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THE UNIVERSITY OF HONG KONG

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DECOMMISSIONING AND DISPOSAL OF CLINICAL WASTE INCINERATORS FOR THE REDEVELOPMENT OF QUEEN MARY HOSPITAL SITE AUDIT REPORT

OCTOBER 22, 2018





DECOMMISSIONING AND DISPOSAL OF CLINICAL WASTE INCINERATORS FOR THE REDEVELOPMENT OF QUEEN MARY HOSPITAL

SITE AUDIT REPORT

THE UNIVERSITY OF HONG KONG

PROJECT NO.: 2535469A

DATE: 22 OCTOBER 2018

WSP

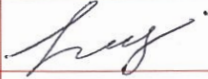


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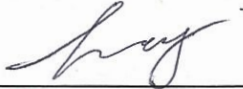
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1 INTRODUCTION

1.1 PROJECT BACKGROUND

- 1.1.1 Established in 1937, Queen Mary Hospital (QMH) is a major acute hospital in the Hong Kong West Cluster (HKWC) of the Hospital Authority (HA), serving a population of over 531,000 in the Central and Western and Southern Districts as well as treating many patients in other geographical districts in Hong Kong. It provides a full range of acute and tertiary services, including 24-hour Accident and Emergency (A&E) services, in-patient services, ambulatory care and rehabilitation services, as well as specialist services covering a wide range of specialties and subspecialties for the residents.
- 1.1.2 The redevelopment plan, featuring the use of QMH's northern site to fit the hospital's future service model as an academic health sciences center, involves the decanting of existing facilities of the north end of QMH complex to the ex-Senior Staff Quarters (SSQ) (which had been converted to and renamed as Block T). It presents a golden opportunity to enable the hospital to enhance its role as a premier teaching hospital, as well as further improving the hospital environment for our patients, medical students, academic partners and colleagues.
- 1.1.3 The Phase 1 Redevelopment Project of Queen Mary Hospital is conducted in two stages:
- Stage I Preparatory Works:
- Conversion works at the vacated SSQ (renamed as Block T)
 - Construction of a link bridge connecting Block T and the buildings in the hospital complex
 - Road widening works within the hospital boundary
- Stage II Main Works (Commence August 2018):
- Demolition of Clinical Pathology Building (CPB) and Housemen Quarters (HQ) of QMH as well as Pathology Building (UPB) of the University of Hong Kong
 - Construction of New Block
 - Provision of an additional access road
 - Construction of a proposed rooftop helipad
- 1.1.4 As part of the preparatory works for Redevelopment of QMH-Phase 1, it was proposed to decommission and dispose of the abandoned clinical waste incinerators and associated chimneys in Block K, QMH, in 2 phases. Since the proposed decommissioning works constitute a designated project under Item 3, Part 2, Schedule 2 of EIAO, an application for Environmental Permit (EP) for the works was submitted to EPD and an EP (i.e. EP-545/2017) was subsequently issued for the proposed works.
- 1.1.5 During the implementation of preparatory works for the Phase 1 Redevelopment Project of QMH, another abandoned clinical waste incinerator in the UPB was identified when the building was being vacated.
- 1.1.6 University Pathology Building (UPB) is part of The University of Hong Kong and is located within the Queen Mary Hospital (QMH), 102 Pok Fu Lam Road on Hong Kong Island. One (1) abandoned waste incinerator is found in 5/F with one (1) associated chimney from the ceiling of Incinerator Room, 5/F to the Rooftop of UPB.
- 1.1.7 As part of the preparatory works for Phase 1 Redevelopment Project of QMH, it is required to decommission and dispose of the existing clinical waste incinerator at Incinerator Room at 5/F of UPB and associated chimney. In view of the nature and objective of the decommissioning works in UPB are same as that covered under EP-545/2017, application for Variation of EP and application for Further EP were submitted to EPD to cover the incinerator and associated chimney decommissioning works in

UPB. Environmental Permit No. EP-545/2017/A and FEP-01/545/2017/A were subsequently issued for the proposed works.

