


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)

March to May 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.

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EXECUTIVE SUMMARY

- This is the second 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 March 2004 and May 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:
 - Slope Cut and Fill;
 - Haul road construction;
 - Vertical drill hole;
 - Site establishment;
 - Excavation works;
 - Site surveying;
 - Probing by Jumbo;
 - Preparation for Direction Drill; and
 - Canopy Construction

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 in this reporting quarter.
- A total of two Action Level exceedances and no Limit Level exceedance were recorded in the reporting quarter. The exceedances were recorded at AM3 (Garden Villa) on 24th March and 6th April 2004, respectively. According to the ET's field observations, the major dust sources were due to the construction activities at a site of another project. Therefore, the exceedances were considered not due to the Project and no further action was required.
- No Limit Level exceedance was recorded in the reporting period.

24-hr TSP Monitoring

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

Table I Summary Table for Events Recorded in the Reporting Quarter

Environmental Monitoring				
<i>Parameter</i>	<i>No. of Exceedances</i>		<i>No. of Events Due to the Project</i>	<i>Action Taken</i>
	<i>Action Level</i>	<i>Limit Level</i>		
<i>March 2004</i>				
1-hr TSP	1	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A
<i>April 2004</i>				
1-hr TSP	1	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	1*	0	0	Complaint investigation
<i>May 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 Site Audit				
<i>Parameter</i>	<i>No. of Non-compliance Raised</i>		<i>Action Taken</i>	<i>Status</i>
<i>May 2004**</i>				
Water Quality	1 (by ET)		To be proposed by the Contractor	On-going

* According to the EM&A Manuals, a noise complaint received for the project triggers the Action Level for noise monitoring.

** No non-compliance was identified during the site audits in March and April 2004.

Construction Noise

- Noise monitoring was performed at the four designated locations during the daytime period (0700 to 1900) as schedule in this reporting quarter. Restricted-hour (1900 to 2300 hours on normal day) monitoring was performed for 1 occasion at NM6. No Limit Level exceedance was recorded in the reporting period.
- One public noise complaint was received in the reporting quarter on 26 April 2004, triggering the Action Level exceedance. Complaint investigation was carried out by ET and mitigation measures were proposed by the Contractor to mitigate the noise impact arising from the Project.

Environmental Licensing and Permitting

- Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, three Construction Noise Permits (CNPs) and three Water Discharge Licenses (WDLs). 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	1	Noise	Complaint Investigation	Closed	---
Changes to the assumptions and key construction / operation activities recorded	0	---	N/A	N/A	---
Status of submissions under EP	1	WMP (Rev. E)	Certified by ET and Verified by IEC	Submitted to EPD by HyDs	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

Future Key Issues:

Major site activities for the coming month include:

- Slope Cutting;
- Haul Road Construction;
- Probing by Jumbo;
- Vertical Drill Hole;
- Preparation for Direction Drill;
- Site Establishment;
- Canopy Construction; and
- Excavation works.

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

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 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 second quarterly EM&A report summarizing the EM&A works for the ENT Project between March 2004 and May 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 Period

Item	Work Activity	Month		
		Mar 04	Apr 04	May 04
1.	Slope Cut and Fill	✓	✓	✓
2.	Haul road construction	✓	✓	✓
3.	Vertical drill hole	✓	✓	✓
4.	Site establishment	✓	✓	✓
5.	Excavation works	✓	✓	✓
6.	Site surveying	✓		
7.	Probing by Jumbo		✓	✓
8.	Preparation for Direction Drill		✓	✓
9.	Canopy Construction		✓	✓

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** and **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 two Action Level exceedances and no Limit Level exceedance were recorded in the reporting quarter.
- 4.3 The Action Level Exceedances were recorded at AM3 (Garden Villa) on 24th March and 6th April 2004, respectively. According to the ET's filed observations, the major dust sources on the two days were due to the operation of excavators, dump trucks and lorry at a construction site nearby which was not the site of the Project. Therefore, both exceedances were considered not due to the Project and no further action was required.
- 4.4 The exceedances recorded in the reporting quarter and the associated actions taken are summarized in **Appendix J**.

