



Environmental Permit (No. EP-537/2017)

19 November 2018

The EIA Ordinance Register Office. Environmental Protection Department. 27th floor, Southorn Centre, 130 Hennessy Road, Wanchai, Hong Kong

By Hand & Fax (fax no. 2591 0558)

Attn: Director of Environmental Protection

Dear Sir/ Madam.

Expansion of Research and Residential Facilities for The Swire Institute of Marine Science, Faculty of Science, The University of Hong Kong at Cape d' Aguilar, Shek O, Hong Kong Submission of Monthly Environmental Monitoring and Audit Report No.13

Planners and Designers

Refer to the Environmental Permit No. EP-537/2017 under Environmental Impact Assessment Ordinance (Chapter 499) Section 10.

We are pleased to submit three hard copies and three electronic copies of the monthly environmental monitoring report certified by the IEC in responded to the Specific Conditions 2.3 of the Environmental Permit (No. EP-537/2017).

Should you have any queries, please feel free to contact our Mr Cliff lp at 2957 9611.

Thank you for your attention.

Yours faithfully For and on behalf of Percy Thomas Partnership (HK) Ltd.

Vetus T C Lau **Authorized Person**

VL/CI/31122(1)31.3/ Z000700 P:\31122 Swire Institute of Marine Science\Correspondence\Letter\EPD\2018-11-19 IEC report.docx

Encl. CC The University of Hong Kong

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MONTHLY ENVIRONMENTAL MONITORING AND AUDIT

(EM&A) REPORT (NO. 13)

FOR

Expansion of Research and Residential Facilities for the Swire Institute of Marine Science, The University of Hong Kong at Cape D'Aguilar, Shek O

(**Rev. 0**)

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT (EM&A) REPORT (NO.13) -

FOR

EXPANSION OF RESEARCH AND RESIDENTIAL FACILITIES FOR THE SWIRE INSTITUTE OF MARINE SCIENCE

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EXECUTIVE SUMMARY

- A.1 Pursuant to the Environmental Impact Assessment (EIA) Ordinance, the Director of Environmental Protection ("DEP") granted the Environmental Permit (No. EP- 537/2017) to The University of Hong Kong ("HKU") to construct and operate the designated project for "Extension of Academic Block, The Swire Institute of Marine Science, Faculty of Science, The University of Hong Kong, Cape D'Aguilar Road, Shek O" ("The Project").
- A.2 Seemly Building Construction Company Limited ("SBC") was commissioned by HKU to undertake the construction of the extension works until 9 February 2018. Percy Thomas Partnership (HK) Limited ("PTP") was appointed by HKU as the Architect. For implementation of the environmental monitoring and audit (EM&A) requirement under the Project Profile, Acuity Sustainability Consulting Limited("ASC") was appointed by PTP as the Independent Environmental Checker (IEC).
- A.3 The construction phase of the Contract commenced on 6 October 2017 for completion by end of 2018. The environmental site inspections of the EM&A programme commenced on October 2017.
- A.4 Main contract of the project between Seemly SBC and HKU was terminated on 9 February 2018, whole contract period of SBC covered from 28 March 2017 to 9 February 2018. Notification of suspension of works had been submitted to Building Department on 9th February 2018 by PTP. HKU will take up all responsibility of the Contractor until further notice.
- A.5 This is the 13th monthly Environmental Monitoring and Audit Report for this Contract covering the period from 6 October 2018 to 5 November 2018 (the Reporting Period). The contract with SBC was terminated on 9 February 2018, thus no construction activities was conducted in the reporting period.
- A.6 IEC Monthly Environmental Site Audit under the EM&A requirement in this reporting period was conducted on 5 November 2018.
- A.7 No environmental complaint was received via EPD in this reporting period.
- A.8 No notification of any summons and successful prosecutions was received in this reporting period.
- A.9 No reporting change was made in this reporting period.
- A.10 No major works for this Project in November 2018 will be conducted.
- A.11 EM&A monitoring for the 13th reporting period has been completed. The 14th monthly EM&A report will cover the period from 6 November 2018 to 5 December 2018.