1.2 TASKS UNDER ASSIGNMENT

- 1.2.1 With reference to the Further Environmental Permit (FEP - 01/545/2017/A), environmental site audit should be conducted by an Independent Environmental Checker (IEC) during decommissioning and demolition works to check, review, verify and validate the overall environmental performance of the project, including the implementation of all the environmental protection and mitigation measures, submissions relating to environmental auditing, and any other submissions required under the Environmental Permit for the project or the requirements outlined in the EIAO through report to EPD before and upon completion of the works.
- 1.2.2 WSP (Asia) Ltd (WSP) has been commissioned as the Independent Environmental Checker (IEC) for the Decommissioning and Demolition works.
- 1.2.3 The following audit procedures should be adopted and WSP as the IEC would be responsible for the monitoring operations:
- To ensure that the general aspects of environmental quality will comply with the project requirements;
 - To witness the smoke test to ensure the tightness of the containment;
 - To supervise the Contractor to ensure that the requirements in the Further Environmental Permit are fully complied with;
 - To instruct the Contractor when action is required to reduce or prevent any impacts
 - To effectively and efficiently deal with any complaints on environmental performance; and
 - To prepare a summary of the environmental performance of the Contractor on completion of the Project.
-

1.3 OBJECTIVES

- 1.3.1 The objective of this Site Audit Report is to present the key findings of the site audits conducted throughout the course of the demolition works from 24 September 2018 to 19 October 2018.

2 INDEPENDENT ENVIRONMENTAL CHECKER

2.1.1 The staff organisation chart for this Project is shown in **Figure 2.1**.

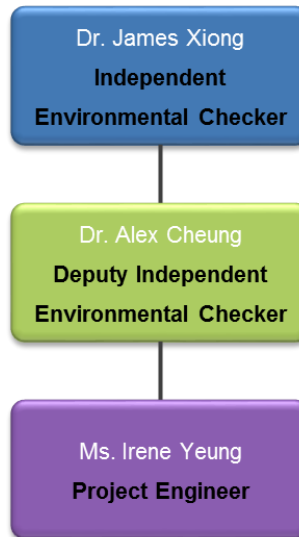


Figure 2.1 Organisation Chart of Project Team

2.1.2 Independent Environmental Checker – Dr. James Xiong

Dr. James Xiong is the Director of WSP, in charge of consultancy services relating to environment and sustainability. James has over 25 years of academic and practical experience in environmental studies, especially, EIA, EM&A and environmental issues for urban development master plan, infrastructure and industry environmental protection including the IEC for Pillar Point Sewerage Treatment Works and Tsim Sha Tsui Station Carnarvon Road Subway and Wan Chai Station Lee Tung Street Subway for MTR Corporation Ltd. and the EIA Study of the Tai Po Sewage Treatment Works Stage 5.

2.1.3 Deputy Independent Environmental Checker – Dr. Alex Cheung

Dr. Alex Cheung is an Associate of WSP with over 25 years' experience. He has been involved in numerous research projects and environmental assessment for a wide range of development projects in Hong Kong, Macau and Australia as Project Manager including the IEC for Pillar Point Sewerage Treatment Works and Tsim Sha Tsui Station Carnarvon Road Subway and Wan Chai Station Lee Tung Street Subway for MTR Corporation Ltd.

3 WORK CONDUCTED BEFORE COMMENCEMENT OF DEMOLITION WORKS AND KEY FINDINGS

3.1 WORKS CONDUCTED

3.1.1 The objective of this section is to present the key findings of the site audits conducted before commencement of demolition works from 24 September 2018 to 9 October 2018.

3.1.2 The IEC works conducted in this reporting period are as follows:

- (1) IEC site audit on 24 September 2018
- (2) IEC site audit on 28 September 2018
- (3) IEC site audit on 3 October 2018
- (4) Smoke test on 8 October 2018
- (5) Smoke test on 9 October 2018

3.2 KEY FINDINGS OF SITE AUDITS

3.2.1 In order to prepare for the demolition works, site audits and smoke tests were carried out for the Incinerator Room at 5/F and the associated chimney at Rooftop of UPB. Photos of the site audits are shown in **Figures 3.1** to **3.30**.

24 September 2018 – IEC Site Audit



Figure 3.1 The incinerator at 5/F of UPB



Figure 3.2 The incineration chamber door (top) and the bottom ash collection door (bottom) of the incinerator



Figure 3.3 Chimney of the Incinerator



Figure 3.4 Wall-mounted control panel for the Incinerator



Figure 3.5 Area for refuse storage



Figure 3.6 Area for refuse storage

28 September 2018 – IEC Site Audit



Figure 3.7 Drain to be sealed up at the Incinerator Room



Figure 3.8 Lock is provided for the entrance of UPB



Figure 3.9 Ductworks in front of the chimney of the incinerator were removed

3.2.2 Before commencement of the demolition works of the incinerator and the associated chimney, the condition of the Site has been reviewed during the site audits on 24 September 2018 and 28 September 2018.

