

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)**

June - August 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 third 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 June and August 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-boring works;
 - Drainage works;
 - Slope works;
 - Bored piling works;
 - Pile cap construction;
 - Column construction;
 - Soil nail installation;
 - Bulk excavation;
 - Trial trench excavation; and
 - Retaining wall 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. 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 construction noise monitoring was conducted at scheduled in this reporting quarter. No Limit Level exceedance was recorded in this reporting month. A public noise complaint was received by ET Leader on 9th August 2004, triggering the Action Level for construction noise. Complaint investigation has been carried out by the ET and the complaint was not associated with the construction works of the Project.

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>June 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>July 2004</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	
<i>August 2004</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	1 [#]	0	0	Complaint Investigation

Note: [#]According to the EM&A Manuals, noise complaint for the project triggered the Action Level for noise monitoring.

Environmental Licensing and Permitting

- Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Construction Noise Permit (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	1	Noise	Complaint Investigation	Closed	The Complaints were not associated with the project works.
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	---
<u>Future Key Issues:</u>					
Major site activities for the coming quarter include:					
<ul style="list-style-type: none"> • Utility diversion; • Pre-drilling works; • Slope works; • Bored piling works; • Pile cap construction; • Column construction; • Retaining wall construction; • Trial trench excavation; • Bulk excavation; and • Soil nails installation 					
The anticipated environmental impacts will be mainly on dust from slope works and noise from pile cap construction.					

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 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 third quarterly EM&A report summarizing the EM&A works for the LCKV Project between June and August 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		
		Jun 04	Jul 04	Aug 04
1.	Utility diversion	✓	✓	✓
2.	Pre-boring works	✓	✓	✓
3.	Drainage works	✓	✓	✓
4.	Slope works	✓	✓	✓
5.	Bored piling works	✓	✓	✓
6.	Pile cap construction	✓	✓	✓
7.	Column construction		✓	✓
8.	Soil nail installation		✓	✓
9.	Bulk excavation			✓
10.	Trial trench excavation			✓
11.	Retaining wall construction			✓

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 June 2004 to August 2004. The graphical presentations of the monitoring results are shown in **Appendix E**.
- 4.5 Exceedances of 1-hr TSP and 24-hr TSP recorded in the reporting quarter and the associated actions taken are summarized in **Appendix J**.

Construction Noise

- 4.6 All construction noise monitoring was conducted during the daytime period (0700 to 1900) as scheduled in this reporting quarter.
- 4.7 Stations NM8a and NM8b were newly installed at Nob Hill in May 2004. Station NM8b is located at 3/F of the car park of Nob Hill, which is strongly influenced by traffic noise from Ching Cheung Road. The measurement at this station is for reference purpose, but not for compliance check of construction noise. The measured noise level at Station NM8a, which is located at M/F of car park and closer to the construction site, acts as an indicator of the construction noise. Since the domestic premises are located above 5/F, noise assessment would be performed to assess the level of nuisance resulting from the construction noise at the domestic premises whenever the measured noise level at NM8a exceeds the noise limit level.
- 4.8 One Action Limit exceedance was recorded in this reporting quarter due to the public noise complaint received on 9th August 2004. The details can refer to Section 7 and **Appendix I**.

- 4.9 The major noise source identified at the designated stations was road 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**.

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

Station	Baseline Noise Level, dB(A)
NM2 - Lai Chi Kok Reception Centre	68.4
NM3 - Lai Chi Kok Hospital	61.4
NM4 - Mei Foo Sun Chuen	73.8

- 4.11 The monitoring data of construction noise are attached in the appendices of the Monthly Reports for June to August 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 2nd, 10th, 16th, 23rd and 30th June 2004, 8th, 14th, 20th and 28th July 2004, 4th, 12th, 18th and 24th August 2004. IEC's monthly site audits were conducted on 10th June 2004, 8th July 2004 and 12th August 2004 together with ET. An ad-hoc site inspection was also performed by IEC on 24th July 2004.
- 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-Jun-04	It was observed that silty water was discharged into a U-channel near A1&A2 pile cap. The Contractor was reminded to improve the treatment system.	Rectification was observed during the site audit on 10-Jun-04.
	02-Jun-04	No wheel washing facility was provided at the site entrance of Mui Kong Tsuen. The Contractor agreed to install the facility by next week.	Rectification was observed during the site audit on 10-Jun-04.
	10-Jun-04	The Contractor was recommended to improve the de-silting system in the nullah besides Pier 12.	Rectification was observed during the site audit on 08-Jul-04.
	10-Jun-04	Exposed slope surface was observed at Slopes S1, S2 & S3. The Contractor was recommended to cover them.	Rectification was observed during the site audit on 16-Jun-04.
	10-Jun-04	The Contractor was recommended to pave the access road exiting from the wheel washing bay at Pier 18L in Mui Kong Tsuen.	Rectification was observed during the site audit on 16-Jun-04.
	10-Jun-04	The Contractor was recommended to seal the bottom of profile barriers and provide a sandbag barrier around the site at Pier 18R.	Rectification was observed during the site audit on 16-Jun-04.
	16-Jun-04	The Contractor was reminded to clear the accumulated sediments in the nullah at Portion W, particularly the section besides Pier 12. The Contractor agreed to rectified the situation by the end of June 2004.	Rectification was observed during the site audit on 08-Jul-04.

