

**Highways Department**


**Route 8 (previously known as Route 9) between  
Cheung Sha Wan & Sha Tin**

**Contract No. HY/2003/10 - Environmental Team for  
Lai Chi Kok Viaduct and Eagle's Nest Tunnel**

**Quarterly EM&A Report  
Part I – Lai Chi Kok Viaduct (Version 1.0)**

September - November 2004

Approved By

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(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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## EXECUTIVE SUMMARY

- This is the fourth Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin, Lai Chi Kok Viaduct & Eagle's Nest Tunnel”. This summary report documents the findings of EM&A works performed in the period between September and November 2004 for Contract No. HY/2003/01, Route 8 – Lai Chi Kok Viaduct (the Project).
- The construction activities undertaken in the reporting quarter were:
  - Utility diversion;
  - Pre-drilling works;
  - Slope works;
  - Column construction;
  - Bulk excavation;
  - Trial trench excavation;
  - Retaining wall construction;
  - Soil nail installation;
  - Bored piling works;
  - Pile cap construction;
  - Drainage works; and
  - Fabrication of segment launching gantry

### Environmental Monitoring Works

- Environmental monitoring for the Project was performed regularly as stipulated in the EM&A Manuals and the results were checked and reviewed. Environmental site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- Summary of the events and action taken in the reporting quarter is tabulated in **Table I**.

#### *1-hr TSP Monitoring*

- All 1-hr TSP monitoring was conducted as scheduled. No Action/Limit Level exceedance was recorded in this reporting quarter.

#### *24-hr TSP Monitoring*

- All 24-hr TSP monitoring was conducted as scheduled. No Action/Limit Level exceedance was recorded in this reporting quarter.

*Construction Noise*

- All noise monitoring was conducted as scheduled. No Action (noise complaint) /Limit Level exceedance was recorded in this reporting quarter.

**Table I Summary Table for Events Recorded in the Reporting Quarter**

Parameter	No. of Events		No. of Events due to the Project	Action Taken
	Action Level	Limit Level		
<i>September 2004</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A
<i>October 2004</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A
<i>November 2004</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A

**Environmental Licensing and Permitting**

- Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Construction Noise Permits (CNP) and Water Discharge Licenses (WDL). The Contractor had also registered as a Chemical Waste Producer.

**Key Information in the Reporting Quarter**

- Summary of key information in this reporting quarter is tabulated in **Table II**.

**Table II Summary Table for Key Information in the Reporting Quarter**

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0	---	N/A	N/A	---
Changes to the assumptions and key construction / operation activities recorded	0	---	N/A	N/A	---
Status of submissions under EP	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---
<p><b><u>Future Key Issues:</u></b></p> <p>Major site activities for the coming quarter include:</p> <ul style="list-style-type: none"> <li>• Utility diversion;</li> <li>• Slope works;</li> <li>• Bored piling works;</li> <li>• Pile cap construction;</li> <li>• Column construction;</li> <li>• Retaining wall construction;</li> <li>• Bridge segment erection;</li> <li>• Bulk excavation; and</li> <li>• Soil nails installation</li> </ul> <p>The anticipated environmental impacts will be mainly on dust from slope works and noise from pipe cap construction.</p>					

