

Contract No. GE/2013/06

**Landslip Prevention and Mitigation
Programme, 2008, Package J**

**Landslip Prevention and Mitigation
Works in New Territories**

**Above Leung Fai Tin along Clear Water
Bay Road, Sai Kung**

Study Area: 12/NW-C/SA1 (Study Area H)

Independent Environmental Checker (IEC)

Monthly Audit Report No. 4

1 May to 31 May 2014

182663/B&V/004/Issue 1

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June 2014

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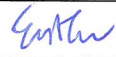


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	<i>Name</i>	<i>Signature</i>	<i>Date</i>
Prepared	Esther TONG		3 Jun 2014
Checked	Manuel CHUA		3 Jun 2014
Reviewed / Authorised	N SONG		3 Jun 2014

1. INTRODUCTION

1.1 Background and Project Description

1.1.1 Geotechnical Engineering Office (GEO) of the Civil Engineering and Development Department has identified about 2700 natural hillside catchments with a known history of landslides close to existing buildings and important transport corridors based on interpretation of large-scale historical aerial photographs. Natural hillside catchments affecting individual units of existing development are further grouped into different Study Areas designated for natural terrain hazard studies by GEO.

1.1.2 The natural hillside, Study Area No. 12NW-C/SA1, at Leung Fai Tin above Clear Water Bay Road in Clear Water Bay Peninsula, includes a number of hillside catchments which warrant high priority for natural terrain hazard study and mitigation actions. The location and the extent of the Study Area are shown in **Figure 1**.

1.1.3 The natural hillside within the Study Area has been disturbed since 1940s, and there were 3 landslides identified to have occurred on the natural hillside in 1970s. A detailed natural terrain hazard study concluded that the natural hillside within the Study Area is highly susceptible to landslide failures and the landslide debris would travel downslope and be channelised along the stream course reaching Clear Water Bay Road and the village houses at Leung Fai Tin.

1.1.4 Hence, natural terrain hazard mitigation works (HMW) are required at the lower portion of the Study Area (hereinafter referred to as the "Works Area") to mitigate the potential hazards arising from natural terrain open hillslope landslides, boulder falls and channelised debris flows at the Study Area affecting Clear Water Bay Road and village houses at Leung Fai Tin downhill. The proposed natural terrain HMW includes erection of tensioned steel mesh fences (also known as flexible barrier), construction of masonry maintenance staircases and associated landscape treatments at the Works Area. The extent of the Works Area has been carefully considered to limit the extent of proposed works, necessary working space and the site access.

1.2 Types of Designated Project

1.2.1 The Natural Terrain Hazard Mitigating Works at Study Area No. 12NW-C/SA 1 above Leung Fai Tin along Clear Water Bay Road, Sai Kung is referred as "Designated Project" (DP) which includes the works area of the Project falls within a Conservation Area under the approved Clear Water Bay Peninsula South Outline Zoning Plan No. S/SK-CWBS/2 and Item Q.1 Part 1 of Schedule 2 under the Environmental Impact Assessment Ordinance (EIAO). The Project Profile (Register No. PP-480/2013) was submitted for directly application of Environmental Permit (EP) on 18 March 2013. Environmental Protection Department (EPD) granted the EP (EP No.: EP-448/2013) to the GEO/Civil Engineering and Development Department (hereinafter referred to as the "Client") in 10

April 2013 to construct the Designated Project (EP) under the Environmental Impact Assessment Ordinance (EIAO).

- 1.2.2 According to the EP Specific Condition Clause 2.5, the Permit Holder shall employ an Independent Environmental Checker (IEC) to audit the implementation of all mitigation measures recommended in the Project Profile and the approved Landscape and Compensatory Planting Plan, and to certify in writing in the monthly audit report full implementation of the mitigation measures during and upon completion of the construction works. The IEC shall not be in any way an associated body of the Contractor of the Project.

