

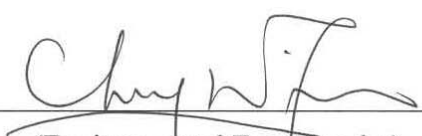
Highways Department

**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 II – Eagle's Nest Tunnel and Associated Works
(Version 1.0)**

December 2003 - February 2004

Approved By 
(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.

CINOTECH accepts no responsibility for changes made to this report by third parties.

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EXECUTIVE SUMMARY

- This is the first 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 December 2003 and February 2004 for Contract No. HY/2003/02, Route 8 – Eagle's Nest Tunnel and Associated Works (the Project).
- The construction activities undertaken in the reporting quarter were:
 - Haul road construction;
 - Building of site office;
 - Diversion of water-main;
 - Slope cutting;
 - Site establishment; and
 - Survey Monitoring.

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 exceedances recorded in the reporting quarter is tabulated in Table I.

Table I Summary Table for Exceedances Recorded in the Reporting Quarter

Parameter	No. of Exceedances		No. of Exceedances Due to the Project	Action Taken
	Action Level	Limit Level		
<i>December 2003</i>				
1-hr TSP	2	1	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	1	0	N/A
<i>January 2004</i>				
1-hr TSP	4	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	1	0	N/A
<i>February 2004</i>				
1-hr TSP	1	0	0	N/A
24-hr TSP	3	0	0	N/A
Noise	0	1	0	N/A

1-hr TSP Monitoring

- All 1-hr TSP monitoring was conducted as scheduled in this reporting quarter. A total of seven Action Level exceedances and one Limit Level exceedance were recorded in the reporting quarter.

Action Level exceedances at AM1 (PLK Choi Kai Yau School)

- Exceedances were recorded at AM1 on 19 December 2003 and 2 January 2004. According to the ET's field observations, the major dust sources for the exceedances were the excavation works at a construction site nearby which did not belong to the Project and/or the poor local ambient air quality. Therefore, the exceedances were not due to the Project and no further action was required.

Action Level exceedances at AM3 (Garden Villa)

- Exceedances were recorded at AM3 on 2 & 6 January 2004 and 24 February 2004. According to the ET's field observations, the major dust sources for the exceedances were the operation of dump trucks, excavators and mobile cranes at a construction nearby which did not belong to the Project and/or the poor local ambient air quality. Therefore, the exceedances were not due to the Project and no further action was required.

Action Level exceedances at AM4 (Government Quarters)

- Exceedances were recorded at AM4 on 19 December 2003 and 2 January 2004. According to the ET's field observations, the major dust sources for the exceedances were the excavation works at a construction site nearby which did not belong to the Project and/or the poor local ambient air quality. Therefore, the exceedances were not due to the Project and no further action was required.

Limit Level exceedance at AM3 (Garden Villa)

- Exceedance was recorded at AM3 on 19 December 2003. According to the ET's field observation, the dominated dust source was the operation of rollers, excavators and dump trucks at a construction site nearby which did not belong to the Project. The exceedance might also be due to the poor local ambient air quality. Therefore, the exceedances were not due to the Project and no further action was required.

24-hr TSP Monitoring

- All 24-hr TSP monitoring was conducted as scheduled in this reporting quarter, except the monitoring work at 12 January 2004 was cancelled due to the typo error in the tentative monitoring schedule. A total of three Action Level exceedances were recorded in the reporting period.
- Action Level Exceedances were recorded at AM1, AM3 and AM4 on 13 February 2004. Based on the EPD's ambient air monitoring data at Kwai Chung, the hourly Air Pollution Index (API) during the sampling period was very high, ranged between 95 and 131. Therefore, the Action Level exceedances might be due to the poor air quality as a

consequence of regional air pollution over Hong Kong. Therefore, the exceedances were not due to the Project and no further action was required.

- For AM3, the exceedance may also due to the operation of dump trucks, excavators and mobile cranes at a construction site nearby which did not belong to the Project.