## 1. INTRODUCTION

- 1.1 Route 9 (Kowloon Section) (R9K) (hereinafter call the R9K-Project) forms part of the Route 9 between Cheung Sha Wan and Sha Tin (R9-CSWST) project, which will be a new expressway connecting West Kowloon and Sha Tin. It will be the fourth external link between Sha Tin and Kowloon and will form an important link between the northeast New Territories and the west Kowloon, Lantau Island and the western New Territories. R9K is being managed and implemented by the Highways Department (HyD).
- 1.2 The engineering design of R9K is covered under Agreement No. CE 50/98 "Route 9 between Cheung Sha Wan and Sha Tin – Design Construction Assignment". The main consultant engaged under Agreement No. CE 50/98 is Maunsell Hyder Joint Venture (MHJV), who will act as the Engineer for the construction contracts. The works of R9K mainly comprise a 1.4km dual 3-lane Lai Chi Kok Viaduct from Lai Wan Interchange to Butterfly Valley; 0.5 km of dual 3-lane at-grade carriageway linking to the 2.1 km dual 3-lane twin-bore Eagle's Nest Tunnel with associated portal buildings; a toll plaza with an administration building located with the Sha Tin valley woodland; a ventilation building and an adit; associated noise barriers, noise enclosures, drainage, slope and landscape works; and electrical and mechanical works for the whole R9-CSWST. The remainder of the R9-CSWST forms the Sha Tin Section (R9S) of the project and is being managed and implemented separately by the Civil Engineering and Development Department (CEDD).
- 1.3 The R9-CSWST project is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 449) (EIAO). An environmental impact assessment (EIA) report has been prepared in 1998 for the R9-CSWST project (1998 R9 EIA) to consider the key issues of noise, air quality, water quality, ecological, construction waste, landscape and visual, land use and cultural impacts, and identify possible mitigation measures.
- 1.4 An Updated Final EIA report was subsequently completed in August 1999 for the R9-CSWST project (1999 R9 EIA), to cater for some changes in R9K portion as mentioned in paragraph 1 in the report. The 1999 R9 EIA was endorsed by Environmental Protection Department (EPD) in November 1999. The 1998 R9 EIA and the 1999 R9 EIA (R9 EIA Reports) were included in the EIA register under the EIAO as report no. EIA-135/BC and AEIAR-022/1999 respectively. An Environmental Monitoring and Audit (EM&A) Manuals for each of the R9 EIA Reports (EM&A Manuals) were also included as part of the EIA reports in the register.
- 1.5 Subsequent to the endorsement of the R9 EIA Reports by EPD in November 1999, the project programme was deferred to start in 2002/2003 for completion by 2006/07. The implementation of the project was then separated into the R9S and R9K portion. An Environmental Permit (EP) No. EP-103/2001 was issued on 17 September 2001 for R9K to the HyD as Permit Holder. A revised EP No. EP-103/2001/A was issued on 20 May 2003 for R9K (R9K EP) to HyD as Permit Holder.

- 1.6 Two civil works contracts of the R9K project, Contract No. HY/2003/01 entitled "Route 9 – Lai Chi Kok Viaduct" and Contract No. HY/2003/02 entitled "Route 9 – Eagle's Nest Tunnel and Associated Works", were commenced on 15<sup>th</sup> December 2003 for completion in April 2007.
- 1.7 "Route 9" was recently re-titled as "Route 8 (previously known as Route 9)". Cinotech Consultants Limited (Cinotech) was commissioned by HyD to undertake the Environmental Monitoring and Audit works for "Route 8 (previously known as Route 9) between Cheung Sha Wan and Sha Tin - Environmental Team (ET) for Lai Chi Kok Viaduct and Eagle's Nest Tunnel (Contract No. HY/2003/10)". Dr. Priscilla CHOY of Cinotech was appointed as the ET Leader under Condition 2.2 of the EP. Mr. David YEUNG of CH2M-IDC Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the fourth quarterly EM&A report summarizing the EM&A works for the LCKV Project between September and November 2004.



## 2 PROJECT CHARACTERISTICS

### Project Organization and Contacts of Key Management

- 2.1 An organization structure and the line of communication were set up for the Project between the Project Proponent, Engineer's Representative (ER), Independent Environmental Checker (IEC), the Contractor and Environmental Team (ET). The organization chart and contact details are shown in **Figure 2** and **Appendix A**.

### Construction Programme and Synopsis of Work

- 2.2 The construction programme is presented in **Appendix B**. The site activities during the reporting period are summarized in **Table 2.1**.

**Table 2.1 Summary of Works Undertaken in the Reporting Period**

Item	Work Activity	Month		
		Sep 04	Oct 04	Nov 04
1.	Utility diversion	✓	✓	✓
2.	Pre-drilling works	✓	✓	✓
3.	Slope works	✓	✓	✓
4.	Column construction	✓	✓	✓
5.	Bulk excavation	✓	✓	✓
6.	Trial trench excavation	✓	✓	✓
7.	Retaining wall construction	✓	✓	✓
8.	Soil nail installation	✓	✓	✓
9.	Bored piling works	✓	✓	✓
10.	Pile cap construction	✓	✓	✓
11.	Drainage works	✓	✓	✓
12.	Fabrication of segment launching gantry		✓	✓

### **3 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS**

#### **Monitoring Parameters and Monitoring Locations**

- 3.1 The EM&A Manuals designate locations for the ET to monitor environmental impacts in terms of noise and air quality due to the Project. The Project area and monitoring locations are depicted in **Figure 1**. **Appendix C** gives details of monitoring requirements.