1.3 Location and Scale of Project

- 1.3.1 The proposed HMW will be constructed within the Works Area at the lower portion of the Study Area No. 12NW-C/SA1 above Clear Water Bay Road, Leung Fai Tin in Clear Water Bay Peninsula. The Works Area is located within a Conservation Area. Extent of the Works Area is approximately 6,000m² and the project comprises as follows:
- a. Erect about 250m long, 5m-6m high flexible barrier supported by vertical and raking steel bar anchors (about 120 nos.) to be drilled and installed in ground.
 - b. Construct of 300m long, 600mm wide masonry maintenance access with handrails
 - c. Provision of soft landscape works includes pit-planting of native/shrub seedlings, plant of climbers and hydroseeding.

1.4 Organisation and Reporting Schedule

- 1.4.1 CEDD commissioned CH2M HILL Halcrow China Limited (CHMHC) as the Engineer. The Contractor of the Project is Kwan On Construction Co. Ltd (KOCCL). Black & Veatch Hong Kong Limited (B&V) was appointed as Independent Environmental Checker (IEC) on 10 February 2014. This Report covers the period from 1 May 2014 to 31 May 2014.

2. PROGRESS OF THE CONTRACT

2.1 Status of the Environmental Licence and Permits

2.1.1 Table 2-1 presents a summary of the status of environmental licenses and permits for this Contract.

Table 2-1 Status of Environmental Permit

Type of Licence	Permit/License No.	Issue Date	Covered Area	Validity	Status
Environmental Permit	EP-448/2013	10 April 2013	Study Area No. 12NW-C/SA1 above Leung Fai Tin along Clear Water Bay Road, Sai Kung	Whole Project	Valid

2.2 Progress of the Construction Works

2.2.1 The construction work of the Project has been commenced on 15 January 2014. During the reporting period, no construction work was being carried out during the site inspection. Erection of site hoarding is in progress and will be carried out during the coming reporting month (Photos 1 to 2).

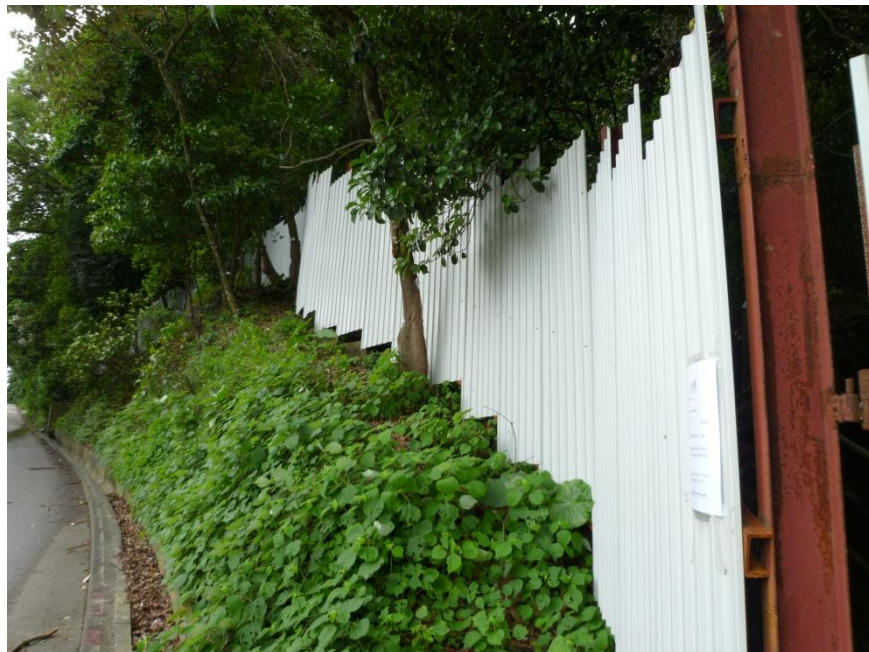


Photo 1 View from Outside the Project Boundary



Photo 2 Internal View of Site Hoarding along the Project Boundary

- 2.2.2 No flexible barrier is built across the stream within the Works Area at present stage (Photo 3).