Construction Noise

- Noise monitoring was performed at the four designated locations during the daytime period (0700 to 1900) as schedule in this reporting quarter, except the monitoring work at NM5 (Villa Carlton) on 19 December 2003 was cancelled due to high wind speed. No re-measurement was conducted.
- No Action Level exceedance and three Limit Level exceedances were recorded in the reporting quarter.
- Limit Level exceedances were recorded at NM5 on 24 December 2003, 19 January 2004 and 5 February 2004. According to the ET's field observations, all the exceedances were due to the road traffic noise at Tai Po Road. No construction activity near the monitoring station was identified for the Project. Therefore, the exceedances were not due to the Project and no further action was required.

Environmental Licensing and Permitting

- Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project and Construction Noise Permit (CNP). One new CNP was issued to the Project in this reporting quarter.

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	1	WMP	Certified by ET and Verified by IEC	Submitted to EPD by HyDs	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---
<p><u>Future Key Issues:</u></p> <p>Major site activities for the coming month include:</p> <ul style="list-style-type: none"> • Cut slope; • Haul road construction; • Vertical drill hole; • Site establishment; • Excavation works; and • Site surveying. <p>The anticipated environmental impacts will be mainly on dust and noise due to the earthworks and surface runoff during rainy days.</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 Territory Development Department (TDD).
- 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 in 15th 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 first quarterly EM&A report summarizing the EM&A works for the ENT Project between December 2003 and February 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 Appendix A and Figure 2.

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 Months

Item	Work Activity	Month		
		Dec 03	Jan 04	Feb 04
1.	Haul road construction	✓	✓	✓
2.	Building of site office	✓	✓	✓
3.	Diversion of water-main		✓	✓
4.	Slope cutting	✓	✓	✓
5.	Site establishment	✓	✓	✓
6.	Survey monitoring	✓	✓	✓

3 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

Monitoring Parameters and Monitoring Locations

- 3.1 The EM&A Manuals designated 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 Figures 1a & 1b. 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 given 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. A total of seven Action Level exceedances and one Limit Level exceedance were recorded in the reporting quarter.

Action Level exceedances at AM1 (PLK Choi Kai Yau School)

- 4.3 Exceedances were recorded at AM1 on 19 December 2003 and 2 January 2004. According to the ET's field observations, the major dust sources for the exceedances were the excavation works at a construction site nearby which did not belong to the Project and/or the poor local ambient air quality. Therefore, the exceedances were not due to the Project and no further action was required.

Action Level exceedances at AM3 (Garden Villa)

- 4.4 Exceedances were recorded at AM3 on 2 & 6 January 2004 and 24 February 2004. According to the ET's field observations, the major dust sources for the exceedances were the operation of dump trucks, excavators and mobile cranes at a construction nearby which did not belong to the Project and/or the poor local ambient air quality. Therefore, the exceedances were not due to the Project and no further action was required.

Action Level exceedances at AM4 (Government Quarters)

- 4.5 Exceedances were recorded at AM4 on 19 December 2003 and 2 January 2004. According to the ET's field observations, the major dust sources for the exceedances were the excavation works at a construction site nearby which did not belong to the Project and/or the poor local ambient air quality. Therefore, the exceedances were not due to the Project and no further action was required.

Limit Level exceedance at AM3 (Garden Villa)

- 4.6 Exceedance was recorded at AM3 on 19 December 2003. According to the ET's field observation, the dominated dust source was the operation of rollers, excavators and dump trucks at a construction site nearby which did not belong to the Project. The exceedance may also due to the poor local ambient air quality. Therefore, the exceedances were not due to the Project and no further action was required.

