06			27.2	5.54	5.42	YES	5.48		84.0	82.7	8.3	31.1	6.2	6.2	YES	5.3		17.5	15.0	
658	WFCZR2	S	MID-FLOOD	27-Oct-06	10:43	42.30	27.3	5.97	5.90	YES			98.6	91.6	8.3	30.8	5.3	5.4	YES			7.5		
659	WFCZR2	M	MID-FLOOD	27-Oct-06			27.3	5.84	5.70	YES	5.85		87.2	85.8	8.3	31.0	5.8	5.6	YES			14.0		
660	WFCZR2	B	MID-FLOOD	27-Oct-06			27.4	5.62	5.49	YES	5.56		83.3	80.5	8.3	28.3	7.2	6.9	YES	6.0		18.0	13.2	
661	WWA1	S	MID-EBB	31-Oct-06	11:44	7.20	26.9	5.96	5.92	YES			98.2	91.9	8.5	31.6	4.9	4.5	YES			7.0		
662	WWA1	M	MID-EBB	31-Oct-06			26.8	5.86	5.74	YES	5.87	Comply	88.2	87.0	8.5	32.0	3.5	3.4	YES			10.0		
663	WWA1	B	MID-EBB	31-Oct-06			26.7	5.54	5.46	YES	5.50	Comply	84.9	82.4	8.5	32.1	4.0	4.2	YES	4.1	Comply	8.5	8.5	Comply
664	WWA2	S	MID-EBB	31-Oct-06	11:57	8.10	26.6	5.93	5.84	YES			93.6	89.0	8.5	31.9	3.3	3.5	YES			6.0		
665	WWA2	M	MID-EBB	31-Oct-06			26.8	5.77	5.60	YES	5.79	Comply	87.4	86.2	8.5	31.8	4.2	4.2	YES			7.0		
666	WWA2	B	MID-EBB	31-Oct-06			26.8	5.56	5.44	YES	5.50	Comply	84.0	81.3	8.5	32.3	2.9	2.9	YES	3.5	Comply	10.0	7.7	Comply
667	WWA3	S	MID-EBB	31-Oct-06	12:15	6.80	26.9	5.96	5.90	YES			95.9	89.2	8.5	31.9	2.9	2.8	YES			5.5		
668	WWA3	M	MID-EBB	31-Oct-06			26.8	5.82	5.73	YES	5.85	Comply	86.7	84.9	8.5	31.7	3.6	3.6	YES			9.0		
669	WWA3	B	MID-EBB	31-Oct-06			26.8	5.50	5.40	YES	5.45	Comply	84.0	81.3	8.5	31.0	2.3	2.5	YES	2.9	Comply	7.0	7.2	Comply
670	WRA1	S	MID-EBB	31-Oct-06	11:29	32.50	26.7	5.96	5.91	YES			96.2	93.4	8.5	31.5	2.9	2.8	YES			9.5		
671	WRA1	M	MID-EBB	31-Oct-06			26.9	5.84	5.71	YES	5.86		89.7	86.0	8.5	32.2	3.2	3.2	YES			8.5		
672	WRA1	B	MID-EBB	31-Oct-06			27.1	5.54	5.42	YES	5.48		84.2	82.0	8.2	32.0	3.1	3.1	YES	3.0		9.0	9.0	
673	WRA2	S	MID-EBB	31-Oct-06	11:14	26.30	26.9	5.89	5.81	YES			95.4	90.2	8.5	31.7	1.9	1.7	YES			5.0		
674	WRA2	M	MID-EBB	31-Oct-06			26.9	5.74	5.63	YES	5.77		86.8	84.9	8.5	32.2	3.1	3.1	YES			8.0		
675	WRA2	B	MID-EBB	31-Oct-06			26.8	5.57	5.48	YES	5.53		84.0	81.6	8.5	31.4	5.5	5.4	YES	3.5		13.0	8.7	
676	WRA3	S	MID-EBB	31-Oct-06	11:02	25.70	27.2	5.97	5.90	YES			96.0	90.6	8.5	32.0	2.7	2.7	YES			5.5		
677	WRA3	M	MID-EBB	31-Oct-06			27.1	5.87	5.71	YES	5.86		87.4	85.9	8.5	31.9	4.7	4.6	YES			5.0		
678	WRA3	B	MID-EBB	31-Oct-06			27.1	5.53	5.44	YES	5.49		84.0	82.9	8.5	32.3	6.2	6.2	YES	4.5		8.5	6.3	
679	WWFCZ1	S	MID-EBB	31-Oct-06	10:05	34.60	26.8	5.92	5.86	YES			94.9	89.9	8.4	31.6	2.8	2.9	YES			5.0		