Photo 3 Existing Stream Condition within the Project Site

2.3 Summary of Site Inspection and Audit

- 2.3.1 Site preparation works including erection of site hoarding and setting up the flexible barrier alignment within the Project Site were being carried out. No tree felling or tree damage was recorded. The Contractor is reminded to position the flexible barrier and site hoarding away from trees as far as practical with provision of buffer zone and tree wrapping to all protected trees.
- 2.3.2 Excavation works for flexible barrier and the maintenance staircase shall be avoided as far as practicable during rainy season to prevent silty runoff. The Contractor is reminded to provide the protective measures recommended in the Project Profile (as shown below) to reduce possible silty runoff during the construction phase:
- a. The maintenance access will not be built within the stream in order to avoid disturbance to the stream bed;
 - b. An opening of at least 0.5 m will be allowed between the stream bed and the bottom of the flexible barrier;
 - c. Position of the anchors will be adjusted on site away from the stream to avoid drilling at the stream; and
 - d. The maintenance access and anchor will not be built at the stream.
- 2.3.3 During the reporting period, one IEC joint site inspection with KOCCL was conducted on 22 May 2014. Erection of site hoarding was in progress during the reporting month. Protective tree wrapping on retained trees along the site hoarding were observed and provided. No non-compliance and observation was identified. No follow-up action is required.

2.4 Summary of Complaints and Prosecutions

- 2.4.1 No environmental complaint was recorded in the reporting period.
- 2.4.2 No prosecution was recorded in the reporting month.
- 2.4.3 No violation of the environmental permit of the Contract as listed in Table 2-1 was recorded during the reporting month.
- 2.4.4 The update statistical summary of complaint is presented in Table 2-2.

Table 2-2 Status of Complaints and Prosecution

Reporting Period	Complaint Statistics		Area of Concern	Validity	Status
	Number	Cumulative			
1 st May 2014 – 31 st May 2014	0	0	-	-	-