1. INTRODUCTION

1.1. PROJECT BACKGROUND

- 1.1.1. Pursuant to the Environmental Impact Assessment (EIA) Ordinance, the Director of Environmental Protection ("DEP") granted the Environmental Permit (No. EP- 537/2017) to The University of Hong Kong ("HKU") to construct and operate the designated project for "Extension of Academic Block, The Swire Institute of Marine Science, Faculty of Science, The University of Hong Kong, Cape D'Aguilar Road, Shek O" ("The Project").
- 1.1.2. Seemly Building Construction Company Limited ("SBC") was commissioned by HKU to undertake the construction of the extension works until 9 February 2018. Percy Thomas Partnership (HK) Limited ("PTP") was appointed by HKU as the Architect. For implementation of the environmental monitoring and audit (EM&A) requirement under the Project Profile, Acuity Sustainability Consulting Limited was appointed by PTP as the Independent Environmental Checker (IEC).
- 1.1.3. Main contract of the project between Seemly SBC and HKU was terminated on 9 February 2018, whole contract period of SBC covered from 28 March 2017 to 9 February 2018. Notification of suspension of works had been submitted to Building Department on 9 February 2018 by PTP. HKU will take up all responsibility of the Contractor until further notice.
- 1.1.4. The construction phase of the Contract commenced on 6 October 2017 for completion by end of 2018. The general layout plan of the Contract components is presented in Appendix A.

1.2. ORGANIZATION STRUCTURE

1.2.1. The organization structure of the Contract is shown in Appendix B. Contact details of key personnel are summarized in below table:

Table 1-1: Key Personnel Contact for Environmental Works

Party	Position	Name	Telephone
The University of	Assistant Director	John Sung	2816 8208
Hong Kong			
Percy Thomas	Senior Architect	Cliff Ip	2957 9611
Partnership (HK) Ltd			
Acuity Sustainability	Independent Environmental	Li, Kevin, W. M.	2333 6823
Consulting Limited	Checker (IEC)		

1.3. SCOPE OF REPORT

- 1.3.1. This is the 13th monthly IEC Report for "Extension of Academic Block, The Swire Institute of Marine Science, Faculty of Science, The University of Hong Kong, Cape D'Aguilar Road, Shek O" covering the period from 6 November 2018 to 5 December 2018 (the reporting period).
- 1.3.2. The EM&A requirements for impact monitoring are set out in the approved Project Profile (Register No. PP-548/2017). All mitigation measures recommended in the Project Profile such as the construction air quality, noise, water quality, waste management, landscape and visual, cultural heritage and ecology were identified as the key issues during the construction phase of the Project.

1.4. SUMMARY OF CONSTRUCTION WORKS

- 1.4.1. The construction phase of the Contract commenced on 6 October 2017.
- 1.4.2. The contract was terminated on 9 February 2018, thus no construction activities was conducted in the reporting period.
- 1.4.3. The locations of the construction activities are shown in Appendix A.

2. EM&A RESULTS

2.1. EM&A BACKGROUND

- 2.1.1. The Environmental Permit (No. EP-537/2017) required Independent Environmental Checker (IEC) to certify the implementation status of mitigation measures in a monthly audit report during the construction of the Project. Environmental site inspection for air quality, noise, water quality, waste management and ecology mitigation measures was conducted on 5 November 2018. A summary of mitigation measure is presented in Table 2-2.
- 2.1.2. The contract between SBC and HKU was terminated on 9 February, 2018. Thus, some of the mitigation measures will not be applicable for this stage. The monitoring checklist is shown in Appendix D.

2.2. ENVIRONMENTAL LICENSES AND PERMITS

2.2.1. The status of environmental license and permit is summarized in Table 2-2 below:

License / Permit	License /	Date of	Date of	License /	Remark
	Permit No.	Issue	Expiry	Permit	
				Holder	
Environmental Permit	EP-537/2017	18/05/2017	N/A	HKU	
Billing Account	Account No.	10/05/2017	-	SBC	
	7027765				
Waste Water Discharge	-	-	-	-	N/A
License					
Chemical Waste Producer	5292-197-S3753	01/12/2017	-	SBC	-
	-02				
Air Pollution Control	Ref. No. 422086	12/10/2017	-	SBC	-
Ordinance					
Construction Noise	-	-	-	-	N/A
Permit					

Table 2-1: Summary of Environmental License and Permit

2.3. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

- 2.3.1. In response to the Project Profile (Registar No. PP-548/2017). The status of the environmental mitigation measures implemented by the Contractor in this Reporting Period was audit on 5 November 2018 and the checklist is showed in Appendix D.
- 2.3.2. The environmental mitigation measures that recommended in the project profile and environmental permit covered the issues of dust, noise, air quality, water, ecology, landscape and visual, cultural heritage and waste management and they are showed Table 2-2.