#### **Monitoring Methodology and Calibration Details**

- 3.2 Monitoring works/equipments were conducted/calibrated regularly in accordance with the EM&A Manuals. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

#### **Environmental Quality Performance Limits (Action and Limit Levels)**

- 3.3 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective Event Action Plans would be implemented. The Action/Limit Levels for each environmental parameter are provided in **Appendix D**.

#### **Environmental Mitigation Measures**

- 3.4 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the EM&A Manuals for the Contractor to implement. A list of mitigation measures is provided in **Appendix G**.

## 4 MONITORING RESULTS

### Weather Conditions

- 4.1 The weather during monitoring sessions was mainly sunny or cloudy. The weather conditions for each individual monitoring session were presented in the field record sheets.

### Air Quality

#### 1-hr TSP Monitoring

- 4.2 All 1-hr TSP monitoring was conducted as scheduled in this reporting quarter. No Action / Limit Level exceedance was recorded in the reporting quarter.

#### 24-hr TSP Monitoring

- 4.3 All 24-hr TSP monitoring was conducted as scheduled in this reporting quarter. No Action / Limit Level exceedance was recorded in the reporting quarter.
- 4.4 The monitoring data of 1-hr and 24-hr TSP Levels are attached in the appendices of the Monthly Reports for September to November 2004. The graphical presentations of the monitoring results are shown in **Appendix E**.

### Construction Noise

- 4.5 All construction noise monitoring was conducted as scheduled in this reporting quarter.
- 4.6 No Limit Level exceedance was recorded in the reporting period. Since no public complaint on noise was received, no Action Level exceedance was triggered in the reporting quarter.
- 4.7 The major noise source identified at the designated stations was road traffic noise.
- 4.8 All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured Leq – Baseline Leq = Measured CNL), in order to facilitate the interpretation of the noise exceedance.
- 4.9 The monitoring data of construction noise are attached in the appendices of the Monthly Reports for September to November 2004. The graphical presentations of the monitoring results are shown in **Appendix F**.



## 5 ENVIRONMENTAL AUDIT

### Implementation Status of Environmental Mitigation Measures

- 5.1 According to the Environmental Permit and the EM&A Manuals, the mitigation measures detailed in the documents are required to be implemented. An updated summary of the Environmental Mitigation Implementation Status (EMIS) is provided in **Appendix G**.
- 5.2 **Site Audit Summary**
- 5.3 ET's weekly site audits were conducted on 2<sup>nd</sup>, 15<sup>th</sup>, 22<sup>nd</sup> and 28<sup>th</sup> September, 7<sup>th</sup>, 15<sup>th</sup>, 20<sup>th</sup> and 27<sup>th</sup> October, 3<sup>rd</sup>, 11<sup>th</sup>, 18<sup>th</sup> and 24<sup>th</sup> November 2004. IEC's monthly site audits were conducted on 8<sup>th</sup> September, 15<sup>th</sup> October and 18<sup>th</sup> November 2004 together with ET.
- 5.4 During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations are summarized in **Table 5.1**.

**Table 5.1 Observations and Recommendations of the Site Audits**

Parameters	Date	Observations and Recommendations	Remedial Actions
<i>Water Quality</i>	02-Sep-04	Exposed slope surfaces beside the nullah were observed at Pier 14. The Contractor was reminded to cover the slope to control surface runoff.	Rectification was observed during the site audit on 15-Sep-04.
	02-Sep-04	The Contractor was reminded to concrete-pave the wheel washing area and improve the system for collection of wheel-washing water at Pier 8L.	Rectification was observed during the site audit on 08-Sep-04.
	08-Sep-04	Exposed soil surfaces along Piers 11 to 14 were observed, leading to potential contamination of Wai Man Tsuen Nullah. The Contractor was reminded to implement protection measures for the exposed surfaces.	Rectification was observed during the site audit on 15-Sep-04.
	08-Sep-04	Effluent discharge through 2 sedimentation tanks into the nullah was observed silty at Pier 14. The Contractor was reminded to enhance the de-silting system.	Rectification was observed during the site audit on 15-Sep-04.
	08-Sep-04	The de-silting system at Pier C12 (Nob Hill) was observed inadequate. The effluent discharge into the public drains was observed silty. The Contractor agreed to install an additional sedimentation tank for the de-silting system.	Rectification was observed during the site audit on 15-Sep-04.
	15-Sep-04	The tarpaulin sheets covering the exposed soil surfaces at Pier D4 were observed damaged. The Contractor was reminded to replace the old sheets.	Rectification was observed during the site audit on 22-Sep-04.