3.2.3 Ductworks in front of the chimney were removed to avoid obstructing work activities.

3 October 2018 – IEC Site Audit

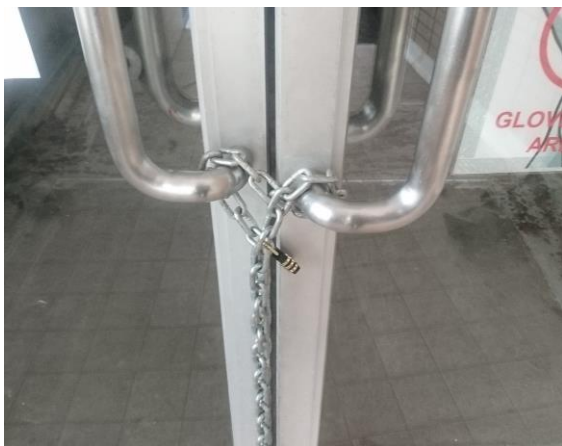


Figure 3.10 Entrance of the site is locked



Figure 3.11 Three-compartment decontamination unit for entry and exit into the works area



Figure 3.12 Overview of the Incinerator Room



Figure 3.13 Sealed drain



Figure 3.14 Scaffold at the Rooftop

8 October 2018 – Smoke Test



Figure 3.15 Inspection record for the scaffold



Figure 3.16 Smoke test was conducted for the containment at Rooftop

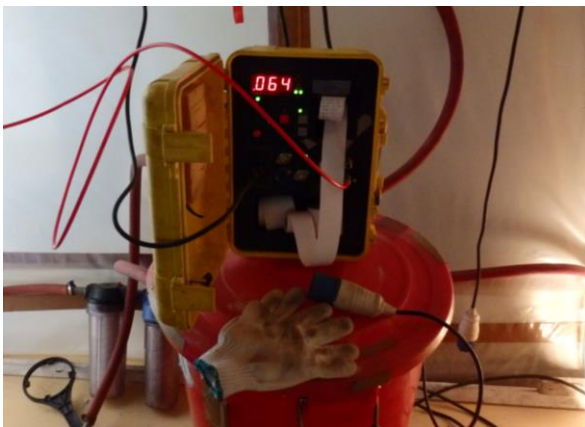


Figure 3.17 Smoke test was conducted for the containment at 5/F

9 October 2018 – Smoke Test



Figure 3.18 Three-compartment decontamination unit for entry and exit into the works area at Rooftop



Figure 3.19 Smoke generator used for the smoke test at the containment of Rooftop



Figure 3.20 Air mover for the works area at Rooftop



Figure 3.21 Pressure monitor used for the smoke test at Rooftop with audible alarm and records printing out



Figure 3.22 Filters of the air mover at Rooftop

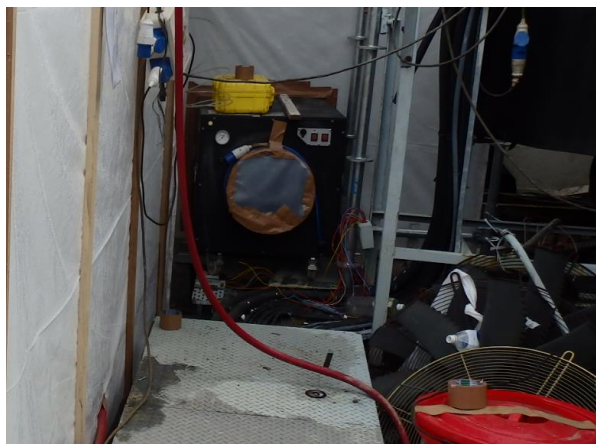


Figure 3.23 Stand-by air mover for the works area at Rooftop



Figure 3.24 Three-compartment decontamination unit for entry and exit into the works area at 5/F



Figure 3.25 Air movers for the works area at 5/F



Figure 3.26 Pressure monitor used for the smoke test at 5/F with audible alarm and records printing out