Issues	Environmental Mitigation Measures		
	- Erection of hoarding of not less than 2.4m high from ground level		
	along the works area that adjoins a road or other area accessible to the		
	public, where appropriate;		
	- The works area of any excavation or earth moving operation shall be		
	sprayed with water to maintain the entire surface wet;		
	- All dusty materials shall be sprayed with water prior to any loading,		
	unloading or transfer operation so as to maintain the dusty materials		
	wet;		
	- Cover stockpile of dusty materials by impervious sheeting or sprayed		
	with water so as to maintain the entire surface wet or removed or		
	backfilled within 24 hours of the excavation or unloading;		
	- Any debris shall be covered entirely by impervious sheeting or stored		
	in a debris collection area sheltered on the top and the 3 sides;		
	- Ultra Low Sulphur Diesel (ULSD i.e. Sulphur content not more than		
Air Quality	0.005%) should be used for all the onsite PME;		
	- Every vehicle shall be washed to remove any dusty materials from its		
	body and wheels;		
	- Where a vehicle leaving the construction works area is carrying a load		
	of dusty materials, the load shall be covered by clean impervious		
	sheeting to ensure that the dusty materials do not leak from the vehicle;		
	- Unpaved road shall be regularly compacted and the road surface shall		
	be kept clear of loose materials;		
	- The speed of all vehicles moving within the Site shall be restricted to		
	minimize fugitive dust emission;		
	- All on-site PME shall be well-maintained and operated in a good		
	manner that no black smoke will be emitted; and		
	- No PME in operation that any black smoke is emitted for more than 6		
	minutes in any period of 4 hours or for more than 3 minutes		
	continuously at any one time.		
	- Care in the placement and orientation of noisy plants away from the		
	NSRs and effective utilization of material stockpiles and other		
	structures in screening noise from the on-site construction activities;		
	- Careful planning of construction sequence;		
	- The operation time of noisy PME should be kept at minimum;		
	- Hoarding will be erected along the site boundary for noise screening		
	purpose;		
	- Only well-maintained plant should be operated on-site and plant should		
Noise	be serviced regularly during the construction program;		
	- All hoods, cover panels and inspection hatches of power mechanical		
	plant such as generator, air compressor etc. should be closed during		
	operation;		
	- Machines and plant (such as trucks) that may be in intermittent use		
	should be shut down between work periods or should be throttled down		
	to a minimum;		
	- Utilization of silencers or mufflers on the construction equipment to		
	reduce noise without impairing machine efficiency,		
	- Contractor shall obtain construction site discharge license from the		
	EPD under WPCO;		
Water	- To prevent sewage from entering the inland water and inshore water,		
	hoardings will be erected along the site boundary. Surface run-off from		
	construction site shall be treated via adequately designed sand/silt		

Table 2-2: Environmental Mitigation Measures

Issues	Environmental Mitigation Measures		
	removal facilities such as sand traps, silt traps and sedimentation ta		
	or STP first to prevent sewage from entering the inland water and		
	inshore water, and then collected by licensed collector and discharged		
	off site;		
	- The vehicle washing bay shall be located on paved area and away from		
	the sensitive receivers and provided with a suitable backfill to prevent		
	the site run-off from entering the public roads;		
	- All water used on site shall be re-circulated and re-used for beneficial		
	uses as dust suppression, wheel washing and general cleaning;		
	- Online standby water sump pumps of sufficient capacity and with		
	automatic devices shall be provided to prevent overflow of sewage		
	from any water recycling system;		
	- Open stockpiles of construction materials on site or exposed earth		
	surface shall be avoided as far as practicable or, where unavoidable,		
	should be covered with impervious sheet such as tarpaulin sheet or		
	similar fabric during rainstorms;		
	- Stagnant water shall be removed every day. Extra pumps shall be used		
	to pump the water into sedimentation tank during rainy days when		
	necessary;		
	- Earth bund or sand bag barriers shall be provided onsite to properly		
	direct storm water to the silt removal facilities such as sedimentation		
	tank provided;		
	- Good site practices shall be adopted to remove rubbish and litter from		
	construction site to prevent the rubbish and litter from spreading from		
	the site area. It is recommended to clean the construction sites on a		
	regular basis;		
	- Sufficient chemical toilets shall be provided in the works area and a		
	licensed waste collector should be deployed to clean the chemical		
	toilets on a regular basis;		
	 Notices shall be posted at conspicuous locations to remind the workers 		
	not to discharge any sewage or sewage into the nearby environment;		
	and		
	- It is recommend that the Contractor include the sewage control		
	measures during their onsite toolbox talk to increase the awareness of		
	all workers.		
	• •		
	of wastes generated and avoid unnecessary generation of wastes;		
	- Sufficient waste disposal points and regular collection of wastes shall		
	be provided;		
	- Different types of wastes shall be segregated and stored properly to		
	promote reuse or recycling;		
	- Dump truck leaving the Site shall be covered properly with impervious		
-	sheeting;		
Waste	- Contractor shall register as a Chemical Waste Producer if chemical		
Management	wastes such as spent lubricants are generated onsite. All chemical waste		
	shall be properly handled, stored, labeled, packaged and collected in		
	accordance with the requirements of the Waste Disposal (Chemical		
	Waste) (General) Regulation;		
	- Surplus C&D materials (inert and non-inert) generated from the		
	proposed works requiring disposal shall be properly transported to the		
	designated disposal facilities managed by CEDD and EPD. A trip-ticket		
	designated disposal facilities managed by CEDD and ELD. A dip-ticket		
	system shall be implemented by the Contractor and monitored as a		