<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Remedial Actions</b>
<i>Air Quality</i>	15-Sep-04	Silt accumulation was observed in the ditch channel and the catchpits in Slopes 1, 2 and 3. The Contractor was recommended to clear the accumulated silt and concrete-pave the channel and the catchpits.	Rectification was observed during the site audit on 22-Sep-04.
	15-Sep-04	No temporary ditch for surface runoff collection was observed in the work area at Pier 17L. The Contractor agreed to construct the ditch and de-silting facility for surface runoff before discharge into the culvert.	Rectification was observed during the site audit on 22-Sep-04.
	22-Sep-04	The Contractor was reminded to clear the accumulated mud in the temporary ditch at Pier 17L more frequently.	Rectification was observed during the site audit on 28-Sep-04.
	22-Sep-04	Silty water discharge into public drains was observed at Slope S1. The Contractor agreed to install an additional settling tank to enhance the de-silting process.	Rectification was observed during the site audit on 28-Sep-04.
	22-Sep-04	The stockpile of soil material was not entirely covered at Abutment A. The Contractor was reminded to cover the stockpile as soon as possible to minimize the potential dust problem.	Rectification was observed during the site audit on 28-Sep-04.
	28-Sep-04	No wheel washing facility was provided at the site exit of Pier 8L. The Contractor agreed to cover the unpaved area for vehicle movement as an interim measure. Immediate action taken by the Contractor was noted during the audit.	Rectification was observed during the site audit on 07-Oct-04.
	28-Sep-04	A stockpile of dry and uncovered materials (sub-base) was observed at Pier C11. Some material deposited on the public road was noted. The Contractor was reminded to remove the materials from the public area and cover the stockpile as soon as possible.	Rectification was observed during the site audit on 07-Oct-04.
	28-Sep-04	Some impervious sheeting placed on the fences along the site boundary at Pier C11 was broken. The Contractor was reminded to replace the sheeting as soon as possible to minimize the dust problem.	Rectification was observed during the site audit on 07-Oct-04.
	07-Oct-04	Deposition of soil materials on the area between the wheel washing bay and the site exit was observed at Pier 11. The Contractor was reminded to clean the area as soon as possible.	Rectification was observed during the site audit on 15-Oct-04.
07-Oct-04	Fugitive dust emission was observed during the loading operation at Slope S1 and the unloading operation at R5. The Contractor was recommended to water the dusty material prior to the loading and unloading operations.	Rectification was observed during the site audit on 15-Oct-04.	

Parameters	Date	Observations and Recommendations	Remedial Actions
	15-Oct-04	Wheel washing performed outside the site entrance at Portion K5 was observed. The Contractor was reminded to instruct all workers to perform wheel washing within the site and provide proper training for the relevant staff.	A tool-box talk was provided by the Contractor to the relevant staff.
	15-Oct-04	The haul roads at Pier A2 and Abutment CA1 (Nob Hill) were observed dry. The Contractor was reminded to water spray the roads more frequently.	Rectification was observed during the site audit on 20-Oct-04.
	20-Oct-04	The area of the grout mixing operation at Pier 8L was not properly sheltered. The Contractor was reminded to shelter the area on the top and 3 sides during the mixing operation.	Immediate action taken by the Contractor was observed.
	27-Oct-04	Exposed soil stockpile without cover was observed at Pier 1L. The Contractor was reminded to cover the stockpile as soon as possible to avoid dust emission.	Rectification was observed during the site audit on 03-Nov-04.
	03-Nov-04	No wheel washing facility was provided at the site exit of Pier 9R. The Contractor was reminded to provide the facility as soon as possible.	Rectification was observed during the site audit on 11-Nov-04.
	03-Nov-04	A dump truck loaded with uncovered soil material was observed leaving the site of Pier D3. The Contractor was reminded to provide proper training to the relevant staff.	A tool-box talk was provided by the Contractor to relevant workers.
	11-Nov-04	Fugitive dust emission was observed during vehicle movement at Pier 14. The Contractor was reminded to water spray the haul road more frequently.	Rectification was observed during the site audit on 11-Nov-04.
	11-Nov-04	Dark smoke emission from an excavator was observed at Pier 14. The Contractor was reminded to use well-maintained plants on site.	Rectification was observed during the site audit on 11-Nov-04.
	18-Nov-04	Exposed soil slopes were observed at Slope S3. The Contractor was reminded to provide cover for the slopes to prevent dust emission.	Rectification was observed during the site audit on 24-Nov-04.
	18-Nov-04	Some area on the haul road near Pier C6L was observed dry. The Contractor was reminded to increase the watering frequency.	Rectification was observed during the site audit on 24-Nov-04.
<b>Noise</b>	22-Sep-04	No Noise Emission Label was affixed on an air compressor (Plant no. AR038) at Slope S1.	Rectification was observed during the site audit on 28-Sep-04.
	03-Nov-04	No noise emission label was provided for an air compressor at Slope S1. The Contractor was reminded to affix the label as soon as possible.	Rectification was observed during the site audit on 11-Nov-04.