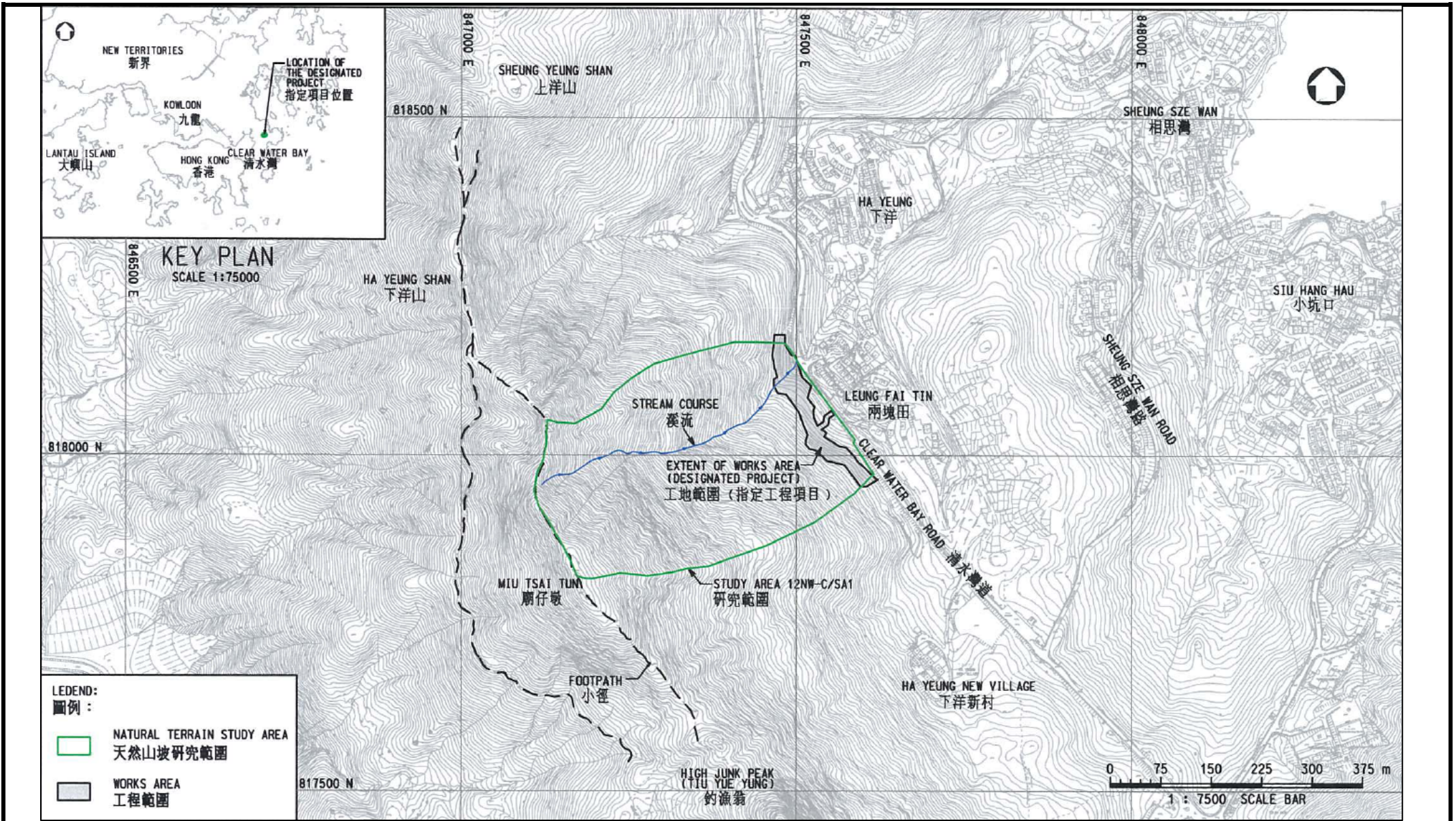
3. CONCLUSIONS

- 3.1.1 During the reporting period, no construction work was carried out. Erection of site hoarding was in progress this month.
- 3.1.2 No environmental complaint was received in the reporting month. No summon or prosecution related to the environmental issues was made against the Project in the reporting month.

4. RECOMMENDATIONS

- 4.1.1 The Contractor was reminded to implement the relevant mitigation measures as stated in the Environmental Permit and the Contract to prevent any non-compliance throughout the construction period.

Figure



Project Title : Natural Terrain Hazard Mitigation Works at Study Area No. 12NW-C/SA1
 above Leung Fai Tin along Clear Water Bay Road, Sai Kung
 工程項目名稱: 西貢清水灣道兩塊田天然山坡研究地區編號 12NW/C/SA1
 天然山坡災害緩減工程
 Environmental Permit No. : EP-448/2013
 環境許可證編號 : EP-448/2013

Figure 1 : Location of the Project

圖 1 : 工程項目位置

(This figure was prepared based on Figure 1 of the Project Profile (Register No.: PP-480/2013))
 (本圖是根據工程項目簡介(登記冊編號: PP-480/2013) 圖1 編製)

Appendix A Environmental Inspection Checklist

Project: Contract No. GE/2013/16
Leung Fai Tin along Clear Water Bay Road
Study Area: 12NW-C/SA1 (Study Area H)

Inspection Date: 22 May 2014

Time: 2:00 pm - 3:00 pm

Checklist Number: GE/2013/16_No. 4

Inspected by: Ms. Esther Tong

IEC's Representative: Ms. Esther Tong

RE's Representative: ~~Mr. Joe Nam~~

ET's Representative: -

Contractor's Representative: Mr. Roy Leung

PART A: GENERAL INFORMATION

Weather: Sunny Haze Cloudy Rainy Fine

Temperature: 28 °C

Humidity: High Moderate Low

Wind: Strong Breeze Light Calm

Major Construction Works Observed

No construction has been conducted. Erection of site hoarding is in progress.