Issues	Environmental Mitigation Measures		
	requirements specified in DEVB TC(W) No. 6/2010 Trip Ticket System		
	for Disposal of Construction & Demolition Materials;		
	- Waste Management Plan shall be prepared in accordance with the		
	requirement specified in Building Departments Practice Note for		
	Authorized Persons and Registered Structural Engineers – Construction		
	and Demolition Waste (ADV-19);		
	- Toolbox talks shall be arranged to workers on relevant topics including		
	site cleanliness and appropriate waste management procedures,		
	including waste reduction, reuse and recycling.		
	- Access route and placement of equipment and stockpile in works area		
	shall be selected at existing developed area and disturbed land to		
	minimize disturbance on vegetation. The chosen temporary storage or		
	stockpiling area and access routes shall be far away from any identified		
	plant species of conservation importance;		
	- Construction activities will be restricted to the clearly defined works		
	area;		
Ecology	- Temporary works area will be reinstated immediately after completion		
Leology	of the construction works;		
	- Disposal and treatment of waste shall be carried out in a timely and		
	proper manner		
	- Open fires will be strictly prohibited to prevent any risk of wildfire;		
	- Fire-fighting equipment should be provided in the works area before		
	the commencement of works and		
	- Resident site personnel shall ensure the Implementation of the		
	mitigation measures		
	- Design with minimum vegetation clearance		
T 1	- Compensatory planting of native trees and shrubs		
Landscape	- Retain and preserve all plant species of conservation importance on site		
and Visual	- Amenity value improved by compensatory planting and natural		
	regeneration of plants		
	- Erection of hoarding with colour compatible to the surrounding around		
	works areas		
	- No-entry zone will be fenced off by eye-catching net at the Cape D'		
Culturel	Aguilar Lighthouse		
Cultural	- Placement of equipment and stockpile at the road section close to the		
Heritage	Lighthouse are prohibited		
	- Using manual gear for trenching work near the Lighthouse		
	- Monitor the vibration near the Lighthouse		

2.3.3. The necessary mitigation measures were implemented properly for this Contract in the reporting period.

2.4. EM&A SITE INSPECTION

- 2.4.1. Site inspection was carried out on a monthly basis to monitor the implementation of mitigation measures under the Contract. In the reporting period, site inspection was carried out on 5 November 2018.
- 2.4.2. Minor deficiencies were observed during site inspection. Key observations during the site inspections are summarized in Table 2-3.

Date	Environmental Observations	Follow-up Status
5- Nov-2018	Orange net was not erected at 1.0m high	Rectified by HKU on 5-Nov-2018
	and a setback of at least 1.5m of the	Orange net was erected at 1.0m high and a
	peripheral plant individuals	setback of 1.5m minimum from the
		peripheral plant individuals
	Pavetta hongkongensis	
	<image/> <caption><caption></caption></caption>	<image/>

Table 2-3: Site Observations

5- Nov-2018	Waste was found in the protection zone	Rectified by HKU on 5-Nov-2018
		Waste was removed from the protection
		zone
	<image/> <caption><caption><caption></caption></caption></caption>	

The University of Hong Kong Expansion of Research and Residential Facilities for the Swire Institute of Marine Science Monthly EM&A Report

5- Nov-2018	Stagnant water was found in the drums	Rectified by HKU on 5-Nov-2018
	beside the academic block.	Stagnant water was removed from the
		drums.
5- Nov-2018	Site should be cleaned on a regular basis.	Rectified by HKU on 5-Nov-2018
		Site was cleaned.