Parameters	Date	Observations and Recommendations	Remedial Actions
<i>Chemical and Waste Management</i>	02-Sep-04	No drip tray was provided for a generator at Pier 8R. The Contractor was recommended to provide the drip tray as soon as possible.	Rectification was observed during the site audit on 08-Sep-04.
	08-Sep-04	Oil stain was observed near a backhoe at Pier 14.	Rectification was observed during the site audit on 15-Sep-04.
	07-Oct-04	Oil leakage from a crawler crane (plant no. CC-024) at Pier A2 was observed.	Rectification was observed during the site audit on 15-Oct-04.
	15-Oct-04	Two oil drums were observed placing on bare ground without drip trap at Abutment B. The Contractor was reminded to provide a drip tray for the oil drums as soon as possible.	Rectification was observed during the site audit on 20-Oct-04.
	27-Oct-04	General refuses scattering on site was observed at the area along Piers 11 to 14. The Contractor was reminded to collect the refuse properly and maintain the site clean and tidy.	Rectification was observed during the site audit on 03-Nov-04.
	03-Nov-04	Oil leakage from an air compressor was observed at Slope S1. The Contractor was reminded to use well-maintained plant on site.	Rectification was observed during the site audit on 11-Nov-04.
	18-Nov-04	Oil stained soil was observed under an air-compressor at NTMM. The Contractor was reminded to clear the contaminated soil as soon as possible.	Rectification was observed during the site audit on 24-Nov-04.
	24-Nov-04	Oil drums without drip tray were found near Portion W subcon site office and site area C6L.	Rectification was observed during the site audit on 01-Dec-04.
<i>Others</i>	02-Sep-04	Stagnant water was observed in a bucket at Pier 12. The Contractor was reminded to dry it to prevent mosquito breeding.	Rectification was observed during the site audit on 08-Sep-04.

### Status of Environmental Licensing and Permitting

- 5.5 Environmental licenses and permits including the Environmental Permit for the Project were in place and valid during the reporting quarter. The status of all licenses and permits obtained for the Project is summarized in **Appendix H**.



## **6 NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)**

### **Summary of Exceedances**

#### 1-hr TSP Monitoring

- 6.1 No Action/Limit Level exceedance was recorded in this reporting quarter.

#### 24-hr TSP Monitoring

- 6.2 No Action/Limit Level exceedance was recorded in this reporting quarter.

#### Construction Noise

- 6.3 No Action (noise complaint) / Limit Level exceedance was recorded in this reporting quarter.

### **Review of the Reasons for and the Implications of Non-compliance**

- 6.4 There was no non-compliance from the site audits in the reporting quarter. As mentioned previously in the Section 5.2 of this report, the observations and recommendations made in each individual site audit session were presented.

## **7 ENVIRONMENTAL COMPLAINTS**

- 7.1 No environmental related complaint was received in the reporting period.
- 7.2 There were 5 complaints received since the Project commencement. All complaints have been handled in accordance with the EM&A Manuals. The implementation status of the complaint handling procedure is summarized in **Appendix I**.

## **8 NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS**

- 8.1 No notification of summon or successful prosecution was recorded in this reporting quarter.
- 8.2 There was no notification of summon or successful prosecution received since the Project commencement.

## **9 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS**

- 9.1 Major site activities for the coming quarter include:
- Utility diversion;
  - Slope works;
  - Bored piling works;
  - Pile cap construction;
  - Column construction;
  - Retaining wall construction;
  - Bridge segment erection;
  - Bulk excavation; and
  - Soil nails installation.
- 9.2 The anticipated environmental impacts will be mainly on dust from slope works and noise from pile cap construction.