24-hr TSP Monitoring

- 4.7 All 24-hr TSP monitoring was conducted as scheduled in this reporting quarter, except the monitoring work at 12 January 2004 was cancelled due to the typo error in the tentative monitoring schedule. A total of three Action Level exceedances were recorded in the reporting period.
- 4.8 Action Level Exceedances were recorded at AM1, AM3 and AM4 on 13 February 2004. Based on the EPD ambient air monitoring data at Kwai Chung, the hourly Air Pollution Index (API) during the sampling period was very high, ranged between 95 and 131. Therefore, the Action Level exceedances might be due to the poor air quality as a consequence of regional air pollution over Hong Kong. Therefore, the exceedances were not due to the Project and no further action was required.
- 4.9 For AM3, the exceedance might also be due to the operation of dump trucks, excavators and mobile cranes at a construction site nearby which did not belong to the Project.
- 4.10 The monitoring data of 1-hr and 24-hr TSP Levels are attached in the appendices of the Monthly Reports for December 2003 to February 2004. The graphical presentations of the monitoring results are shown in Appendix E.
- 4.11 1-hr TSP and 24-hr TSP exceedances recorded in the reporting quarter and the associated actions taken are summarized in Appendix J.

Construction Noise

- 4.12 Noise monitoring was performed at the four designated locations during the daytime period (0700 to 1900) as schedule in this reporting quarter, except the monitoring work at NM5 (Villa Carlton) on 19 December 2003 was cancelled due to high wind speed. No re-measurement was conducted.
- 4.13 The allowed CNL at NM1 was reduced to 65 dB(A) in the period between 12 and 25 February 2004 due to the school examination of Yew Chung International School.
- 4.14 No Action Level exceedance and three Limit Level exceedances were recorded in the reporting quarter.
- 4.15 Limit Level exceedances were recorded at NM5 on 24 December 2003, 19 January 2004 and 5 February 2004. According to the ET's field observations, all the exceedances were due to the road traffic noise at Tai Po Road. No construction activity near the monitoring station was identified for the Project. Therefore, the exceedances were not due to the Project and no further action was required.
- 4.16 The major noise sources identified at the other designated stations were also traffic noise.
- 4.17 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. The baseline noise level at each designated noise monitoring station is presented at Table 4.1.

- 4.18 The monitoring data of construction noise are attached in the appendices of the Monthly Reports for December 2003 to February 2004. The graphical presentations of the monitoring results are shown in Appendix F.
- 4.19 Construction noise exceedances recorded in the reporting quarter and the associated actions taken are summarized in Appendix J.

Table 4.1 Day Time Baseline Noise Level at Each Noise Monitoring Station

Station	Baseline Noise Level, dB(A)
NM1 - Yew Chung International School / PKL Choi Kai Yau School	61.5
NM5 – Villa Carlton	77.1
NM6 – Government Quarters	70.1
NM7 – Garden Villa	59.0

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.

Site Audit Summary

5.2 ET's weekly site audits were conducted on 17, 24 & 31 December 2003; 7, 14, 20 & 28 January 2004 and 4, 11, 18 & 25 February 2004. IEC's monthly site audits were conducted on 17 December 2003, 7 January 2004 and 4 February 2004 together with ET.

5.3 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	Remedial Actions
Air Quality	14 Jan 2004	The Contractor was recommended to cover all the stockpiled materials and exposed slopes at Mui Kong Tsuen to prevent dust impact, especially during the Lunar New Year holidays.	Rectification was observed during the site audit on 20 Jan 2004.
	28 Jan 2004	At North Portal area, one dump truck containing excavated material was not covered. The Contractor was reminded that materials transported on trucks should be covered by tarpaulin or similar material.	---
	18 Feb 2004	Uncovered stockpiled material was observed at Area W2. The Contractor was recommended to cover it properly by tarpaulin and similar material.	Rectification was observed during the site audit on 25 Feb 2004.
	25 Feb 2004	Uncovered stockpiled materials were observed at North Portal. If such materials are inactive, the Contractor was reminded to cover them by tarpaulin or spray them with water frequently.	---
Water Quality	20 Jan 2004	Damaged sand bag was observed at the storm drain at Mui Kong Tsuen. The Contractor was recommended to replace a new one.	Rectification was observed during the site audit on 28 Jan 2004.
	04 Feb 2004	The Contractor was recommended to implement the temporary surface runoff control system to prevent water quality impact before the coming raining season especially at the area of Mui Kong Tsuen.	---