- 2.4.3. HKU has rectified most of the observations identified during environmental site inspection in the reporting period.
- 2.4.4. Ecology and landscape and visual monitoring had been conducted on 20 October, 2018. As reported by Qualified Ecologist, observations and recommendation are summarised as below.
- 2.4.5. Damages by the Typhoon Mangkhut remained, especially on Lysimachia mauritiana (濱海 珍珠菜) and the retained tree TA.
- 2.4.6. Coastal vegetation had been wholly destroyed and removed by the typhoon, including most Lysimachia mauritiana (濱海珍珠菜). Only one remaining individual in poor condition was detected. It has no leaves but only ripe fruits.
- 2.4.7. The coastal area where Lysimachia mauritiana (濱海珍珠菜) was growing should still be fenced off and free from any construction works and human disturbance. Next few monitoring would be important to confirm the re-establishment of this plant species of conservation importance from seed bank in the area. Building up additional assurance colonies of Lysimachia mauritiana (濱海珍珠菜) by collecting seeds may still be feasible.
- 2.4.8. The other five plant species of conservation importance are still in good to fair condition.

- 2.4.9. No human disturbance on the protected plants was detected or reported. Staff on site shall keep reminding hikers/ visitors not to enter/ disturb all fenced area/ plant protection zones and wildlife.
- 2.4.10. Clear signs and notice showing the right way to the lighthouse shall be put near the fence of Pittosporum tobira (海桐) in order to prevent people from climbing upslope to the lighthouse along the fence.
- 2.4.11. Protection zone has been provided in accordance with Condition 2.6 of the Environmental Permit. Any damage of the protection zone (due to coastal weather condition or disturbance of hikers and visitors) should be repaired promptly. Warning sign should be maintained at prominent positions within the works area to encourage hikers and vistors keeping away from any no-entry area or protection zone.
- 2.4.12. Broken branches in the retained tree TA due to the typhoon damage remained. Relevant authority shall be contacted for appointing a Certified Arborist or equivalent to conduct a Tree Risk Assessment (TRA) on this tree, in order to get Lands Department's approval on taking corresponding actions (e.g. pruning).
- 2.4.13. Once the TRA appointment is confirmed, good written and photographic records (e.g. personal, date and time, actions, etc.) should be made before, during and after any actions of treatment for the assessed tree (i.e. TA).
- 2.4.14. Construction works should be been optimized to avoid encroaching into the protection zones as far as possible. Any works inevitably conducted in the protection zone of the three retained trees (e.g. removing mad-made concrete surface of a path) shall be minimized its impact to the root system and avoid any damage to the anchor roots.
- 2.4.15. The 15 trees applied for felling are still awaiting approval by Lands Department. Good written and photographic records should be made right before, during and after the tree removal works.
- 2.4.16. To avoid/ reduce potential negative impacts to local native plant community and srvival of plant species of conservation important, exotic and highly invasive tree Leucaena leucocephala (銀合歡), herb Bidens alba (白花鬼針草) and climber Mikania micrantha (薇甘菊) should be cleared and removed in whole, including the roots, whenever encountered throughout the construction phase, and packed properly before disposed as waste to prevent regrowth and dispersal of pollens and seeds.

2.5. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

2.5.1. The Environmental Complaint Handling Procedure is shown in below table:

Table 2-4: Environmental Complaint Handling Procedure

Complaint Received via Liaison Officer		Complaint Received via 1823 or from other government departments	
Contractor notify PTP,	HKU and IEC	Contractor notify PTP	HKU, and IEC,
Register of the comp	laint. Contractor to con	duct investigation of con	mplaint and report to
	HKU,PTP and IEC th	ne investigation results	
If complaint is considered not valid		If complaint is found v	alid
		I	
HKU or Contractor to reply the complainant		Contractor to in	plement necessary
if necessary		improvement measures in consultation with	
		the IEC, HKU and PTP. HKU to check and	
		inspect if the situation	n is improved. IEC to
		conduct further inspection as necessary.	
		HKU to report the follo	ow up actions done by
		Contractor and reply	to complainant is
		necessary.	
		If the complaint is referred by the EPD,	
		Contractor to prepare interim report on the	
		status of the	
			n and follow-up action

Contractor prepare complaint report for submission to EPD and to record the complaint case in monthly EM&A report

- 2.5.2. No environmental complaint was received in the reporting period.
- 2.5.3. No notification of summons and prosecution was received in the reporting period.

3. FUTURE KEY ISSUES

3.1. CONSTRUCTION PROGRAMME FOR THE COMING MONTHS

3.1.1. The contract of the Contractor was terminated on 9 February 2018, tendering for new Contractor is under progress, thus no construction activities will be conducted in the coming reporting period.

