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Project no.: CJO-3848

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT (EM&A) REPORT (NO. 26)

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.26) -

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 Tysan Building Construction Company Limited ("TYSAN") was commissioned by HKU to undertake the construction of the extension works while 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 resumed on 8 October 2019. The environmental site inspections of the EM&A programme continued.
- A.4 This is the 26th monthly Environmental Monitoring and Audit Report for this Contract covering the period from 6 November 2019 to 5 December 2019 (the Reporting Period). The contract with SBC was terminated on 9 February 2018 and resumed on 8 October 2019 by TYSAN.
 - preparation and site clearance work
 - site reconnaissance of building services and existing utilities
 - site A bamboo scaffolding
- A.5 IEC Monthly Environmental Site Audit under the EM&A requirement in this reporting period was conducted on 22 November 2019.
- A.6 No environmental complaint was received via EPD in this reporting period.
- A.7 No notification of any summons and successful prosecutions was received in this reporting period.
- A.8 No reporting change was made in this reporting period.
- A.9 As informed by the Contractor, the major works for the Project in the coming reporting period will be:
 - Tree fell. pending for tree fell permit
 - Site A demolition, pending for consent
- A.10 EM&A monitoring for the 26th reporting period has been completed. The 27th monthly EM&A report will cover the period from 6th December 2019 to 5th January 2020.

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. Tysan Building Construction Company Limited ("TYSAN") was commissioned by HKU to undertake the construction of the extension works while 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. The construction phase of the Contract resumed on 8th October 2019. 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			
Tysan Building	Project Manager	Ken Chan	2131 9110
Construction Company			
Limited			
Percy Thomas	Senior Architect	Cliff Ip	2957 9611
Partnership (HK) Ltd			
Acuity Sustainability	Independent Environmental	Li, Kevin, W. M.	2698 6833
Consulting Limited	Checker (IEC)		

1.3. SCOPE OF REPORT

- 1.3.1. This is the 26th 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 2019 to 5 December 2019 (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 with TYSAN was commenced on 8th October 2019.
- 1.4.2. As informed by the Contractor, details of the major works carried out in this reporting month are listed below:

- preparation and site clearance work
- site reconnaissance of building services and existing utilities
- site A bamboo scaffolding
- 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 22 November 2019. A summary of mitigation measure is presented in Table 2-2.
- 2.1.2. 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 2-1 below:

Table 2-1: Summary of Environmental License and Permit

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.	08/11/2019	-	TYSAN	
	7035688				
Waste Water Discharge	Ref. No. 451661	_	_	_	Under
License					Application
Air Pollution Control	Ref. No. 450333	23/10/2019	-	TYSAN	-
Ordinance					
Chemical Waste Producer	-	-	-	-	N/A
Construction Noise	-	-	-	-	N/A
Permit					

2.3. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

- 2.3.1. In response to the Project Profile (Register No. PP-548/2017). The status of the environmental mitigation measures implemented by the Contractor in this Reporting Period was audit on 22 November 2019 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
	- 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;
Air Ovolity	- 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
	- 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;
Noise	- Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program;
Noise	- 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;
	- LO DEGUART CAWAGA TEOM ANTARING THA INIANA WATAR ANA INCHARA WATAR
Water	- To prevent sewage from entering the inland water and inshore water,
Water	hoardings will be erected along the site boundary. Surface run-off from
Water	

Issues	Environmental Mitigation Measures
155465	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
	requirements specified in DEVB TC(W) No. 6/2010 Trip Ticket System

Issues	Environmental Mitigation Measures	
	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. 	
Ecology	 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; Temporary works area will be reinstated immediately after completion 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 	
Landscape	 Design with minimum vegetation clearance Compensatory planting of native trees and shrubs 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 22 November 2019.
- 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

Date	Environmental Observations	Follow-up Status
22-Nov-2019	Copy of Environmental Permit should be	Rectified by TYSAN site contractor on 4
22-1107-2019		Dec 2019
	posted on site.	
		Copy of Environmental Permit posted on
		site.
	地盤資訊板	Constitution of the consti
		The second secon

Date	Environmental Observations	Follow-up Status
		安全告示版
22-Nov-2019	Orange net not erected at 1.5m height.	Rectified by TYSAN site contractor on 4
		Dec 2019
		Orange net re-erected at 1.5m height.