Parameters	Date	Observations and Recommendations	Remedial Actions
<i>Water Quality</i>	16-Jun-04	Potential surface runoff discharged into the nullah was observed near Pier 14. The Contractor was recommended to improve the surface runoff control measures there.	Rectification was observed during the site audit on 30-Jun-04.
	16-Jun-04	The Contractor was reminded to avoid stand water at Nob Hill (D12). Immediate actions were taken by the Contractor as observed during the audit session.	Immediate actions were taken by the Contractor as observed on 16-Jun-04.
	23-Jun-04	Sand runoff and accumulated inside u-channel was observed at Lai Po Road (along side of abutment A to A2). The Contractor was reminded to clear it as soon as possible.	Immediate actions were taken by the Contractor as observed on 30-Jun-04.
	23-Jun-04	Floating Refuses were observed on the nullah at Wan Man Tsuen Box Culvert.	Immediate actions were taken by the Contractor as observed on 30-Jun-04.
	23-Jun-04	A broken manhole cover was observed near Pier A3. The Contractor was reminded to replace it as soon as possible.	Immediate actions were taken by the Contractor as observed on 30-Jun-04.
	30-Jun-04	The Contractor was recommended to provide a sand-bag barrier or other measures along the U-channel near Pier A1L.	Rectification was observed during the site audit on 08-Jul-04.
	08-Jul-04	Accumulation of silt in the ditch channel was observed at Pier 14. The Contractor was recommended to clear the silt more frequently and after rainstorm.	Rectification was observed during the site audit on 14-Jul-04.
	08-Jul-04	A sandbag barrier was set up by the Contractor along the U-channel in Abutment A. The Contractor was recommended to extend the barrier along the U-channel.	Rectification was observed during the site audit on 14-Jul-04.
	24-Jul-04	No surface runoff collection channel and desilting pit was provide at he Miu Kong Tsuen area P17L.	Rectification was observed during the site audit on 28-Jul-04.
	24-Jul-04	Silty water discharge from the sedimentation tank was found at P5R and P6.	Rectification was observed during the site audit on 28-Jul-04.
	28-Jul-04	Accumulation of silt in the ditch channel was observed at Slope S1. The Contractor was reminded to clear the silt more frequently and after rainstorm.	Rectification was observed during the site audit on 04-Aug-04.
	04-Aug-04	Silty water generated from the grouting process at Pier A1 was discharged into a U-channel, which was connected to public drains. The Contractor was reminded to provide adequate de-silting facility for the discharge water before disposal.	Rectification was observed during the site audit on 12-Aug-04.

