



Environmental Permit (No. EP-537/2017)

18 May 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.7

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 Ip 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/ Z000551

P:\31122 Swire Institute of Marine Science\Correspondence\Letter\EPD\2018-5-18 IEC report.docx

Encl.

CC

The University of Hong Kong - Mr John Sung w/o (Fax: 2517 0456) - Mr K B Wong

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Project no.: CJO-3848

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT (EM&A) REPORT (NO. 7)

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.7) -

FOR

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

	Name	Signature
Prepared by	Ms. Cheung, Karen, K.Y.	
Checked & Reviewed by	Mr. Tsui, Nelson, T. H.	
Approved by	Mr. Li, Kevin, W. M. Independent Environmental Checker (IEC)	

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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 7th monthly Environmental Monitoring and Audit Report for this Contract covering the period from 6 April 2018 to 5 May 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 22 April 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 May 2018 will be conducted.
- A.11 EM&A monitoring for the 7th reporting period has been completed. The 8th monthly EM&A report will cover the period from 6 May 2018 to 5 June 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			
Seemly Building	Project Manager	Mr. S.K. Fan	6532 3490
Construction Co., Ltd.			
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 7th 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 April 2018 to 5 May 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.

Project no.: CJO-3848

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 24 April 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:

Table 2-1: Summary of Environmental License and Permit

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

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 24 April 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.

Table 2-2: Environmental Mitigation Measures

Issues	Environmental Mitigation Measures	
Air Quality	 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 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. 	
Noise	 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 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, 	
Water	 Contractor shall obtain construction site discharge license from the EPD under WPCO; 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
	removal facilities such as sand traps, silt traps and sedimentation tank
	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.
	- Construction works shall be carefully planned to minimize the amount
	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
	system shall be implemented by the Contractor and monitored as a
	standard item in the relevant technical audit, in accordance with the

	ICAL DEUD TOWN A COMPT TO A COMPT
	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
, , ,	- 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'
	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 24 April 2018.
- 2.4.2. Minor deficiencies were observed during site inspection. Key observations during the site inspections are summarized in Table 2-3.

Table 2-3: Site Observations

Worn sandbags were found exposed outside Academic Block 24-Apr-2018 Protection for Lysimachia mauritiana was found not set properly 24-Apr-2018 Waste was found inside protection zone Pavetta hongkongensis: Rectified by HKU on 4-May-2018 Rectified by HKU on 4-May-2018 Protection was erected properly Rectified by HKU on 4-May-2018 Protection was erected properly Pavetta hongkongensis: Pavetta hongkongensis:		Site Observations Environmental Observations	Follow up Status
Worn sandbags were found exposed outside Academic Block 24-Apr-2018 Protection for Lysimachia mauritiana was found not set properly 24-Apr-2018 Waste was found inside protection zone Pavetta hongkongensis: Pavetta hongkongensis: Sandbags are covered by canvas properly outside Academic Block Rectified by HKU on 4-May-2018 Protection was erected properly Rectified by HKU on 4-May-2018 Waste was removed from protection zone Pavetta hongkongensis: Pavetta hongkongensis:	Date	Environmental Observations	Follow-up Status Pactified by HKII on 4 May 2018
Academic Block 24-Apr-2018 Protection for Lysimachia mauritiana was found not set properly 24-Apr-2018 Waste was found inside protection zone Pavetta hongkongensis: Outside Academic Block Rectified by HKU on 4-May-2018 Protection was erected properly Rectified by HKU on 4-May-2018 Waste was removed from protection zone Pavetta hongkongensis: Pavetta hongkongensis:			
24-Apr-2018 Protection for Lysimachia mauritiana was found not set properly Protection was erected properly Waste was found inside protection zone Pavetta hongkongensis: Protection was erected properly Rectified by HKU on 4-May-2018 Waste was removed from protection zone Pavetta hongkongensis: Pavetta hongkongensis:		Academic Block	
found not set properly 24-Apr-2018 Waste was found inside protection zone Pavetta hongkongensis: Pavetta hongkongensis: Pavetta hongkongensis: Pavetta hongkongensis:	24-Apr-2018		
24-Apr-2018 Waste was found inside protection zone Pavetta hongkongensis: Pavetta hongkongensis:		Protection for Lysimachia mauritiana was	Rectified by HKU on 4-May-2018
24-Apr-2018 Waste was found inside protection zone Pavetta hongkongensis: Pavetta hongkongensis:			
Waste was found inside protection zone Pavetta hongkongensis: Pavetta hongkongensis:	24-Apr-2018		
Pavetta hongkongensis: Pavetta hongkongensis:		Waste was found inside protection zone	
		Pavetta hongkongensis	
	24-Apr-2018	Tarona nongroups.	

Date	Environmental Observations	Follow-up Status
	Millettia oraria:	Millettia oraria:
	Lysimachia mauritiana:	Lysimachia mauritiana:
		Lysimacnia mauritiana:
		Rectified by HKU on 4-May-2018
	Orange net was not found for T5 and T6	Orange net was placed for T5 and T6 at 1m
		height
24-Apr-2018		

Date	Environmental Observations	Follow-up Status
		Rectified by HKU on 4-May-2018
	Orange net was found not placed properly	Orange net was replaced and erected at 1m
		height
24-Apr-2018		
	Damaged Orange net was found /orange net	Rectified by HKU on 4-May-2018
	was erected at less than 1m height	Damaged orange net was erected at 1m
		height
	Pittosporum tobira:	
24-Apr-2018	Tree protection zone TA:	
	Tree protection zone TA:	
	<u>L</u>	<u> </u>

Date	Environmental Observations	Follow-up Status
	Lysimachia mauritiana:	

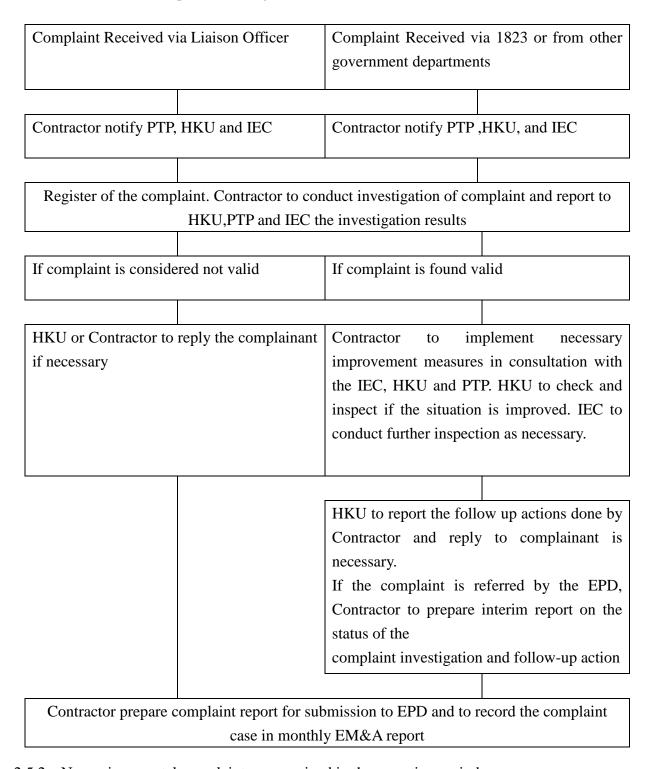
Date	Environmental Observations	Follow-up Status
	Protection was found not fully covered	Rectified by HKU on 4-May-2018
	outside Academic Block	Protection was enhanced outside Academic
		Block
24-Apr-2018	AND COMPANY AND CO	

- 2.4.3. HKU has rectified all observations identified during environmental site inspection in the reporting period.
- 2.4.4. Ecology and landscape and visual monitoring had been conducted on 23 April 2018. As reported by Qualified Ecologist, all six recorded plant species of conversation importance are in good to fair condition as the previously monthly monitoring. Some yellow leaves was observed in *Lysimachia mauritiana*. Such change is probably due to natural life cycle and environmental/seasonal factors as observed during previous baseline surveys and monitoring. The rediscovered patch of *Vitis bryoniifolia* was found recovering at fair condition, with some larger new leaves compared to last monitoring. As wet season for cyclones is approaching, nex few monitoring would be important to confirm the re-establishment of the plant species of conservation importance.
- 2.4.5. Protection zone has been provided in accordance with Condition 2.6 of the Environmental Permit. No more new damages found on the three retained trees T5,T6 and TA since last monthly monitoring, therefore, there is no change in their conditions.

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



- 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 May 2018 are mainly associated with ecology issues.

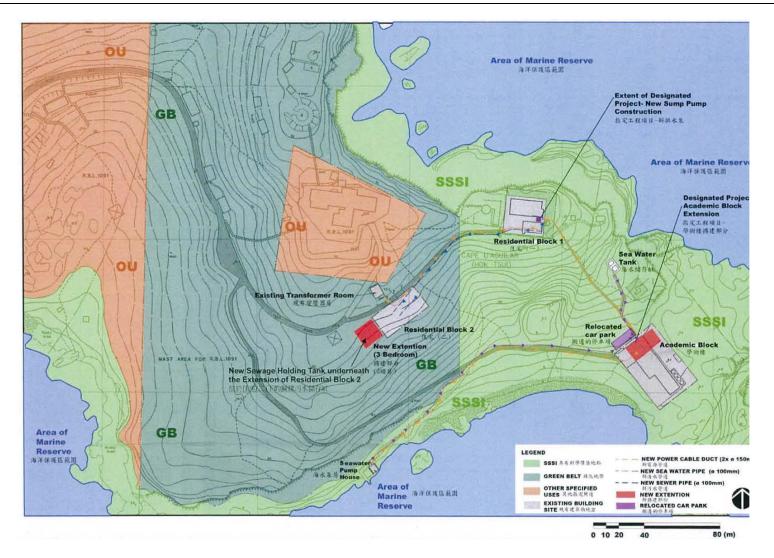
- 3.2.2. Particular issues to be considered in the coming month include:
 - Implementation of ecology mitigation measures

4. CONCLUSIONS AND RECOMMENDATIONS

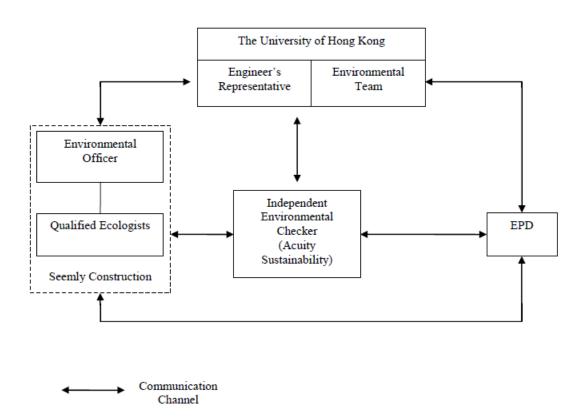
4.1. SUMMARY

- 4.1.1. Inspection was carried out on 24 April 2018. Minor deficiencies were observed during site inspection and were 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, *Vitis bryoniifolia* was found dried. The rediscovered patch of *Vitis bryoniifolia* was found recovering at fair condition, with some larger new leaves compared to last monitoring within the protection zone in the reporting month. The condition of *Vitis bryoniifolia* will keep monitoring and HKU is reminded to inspect the condition frequent.
- 4.1.4. Some yellow leaves was observed in *Lysimachia mauritiana* in the reporting period. The condition of *Lysimachia mauritiana* is being concerned and HKU is reminded to inspect the condition more frequent.
- 4.1.5. 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.
- 4.1.6. No environmental complaint was received in the reporting period.
- 4.1.7. No notification of summons or prosecution was received since commencement of the Contract.
- 4.1.8. 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



Appendix B: Project Organization





Statistical Summary of Environmental Complaints

Reporting	Environmental Complaint Statistics						
Period	Frequency	Cumulative	Complaint Nature				
6 Apr 2018-	0	0	NT/A				
5 May 2018	U	U	N/A				

Statistical Summary of Environmental Summons

Reporting	Er	Environmental Summons Statistics					
Period	Frequency	Cumulative	Details				
6 Apr 2018-	0	0	N/A				
5 May 2018			IN/A				

Statistical Summary of Environmental Prosecution

Reporting	Environmental Prosecution Statistics					
Period	Frequency	Cumulative	Details			
6 Apr 2018- 5 May 2018	0	0	N/A			

he University of H xpansion of Resea	Hong Kong arch and Residential Facilities for the Swire Institute of Marine Science
Ionthly EM&A Re	port
	Appendix D: Environmental Monitoring Checklist

Acuity Sustainability

Acuity Sustainability Consulting Limited

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

Inspection Date:	24 24 April, 20 18
Inspected by:	pre=cliff lf, Teff Lex
	He = karen cheing
Inspection Time:	10-30 a.m.
Weather Condition:	Fine
Temperature:	23.800
Wind:	Light.

		N/A	Yes	No	Remarks
1. No	ise				
	Is the placement and orientation of noisy plants				
1.1	away from the NSRs in screening noise from the on-				
	site construction activities?				
1.2	Is the construction sequence carefully planned?	V			
1.3	Is the operation time of noisy PME keep at				
1.3	minimum?				
1.4	Are the hoarding erected along the site boundary for				
	noise screening purpose?				
1.5	Do all plants operate on-site are well-maintained?	1			
1.6	Do all plants service regularly during the				
1.0	construction program?				
1.7	Do all hoods, cover panels and inspection hatches of				
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?				
2. Air	Quality			·····	
2.1	Is the erection of hoarding not less than 2.4m high				
۷, ۴	from ground level along the works area?	<i></i>			
2.2	Is the hoarding not adjoined a road or other area	/			
۷.۷	accessible to the public?	V			



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



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		N/A	Yes	No	Remarks
3. Wa	ter Quality				
3.1	Does the discharge licence obtain from EPD under	. /			
2.1	WPCO by contractor?				
	Is the waste water prevented from entering the				
3.2	inland water and inshore water, and collected by	1			
	licensed collector and discharged off site?	V			
	Is the surface run-off from construction site treated	,			
3.3	via adequately designed sand/silt removal facilities	/			
	such as sand traps, silt traps and sedimentation tank				
	Is the STP first to prevent sewage from entering the				
3.4	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				-
3.3	and away from the sensitive receivers?	V			
	Is the contractor provide with a suitable backfill to				
3.6	prevent the site run-off from entering the public	\checkmark			
	roads				
	Is that all water used on site re-circulated and re-				
3.7	used as dust suppression, wheel washing and	/			t distribution
	general cleaning?				
	Are the online standby water sump pumps of				
3.8	sufficient capacity and with automatic devices				
	provided on site?	Ľ			
	Are the open stockpiles of construction materials on		,		
3.9	site or exposed earth surface avoided as far as				
	practicable?(If yes, answer 3.11)				
	Are the open stockpiles covered with impervious	/			
3.10	sheet such as tarpaulin sheet or similar fabric during	 			
	rainstorms?				
3.11	Is the site clear from stagnant water?				



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		N/A	Yes	No	Remarks
3,12	Are the extra pumps used to pump the water into	1			
3,12	sedimentation tank during rainy days?				
	Is the Earth bund or sand bag barriers provided				
3.13	onsite to properly direct storm water to the silt				
	removal facilities?				Anna anna anna anna anna anna anna anna
3.14	Is the construction sites cleaned on a regular basis?		/		observation 3
3 1 5	Are the good site practices adopted to remove				
3.15	rubbish and litter from construction site				
2.10	Are there sufficient chemical toilets provided in the				
3.16	works area?				
3.17	Is a licensed waste collector deployed to clean the	/			
3.17	chemical toilets on a regular basis?	_			And Andread An
	Are there notices posted at conspicuous locations to				
3.18	remind the workers not to discharge any sewage or		1		
	sewage into the nearby environment?				
	Does the contractor include the sewage control				
3.19	measures during their onsite toolbox talk to increase				
	the awareness of all workers?				
4. Wa	ste Management	I	1		
	Did the construction works carefully plan to				
4.1	minimize the amount of wastes generated and avoid	V			
	unnecessary generation of wastes?				
4.2	Are the sufficient waste disposal points and regular	,			
4.2	collection of wastes provided?	✓			
4.3	Does the contractor segregate and store different		./		observation
4.3	types of waste properly?				() () () () () () () () () ()
	Are the dump trucks covered properly with				
4.4	impervious sheeting when leaving the site?	1			
	Do the Contractor register as a Chemical Waste				
4.5	Producer?	$\sqrt{}$			



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		N/A	Yes	No	Remarks
	Do all chemical waste properly handled, stored,				
4.6	labeled, packaged and collected in accordance with	<u> </u>			
7.0	the requirements of the Waste Disposal (Chemical				
	Waste) (General) Regulation?				
4.7	Do all C&D wastes be transported to the designated	/			
7.7	disposal facilities managed by CEDD and EPD?	✓			
4.8	Did the contractor prepare Waste Management		/		
	Plan?		V		
4.9	Did the toolbox talks include the specific topics?	/			
5. Ec c	ology		<u> </u>		_L
	Is the access route and placement of equipment and				
5.1	stockpile in work area selected at existing developed				
5.1	area and disturbed land to minimize disturbance on		~		ę.
	vegetation?				
	Is the chosen temporary storage or stockpiling area				
5.2	and access routes far away from any identified plant				
	species of conservation importance?				
5.3	Are the construction activities restricted to the				
J.J	clearly defined works area?		/		
	Are the temporary works area reinstated				
5.4	immediately after completion of the construction	/			
	works?		A PARA		
5.5	Are the disposal and treatment of waste carried out				
	in a timely and proper manner		✓		
5.6	Are the open fires strictly prohibited to prevent any				
	risk of wildfire?		/		000
5.7	Are the firefighting equipments prohibited in the				
	works area before the commencement of works?				
5.8	Is there proper implementation of the mitigation				
	measures ensured by the resident site personnel?		<u> </u>		



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5.9			Yes	No	Remarks
5.9	Do the peripheral plant individuals have a setback of				observation
5.9	at least 1.5m in the protection zones?	.	V		4,5,2
	Are the protection zones set up by contractor to				observation
5.10	fence off 6 plant species during construction with				6
	orange nets of at least 1m in height?		\ \		
6. La	ndscape and Visual				
	Do LR1,LR2,LCA1 and LCA2 compensated with				
6.1	planting of native trees and shrubs?				
	Do LR1,LR2,LCA1 and LCA2 designed with minimum				
6.2	vegetation clearance?		V		
	Do LR1,LR2,LCA1 and LCA2 retain and preserve all				
6.3	plant species of conservation importance on site?				
	Do LR3 improve its amenity value by compensatory				
6.4	planting and natural regeneration of plants	/			
	Do VSR1,VSR2 and VSR3 erect hoarding with colour	/			
6.5	compatible to the surrounding around works area?	/			
7. C ı	ıltural Heritage				
	Is the no-entry zone at the Cape D' Aguilar				
7.1	Lighthouse not fenced off by eye-catching orange	1	/		3
	net?				
7.2	Is the road section close to the Lighthouse clear?		1		
	Is there no excavator used at the road section close		/		
7.3	to the Lighthouse?		/		
7.4	Is the manual gear used for trenching work near the	V			
	Lighthouse?	 			
7.5				1	
8. O		1			
8.1	Are the mitigation measures properly implement in general?				



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Observation:		
O sandbags was to	ound not covered oc	etside Academic block
Dorange net was	found not placed,	properly
1 waste was found	ruside protection	aven.
@ protection for Lysimua	hia mountiana was found	not set properly
B) Orange net was ho	t found for 73 & 76	/
6 Damage J orange net (7) Protection was found in	was found orange net in	was erected less than In height contemit Block.
Signatures:		
IEC's Representative/	Main Contractor's Representative/	Architect's Representative/
Designated Staff	Designated Staff	Designated Staff
(Name: Karen Cheun)	(Name:	(Name: Cliff To)
1		