PART B: SITE AUDIT

Note:	N/A	Yes	Follow Up	N/C	Photo/Remarks
N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-up actions					

Section 1: Construction Noise

1.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.02	Is silenced equipment adopted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.03	Is idle equipment turned off or throttled down?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.04	Are plant and equipment kept to a minimum?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.05	Is parallel use of noisy equipment / machinery avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.06	Are all plant and equipment well maintained and in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.07	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.08	Are hand held breakers fitted with valid noise emission labels during operation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.09	Are air compressors fitted with valid noise emission labels during operation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10	Are flaps and panels of mechanical equipment closed during operation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.11	Are Construction Noise Permit(s) applied for general construction works during restricted hours?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12	Are valid Construction Noise Permit(s) displayed on the construction site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Checklist Number: GE/2013/16_No. 4

Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
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Section 2: Air Quality

2.01	Are the excavated materials sprayed with water during handling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.02	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.03	Is the exposed earth properly treated within six months after the last construction activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.04	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.05	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.06	Are there any fencing provided along the site boundary, which adjoins areas accessible to the public?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
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Section 3: Water Quality

3.01	Is the discharge of turbid water avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.02	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.03	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.04	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.05	Are the maintenance access and/or anchor built within the stream?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.06	Are temporary exposed slopes properly covered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.08	Are earthworks final surfaces well compacted or protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.09	Are there any procedures and equipment for rainstorm protection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.10	Are the vehicle and plant servicing areas paved and located within roofed areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.11	Is the oil leakage or spillage avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.12	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.13	Are the oil interceptors/grease traps maintained properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14	Concreting wastes water should be neutralized below the pH Action Levels before discharge.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.15	Mobile toilets should provide on-site and located away the stream course.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.16	License collector should be employed for handling the sewage of mobile toilet.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Checklist Number:

GE/2013/16_No. 4

Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
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Section 4: Ecology

4.01	Are the maintenance access and/or anchor built within the stream?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.02	Is there any opening (at least 0.5m allowed) between the stream bed and the bottom of the flexible barrier provide?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.03	Are protected plants species are retained in-situ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.04	Is there any tree pruning to damage the preserved trees?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.05	Are all <i>Aquilaria sinensis</i> (85 nos.) and <i>Pavetta hongkongensis</i> (10 nos.) retained in-situ and fenced off?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.06	Are there any tagged provided at retained in-situ trees?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.07	Are all retained trees closed to the construction works providing protective wrapping properly to minimize the damage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.08	Are only 25 nos. of non-protected trees are felled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.09	Are any native light standard trees provided as compensatory planting (ratio 1:3)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.10	Are the proposed compensatory trees planting native and shade-tolerant trees species according to the recommendation of Project Profile?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.11	Is the positioning the alignment has minimum 1.5m in radius away from the alignment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.12	Any induction training course to all site personnel (both supervision staff and workers) to brief the persevered trees location and importance?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.13	Any adjustment of the foundation of flexible barriers and staircases to avoid the damage of root systems of existing trees?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.14	Is there any re-vegetation area to compensate the temporary loss of 200m ² (due to temporary access) understorey area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.15	Is there any re-vegetation area to compensate the permanent loss of 200m ² (due to maintenance access and anchor) understorey area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
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Section 5: Landscape and Visual

5.01	Is the landscape design including the compensatory planting follow GEO Publication No. 1/2011?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.02	Is there any erecting of hoarding to minimize the unsightly construction activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.03	Is the hoarding with decorative panels with patterns of vegetation mature trees below the hoardings for nature screening) to minimize the visual impact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.04	Any utilization of existing trees located in front of the flexible barrier as natural screening?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.05	Any provision Pit-planting of native light standard trees and planting of climbers in front of the fence to provided screening effect?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.06	Is the dark colour of the flexible barrier used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