Parameters	Date	Observations and Recommendations	Remedial Actions
Water Quality	12-Aug-04	Ponding of silty water was observed on ground at Pier 11 near the wheel-washing bay. The Contractor was recommended to remove the water to prevent it overflowing to the nullah.	Rectification was observed during the site audit on 18-Aug-04.
	12-Aug-04	At Pier 14, silty water was discharged into the nullah via 2 sedimentation tanks. The Contractor was reminded to improve the de-silting system.	Rectification was observed during the site audit on 18-Aug-04.
	12-Aug-04	The Contractor was recommended to provide additional sand bag barrier at Pier 14.	Rectification was observed during the site audit on 24-Aug-04.
	12-Aug-04	The Contractor was reminded to review the surface runoff control measure at the site entrance of Pier B2.	Rectification was observed during the site audit on 18-Aug-04.
	18-Aug-04	At Pier P11, silty water was discharged into the box culvert via 1 sedimentation tank. The Contractor was reminded to upgrade the de-silting system as soon as possible.	Rectification was observed during the site audit on 24-Aug-04.
	24-Aug-04	The Contractor was reminded to review the surface runoff control systems at Abutment CA1 (Nob Hill area) and Slope S3.	The situation would be followed in Sep-04
Air Quality	02-Jun-04	The Contractor was reminded to shelter the grout mixer, which was located near A1 pile cap, on the top and 3 sides.	Rectification was observed during the site audit on 10-Jun-04.
	30-Jun-04	Stockpiles of materials were not covered properly at Pier A3. The Contractor was reminded to cover the stockpiles properly to prevent dust emission.	Rectification was observed during the site audit on 08-Jul-04.
	08-Jul-04	At Pier C12, some tarpaulin sheet on the fencing at the site boundary facing Nob Hill was damaged and removed. The Contractor was recommended to replace the tarpaulin sheet immediately.	Rectification was observed during the site audit on 14-Jul-04.
	14-Jul-04	Excessive smoke emission from a crawler crane was observed at Pier B2. The Contractor was reminded to use well-maintained plants on site.	Rectification was observed during the site audit on 20-Jul-04.
	20-Jul-04	Excessive smoke emission from an air compressor was observed at Abutment CA1. The Contractor was reminded to use well-maintained plants on site.	Rectification was observed during the site audit on 28-Jul-04.
	24-Jul-04	Stockpile without entirely covered by tarpaulin sheet was observed at P5R.	Rectification was observed during the site audit on 28-Jul-04.
	18-Aug-04	Dark smoke emission from a power pack was observed at Pier P5R. The Contractor was recommended to use well-maintained plants on site.	Rectification was observed during the site audit on 24-Aug-04.

Parameters	Date	Observations and Recommendations	Remedial Actions
Noise	10-Jun-04	No valid Noise Emission Label (NEL) was affixed on the air compressor at Pier A1. The Contractor was reminded to provide the label as soon as possible.	Rectification was observed during the site audit on 16-Jun-04.
Chemical and Waste Management	02-Jun-04	Oil leakage from a power pack was observed at Pier 5L.	Rectification was observed during the site audit on 10-Jun-04.
	30-Jun-04	Several oil drums were placed on bared ground at Pier 1R. The Contractor was reminded to provide drip tray for the drums.	Rectification was observed during the site audit on 08-Jul-04.
	08-Jul-04	Some rubbish was observed on the nullah near Pier 14 in Wai Man Tsuen. The Contractor was reminded to remove the rubbish as soon as possible.	Rectification was observed during the site audit on 14-Jul-04.
	20-Jul-04	The Contractor was reminded to provide proper labels for the waste oil drums near Pier P3L.	Rectification was observed during the site audit on 28-Jul-04.
	24-Jul-04	Oil stain on ground from the RCD was found at P5R.	Rectification was observed during the site audit on 28-Jul-04.
	12-Aug-04	Oil leakage from a power pack was observed at Abutment CA1.	Rectification was observed during the site audit on 18-Aug-04.
	18-Aug-04	Accumulation of oily water was observed in a drip tray at Pier B1. The Contractor was reminded to remove the water as soon as possible.	Rectification was observed during the site audit on 24-Aug-04.
Others	14-Jul-04	Stagnant water was observed near a generator at NECO's workshop area. The Contractor was reminded to remove the water as soon as possible to prevent mosquito breeding, though no mosquito larvae was observed.	Larviedes spraying was performed by the Contractor immediately as an interim measure.

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 All construction noise monitoring was conducted as scheduled in this reporting quarter. A public noise complaint was received by ET Leader on 9th August 2004, triggering the Action Level for construction noise. Complaint investigation has been carried out by the ET and the complaint was not associated with the construction works of the Project.

- 6.4 No Limit Level exceedance was recorded in this reporting quarter.

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

- 6.5 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

- 6.6 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 by EPD 22nd July 2004, regarding construction noise and dust in Ching Cheung Road area near Nob Hill. EPD subsequently referred the complaint to the ET Leader on 9th August 2004. Complaint investigation was undertaken by ET. The complaint investigation report, which was submitted to EPD, concluded that the complaint was considered not due to the construction activities of the Project.
- 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;
 - Pre-drilling works;
 - Slope works;
 - Bored piling works;
 - Pile cap construction;
 - Column construction;
 - Retaining wall construction;
 - Trial trench excavation;
 - 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.