680	WWFCZ1	M	MID-EBB	31-Oct-06			26.4	5.80	5.72	YES	5.83	Comply	86.8	85.0	8.4	31.5	3.4	3.3	YES			5.5		
681	WWFCZ1	B	MID-EBB	31-Oct-06			26.8	5.61	5.43	YES	5.52	Comply	85.3	83.0	8.4	32.1	4.7	4.6	YES	3.6	Comply	5.5	5.3	Comply
682	WWFCZ2	S	MID-EBB	31-Oct-06	10:29	33.70	26.4	5.97	5.92	YES			94.7	90.2	8.5	31.7	3.1	3.3	YES			5.0		
683	WWFCZ2	M	MID-EBB	31-Oct-06			26.7	5.72	5.58	YES	5.80	Comply	86.7	84.3	8.4	32.0	4.8	4.6	YES			10.5		
684	WWFCZ2	B	MID-EBB	31-Oct-06			26.9	5.52	5.40	YES	5.46	Comply	85.0	82.8	8.5	32.2	6.4	6.2	YES	4.7	Comply	12.5	9.3	Comply
685	WFCZR1	S	MID-EBB	31-Oct-06	9:50	38.60	26.7	5.91	5.84	YES			99.8	94.3	8.5	31.6	4.4	4.5	YES			5.5		
686	WFCZR1	M	MID-EBB	31-Oct-06			26.8	5.79	5.67	YES	5.80		89.4	87.2	8.5	31.8	4.1	4.2	YES			5.5		
687	WFCZR1	B	MID-EBB	31-Oct-06			26.6	5.60	5.51	YES	5.56		85.0	83.7	8.4	32.2	4.5	4.6	YES	4.4		7.5	6.2	
688	WFCZR2	S	MID-EBB	31-Oct-06	10:45	39.30	26.8	5.94	5.83	YES			97.2	91.6	8.4	31.6	4.1	4.2	YES			8.0		
689	WFCZR2	M	MID-EBB	31-Oct-06			26.6	5.80	5.64	YES	5.80		87.5	86.0	8.4	32.1	2.9	2.7	YES			5.0		
690	WFCZR2	B	MID-EBB	31-Oct-06			26.7	5.52	5.44	YES	5.48		84.6	83.4	8.4	32.1	6.5	6.4	YES	4.5		10.5	7.8	
691	WWA1	S	MID-FLOOD	31-Oct-06	17:33	7.50	26.9	5.97	5.90	YES			96.6	90.4	8.3	32.1	5.1	5.2	YES			11.0		
692	WWA1	M	MID-FLOOD	31-Oct-06			26.8	5.78	5.67	YES	5.83	Comply	87.7	85.4	8.3	32.2	3.8	3.8	YES			12.0		
693	WWA1	B	MID-FLOOD	31-Oct-06			26.6	5.60	5.47	YES	5.54	Comply	83.9	81.9	8.3	32.2	4.3	4.4	YES	4.4	Comply	15.5	12.8	Comply
694	WWA2	S	MID-FLOOD	31-Oct-06	17:43	8.40	26.9	5.94	5.89	YES			92.8	89.4	8.4	32.0	3.5	3.6	YES			7.0		
695	WWA2	M	MID-FLOOD	31-Oct-06			26.6	5.80	5.67	YES	5.83	Comply	87.6	86.0	8.4	32.5	4.6	4.6	YES			10.5		
696	WWA2	B	MID-FLOOD	31-Oct-06			26.6	5.56	5.43	YES	5.50	Comply	85.4	83.1	8.4	32.4	3.2	3.2	YES	3.8	Comply	9.5	9.0	Comply
697	WWA3	S	MID-FLOOD	31-Oct-06	17:55	7.10	26.7	5.96	5.90	YES			91.0	87.3	8.4	32.5	3.1	3.1	YES			12.5		
698	WWA3	M	MID-FLOOD	31-Oct-06			26.7	5.81	5.69	YES	5.84	Comply	88.4	86.9	8.4	32.3	3.7	3.7	YES			10.0		
699	WWA3	B	MID-FLOOD	31-Oct-06			26.7	5.64	5.50	YES	5.57	Comply	84.7	83.0	8.4	32.2	2.5	2.6	YES	3.1	Comply	7.5	10.0	Comply
700	WRA1	S	MID-FLOOD	31-Oct-06	17:25	33.40	27.0	5.97	5.90	YES			97.8	92.0	8.4	32.3	3.2	3.2	YES			10.0		
701	WRA1	M	MID-FLOOD	31-Oct-06			27.1	5.77	5.66	YES	5.83		89.1	87.4	8.4	32.4	3.5	3.7	YES			15.0		
702	WRA1	B	MID-FLOOD	31-Oct-06			26.7	5.54	5.46	YES	5.50		85.0	81.9	8.4	32.3	3.8	3.5	YES	3.5		10.5	11.8	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L		Difference <25%	Average value	Exceeded Level	DO, % saturation		pH, Unit	Salinity, ppt	Turbidity, NTU		Difference <25%	Averaged Value	Exceeded Level	Suspended Solid, mg/L	Averaged Value	Exceeded Level
703	WRA2	S	MID-FLOOD	31-Oct-06	17:12	27.50	27.1	5.93	5.84	YES	5.76		90.3	88.6	8.4	32.4	1.9	2.0	YES	3.3		11.5	11.5	
704	WRA2	M	MID-FLOOD	31-Oct-06			27.0	5.72	5.56	YES			87.0	85.3	8.4	32.3	3.2	3.3	YES			11.0		
705	WRA2	B	MID-FLOOD	31-Oct-06			27.1	5.64	5.49	YES	5.57		86.4	84.1	8.4	32.4	4.9	4.6	YES			12.0		
706	WRA3	S	MID-FLOOD	31-Oct-06	16:59	26.90	26.7	5.94	5.83	YES	5.80		93.5	90.0	8.4	32.6	3.2	3.1	YES	4.3		8.5	12.7	
707	WRA3	M	MID-FLOOD	31-Oct-06			26.9	5.79	5.62	YES			88.0	87.8	8.4	32.6	4.4	4.6	YES			9.0		
708	WRA3	B	MID-FLOOD	31-Oct-06			27.0	5.57	5.43	YES	5.50		84.6	82.8	8.4	32.5	5.1	5.2	YES			20.5		
709	WWFCZ1	S	MID-FLOOD	31-Oct-06	16:21	35.80	26.9	5.92	5.80	YES	5.74	Comply	90.0	87.7	8.4	31.7	3.2	3.3	YES	3.7	Comply	11.5	10.0	Comply
710	WWFCZ1	M	MID-FLOOD	31-Oct-06			27.0	5.69	5.55	YES			86.9	84.3	8.4	32.1	3.4	3.4	YES			8.5		
711	WWFCZ1	B	MID-FLOOD	31-Oct-06			26.8	5.57	5.43	YES	5.50	Comply	83.0	80.7	8.4	32.3	4.5	4.6	YES			10.0		
712	WWFCZ2	S	MID-FLOOD	31-Oct-06	16:34	34.60	26.9	5.95	5.84	YES	5.81	Comply	91.1	88.9	8.4	32.4	3.2	3.4	YES	4.3	Comply	8.5	8.2	Comply
713	WWFCZ2	M	MID-FLOOD	31-Oct-06			26.9	5.80	5.65	YES			86.2	84.7	8.4	32.5	4.1	4.1	YES			8.0		
714	WWFCZ2	B	MID-FLOOD	31-Oct-06			26.8	5.72	5.57	YES	5.65	Comply	84.3	81.9	8.4	31.8	5.4	5.4	YES			8.0		
715	WFCZR1	S	MID-FLOOD	31-Oct-06	16:08	39.20	27.0	5.94	5.82	YES	5.79		92.8	87.7	8.4	32.5	4.3	4.4	YES	4.3		12.5	12.3	
716	WFCZR1	M	MID-FLOOD	31-Oct-06			26.9	5.77	5.61	YES			88.0	86.4	8.4	32.7	4.3	4.1	YES			15.0		
717	WFCZR1	B	MID-FLOOD	31-Oct-06			26.8	5.59	5.46	YES	5.53		85.6	82.3	8.4	32.8	4.4	4.3	YES			9.5		
718	WFCZR2	S	MID-FLOOD	31-Oct-06	16:49	40.70	27.0	5.96	5.90	YES	5.83		95.9	91.4	8.4	32.5	3.8	3.8	YES	4.3		10.5	11.7	
719	WFCZR2	M	MID-FLOOD	31-Oct-06			26.8	5.78	5.69	YES			87.5	84.9	8.4	32.6	3.2	3.1	YES			11.0		
720	WFCZR2	B	MID-FLOOD	31-Oct-06			26.9	5.58	5.43	YES	5.51		83.6	81.8	8.4	32.5	5.9	5.7	YES			13.5		

Appendix E

Investigation Summary on Marine Water Quality Exceedances

Contract No. HY/2005/06
Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005)
Marine Water Exceedance Investigation Summary

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 Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station				
3-Oct-06	mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	7.2	15.7	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA2 and WWA3 on 3 October 2006 by ET's field staff. The weather was sunny and fine during monitoirng period. In addition, there were no exceedances of Tby levels on the same stations on the same day. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No-action	13-Oct-06	Refer to ET's field record, photos & CT's daily records.
3-Oct-06	mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	9.5	13.8	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 Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station				
5-Oct-06	mid-ebb	WWA2	-	-	-	-	6.5	7.4	8.8	13.0	11.2	14.2	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 5 October 2006 by ET's field staff. The weather was sunny and fine during monitoring period. There were no filling activities conducted on the same day. In general, the exceedance levels were comparable to the levels recorded at control stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No-action	13-Oct-06	Refer to ET's field record, photos & CT's daily records.
5-Oct-06	mid-ebb	WWA3	-	-	-	-	6.5	6.5	8.7	13.0	12.7	14.8	Ditto	Ditto	Ditto	Ditto
5-Oct-06	mid-ebb	WWFCZ1	-	-	-	-	6.5	7.0	9.2	13.0	11.0	13.5	Ditto	Ditto	Ditto	Ditto
5-Oct-06	mid-flood	WWA1	-	-	-	-	-	-	-	17.0	14.8	21.3	Ditto	Ditto	Ditto	Ditto
5-Oct-06	mid-flood	WWA3	-	-	-	-	6.6	6.2	7.0	17.0	8.3	22.7	Ditto	Ditto	Ditto	Ditto
5-Oct-06	mid-flood	WWFCZ1	-	-	-	-	6.6	7.1	8.1	-	-	-	Ditto	Ditto	Ditto	Ditto
5-Oct-06	mid-flood	WWFCZ2	-	-	-	-	6.6	7.7	7.8	-	-	-	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 Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station				
9-Oct-06	mid-ebb	WWA1	-	-	-	-	6.5	11.1	14.1	13.0	18.3	24.7	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 9 October 2006 by ET's field staff. No marine works were being conducted on the same day. In general, the exceedance levels were comparable to the levels recorded at control stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No-action	20-Oct-06	Refer to ET's field record, photos & CT's daily records.
9-Oct-06	mid-ebb	WWA2	-	-	-	-	6.5	9.5	10.9	-	-	-	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-ebb	WWA3	-	-	-	-	6.5	11.1	12.4	13.0	16.8	18.5	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-ebb	WWFCZ2	-	-	-	-	6.5	7.0	8.1	-	-	-	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-flood	WWA1	-	-	-	-	6.6	10.1	11.1	17.0	15.8	19.3	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-flood	WWA2	-	-	-	-	-	-	-	17.0	14.8	20.3	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-flood	WWA3	-	-	-	-	6.6	10.2	10.6	-	-	-	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-flood	WWFCZ1	-	-	-	-	-	-	-	17.0	25.5	26.0	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-flood	WWFCZ2	-	-	-	-	6.6	6.8	7.7	-	-	-	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 Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station				
11-Oct-06	mid-ebb	WWFCZ1	-	-	-	-	6.5	6.8	8.1	-	-	-	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 11 October 2006 by ET's field staff. No marine works were being conducted on the same day. In general, the exceedance levels were comparable to the levels recorded at control stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	26-Oct-06	Refer to ET's field record, photos & CT's daily records.
11-Oct-06	mid-flood	WWA1	-	-	-	-	-	-	-	17.0	11.2	19.7	Ditto	Ditto	Ditto	Ditto
11-Oct-06	mid-flood	WWFCZ1	-	-	-	-	6.6	5.9	7.7	-	-	-	Ditto	Ditto	Ditto	Ditto
11-Oct-06	mid-flood	WWFCZ2	-	-	-	-	6.6	6.8	7.3	-	-	-	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 Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station				
13-Oct-06	mid-ebb	WWA1	-	-	-	-	6.5	3.6	7.1	-	-	-	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 13 October 2006 by ET's field staff. No marine works were being conducted on the same day. The exceedance levels were marginal to the baseline check criteria. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	26-Oct-06	Refer to ET's field record, photos & CT's daily records.
13-Oct-06	mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	7.5	14.0	Ditto	Ditto	Ditto	Ditto
13-Oct-06	mid-flood	WWA1	-	-	-	-	6.6	3.6	6.9	-	-	-	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 Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station				
20-Oct-06	mid-ebb	WWA1	-	-	-	-	-	-	-	13.0	11.5	16.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 20 October 2006 by ET's field staff. No marine works were being conducted on the same day. The weather was sunny and fine during monitoring and the exceedance levels were marginal to the baseline check criteria. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	28-Oct-06	Refer to ET's field record & CT's daily records.

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 Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station				
23-Oct-06	Mid-ebb	WWA3	-	-	-	-	6.5	5.0	7.8	13.0	18.8	27.5	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 23 October 2006 by ET's field staff. No marine works were being conducted on the same day. The weather was sunny and fine during monitoring and the exceedance levels were marginal to the baseline check criteria. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	8-Nov-06	Refer to ET's field record & CT's daily records.
23-Oct-06	Mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13.0	10.2	14.0	Ditto	Ditto	Ditto	Ditto
23-Oct-06	Mid-ebb	WWA1	-	-	-	-	6.5	5.0	7.2	-	-	-	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 Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station				
25-Oct-06	mid-flood	WWFCZ1	-	-	-	-	-	-	-	17.0	18.3	20.5	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 25 October 2006 by ET's field staff. No marine works were being conducted on the same day. The weather was sunny and fine during monitoring and the exceedance levels were marginal to the baseline check criteria. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	8-Nov-06	Refer to ET's field record & CT's daily records.