24-hr TSP Monitoring

- 4.5 All 24-hr TSP monitoring was conducted as scheduled and no Action/Limit Level exceedance was recorded in the reporting period.
- 4.6 The monitoring data of 1-hr and 24-hr TSP Levels are attached in the appendices of the Monthly Reports for March to May 2004. The graphical presentations of the monitoring results are shown in **Appendix E**.

Construction Noise

- 4.7 Noise monitoring was performed at the four designated locations during the daytime period (0700 to 1900) as schedule in this reporting quarter. Restricted-hour (1900 to 2300 hours on normal day) monitoring was performed for 1 occasion at NM6. No Limit Level exceedance was recorded in the reporting period.
- 4.8 One Action Level exceedance was recorded in the reporting quarter due to the public noise complaint received. The details of the complaint could refer to Section 7 and **Appendix I**.
- 4.9 The major noise sources identified at the other designated stations were also traffic noise.

- 4.10 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**.
- 4.11 The monitoring data of construction noise are attached in the appendices of the Monthly Reports for March to May 2004. The graphical presentations of the monitoring results are shown in **Appendix F**.
- 4.12 Construction noise exceedances recorded in the reporting quarter and the associated actions taken are summarized in **Appendix J**.

Table 4.1 Baseline Noise Levels at Each Noise Monitoring Station

Station	Baseline Noise Level, dB(A)		
	0700-1900 on weekdays	1900-2300 on weekdays / 0700-2300 on holidays	2300-0700 on any days
NM1 - Yew Chung International School / PKL Choi Kai Yau School	61.5	60.3	58.3
NM5 – Villa Carlton	77.1	75.8	71.9
NM6 – Government Quarters	70.1	56.1	52.8
NM7 – Garden Villa	59.0	58.3	50.6

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 3rd, 10th, 17th, 24th and 31st March 2004; 7th, 14th, 21st and 28th April 2004; and 5th, 12th, 19th and 27th May 2004. IEC's monthly site audits were conducted on 3rd March 2004, 7th April 2004 and 5th May 2004 together with ET.

5.3 During site inspections in the reporting period, one non-compliance was identified during the site audit on 27th May 2004, regarding muddy water discharge at Mui Kong Tsuen. The details of the non-compliance are summarized in **Appendix K**.

5.4 The other observations and recommendations made during the site audits in this reporting quarter are summarized in **Table 5.1**.

Table 5.1 Observations and Recommendations of the Site Audits

Parameters	Date	Observations	Remedial Actions
<i>Air Quality</i>	10 Mar 2004	At Mui Kong Tsuen, no water spraying was provided during the operation of excavator.	Rectification was observed during the site audit on 17 Mar 2004.
	10 Mar 2004	Dry exposed slope was observed at Mui Kong Tsuen. The Contractor was reminded to water the slope more frequently or cover it by tarpaulin.	Rectification was observed during the site audit on 17 Mar 2004.
	10 Mar 2004	At North Portal, no water spraying was provided during the operation of breaker (backhoe).	The Contractor rectified the problem immediately.
	10 Mar 2004	At North Portal, grey smoke emitted from one of the water pump was observed. The Contractor was recommended to rectify the problem.	Rectification was observed during the site audit on 17 Mar 2004.
	21 Apr 2004	At South Portal, dusty materials were observed at the site entrance, which connected to a public road. The Contractor was reminded to clear them as soon as possible.	Rectification was observed during the site audit on 28 Apr 2004.
	28 Apr 2004	At Ventilation Adit, no water was provided for the rock breaking activity using backhoe. The Contractor was recommended to rectify the problem.	Rectification was observed during the site audit on 5 May 2004.