Parameters	Date	Observations	Remedial Actions
Water Quality (cont ⁷)	11 Feb 2004	Water ponding was observed at the site office area (Area W2). The source of the water was due to the leakage of the water pipe at Area W2. The Contractor was recommended to rectify the problem.	Rectification was observed during the site audit on 18 Feb 2004.
	11 Feb 2004	At Mui Kong Tsuen, muddy water effluent was observed at the exit of U-Channel, which connected directly to the nearby nullah. The sources of the muddy water were due to the wastewater from road washing and wheel washing. The Contractor was recommended to implement some mitigation measures to rectify the problem and reminded that no water should be discharged into the nullah until the water discharge license is issued.	Rectification was observed during the site audit on 18 Feb 2004.
Chemical and Waste Management	17 Dec 2003	At site office area, oil stain was found outside the drip-tray. Besides, the Contractor was recommended to clear the oily water inside the drip-tray more frequently.	Rectification was observed during the site audit on 24 Dec 2003.
	17 Dec 2003	No drip tray was provided for one of the generators at the site office area.	Rectification was observed during the site audit on 24 Dec 2003.
	07 Jan 2004	Oil stain was observed at the area near one of the generator at site office area (Area W2).	Rectification was observed during the site audit on 14 Jan 2004.
	20 Jan 2004	At site office area (Area W2), the drip-tray for temporary chemical container storage was full of oily water. The Contractor was recommended to clear the drip-tray more frequently.	Rectification was observed during the site audit on 28 Jan 2004.
Permit / License	14 Jan 2004	No environmental permit was observed at the North Portal area. The Contractor was recommended to display the environmental permit at all main entrances.	Rectification was observed during the site audit on 20 Jan 2004.

Status of Environmental Licensing and Permitting

- 5.4 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 A total of seven Action Level exceedances and one Limit Level exceedance were recorded in the reporting quarter.
- 6.2 Action Level exceedances were recorded at AM1 on 19 December 2003 & 2 January 2004, at AM3 on 2 & 6 January 2004 & 24 February 2004 and at AM4 on 19 December 2003 and 2 January 2004. No direct evidence showing that the exceedances were due to the Project. According to the field observations, the exceedances were due to the poor ambient air quality and/or the construction activities from a construction site nearby which did not belong to the Project.
- 6.3 Limit Level exceedance was recorded at AM3 on 19 December 2003. The exceedance were due to the poor local ambient air quality as well as the operation of rollers, excavators and dump trucks at a construction site nearby which did not belong to the Project. Therefore, no further action was required.

24-hr TSP Monitoring

- 6.4 A total of three Action Level exceedances were recorded in the reporting period.
- 6.5 Action Level Exceedances were recorded at AM1, AM3 and AM4 on 13 February 2004. The exceedances were due to the poor air quality as a consequence of regional air pollution over Hong Kong. Therefore, the exceedances were not due to the Project and no further action was required.

Construction Noise Monitoring

- 6.6 A total of three Limit Level exceedances were recorded in the reporting quarter.
- 6.7 Limit Level exceedances were recorded at NM5 on 24 December 2003, 19 January 2004 and 5 February 2004. The exceedances were due to the road traffic noise at Tai Po Road. Therefore, the exceedances were not due to the Project and no further action was required.

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

- 6.8 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.

Summary of Actions Taken

6.9 In this reporting quarter, the following mitigation measures were implemented:

- drip trays for oil storage of oil buckets have been provided;
- excavated/dusty materials have been covered by tarpaulin or water sprayed;
- wheel washing facilities have been provided; and
- frequent watering the work area has been provided.

7 ENVIRONMENTAL COMPLAINTS

7.1 No environmental complaint was received in this reporting quarter.

7.2 There was no complaint received since the Project commencement. All complaints have been handled in accordance with the Updated EM&A Manual. 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 month include:

- Cut slope;
- Haul road construction;
- Vertical drill hole;
- Site establishment;
- Excavation works; and
- Site surveying.

The anticipated environmental impacts will be mainly on dust and noise due to the earthworks and surface runoff in rainy days.