		Checklist Number:				GE/2013/16_No. 4
Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/Remarks
5.07	Are the concrete footing of the anchor and the handrails along the maintenance access painted with sub-due colour as far as practical?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.08	Are the maintenance accesses apply masonry finished to blend with surroundings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Section 6: Waste Management						
6.01	Has the Waste Management Plan prepared according to ETWB TC(W) No. 19/2005 and submit to Engineer?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.02	Are receptacles available for general refuse collection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.03	Is general refuse sorting or recycling implemented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.04	Is general refuse disposed of properly and regularly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.05	Is the Contractor registered as a chemical waste producer?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.06	Are the chemical waste containers properly labelled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.07	Are the chemical wastes stored in proper storage areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.08	Is the chemical waste storage area properly labelled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.09	Is the chemical waste storage area used for storage of chemical waste only?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.10	Are incompatible chemical wastes stored in different areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.11	Are the chemical wastes disposed of by licensed collectors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.12	Are trip tickets for chemical wastes disposal available for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.13	Are chemical/fuel storage areas bunded?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.14	Are designated areas identified for storage and sorting of construction wastes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.15	Are construction wastes sorted (inert and non-inert) on site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.16	Are construction wastes reused?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.17	Are construction wastes disposed of properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.18	Are site hoardings and signboards made of durable materials instead of timber?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.20	Are appropriate procedures followed if contaminated material exists?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.22	Site cleanliness and appropriate waste management training had provided for the site workers.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Checklist Number: GE/2013/16_No. 4

Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
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Section 7: Licence

7.01	Is relevant Environmental Permit posted at all vehicle site entrances/exits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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Section 8: Follow-up of the previous monthly environmental audit on date X (Checklist No. GE/2013/16_No.)

Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
8.01	Is the situation in item _____ improved / rectified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.02	Is the situation in item _____ improved / rectified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.03	Is the situation in item _____ improved / rectified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.04	Is the situation in item _____ improved / rectified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.05	Is the situation in item _____ improved / rectified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Checklist Number: GE/2013/16_No. 4

Remarks / Observations:

N/A

Signature:

IEC's Representative

RE's representative

ET's representative

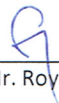
Contractor's representative



Name: Ms. Esther Tong

Name: Mr. Joe Nam

Name:


Name: Mr. Roy Leung

Date: 22 May 2014

Date: 22 May 2014

Date:

Date: 22 May 2014

Checklist Number:

GE/2013/16_No. 4

Observation (O) or Reminder (R) during site inspection on 22 May 2014.

N/A

By POST

OUR REF 182663-007

YOUR REF

DATE **3 June 2014**

Kwan On Construction Co Ltd
3E, Yiko Industrial Building
10, Ka Yip Street
Chai Wan, Hong Kong

For the attention of Mr Aman WONG / Mr. Roy LEUNG

Dear Sir,

CEDD Contract No. GE/2013/06

Landslip Prevention and Mitigation Programme, 2008, Package J, Landslip Prevention and Mitigation Works in New Territories - Above Leung Fai Tin along Clear Water Bay Road, Sai Kung - Study Area No.: 12NW-C/SA1 (Study Area H)
Independent Environmental Checker (IEC) Monthly Report No. 4

... According to Environmental Permit (EP-448/2013) Specific Condition Clause 2.5, we are pleased to submit an IEC Monthly Report No. 4 (1 May to 31 May 2014) for your record. IEC Monthly Reports are enclosed for your internal record (1 copy) and onward submission to Environmental Protection Department (2 copies and 1 electronic copy).

Should you have any queries, please feel free to contact Ms Esther Tong at 2608-7379.

Yours faithfully,
for and on behalf of
BLACK & VEATCH HONG KONG LIMITED



 **KELVIN N.F. LAU**
DIRECTOR

ET
Encl.

cc. CH2M HILL Halcrow China Limited Attn: Mr. Joe Nam [without encl.]
GE/CM43, LPM Division 2, GEO Attn: Mr. Harris Lam [without encl.]

ET/MC/AK/KL/182663/14.2100



ISO 14001 : 2004



ISO 9001 : 2008

Certificate No.: HKG6017620

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