Parameters	Date	Observations	Remedial Actions
<i>Water Quality</i>	24 Mar 2004	The Contractor was recommended to pay attention to the potential surface runoff problem at Mui Kong Tsuen, especially in the coming wet seasons.	---
	31 Mar 2004	At Mui Kong Tsuen, a large silty water ponding was observed after heavy rainfall. Part of the silty water discharged into the nearby nullah due to overflow. The Contractor was recommended to improve the effectiveness of the surface runoff control system.	---
	31 Mar 2004	At North Portal, the surface runoff control system was not properly implemented. The capacity of the existing sedimentation tank was not sufficient to cater for the contaminated surface runoff control system.	Rectification was observed during the site audit on 7 Apr 2004.
	07 Apr 2004	At Mui Kong Tsuen, accumulation of sand and silt were observed inside the catchpits and box culvert. The Contractor was recommended to clear them as soon as possible.	Rectification was observed during the site audit on 14 Apr 2004.
	07 Apr 2004	At Portion E1, potential contaminated surface runoff into the existing stream was observed. The Contractor agreed to provide some preventive measures to avoid such water quality impact.	During the site audit on 21 Apr 04, a sand trap was installed.
	07 Apr 2004	At Mui Kong Tsuen, the Contractor was recommended to clear the sum pit more frequently, in order to prevent sandy water outflow.	Rectification was observed during the site audit on 21 Apr 2004.
	14 Apr 2004	At Mui Kong Tsuen, a large amount of sediment was observed in the nearby nullah (the entrance of the 3-cell box culvert). The Contractor was recommended to clear the sediment as soon as possible, in order to prevent re-suspension of silty particles in such water stream.	Rectification was observed during the site audit on 21 Apr 2004.
	14 Apr 2004	At North Portal, a large water ponding with silty water was observed. The Contractor was recommended to investigate the cause and rectify the problem.	Rectification was observed during the site audit on 21 Apr 2004.
	21 Apr 2004	At South Portal, one of the sedimentation tanks (near the wheel washing bay) was not worked effectively. The Contractor was reminded to rectify the problem.	Rectification was observed during the site audit on 28 Apr 2004.

Parameters	Date	Observations	Remedial Actions
<i>Water Quality</i>	21 Apr 2004	At North Portal, unclear water effluent was observed at the outlet point of the sedimentation tank (Aqua Sed). Visually, such effluent might not meet the requirement stated in the Water Discharge License. The effluent was discharged into a surface drain at a site outside the boundary of the Project. The Contractor was reminded to improve the effectiveness of the system.	Rectification was observed during the site audit on 28 Apr 2004.
	28 Apr 2004	After heavy raining, accumulation of sandy materials was observed along the sides of the nullah at Mui Kong Tsuen. The Contractor was recommended to rectify the problem in order to prevent water quality impact.	---
	28 Apr 2004	At South Portal area, the large sand trap was full of muddy materials. The Contractor was reminded to maintain the effectiveness of the system and clear the muddy materials regularly.	----
	05 May 2004	At Mui Kong Tsuen, sediment accumulation was observed along the sides of the nullah. The Contractor was recommended to clear the sediment in order to prevent the water quality impact.	The situation would be followed up during site audits in Jun 2004.
	05 May 2004	At South Portal, the sedimentation tank for the treatment of wheel washing bay's water did not worked effectively. The Contractor was reminded to improve the system.	Rectification was observed during the site audit on 27 May 2004.
	05 May 2004	The Contractor was recommended to review and implement the surface runoff control system at South Portal.	Rectification was observed during the site audit on 27 May 2004.
	05 May 2004	Potential soil runoff into the outlet of the box culvert at the South Portal area. The Contractor was recommended to rectify the problem	Rectification was observed during the site audit on 12 May 2004.
	12 May 2004	Accumulation of sandy materials in two catch-pits was observed at Mui Kong Tsuen. The Contractor was recommended to clear them as soon as possible.	Rectification was observed during the site audit on 19 May 2004.
	12 May 2004	At Ventilation Adit, the sand trap, which connected to the ultimate water discharge point, did not work effectively. The Contractor was recommended to review and improve the system.	Rectification was observed during the site audit on 27 May 2004.
	27 May 2004	At South Portal, some parts of slope surface were exposed, which could lead to potential surface runoff.	Situation would be followed up during site audits in Jun 2004.