3.2. KEY ISSUES FOR COMING MONTH

- 3.2.1. Potential environmental impacts arising from the upcoming activities in November 2018 are mainly associated with ecology and housekeeping issues.
- 3.2.2. Particular issues to be considered in the coming month include:
 - Implementation of ecology mitigation measures
 - Housekeeping of the site area

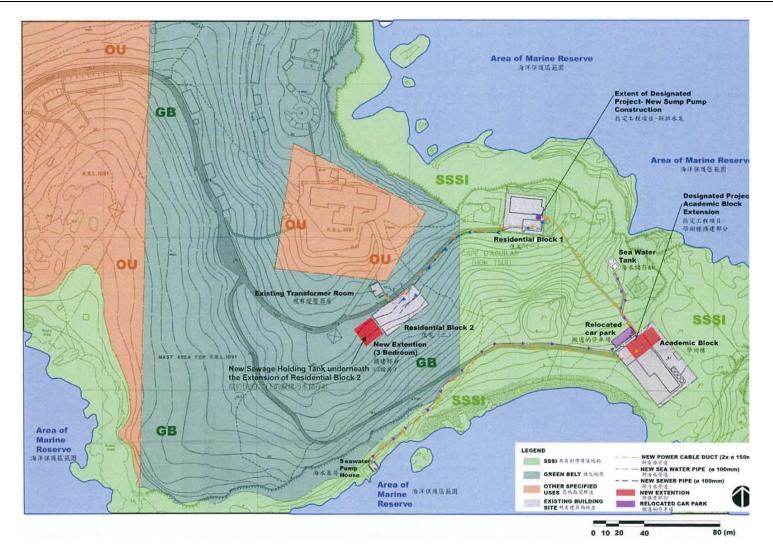
4. CONCLUSIONS AND RECOMMENDATIONS

4.1. SUMMARY

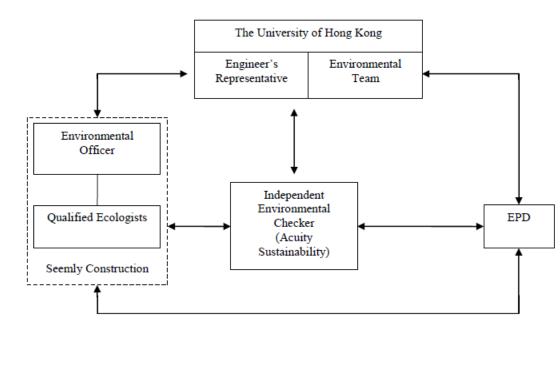
- 4.1.1. Inspection was carried out on 5 November 2018. Minor deficiencies were observed during site inspection and has been rectified within the reporting period. Some mitigation measures were not applicable for the current construction stage, the mitigation measures were implemented properly in general. The environmental performance of the Project was therefore considered satisfactory.
- 4.1.2. HKU is also reminded to implement the recommended environmental mitigation measures according to the Project profile and Environmental Permit.
- 4.1.3. During the previous joint site inspection, the rediscovered patch of *Vitis bryoniifolia* was found recovering at fair condition. The condition of *Vitis bryoniifolia* will keep monitoring and HKU is reminded to inspect the condition frequent.
- 4.1.4. Ground covering vegetation at coastal shore, where the *Lysimachia mauritiana* located, had been wholly destroyed and removed by Typhoon Mangkhut last month. Topsoil had been washed away and covered by rocks that flipped out by strong waves for *Lysimachia mauritiana* in the reporting period. Only one individual of Lysimachia mauritiana in poor condition was observed. It has no leaves but only ripe fruits. The condition of *Lysimachia mauritiana* is being concerned and HKU is reminded to inspect the condition more frequent.
- 4.1.5. New leaves were observed at *Elaeagnus tutcheri* in twigs. The condition of *Elaegnus tutcheri* is being concerned and HKU is reminded to inspect the condition more frequent.
- 4.1.6. Broken branches in the retained tree TA due to the typhoon damage remained. The condition of TA is being concerned and HKU is reminded to inspect the condition more frequent.
- 4.1.7. Main contract of the project between SBC and HKU was terminated on 9 February 2018. Notification of suspension of works had been submitted to Building Department on 9th February 2018 by PTP. HKU will take up all responsibility of the Contractor until further notice. Tendering for new Contractor is under progress, thus no construction activities was conducted in the reporting period.
- 4.1.8. No environmental complaint was received in the reporting period.
- 4.1.9. No notification of summons or prosecution was received since commencement of the Contract.
- 4.1.10. HKU will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A : Location of Construction

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Appendix B: Project Organization





Appendix C: Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Statistical Summary of Environmental Complaints

Reporting	Environmental Complaint Statistics		
Period	Frequency Cumulative Complaint Natur		Complaint Nature
6 Oct2018-	0	0	N/A
5 Nov 2018	0	0	N/A

Statistical Summary of Environmental Summons

Reporting	E	Environmental Summons Statistics						
Period								
6 Oct2018-	0	0	NI/A					
5 Nov 2018	0	0	N/A					

Statistical Summary of Environmental Prosecution

Reporting	Environmental Prosecution Statistics						
Period	Frequency	Details					
6 Oct2018-	0	0	N/A				
5 Nov 2018	0	0	N/A				

Appendix D: Environmental Monitoring Checklist



Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

5/11/2011	
0/11/10/8	
LEC: NTIda Man	pip tit Ip
10=30	
SUNNY	
N°C	
Vtght	
	10=30

		N/A	Yes	No	Remarks
1. Noi	se				
	Is the placement and orientation of noisy plants				
1.1	away from the NSRs in screening noise from the on-	\vee			
	site construction activities?				
1.2	Is the construction sequence carefully planned?				
1.3	Is the operation time of noisy PME keep at	\checkmark			
1.5	minimum?	V			
1.4	Are the hoarding erected along the site boundary for	1			
1.4	noise screening purpose?	\checkmark			
1.5	Do all plants operate on-site are well-maintained?	\checkmark			
1.6	Do all plants service regularly during the	,			
1.0	construction program?	\checkmark			
1.7	Do all hoods, cover panels and inspection hatches of	1			
1.7	power mechanical plant close during operation?	V			
1.8	Are the machines and plant shut down between				
1.0	work periods or throttled down to a minimum?	$ $ \checkmark			
2. Air	Quality				
2.1	Is the erection of hoarding not less than 2.4m high				
2.1	from ground level along the works area?	V			
2.2	Is the hoarding not adjoined a road or other area				
2.2	accessible to the public?	v			



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		N/A	Yes	No	Remarks
	Is the excavation or earth moving operation in the	. /	N		
2.3	site sprayed with water to maintain the entire				
	surface wet?				
	Are all dusty materials sprayed with water prior to	,			
2.4	any loading, unloading or transfer operation to	\bigvee			
	maintain the dusty materials wet?				
	Are the stockpile of dusty materials covered by				
	impervious sheeting or sprayed with water to	1			
2.5	maintain the entire surface wet or removed or				
	backfilled within 24 hours of the excavation or				
	unloading?				
2.6	Are debris covered entirely by impervious sheeting,	1			
2.6	placed in an area sheltered on the top and 3 sides?	\checkmark			
2.7	Is Ultra Low Sulphur Diesel used for all PME onsite?	\checkmark			
	Do the site vehicles use the wheel wash at the site	,			
2.8	exits?	$ $ \vee			
2.9	Are materials transported on trucks covered?	\checkmark			
2.40	Are all trucks loaded to a level within the side and	1			
2.10	tail boards?	V			
	Is all operation less than 6 minutes in any period of 4	,			
2.11	hours or for less than 3 minutes continuously at any	\checkmark			
	one time?				
2.12	Is the unpaved road compacted regularly?	\int			
2.13	Is the road surface kept clear of loose materials?		V		
2.4.4	Is the speed restricted for all vehicles moving within				
2.14	the site to minimize fugitive dust emission?				
0.45	Are PME operated in a good manner and no black	,			
2.15	smoke emitted? (If yes, skip to part 3)	\checkmark			
	Are PME in operation not emitted for more than 6				
2.16	minutes in any period of 4 hours or for more than 3	\checkmark			
	minutes continuously at any one time?				



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		N/A	Yes	No	Remarks
. Wa	ter Quality				
3.1	Does the discharge licence obtain from EPD under WPCO by contractor?	\checkmark			
3.2	Is the waste water prevented from entering the inland water and inshore water, and collected by licensed collector and discharged off site?	\checkmark			
3.3	Is the surface run-off from construction site treated via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation tank	\checkmark			
3.4	Is the STP first to prevent sewage from entering the inland water and inshore water, and then collected by licensed collector and discharged off site?	V			
3.5	Is the vehicle washing bay located on a paved area and away from the sensitive receivers?	\checkmark			
3.6	Is the contractor provide with a suitable backfill to prevent the site run-off from entering the public roads	\checkmark			
3.7	Is that all water used on site re-circulated and re- used as dust suppression, wheel washing and general cleaning?	\checkmark			
3.8	Are the online standby water sump pumps of sufficient capacity and with automatic devices provided on site?	\checkmark			
3.9	Are the open stockpiles of construction materials on site or exposed earth surface avoided as far as practicable?(If yes, answer 3.11)		V		
3.10	Are the open stockpiles covered with impervious sheet such as tarpaulin sheet or similar fabric during rainstorms?		\checkmark		
3.11	Is the site clear from stagnant water?		\checkmark		observatio



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		N/A	Yes	No	Remarks
3.12	Are the extra pumps used to pump the water into sedimentation tank during rainy days?	\checkmark			
3.13	Is the Earth bund or sand bag barriers provided onsite to properly direct storm water to the silt removal facilities?	\checkmark			
3.14	Is the construction sites cleaned on a regular basis?		\checkmark		obsenation &
3.15	Are the good site practices adopted to remove rubbish and litter from construction site		\checkmark		
3.16	Are there sufficient chemical toilets provided in the works area?		\checkmark		
3.17	Is a licensed waste collector deployed to clean the chemical toilets on a regular basis?	\checkmark			
3.18	Are there notices posted at conspicuous locations to remind the workers not to discharge any sewage or sewage into the nearby environment?		\checkmark		
3.19	Does the contractor include the sewage control measures during their onsite toolbox talk to increase the awareness of all workers?	\checkmark			
4. Wa	ste Management		1		
4.1	Did the construction works carefully plan to minimize the amount of wastes generated and avoid unnecessary generation of wastes?		\checkmark		
4.2	Are the sufficient waste disposal points and regular collection of wastes provided?	J			
4.3	Does the contractor segregate and store different types of waste properly?	\checkmark			inservation
4.4	Are the dump trucks covered properly with impervious sheeting when leaving the site?	\checkmark			
4.5	Do the Contractor register as a Chemical Waste Producer?		\bigvee		



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		N/A	Yes	No	Remarks
4.6	Do all chemical waste properly handled, stored, labeled, packaged and collected in accordance with the requirements of the Waste Disposal (Chemical Waste) (General) Regulation?	\checkmark			
4.7	Do all C&D wastes be transported to the designated disposal facilities managed by CEDD and EPD?	\checkmark			
4.8	Did the contractor prepare Waste Management Plan?	\checkmark			
4.9	Did the toolbox talks include the specific topics?	\mathbf{V}			
5. Eco	logy				
5.1	Is the access route and placement of equipment and stockpile in work area selected at existing developed area and disturbed land to minimize disturbance on vegetation?		~		
5.2	Is the chosen temporary storage or stockpiling area and access routes far away from any identified plant species of conservation importance?		V		
5.3	Are the construction activities restricted to the clearly defined works area?		\checkmark		
5.4	Are the temporary works area reinstated immediately after completion of the construction works?	~			
5.5	Are the disposal and treatment of waste carried out in a timely and proper manner		\checkmark		Chervation B. D. D.
5.6	Are the open fires strictly prohibited to prevent any risk of wildfire?		\checkmark		
5.7	Are the firefighting equipments prohibited in the works area before the commencement of works?		\checkmark		
5.8	Is there proper implementation of the mitigation measures ensured by the resident site personnel?		\checkmark		



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		N/A	Yes	No	Remarks
5.9	Do the peripheral plant individuals have a setback of		V	0	abseniation
5.5	at least 1.5m in the protection zones?		V		observative
	Are the protection zones set up by contractor to		,		observation
5.10	fence off 6 plant species during construction with		\checkmark		OBSERVECTION
	orange nets of at least 1m in height?				
6. Lar	dscape and Visual				
6.1	Do LR1,LR2,LCA1 and LCA2 compensated with	1			
0.1	planting of native trees and shrubs?				
6.2	Do LR1,LR2,LCA1 and LCA2 designed with minimum		\checkmark		
6.2	vegetation clearance?		· ·		
6.3	Do LR1,LR2,LCA1 and LCA2 retain and preserve all				
0.5	plant species of conservation importance on site?				
6.4	Do LR3 improve its amenity value by compensatory	1			
6.4	planting and natural regeneration of plants	V			
6.5	Do VSR1,VSR2 and VSR3 erect hoarding with colour	1			
0.5	compatible to the surrounding around works area?	V			
7. Cul	tural Heritage		A		
	Is the no-entry zone at the Cape D' Aguilar		,		
7.1	Lighthouse not fenced off by eye-catching orange		\checkmark		
	net?				
7.2	Is the road section close to the Lighthouse clear?		\checkmark		
7 2	Is there no excavator used at the road section close		1		
7.3	to the Lighthouse?				
7.4	Is the manual gear used for trenching work near the	~	1		
	Lighthouse?	· /			
7.5	Do they monitor the vibration near the Lighthouse?	V			
8. Otł		1		T	
8.1	Are the mitigation measures properly implement in general?		\checkmark		



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Observation: @ trash was found in the protection zone D'Orange' net was not erected at 1.0 m, the putertron zone (height at)
 x Staghann water was found in the academic block. (the drums beside)
 Site should be cleaned on a regular basis. Signatures: IEC's Representative/ Main Contractor's Representative/ Architect's Representative/ **Designated Staff Designated Staff Designated Staff** Man Them (Name: (Name:) (Name: