

Maeda-Chun Wo J.V.

## **KCRC West Rail CC211 - Viaduct Tin Shui Wai to Siu Hong**

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**Monthly EM&A Report  
February 2003**

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## **EXECUTIVE SUMMARY**

Maeda Chun Wo Joint Venture (Viaducts) (MCWJV), the main Contractor for West Rail CC211 appointed Hyder as the Contractor's Environmental Team (CET) to undertake the Environmental Monitoring and Audit (EM&A) works in accordance with the contract specific EM&A Manual. This is the final monthly EM&A report for contract CC211 which summarises the auditing data for February 2003.

### Construction Programme

Major construction activities undertaken in February 2003 during non-restricted hours were reinstatement works. No construction activity was carried out in February 2003 during restricted hours.

### Environmental Impact Monitoring

Termination of air quality, noise and water quality monitoring under the EM&A Programme has been approved by EPD, with effect from 1 January 2003 (air quality & noise) and 1 September 2002 (water quality), and endorsed by the KCRC and the Engineer. The approval letters of termination of the aforesaid monitoring from EPD is included in Appendix A.

### Waste Management

No waste disposal record was received since March 2002. The Contractor anticipated that there will not be any more excavated waste materials to be generated and disposed offsite from contract CC211 in the rest of construction period.

### Environmental Auditing

Site inspection/audits were carried out by the CET on 6, 13, 19 and 27 of February 2003. All observations have been recorded on the audit checklist and passed to the Contractor together with the CET's recommendations. Site audit was undertaken by the IEC on 26 February 2003. No Non-Compliance (NC) was issued and no significant deficiency was observed. However, the Contractor will continually implement necessary measures to maintain the improved site condition.

### Complaints

No complaints were received in the reporting month.

### Notification of Summons, Successful Prosecutions and Corrective Actions

No Notification of Summons was received in the reporting month.

### Future Key Issues

The minor reinstatement at Lam Tei along the walkway installation had been completed. The outstanding landscaping works will be completed immediately following the resumption of planting season. In addition, termination of contract CC211 construction EM&A programme has been approved by EPD, with effective from 1<sup>st</sup> March 2003. The approval letter of termination of the aforesaid construction EM&A programme is included in Appendix A.

## **1. BACKGROUND INFORMATION**

### **1.1 PROJECT INFORMATION**

West Rail Contract CC 211 (hereafter known as the Project) comprises of the construction works of approximately 4.5km of twin track railway viaduct from Tin Shui Wai to Siu Hong. This is part of the Western Section of West Rail. The Project alignment commences from Tin Shui Wai Station and extends westward and ends at Siu Hong Station. The Project comprises of viaduct construction only and does not include the construction of new stations. Figure 1.1 shows the Project alignment.

Maeda Chun Wo Joint Venture (Viaducts) is the main Contractor for the Project. Hyder Consulting has been employed as the Contractor's Environmental Team (CET) and undertaking the Environmental Monitoring and Audit (EM&A) programme in accordance with the EM&A Manual.

### **1.2 CONSTRUCTION PROGRAMME**

It is anticipated that the overall project programme from the detail design to completion of all civil works will take approximately 64 months. The civil works contract is anticipated to take approximately 47 months. Figure 1.2 presents a summary of the construction programme.

### **1.3 PROJECT ORGANISATION AND MANAGEMENT**

An Environmental Team is set up for the Project construction phase. The organisation and lines of communication with respect to environmental works are shown in Figure 1.3.

In general CET is responsible for regular on-site monitoring and audits/inspection on environmental issues and report to the Contractor of any potential environmental deficiencies. The Independent Environmental Checker (IEC) is responsible for carrying out the formal audit and verifies the overall environmental performance. Finally, the Environmental Manager of KCRC will manage the IEC who would review the deliverables prior to the submission to EPD.

## 2. SUMMARY OF CONSTRUCTION ACTIVITIES

### 2.1 CONSTRUCTION ACTIVITIES

Construction activities for this month during non-restricted hours were reinstatement works.

No construction activity was carried out during restricted hour in the reporting month.

### 2.2 VALID EPD LICENCES

Appendix D summarise the Environmental Licences for the Project.

## 3. NON-COMPLIANCE AND DEFICIENCY

### 3.1 SITE INSPECTION/AUDIT

#### 3.1.1 Site Inspection/Audit by CET

Regular site inspection/audit were carried out by CET. In February 2003, site audit were carried out at the sites:

- Pier 42 to 59 – 6 February 2003;
- Pier 842 to 852 – 13 February 2003;
- Pier 2 to 13 – 19 February 2003; and
- Pier 41 to 65 – 27 February 2003.

All observations have been recorded in the audit checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary. Significant deficiencies observed during site inspection/audits and recommendation, which have been made by the CET, are summarised in Table 3.1 below:

Significant Deficiencies Observed	CET Recommendation
<ul style="list-style-type: none"><li>• No significant deficiency was observed.</li></ul>	<ul style="list-style-type: none"><li>• N/A</li></ul>

**Table 3.1 Summary of Site Inspection/Audits and Recommendations**

#### 3.1.2 Site Audit by IEC

Site audit was undertaken by the IEC on 26 February 2003. Appendix E presents the site inspection checklist, which includes the IEC's observations and recommendations. Observations and recommendation are summarised below:

- Steel work installation was completed on the viaduct and demobilizing the equipment on the viaduct.

**4. WASTE MANAGEMENT**

No waste disposal record was received since March 2002. The Contractor anticipated that there will not be any more excavated waste materials to be generated and disposed offsite from contract CC211 in the rest of construction period.

**5. COMPLAINT**

No complaint was received during the preparation of the report. Appendix B presents a complaint log that summarised all complaints received since the commencement of the Project.

**6. SUMMARY OF NOTIFICATION OF SUMMONS, SUCCESSFUL PROSECUTIONS AND CORRECTIVE ACTIONS**

No Notification of Summons was received during the reporting month. Appendix F presents the Summary of Notification of Summons and Prosecutions since the commencement of the Project.

**7. FUTURE KEY ISSUES**

The minor reinstatement at Lam Tei along the walkway installation had been completed. The outstanding landscaping works will be completed immediately following the resumption of planting season. In addition, termination of contract CC211 construction EM&A programme has been approved by EPD, with effective from 1<sup>st</sup> March 2003. The approval letter of termination of the foresaid construction EM&A programme is included in Appendix A.

**Appendix B - Complaints Log**

Date Received	Complainant	Details of the Complaint	Action	Status	Remark
8-Mar-00	EPD	Carrying out construction activities using powered mechanical equipment during restricted hour, without a valid CNP at Tin Ha Road, Hung Shui Kiu, Yuen Long	<p>Relevant activities were stopped immediately.</p> <p>Relevant CNP will be applied</p>	CNP application was rejected by EPD	
8-Mar-00	Legislative Councillor Mr Lee Cheuk Yan	Large amount of dumped sand and gravel were found along Tin Ha Road, caused by construction vehicles, which also raised quite a cloud of dust.	<ul style="list-style-type: none"> <li>• Wheeling washing, haul road watering and stockpile spraying will be carried out more frequency on site.</li> <li>• Amount of stockpiles and exposed soils will be minimised</li> <li>• Covers will be used on dump trucks</li> </ul>	Actions have been taken immediately and being implemented throughout the construction	
15-Mar-00	EPD	During site visit by EPD, serious signs of water pollution problems caused by muddy site effluent have been observed. Findings indicated that the pollution problems were related to surface runoff arising from uncovered excavated materials, or improper de-silting of effluent arise from various types of construction works.	<ul style="list-style-type: none"> <li>• Amount of exposed soil will be minimise to reduce the potential of surface runoff</li> <li>• The design of existing de-silting facilities will be review and upgrade if necessary</li> </ul>	Actions have been taken immediately and being implemented throughout the construction	
3rd June	Public Complaints	Regarding the discharge of muddy water into the road gully system and dust/cement accumulated on the road surface at Pier 815 near Hung Tin Road.	<ul style="list-style-type: none"> <li>• Increase frequency of haul road watering;</li> <li>• Ensure wheel washing for all vehicle leaving the site to avoid mud and dust being carried out and disposed to public access roads;</li> <li>• Ensure all discharge points are provided by proper sedimentation facilities; and</li> <li>• Additional sedimentation tanks will be provided at the area where IEC/EPD are identified as problematic area.</li> </ul>	Actions have been taken immediately and being implemented throughout the construction	



Date Received	Complainant	Details of the Complaint	Action	Status	Remark
(No complaint was received in the month of July 2000)					
(No complaint was received in the month of September 2000)					
(No complaint was received in the month of September 2000)					
20-Oct-00	DSD	Large amount of timber and construction materials left in the newly constructed C1 channel at Yick Yuen, which might cause damage of Tin Shui Wai inflatable dam.	The Contractor removed the materials in the channel	Action taken immediately	
(No complaint was received in the month of November 2000)					
(No complaint was received in the month of December 2000)					
(No complaint was received in the month of January 2001)					
(No complaint was received in the month of February 2001)					
(No complaint was received in the month of March 2001)					
(No complaint was received in the month of April 2001)					
(No complaint was received in the month of May 2001)					
(No complaint was received in the month of June 2001)					
(No complaint was received in the month of July 2001)					
(No complaint was received in the month of September 2001)					
(No complaint was received in the month of October 2001)					
(No complaint was received in the month of November 2001)					
(No complaint was received in the month of December 2001)					
(No complaint was received in the month January 2002)					
(No complaint was received in the month February 2002)					
(No complaint was received in the month March 2002)					
(No complaint was received in the month April 2002)					

Date Received	Complainant	Details of the Complaint	Action	Status	Remark
		(No complaint was received in the month May 2002)			
		(No complaint was received in the month June 2002)			
		(No complaint was received in the month July 2002)			
		(No complaint was received in the month August 2002)			
		(No complaint was received in the month September 2002)			
		(No complaint was received in the month October 2002)			
		(No complaint was received in the month November 2002)			
		(No complaint was received in the month December 2002)			
		(No complaint was received in the month January 2003)			
		(No complaint was received in the month February 2003)			

### Appendix C - Comments and Responses

Department / Company Name	Reference	Date	Date received by
	(Comment on January 03 EM&A Report)		
From MCWJV to Hyder	/	/	/
From KCRC to MCWJV	/	/	/

No specific comment from KCRC/IEC on the Jan 03 monthly EM&A report was received during the preparation of this report.