Parameters	Date	Observations	Remedial Actions
<i>Waste/Chemical Management</i>	10 Mar 2004	At Mui Kong Tsuen, the drip-tray for temporary storage of the water pump was full of oily water. The Contractor was recommended to clear it more frequently.	Rectification was observed during the site audit on 17 Mar 2004.
	17 Mar 2004	At North Portal area, the Contractor was reminded to provide a drip-tray or by any other effective mean for one of the drilling machine in order to prevent oil leakage from the plant.	Rectification was observed during the site audit on 24 Mar 2004.
	28 Apr 2004	General refuses were found at the bare ground of North Portal area. The Contractor was reminded to keep the site area tidy.	Rectification was observed during the site audit on 5 May 2004.
	12 May 2004	Stockpiled C&D wastes were observed at the bare ground at Mui Kong Tsuen.	Rectification was observed during the site audit on 19 May 2004.
<i>Permit/License</i>	17 Mar 2004	Expired Construction Noise Permit (CNP) was displayed at the site entrance of Mui Kong Tsuen. The Contractor was recommended to re-new the application, if necessary.	The Contractor removed it immediately
<i>Others</i>	03 Mar 2004	At Mui Kong Tsuen, the Contractor was reminded to improve the effectiveness of the sedimentation system, in order to prevent water quality impact of the nearby nullah.	---
	03 Mar 2004	At North Portal, the Contractor was reminded to complete the wastewater treatment system prior to the commencement of tunnel works.	---
	27 May 2004	Stagnant water was observed at various locations in North Portal. The Contractor was reminded to remove the water to prevent mosquito breeding.	Situation would be followed up during site audits in Jun 2004.

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 A total of two Action Level exceedances and no Limit Level exceedance was recorded in the reporting quarter. The exceedances were recorded at AM3 (Garden Villa) on 24 March and 6 April, respectively. According to the ET's field observations, the major dust sources were due to the construction activities at a site of another project. Therefore, the exceedances were considered not due to the Project and no further action was required.
- 6.2 No Limit Level exceedance was recorded in the reporting period.

24-hr TSP Monitoring

- 6.3 No Action / Limit level exceedance was recorded in the reporting quarter.

Construction Noise Monitoring

- 6.4 No Limit Level exceedance was recorded in the reporting quarter.
- 6.5 One public noise complaint was received in the reporting quarter on 26 April 2004, triggering the Action Level exceedance. Complaint investigation was carried out by ET and mitigation measures were proposed by the Contractor to mitigate the noise impact arising from the Project.

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

- 6.6 During site inspections in the reporting period, one non-compliance was identified during the site audit on 27th May 2004, regarding muddy water discharge at Mui Kong Tsuen. The details of the non-compliance are summarized in **Appendix K**.
- 6.7 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

- 6.8 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 One environmental complaint was received in this reporting quarter. Complaint investigation was carried out by ET and mitigation measures were proposed by the Contractor to mitigate the noise impact arising from the Project.
- 7.2 There was one complaint received since the Project commencement. The complaint has 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 month include:
- Slope Cutting;
 - Haul Road Construction;
 - Probing by Jumbo;
 - Vertical Drill Hole;
 - Preparation for Direction Drill;
 - Site Establishment;
 - Canopy Construction; and
 - Excavation works.
- 9.2 The anticipated environmental impacts will be mainly on dust and noise due to the earthworks and surface runoff in rainy days.