Date	Environmental Observations	Follow-up Status
22-Nov-2019	Stagnant water on site should be cleaned.	Rectified by TYSAN site contractor on 4
		Dec 2019
		Stagnant water on site cleaned.

Date	Environmental Observations	Follow-up Status
22-Nov-2019	Broken sand bags at the site boundary	Rectified by TYSAN site contractor on 4
	should be replaced.	Dec 2019
		Broken sand bags at the site boundary
		replaced.
22-Nov-2019	Wastes observed inside the protection zone.	Rectified by TYSAN site contractor on 4
		Dec 2019
		Wastes cleaned inside the protection zone.

Date	Environmental Observations	Follow-up Status

- 2.4.3. TYSAN 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 14 November 2019. As reported by Qualified Ecologist, observations and recommendation are summarised as below.
- 2.4.5. There is no change in form, health & structural condition and amenity value for all six recorded species of plant species of conservation importance.
- 2.4.6. Coastal vegetation had been wholly destroyed and removed by the typhoon, including most *Lysimachia mauritiana* (濱海珍珠菜). The two *Lysimachia mauritiana* (濱海珍珠菜) rediscovered since the typhoon kept growing, with some seedlings observed nearby.
- 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. 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.
- 2.4.9. 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 visitors keeping away from any no-entry area or protection zone.
- 2.4.10. 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).
- 2.4.11. 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).
- 2.4.12. 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.
- 2.4.13. 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.
- 2.4.14. To avoid/ reduce potential negative impacts to local native plant community and survival of plant species of conservation important, exotic and highly invasive tree *Leucaena leucocephala* (銀合歡), *shrub Lantana camara* (馬櫻丹), *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 of 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 complaint. Contractor to conduct investigation of complaint and report to HKU,PTP and IEC the investigation results If complaint is considered not valid If complaint is found valid HKU or Contractor to reply the complainant Contractor to implement necessary if necessary improvement measures in consultation with the IEC, HKU and PTP. HKU to check and inspect if the situation is improved. IEC to conduct further inspection as necessary. HKU to report the follow 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 complaint investigation 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 construction phase of the Contract commenced on 8 October 2019. The major works for this project in November 2019 will be:
 - Preparation and site clearance work
 - Site reconnaissance of building services and existing utilities
 - Site A bamboo scaffolding

3.2. KEY ISSUES FOR COMING MONTH

3.2.1. Potential environmental impacts arising from the upcoming activities in December 2019 are mainly associated with air quality, noise, water quality, waste management and ecology issues.

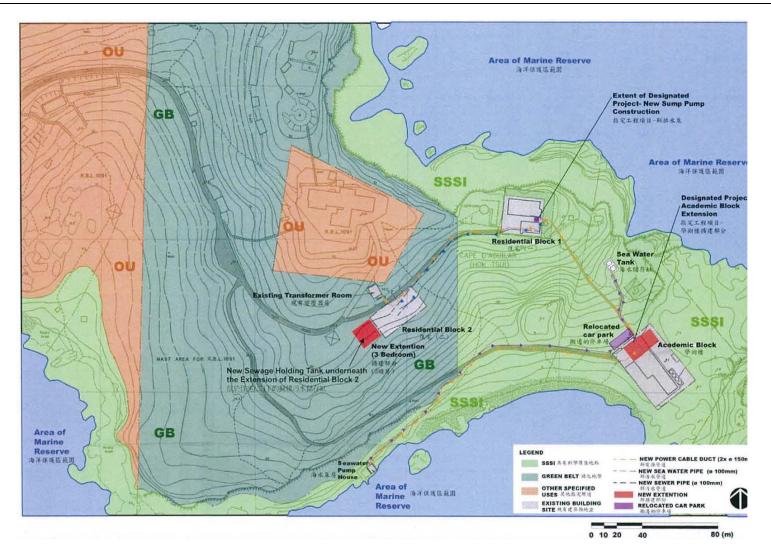
- 3.2.2. Particular issues to be considered in the coming month include:
 - Tree fell. pending for tree fell permit
 - Site A demolition, pending for consent

4. CONCLUSIONS AND RECOMMENDATIONS

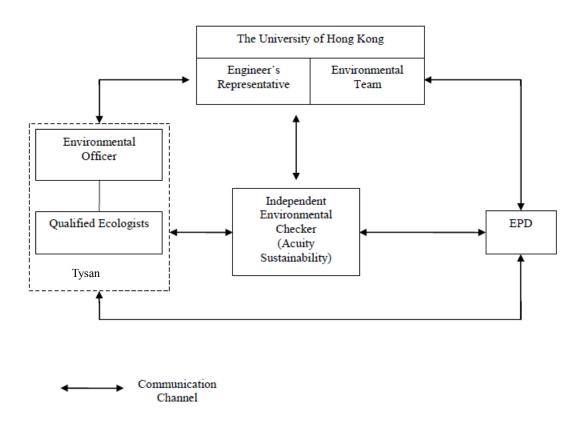
4.1. SUMMARY

- 4.1.1. Inspection was carried out on 22 November 2019. 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. TYSAN is also reminded to implement the recommended environmental mitigation measures according to the Project profile and Environmental Permit.
- 4.1.3. Ground covering vegetation at coastal shore, where the *Lysimachia mauritiana* located, had been wholly destroyed and removed by Typhoon Mangkhut. The two *Lysimachia mauritiana* (濱海珍珠菜) rediscovered since the typhoon keep growing with some seeldings observed nearby. Next few monitoring would be important to confirm the re-establishment of the plant species of conservation importance from seed bank in the area. The condition of *Lysimachia mauritiana* is being concerned and HKU is reminded to inspect the condition more frequent.
- 4.1.4. Broken branches in the retained tree TA due to the typhoon damage remained. HKU is reminded to contact 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).
- 4.1.5. Main contract of the project between TYSAN and HKU was commenced on 8 October 2019.
- 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. HYSAN 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	En	Environmental Complaint Statistics					
Period	Frequency	Cumulative	Complaint Nature				
6 Nov 2019-	0	1	NI/A				
5 Dec 2019	U	1	N/A				

Statistical Summary of Environmental Summons

Reporting	Er	Environmental Summons Statistics					
Period	Frequency	Cumulative	Details				
6 Nov 2019-	0	0	NI/A				
5 Dec 2019	0	U	N/A				

Statistical Summary of Environmental Prosecution

Reporting	En	Environmental Prosecution Statistics					
Period	Frequency	Cumulative	Details				
6 Nov 2019-	0	0	NI/A				
5 Dec 2019	U	U	N/A				

Elvice III	arch and Residential Facilities for the Swire Institute of Marine Science eport
	Appendix D: Environmental Monitoring Checklist
	Appendix D. Environmental Monitoring Checklist



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

Inspection Date:	22/11/2019.
Inspected by:	Kavan/Tandy/ Cliff / Chan Chi benen
Inspection Time:	10:30
Weather Condition:	Fire
Temperature:	24°C
Wind:	lest.

		N/A	Yes	No	Remarks
1. No	ise				
1.1	Is the placement and orientation of noisy plants away from the NSRs in screening noise from the onsite construction activities?	V			
1.2	Is the construction sequence carefully planned?	_			
1.3	Is the operation time of noisy PME keep at minimum?	V			
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?	$\sqrt{}$			
1.6	Do all plants service regularly during the construction program?	V			
1.7	Do all hoods, cover panels and inspection hatches of power mechanical plant close during operation?	V			
1.8	Are the machines and plant shut down between work periods or throttled down to a minimum?	/			
2. Air	r Quality				
2.1	Is the erection of hoarding not less than 2.4m high from ground level along the works area?	✓			
2.2	Is the hoarding not adjoined a road or other area accessible to the public?	J			



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

		N/A	Yes	No	Remarks
	Is the excavation or earth moving operation in the				
2.3	site sprayed with water to maintain the entire	V			
	surface wet?				
	Are all dusty materials sprayed with water prior to				
2.4	any loading, unloading or transfer operation to	\checkmark			
	maintain the dusty materials wet?				
	Are the stockpile of dusty materials covered by				
	impervious sheeting or sprayed with water to				
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,	7			
2.0	placed in an area sheltered on the top and 3 sides?	V			
2.7	Is Ultra Low Sulphur Diesel used for all PME onsite?	V			
2.0	Do the site vehicles use the wheel wash at the site	00			
2.8	exits?	/			
2.9	Are materials transported on trucks covered?	V			
2.10	Are all trucks loaded to a level within the side and	576	100		
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?	1			
2.14	Is the speed restricted for all vehicles moving within	1			
2.14	the site to minimize fugitive dust emission?	✓			
2.15	Are PME operated in a good manner and no black	1			
2.15	smoke emitted? (If yes, skip to part 3)	1			
	Are PME in operation not emitted for more than 6				
2.16	minutes in any period of 4 hours or for more than 3	1			
	minutes continuously at any one time?				



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		N/A	Yes	No	Remarks
3. Wa	ter Quality				us
3.1	Does the discharge licence obtain from EPD under WPCO by contractor?	1			
3.2	Is the waste water prevented from entering the inland water and inshore water, and collected by licensed collector and discharged off site?	V	ф-		
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?	V			
3.6	Is the contractor provide with a suitable backfill to prevent the site run-off from entering the public roads	V			
3.7	Is that all water used on site re-circulated and re- used as dust suppression, wheel washing and general cleaning?	1			
3.8	Are the online standby water sump pumps of sufficient capacity and with automatic devices provided on site?	V			
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?	V			
3.11	Is the site clear from stagnant water?		. de	1	



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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?	V			
3.13	Is the Earth bund or sand bag barriers provided onsite to properly direct storm water to the silt removal facilities?	J			
3.14	Is the construction sites cleaned on a regular basis?	V			
3.15	Are the good site practices adopted to remove rubbish and litter from construction site	V			
3.16	Are there sufficient chemical toilets provided in the works area?	/			
3.17	Is a licensed waste collector deployed to clean the chemical toilets on a regular basis?	✓			
3.18	Are there notices posted at conspicuous locations to remind the workers not to discharge any sewage or sewage into the nearby environment?	V			
3.19	Does the contractor include the sewage control measures during their onsite toolbox talk to increase the awareness of all workers?	V			
4. W a	ste Management				
4.1	Did the construction works carefully plan to minimize the amount of wastes generated and avoid unnecessary generation of wastes?	V			
4.2	Are the sufficient waste disposal points and regular collection of wastes provided?	V			
4.3	Does the contractor segregate and store different types of waste properly?	1			
4.4	Are the dump trucks covered properly with impervious sheeting when leaving the site?	/			
4.5	Do the Contractor register as a Chemical Waste Producer?	1			



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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	J			
4.0	the requirements of the Waste Disposal (Chemical Waste) (General) Regulation?				
4.7	Do all C&D wastes be transported to the designated disposal facilities managed by CEDD and EPD?	V			
4.8	Did the contractor prepare Waste Management Plan?	/			
4.9	Did the toolbox talks include the specific topics?	1			
5. Eco	logy	30	.,	-5	
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?	V			
5.2	Is the chosen temporary storage or stockpiling area and access routes far away from any identified plant species of conservation importance?	✓			
5.3	Are the construction activities restricted to the clearly defined works area?	~			
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	√			
5.6	Are the open fires strictly prohibited to prevent any risk of wildfire?		1		
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?	1			



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Remarks
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Observation:		
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Signatures:		
IEC's Representative/	Main Contractor's Representative/	Architect's Representative/
Designated Staff	Designated Staff	Designated Staff
(Name: Tenly)	(Name: CHAY CHI KEUNG	(Name: Aiff Ip)