Figure 3.27 Filters of the air mover at 5/F



Figure 3.28 Smoke generator used for the smoke test at 5/F Incinerator Room



Figure 3.29 Lock is provided for the refuse storage area



Figure 3.30 Refuse storage area

- 3.2.4 The floor drain in the incinerator room was covered with a temporary seal. All openings were sealed with three-layers of fire retardant polythene sheets.
- 3.2.5 Two temporary structures were built at the Incinerator Room to enclose the incinerator units and at the Rooftop to enclose the associated chimney. Two three-compartment decontamination units were constructed for entry and exit in to the works areas at 5/F and Rooftop.
- 3.2.6 Environmental and safety notices, copies of the Further Environmental Permit, as well as warning signs were provided in conspicuous locations at the entrance of the works areas at 5/F and Rooftop.
- 3.2.7 Air movers were installed at the works areas of 5/F and Rooftop to exhaust air from the works area. Stand-by air movers were also installed.
- 3.2.8 Two smoke tests were carried out on 8 October 2018 and 9 October 2018 with non-toxic smoke to ensure the tightness of the containment and to check whether there are any stagnant pockets of air.
- 3.2.9 After a successful test, air mover was switched on to exhaust smoke from the containment, and to visually check that the absolute filters screen out the smoke effectively and that the pressure gauges read normal. The pressure was kept within the normal range from 0.05 to 0.15 inch of water (negative pressure). The audible alarm's integrity was ensured with the trigger level of 0.05 inch of water (negative pressure).
- 3.2.10 Based on the findings of the site audits during the reporting period, the overall EM&A performance of the Project is satisfactory.
- 3.2.11 Upon completion of containment and successful smoke tests, demolition of the incinerator and the associated chimney was commenced on 10 October 2018.

4 WORK CONDUCTED DURING DEMOLITION AND KEY FINDINGS

4.1 WORKS CONDUCTED

- 4.1.1 The objective of this section is to present the key findings of the site audits conducted during demolition works from 10 October 2018 to 18 October 2018.
- 4.1.2 The IEC works conducted in this reporting period are as follows:
- (1) IEC site audit on 12 October 2018
 - (2) IEC site audit on 16 October 2018

4.2 KEY FINDINGS OF SITE AUDITS

- 4.2.1 During the decommissioning works of the incinerator and the associated chimney, site audits were carried out for the Incinerator Room at 5/F and the associated chimney at Rooftop of UPB. Photos of the site audits are shown in **Figures 4.1 to 4.4**.

12 October 2018 – IEC Site Audit

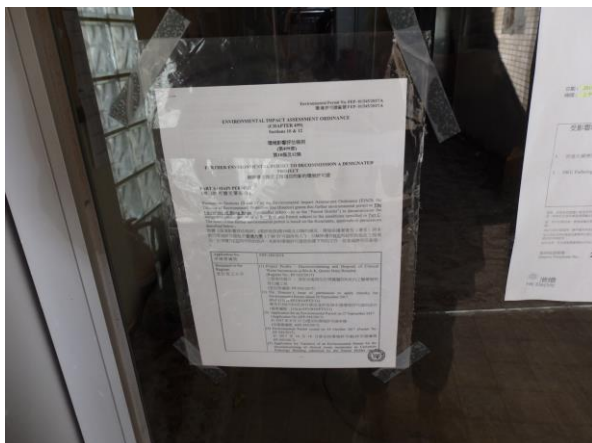


Figure 4.1 Copy of Further Environmental Permit is provided in conspicuous locations at the Project Site



Figure 4.2 Steel framework and outer steel shell were cut to smaller pieces

- 4.2.2 Environmental and safety notices, copies of the environmental permit, as well as warning signs were provided in conspicuous locations at the entrance of the works areas.
- 4.2.3 Steel framework and outer steel shell of the chimney were cut to smaller pieces for recycling.



Figure 4.3 Steel framework and outer steel shell were cut to smaller pieces



Figure 4.4 Dismantled chimney stored at the locked refuse storage area

- 4.2.4 During the site audits conducted on 12 October 2018 and 16 October 2018, no specific observation was identified from the site inspections.
- 4.2.5 The chimney was dismantled to manageable size from the top down starting from the rooftop area. Inner and outer steel shells were separated from insulation materials in the detached sections of the chimney before disposed of.
- 4.2.6 The detached sections of the chimney were wiped and then wrapped with three layers of fire retardant polythene with a third layer secured with duct tape.
- 4.2.7 Based on the findings of the site audits during the reporting period, the overall EM&A performance of the Project is satisfactory.

5 WORK CONDUCTED AFTER COMPLETION OF DEMOLITION WORKS AND KEY FINDINGS

5.1 WORKS CONDUCTED

- 5.1.1 The objective of this section is to present the key findings of the site audits conducted after completion of demolition works.
- 5.1.2 The IEC works conducted in this reporting period are as follows:
- (1) IEC site audit on 19 October 2018

5.2 KEY FINDINGS OF SITE AUDIT

- 5.2.1 Upon completion of demolition of the incinerator and the associated chimney, site audit was carried out for the Incinerator Room at 5/F and the associated chimney at Rooftop of UPB. Photos of the site audits are shown in **Figures 5.1 to 5.6**.

19 October 2018 – IEC Site Audit



Figure 5.1 Demolition of incinerator was completed



Figure 5.2 Wall-mounted control panel for incinerator was demolished



Figure 5.3 View of Incinerator Room



Figure 5.4 Demolition of the associated chimney of the incinerator was completed



Figure 5.5 View of Rooftop



Figure 5.6 Chemical waste to be disposed of at Chemical Waste Treatment Centre

- 5.2.2 Removal and decommissioning of incinerator and the associated chimney, as well as site clearance were completed on 19 October 2018.
- 5.2.3 During the site audit conducted on 19 October 2018, no specific observation was identified from the site inspection.
- 5.2.4 The residual ash inside the incinerator was removed by scrabbling. All inner walls of incinerator were cleaned using a High Efficiency Particulate Air (HEPA) vacuum cleaner and the wet wipes. The scrabbled material and the filtered materials from the HEPA vacuum cleaner were packed on site. The residual ash would be stored in polythene-lined steel drums provided by the Chemical Waste Treatment Centre (CWTC) for collection by licensed waste collector monitored by the Trip Ticket System and disposal of at the designated treatment facility.
- 5.2.5 The insulation-lined combustion furnace was dismantled to manageable size and wet wiped before wrapping them with three layers of fire retardant polythene with a third layer secured with duct tape.
- 5.2.6 Following the completion of the demolition work, all surfaces in the incinerator room were decontaminated by HEPA vacuuming and wet wiping. Then the innermost polythene sheet was sprayed with Polyvinyl Alcohol (PVA) and upon drying, the inner polythene sheet was peeled off. The PVA decontamination process was repeated for the second and third layers of the polythene sheets.
- 5.2.7 EPD's Direction for Disposal under Section 17 of Waste Disposal Ordinance was obtained prior to the disposal of the chemical waste (**Appendix A**).
- 5.2.8 All residual ash collected from the incinerator, used HEPA filters, scrabbled materials, the HEPA filtered materials, the combustion chamber, outer shell panels, inner steel shell and insulation materials of the

chimney, polythene wrapping sheets, used PPE, waste generated from the dismantling work of the containment and cloths used for wet wiping were properly stored for collection and disposal by licensed waste collector monitored by the Trip Ticket System.

- 5.2.9 Steel framework and outer steel shell of the chimney and the wall-mounted control panel of the incinerator were segregated from the chemical waste for collection by recycler.
- 5.2.10 Based on the findings of the site audit during the reporting period, the overall EM&A performance of the Project is satisfactory.

6 CONCLUSION

- 6.1.1 Smoke tests have been conducted before the commencement of the demolition works. Site audits have been carried out throughout the course of the proposed demolition works. No specific observation was identified from the site inspections.
- 6.1.2 Before commencement of the demolition works, two temporary structures were built at the Incinerator Room to enclose the incinerator unit and at the Rooftop to enclose the associated chimney. Two three-compartment decontamination units were constructed for entry and exit in to the works areas at 5/F and Rooftop. Environmental and safety notices, copies of the Further Environmental Permit, as well as warning signs were provided in conspicuous locations at the entrance of the works areas at 5/F and Rooftop.
- 6.1.3 Two successful smoke tests were carried out on 8 October 2018 and 9 October 2018 with non-toxic smoke to ensure the tightness of the containment and to check whether there are any stagnant pockets of air.
- 6.1.4 Removal and decommissioning of clinical waste incinerator and associated chimney were commenced on 10 October 2018 and completed on 19 October 2018.
- 6.1.5 All residual ash collected from the incinerator, used HEPA filters, scabbled materials, the HEPA filtered materials, the combustion chamber, outer shell panels, inner steel shell and insulation materials of the chimney, polythene wrapping sheets, used PPE, waste generated from the dismantling work of the containment and cloths used for wet wiping were properly stored for collection and disposal by licensed waste collector monitored by the Trip Ticket System.
- 6.1.6 Steel framework and outer steel shell of the chimney and the wall-mounted control panel of the incinerator were segregated from the chemical waste for collection by recycler.
- 6.1.7 Based on the findings of the site audits during the reporting period, the overall environmental performance of the Project is satisfactory.

APPENDIX

A

DIRECTIONS OF CHEMICAL WASTE DISPOSAL

Environmental Protection Department

Case No: 438449

環境保護署

Waste Disposal Ordinance (Chapter 354)

香港法例第354章廢物處置條例

Directions under Section 17 for Disposal of 'Part A' Chemical Waste

根據條例17條的規定處置訂明(甲類)化學廢物所發出的指示

To THE UNIVERSITY OF HONG KONG - PATHOLOGY BLDG
 致 (Attn: MR. PETER WU) Waste Producer Number 9311-171-T2354-49
 廢物產生者編號
 at M/E. 41 Coska Street, Hung Hom, KLN
 地址

With reference to your written Notification of 'Part A' Chemical Waste dated 27/09/2018, you shall dispose of the notified waste(s) in accordance with the directions and any additional instructions stated below.

根據二零一八年九月廿七日致本署的訂明(甲類)化學廢物通知書, 貴署須將中報的廢物依照下文的指示及附加規條, 予以處置。

WASTE(S) SUBJECT TO THESE DIRECTIONS:- Waste Location: U. PATHOLOGY BLDG, PROFESSIONAL BLK, NEW CLINICAL B, QUEEN MARY HOSPITAL COMPOUND, POI KULAM ROAD, HK

Item 廢物項目	Waste Type/Chemical Name 廢物種類/化學名稱	Waste Code 廢物代號	Dangerous Goods (Category) 危險物品(類別)	Physical Form 廢物形態	Notification Reference No. 通知書編號	Quantity* Notified 報稱數量*
1.	WASTE CONTAINING DIOXINS	102519	-	SOLID	1810-0755-1	500 L

*The quantity notified is claimed by the notifier and the actual quantity should be that measured when the waste is delivered to the waste disposal facility.
 *報稱數量是報稱者所申報的重量, 其真實重量應是將廢物運到廢物處置設施過磅後所得的重量。

Item 廢物項目	Directions on Disposal 廢物處置指示	Additional Instructions/Safety Precautions 附加規條/安全措施
1 to 1	<ol style="list-style-type: none"> Deliver waste to the Chemical Waste Treatment Centre (CWTC) at 51 Tsing Yi Road, South, Tsing Yi, N.T. Valid Period: 20 October, 2018 to 19 November, 2018 Attach copy of this 'Directions on Disposal' to the trip ticket used for disposal during the consignment. Follow any safety instruction given by EPD staff at the waste storage premises/generation sites/landfill. Make prior arrangement with the CWTC for every delivery of waste at Tel. no.: 2434-6450. 	<ol style="list-style-type: none"> Comply with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Keep away from sources of ignition. Keep containers tightly closed and handle them with care. In case of fire and/or explosion do not breathe fumes. Wear suitable protective clothing, safety shoes, gloves and proper face mask.

For any queries, you may contact the Environmental Protection Department at Tel. No. 2835 1063
 如有任何疑問, 請撥電 2835 1063 向環境保護署查詢。

Date
日期: **19 October, 2018**



Assistant Environmental Protection Officer
 (NG Kwok-hin, Hans)
 for Director of Environmental Protection
 環境保護署署長 < 伍國軒 代行 >

WARNING: Any person(s) who fails to comply with any direction given by the Director of Environmental Protection under Section 17 of the Waste Disposal Ordinance commits an offence punishable with a maximum fine of \$100,000 for the first offence; and a maximum fine of \$200,000 and 6 months' imprisonment for a second or subsequent offence.

警告: 任何人士若不遵守環境保護署長按廢物處置條例第十七條所發出的指示, 即屬違法。初犯者最高可被判罰款港幣 100,000 元, 次犯或再犯者最高可被判罰款港幣 200,000 元及監禁六個月。

Co. Ref.: