MONTHLY EM&A REPORT

OSCAR Bioenergy Joint Venture

Contract No. EP/SP/61/10
Organic Resources Recovery
Centre (Phase 1):
Forty-fifth Monthly EM&A Report

1 February 2019 - 28 February 2019

Environmental Resources Management

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Organic Resources Recovery Centre, Phase I

Monthly EM&A Report (1 February 2019 – 28 February 2019)

(March 2019)

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Date:	14 March 2019

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Reference 0279222

For and on behalf of ERM-Hong Kong, Limited
Approved by: Frank Wan
Signed: Nacht
Certified by:(Environmental Team Leader - Mandy To)
Certified by:
Date: 11 March 2019

CONTENTS

EXECUTIVE SUMMARY

1	INTRODUCTION	1
1.1	PURPOSE OF THE REPORT	1
1.2	STRUCTURE OF THE REPORT	1
2	PROJECT INFORMATION	3
2.1	BACKGROUND	3
2.2	GENERAL SITE DESCRIPTION	3
2.3	CONSTRUCTION ACTIVITIES	4
2.4	PROJECT ORGANISATION AND MANAGEMENT STRUCTURE	4
2.5	STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS	4
3	ENVIRONMENTAL MONITORING REQUIREMENTS, ENVIRONMENT MITIGATION MEASURES	TAL 6
4	IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS	7
5	WASTE MANAGEMENT	8
6	ENVIRONMENTAL INSPECTIONS	9
6.1	WEEKLY SITE AUDITS	9
6.2	LANDSCAPE AND VISUAL AUDIT	10
7	ENVIRONMENTAL NON-CONFORMANCE	11
7.1	SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE	11
7.2	SUMMARY OF ENVIRONMENTAL COMPLAINT	11
7.3	SUMMARY OF ENVIRONMENTAL SUMMON AND SUCCESSFUL PROSECUTION	11
8	FUTURE KEY ISSUES	12
8.1	KEY ISSUES FOR THE COMING MONTH	12
8.2	CONSTRUCTION PROGRAMME	12
g	CONCLUSIONS	13

LIST OF TABLES

TABLE 2.2	SUMMARY OF ENVIRONMENTAL LICENSING, NOTIFICATION AND PERMIT STATUS
TABLE 5.1	QUANTITIES OF WASTE GENERATED FROM THE PROJECT
TABLE 8.1	WORKS TO BE UNDERTAKEN IN THE NEXT REPORTING PERIOD
	LIST OF ANNEXES
ANNEX A	LOCATION OF PROJECT
ANNEX B	WORKS LOCATION
ANNEX C	PROGRAMME FOR THE PROJECT
ANNEX D	PROJECT ORGANIZATION CHART AND CONTACT DETAIL
ANNEX E	IMPLEMENTATION SCHEDULE OF MITIGATION MEASURES
ANNEX F	WASTE FLOW TABLE
ANNEX G	ENVIRONMENTAL COMPLAINT, ENVIRONMENTAL SUMMONS AND PROSECUTION LOG
ANNEX H	ODOUR MONITORING RESULT

TABLE 2.1 SUMMARY OF ACTIVITIES UNDERTAKEN IN THE REPORTING PERIOD

EXECUTIVE SUMMARY

The construction works of *No. EP/SP/61/10 Organic Resources Recovery Centre Phase 1 (the Project)* commenced on 21 May 2015. This is the 45th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 to 28 February 2019 in accordance with the EM&A Manual.

Summary of Works undertaken during the Reporting Month

Works undertaken in the reporting month included:

- Systems being operated waste reception, pre-treatment, CAPCS extraction, the digesters, the centrifuge, the desulphurisation, the emergency flare, the CHPs, the ASP and the biological wastewater treatment plant; and
- Process commissioning in progress, operations included waste reception, pre-treatment, CAPCS extraction, the digesters, the centrifuge, the composting tunnels, the desulphurisation, the emergency flare, the CHPs, the ASP and the biological waste water treatment plant (about 110-130t/d SSOW input).

Environmental Monitoring and Audit Progress

A summary of the monitoring activities undertaken in this reporting period is listed below:

Joint Environmental Site Inspections

5 times

Landscape & Visual Inspections

3 times

Odour

Odour patrol were conducted by representatives of the Contractor, the ER and Employer (EPD Project Team) on 1, 4, 8, 9, 11, 13, 15, 20, 22, 25 and 27 February 2019. The Independent Odour Patrol Team, ALS Technichem (HK) Pty Ltd (ALS), has also joined the odour patrol on 20 February 2019. No Level 2 Odour Intensity was recorded during odour patrols.

No air sample was collected during this reporting period.

Waste Management

Waste generated from this Project includes inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction wastes).

Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated spoil. In total, 0.00 tonnes of inert C&D material were generated from the Project.

Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. 0.00 kg of metals, 0.00 kg of papers/ cardboard packing and 0.00 kg of plastics were sent to recyclers for recycling during the reporting period. 26.69 tonnes of general refuse was disposed of at the landfill.

0.00 L of chemical waste was collected by licenced waste collector.

Environmental Site Inspection

Five weekly joint environmental site inspections were carried out by the representatives of the Contractor and the ET. The IEC was also present at the joint inspection on 22 February 2019. Details of the audit findings and implementation status of the mitigation measures are presented in *Section 6.1*.

Landscape & Visual

On-site inspections on landscape and visual mitigation measures were performed on 1, 15 and 26 February 2019. Details of the audit findings and implementation status of the mitigation measures are presented in *Sections 6.2*.

Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance was recorded during the reporting period.

No incident occurred during the reporting period.

No complaint/ summon/prosecution was received in this reporting period.

Future Key Issues

Works to be undertaken in the next reporting month include:

Continue testing and process commissioning works.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by OSCAR Bioenergy Joint Venture (the Contractor) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the *Contract No. EP/SP/61/10 of Organic Waste Treatment Facilities Phase I*, which the project name has been updated to *Organic Resources Recovery Centre (Phase I)* (the Project) since November 2017.

1.1 Purpose of the Report

This is the 45th EM&A report which summarises the monitoring results and audit findings for the EM&A programme during the reporting period from 1 to 28 February 2019.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1: **Introduction**

It details the scope and structure of the report.

Section 2: **Project Information**

It summarises the background and scope of the Project, site description, project organization, construction programme, activities undertaken and status of the Environmental Permits (EP)/licences.

Section 3: Environmental Monitoring Requirements

It summarises the environmental monitoring requirements including monitoring parameters, programmes, methodologies, frequency, locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the EM&A Manual and approved EIA report.

Section 4: **Implementation Status on Environmental Mitigation Measures**It summarises the implementation of environmental protection

measures during the reporting period.

Section 5: Waste Management

It summarises the quantity of public fill and construction waste generated in the reporting period

Section 6: Environmental Site Inspection

It summarises the audit findings of the weekly site inspections undertaken within the reporting period.

Section 7: Environmental Non-conformance

It summarises any exceedance of environmental performance standard, environmental complaints and summons received within the reporting period.

Section 8: Further Key Issues

It summarises the impact forecast for the next reporting month.

Section 9: Conclusions

2 PROJECT INFORMATION

2.1 BACKGROUND

The Organic Resources Recovery Centre (ORRC) Phase I development (hereinafter referred to as "the Project") is to design, construct and operate a biological treatment facility with a capacity of about 200 tonnes per day and convert source-separated organic waste from commercial and industrial sectors (mostly food waste) into compost and biogas through proven biological treatment technologies.

The environmental acceptability of the construction and operation of the Project had been confirmed by findings of the associated Environmental Impact Assessment (EIA) Study completed in 2009. The Director of Environmental Protection approved this EIA Report under the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499) in February 2010 (Register No.: AEIAR-149/2010) (hereafter referred to as the approved EIA Report). Subsequent Report on Re-assessment on Environmental Implications and Report on Re-assessment on Hazard to Life Implications were completed in 2013, respectively.

An Environmental Permit (EP) (No. EP-395/2010) was issued by the Environmental Protection Department (EPD) to the EPD, the Permit Holder, on 21 June 2010 and varied on 18 March 2013 (No. EP-395/2010/A) and 21 May 2013 (No. EP-395/2010/B), respectively. The Design Build and Operate Contract for the ORRC Phase 1 (Contract No. EP/SP/61/10 Organic Resources Recovery Centre (Phase 1) (the Contract)) was awarded to SITA Waste Services Limited, ATAL Engineering Limited and Ros-Roca, Sociedad Anonima jointly trading as the OSCAR Bioenergy Joint Venture (OSCAR or the Contractor). A Further EP (No. FEP-01/395/2010/B) was issued by the EPD to the OSCAR on 16 February 2015. Variation to both EPs No. EP-395/2010/B and No. FEP-01/395/2010/B were made in December 2015. The latest EPs, No. EP-395/2010/C and No. FEP-01/395/2010/C, were issued by the EPD on 21 December 2015.

Under the requirements of Condition 5 of the EP (No. FEP-01/395/2010/C), an Environmental Monitoring and Audit (EM&A) programme as set out in the Agreement No. CE7/2008 (EP) EM&A Manual (hereinafter referred to as EM&A Manual) is required to be implemented. ERM-Hong Kong, Ltd (ERM) has been appointed by OSCAR as the Environmental Team (ET) to undertake the EM&A programme for the Contract.

The construction works commenced on 21 May 2015. Substantial completion of the construction works was confirmed on 3 December 2018. However, the construction phase of the EM&A programme has not been terminated as testing and commissioning is in progress.

2.2 GENERAL SITE DESCRIPTION

The Project Site is located at Siu Ho Wan in North Lantau with an area of about 2 hectares. The layout of the Project Site is illustrated in *Annex A*.

2.3 CONSTRUCTION ACTIVITIES

A summary of the major activities undertaken in the reporting period is shown in *Table 2.1*. The site layout plan is shown in *Annex B*. The construction programme of the Project is presented in *Annex C*.

Table 2.1 Summary of Activities Undertaken in the Reporting Period

Activities Undertaken in the Reporting Period

- Systems being operated waste reception, pre-treatment, CAPCS extraction, the digesters, the centrifuge, the desulphurization, the emergency flare, the CHPs, the ASP and the biological waste water treatment plant;
- Process commissioning in progress waste reception, pre-treatment, CAPCS extraction, the digesters, the centrifuge, the composting tunnels, the desulphurisation, the emergency flare, the CHPs, the ASP and the biological waste water treatment plant (about 110-130 t/d SSOW input).

2.4 PROJECT ORGANISATION AND MANAGEMENT STRUCTURE

The project organisation chart and contact details are shown in *Annex D*.

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the valid permits, licences, and/or notifications on environmental protection for this Project is presented in *Table 2.2*.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental	FEP-01/395/2010/C	Throughout the	Permit granted on 21
Permit		Contract	December 2015
Notification of	Ref No. 386715	Throughout the	
Construction Works		Contract	
under the Air			
Pollution Control			
(Construction Dust)			
Regulation			
Effluent Discharge	WT00024352-2016	3 June 2016 - 30	Approved on 3 June
License		June 2021	2016
Construction Noise	GW-RW0538-18	21 January 2019-20	Approved on 31
Permit - P1&P2	(Superseded CNP	July 2019	December 2018
	GW-RW0229-18)		
Construction Noise	GW-RW0347-18	30 September	Approved on 15
Permit - P5 (slope)	(superseded the	2018 - 29 March	August 2018
	GW-RW0107-18)	2019	
Chemical Waste	WPN 5213-961-	Throughout the	Approved on 29 April
Producer Registration	O2231-01	Contract	2015

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Waste Disposal	Account number:	Throughout the	-
Billing Account	702310	Contract	

3 ENVIRONMENTAL MONITORING REQUIREMENTS, ENVIRONMENTAL MITIGATION MEASURES

All the relevant environmental mitigation measures listed in the approved EIA Report and EM&A Manual are summarised in *Annex E*.

According to the EM&A Manual and EP requirements, no air quality, noise and water quality monitoring is required during the construction phase.

According to the EM&A Manual and EP requirements, odour monitoring is required during the commissioning phase.

The odour patrols shall be conducted by an odour patrol team. The odour patrol team will patrol and sniff along an odour patrol route at the site boundary. The implementation of the odour patrol shall be subject to the prevailing weather forecast condition and no odour patrol should be carried out during rainy day. The odour patrol team should be comprised of at least two independent trained personnel / competent persons, who should pass a set of screening tests.

Odour patrols were conducted by representatives of the Contractor, the ER and Employer (EPD Project Team) on 1, 4, 8, 9, 11, 13, 15, 20, 22, 25 and 27 February 2019. The Independent Odour Patrol Team, ALS Technichem (HK) Pty Ltd (ALS), has also joined the odour patrol on 20 February 2019. According to the EM&A Manual and EP requirements, it is considered an exceedance if the odour intensity recorded by the panellists is Level 2 or above. During this reporting period, no Level 2 Odour Intensity was recorded. The odour patrol results are shown in *Annex H*.

No air sample was collected during this reporting period.

Bi-weekly landscape and visual audit is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures recommended in the approved EIA Report are fully achieved.

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has implemented environmental mitigation measures and requirements as stated in the approved EIA Report and EM&A Manual. The implementation status of the measures during the reporting period is summarised in *Annex E*.

WASTE MANAGEMENT

5

Wastes generated from this Project include inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction waste). Construction waste comprises general refuse, metals and paper/cardboard packaging materials. Metals generated from the Project are also grouped into construction waste as the materials were not disposed of with others at public fill. Reference has been made to the Monthly Summary Waste Flow Table prepared by the Contractor (see *Annex F*). With reference to the relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in *Table 5.1*.

Table 5.1 Quantities of Waste Generated from the Project

Month/Year		Quantity		
	Total Inert C&D Non-inert C&D Materials (b)			1s (b)
	Materials Generated (a)	C&D Materials Recycled (c)	C&D Waste Disposed of at Landfill ^(d)	Chemical Waste
January 2019	0.00 tonnes	0.00 kg	26.69 tonnes	0.00 L

Notes:

- (a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated spoil. In total, 0.00 tonnes of inert C&D material were generated from the Project. The detailed waste flow is presented in *Annex F*.
- (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
- (c) 0.00 kg of metals, 0.00 kg of papers/ cardboard packing and 0.00 kg of plastics were sent to recyclers for recycling during the reporting period.
- (d) Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at NENT Landfill by subcontractors.

6 ENVIRONMENTAL INSPECTIONS

6.1 WEEKLY SITE AUDITS

Joint site inspections were conducted by representatives of the Contractor, the ER, IC and the ET on 1, 8, 15, 22 and 26 February 2019. The IEC was also present at the joint inspection on 22 February 2019. Follow-up actions resulting from the last site inspections were generally taken as reported by the Contractor.

Key observations during the reporting period are summarised as follows:

1 February 2019

- Chemical drums were observed near Building 2 and the contractor was advised to provide drip trays to the chemical drums or replace the drums to designed storage area according to the Code of Practice.
- Construction parts were observed next to Building 2 and the contractor was advised to remove or store the parts properly to avoid stockpile of parts outdoor.

8 February 2019

- Chemical drums were observed near Building 2 and the contractor was advised to provide drip trays to the chemical drums or replace the drums to designed storage area according to the Code of Practice.
- Construction parts were observed next to Building 2 and the contractor was advised to remove or store the parts properly to avoid stockpile of parts outdoor.

15 February 2019

- Chemical drums were observed near Building 2 and the contractor was advised to provide drip trays to the chemical drums or replace the drums to designed storage area according to the Code of Practice.
- Construction parts were observed next to Building 2 and the contractor
 was advised to remove or store the parts properly to avoid stockpile of
 parts outdoor.

22 February 2019

 Chemical drums were observed near Building 2 and the contractor was advised to provide drip trays to the chemical drums or replace the drums to designed storage area according to the Code of Practice.

26 February 2019

• Chemical drums were observed near Building 2 and the contractor was advised to provide drip trays to the chemical drums or replace the drums

to designed storage area according to the Code of Practice.

6.2 LANDSCAPE AND VISUAL AUDIT

In accordance with the EM&A Manual, bi-weekly landscape and visual inspection is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures recommended in the EIA Report are fully achieved. On-site inspections of the landscape and visual mitigation measures were performed on 1, 15 and 26 February 2019.

It was confirmed that the necessary landscape and visual mitigation measures as summarised in *Annex E* were generally implemented by the Contractor. No specific observation was found during site inspections on 1, 15 and 26 February 2019.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance event was received during the reporting period.

7.2 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting period.

7.3 SUMMARY OF ENVIRONMENTAL SUMMON AND SUCCESSFUL PROSECUTION

No summon/prosecution was received during the reporting period. The cumulative summons/prosecution log is shown in *Annex G*.

8 FUTURE KEY ISSUES

8.1 KEY ISSUES FOR THE COMING MONTH

Works to be undertaken for the coming reporting period are summarised in *Table 8.1*.

Table 8.1 Works to be undertaken in the Next Reporting Period

Activities in the Next Reporting Period

Continue the testing and process commissioning works.

Only testing and process commissioning works are expected in the next reporting period. No major construction activities have been scheduled in March 2019 and hence no potential environmental impacts are expected.

8.2 CONSTRUCTION PROGRAMME

The most up-to-date construction programme for the Project is presented in *Annex C*.

9 CONCLUSIONS

This EM&A Report presents the EM&A programme undertaken during the reporting period from 1 to 28 February 2019 in accordance with EM&A Manual and requirements of EP (FEP-01/395/2010/C).

No air quality, noise and water quality monitoring is required during the construction phase.

Odour patrols and monitoring are required during the commissioning phase. No exceedance of odour intensity limit for all odour patrol events. No air sample was collected during this reporting period.

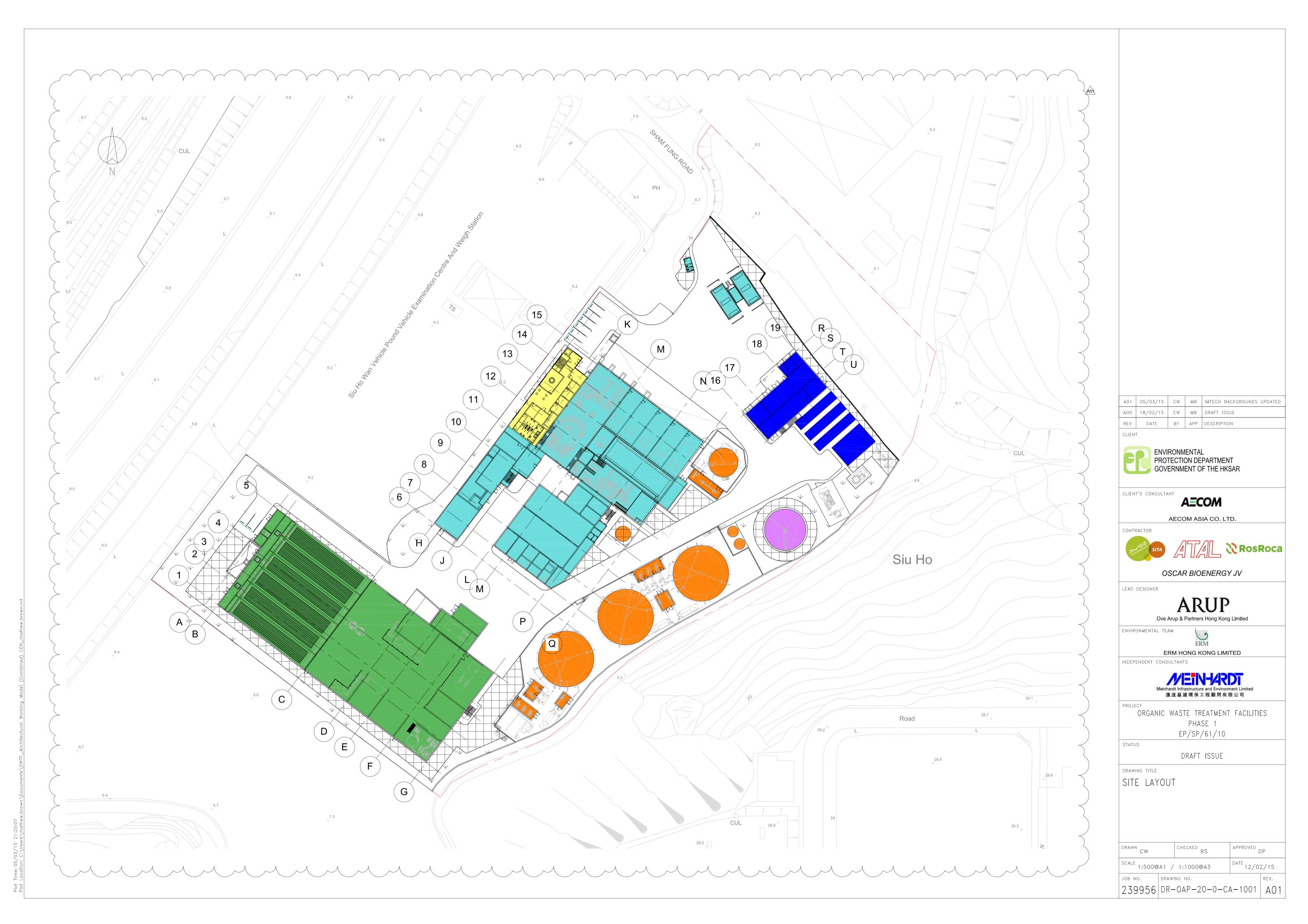
Bi-weekly landscape and visual monitoring was conducted in the reporting period. The necessary landscape and visual mitigation measures recommended in the approved EIA Report were generally implemented by the Contractor.

No incident occurred during reporting period.

No complaint/summon/prosecution was received.

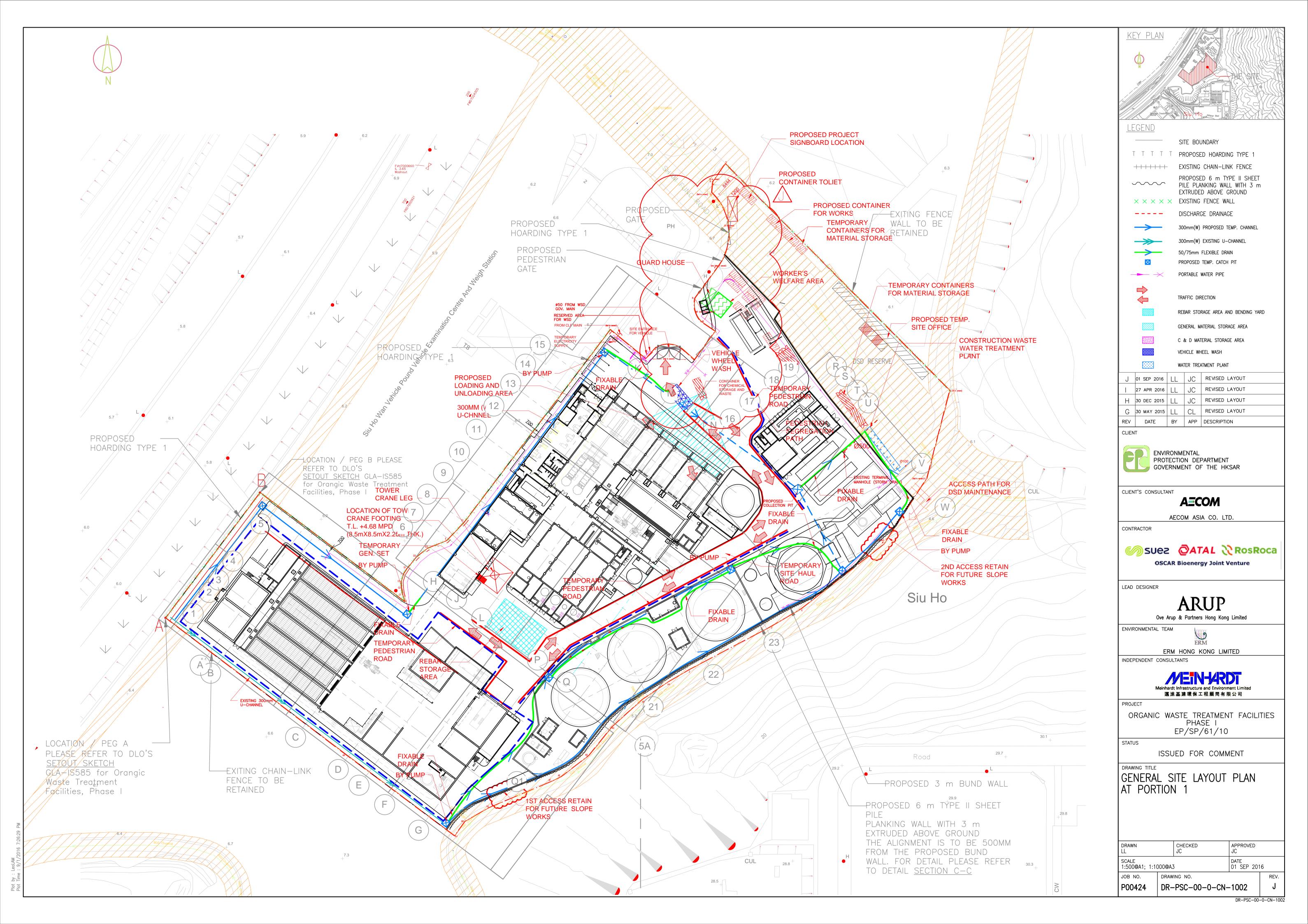
Annex A

Project Layout



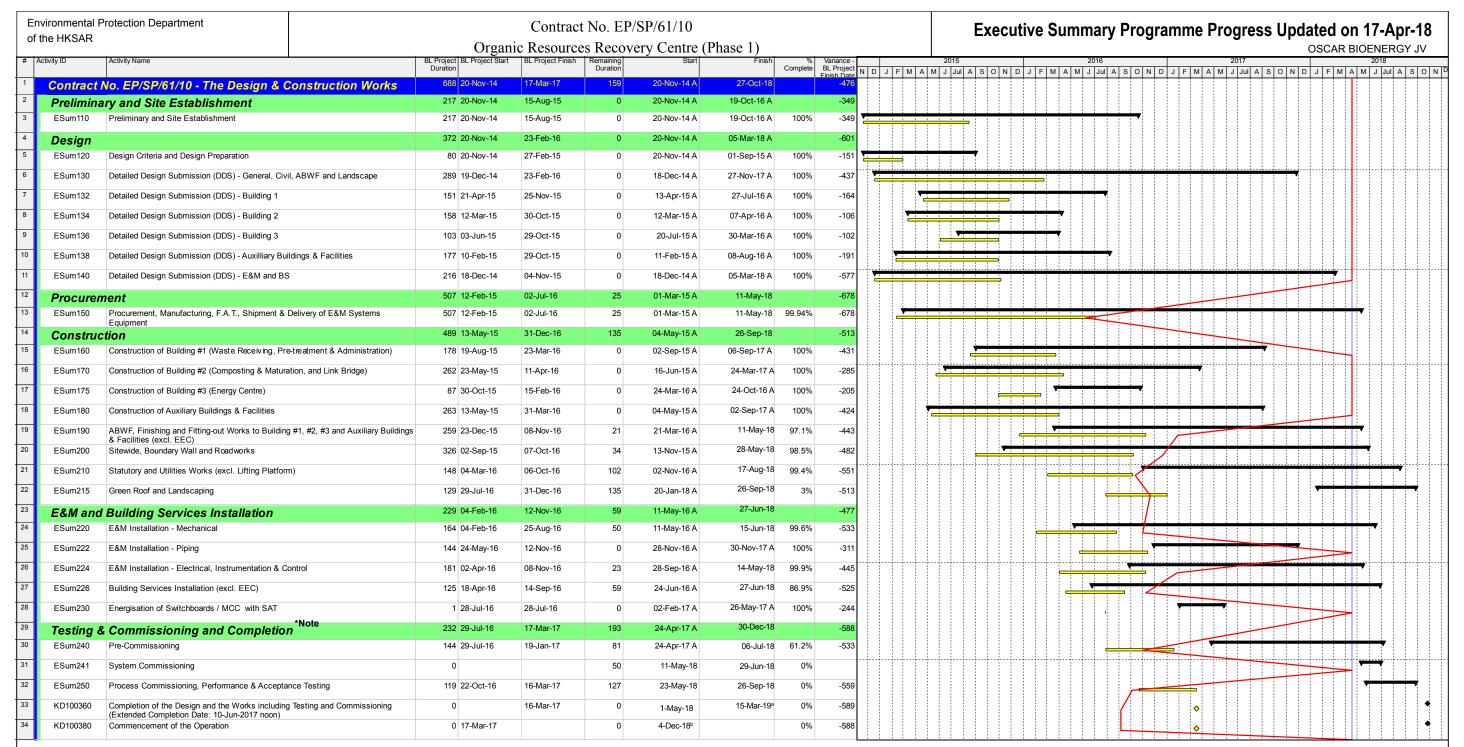
Annex B

Works Location



Annex C

Construction Programme of the Project



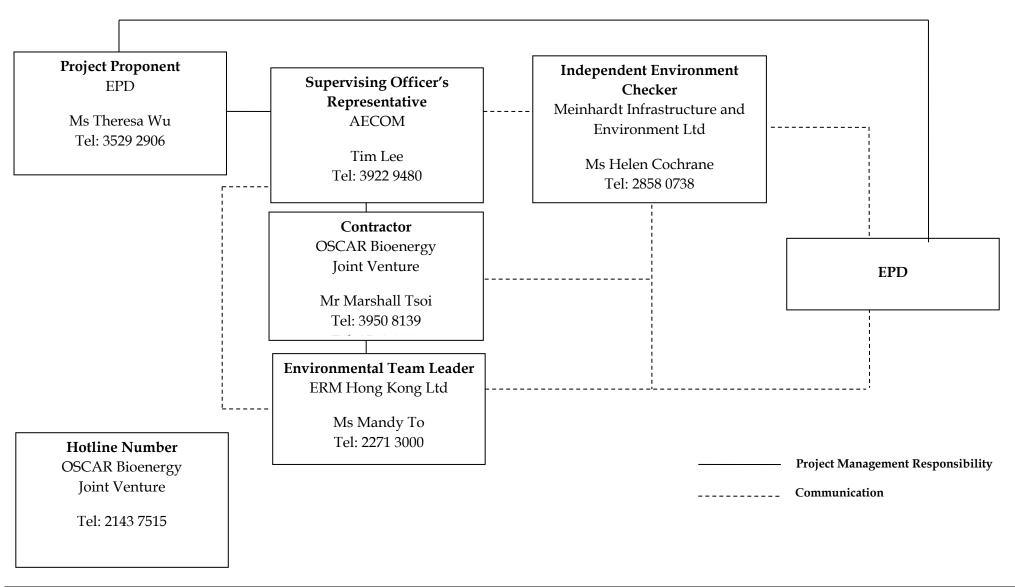
a: The T&C is in progress.

b: The confirmation for substantial completion has been dated to 3 December 2018

Annex D

Project Organization Chart with Contact Details

<u>Project Organization During Construction Phase (with contact details)</u>



Annex E

Implementation Schedule of Mitigation Measures

$Annex\ E\qquad Summary\ of\ Mitigation\ Measures\ Implementation\ Schedule$

EIA Ref.	EM&A	Environmental Protection Measures	Location/ Timing	Status		
	Log Ref.					
	Summary of Environmental Mitigation Measures in the EIA and EM&A Manual					
		-		T.,		
A. A. 3.73	ir Quality 2.5	Air Pollution Control (Construction Dust) Regulation & Good Site Practices Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. Use of frequent watering for particularly dusty construction areas and areas close to ASRs. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines. Open stockpiles should be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. Imposition of speed controls for vehicles on unpaved site roads. 8 kilometers per hour is the recommended limit. Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs. Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed. Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with	Construction Site / During Construction Period			
		an effective fabric filter or equivalent air pollution control system.				
В. Н	azard to Life					
4.102	3.3	Construction Phase	Construction Site / During	√		
2.102	5.5	• The number of workers on site during construction stage should be kept at the same level as	Construction Period	,		

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
	Log Ref.	the assessment. Construction works should be suspended when delivery of chlorine takes place. The Contractor should be constructed along the boundary facing the SHWWTW. the assessment should be constructed along the boundary facing the SHWWTW. Emergency evacuation procedures should be formulated and the Contractor should ensure all workers on site should be familiar with these procedures as well as the route to escape in case of gas release incident. Relevant Departments, such as Fire Services Department (FSD), should be consulted during the development of Emergency procedures. Diagram showing the escape routes to a safe place should be posted in the site notice boards and at the entrance/exit of site. A copy of the latest version emergency procedures should be dispatched to Tung Chung Fire Station for reference once available. The emergency procedures should specify means of providing a rapid and direct warning (e.g. Siren and Flashing Light) to construction workers in the event of chlorine gas release in the SHWWTW.		
		 The Contractor should establish a communication channel with the SHWWTW operation personnel and FSD during construction stage. In case of any hazardous incidents in the treatment works, operation personnel of SHWWTW should advise the Contractor to inform construction workers to proceed with emergency procedure. The Contractor should appoint a Liaison Officer to communicate with FSD Incident Commander on site in case of emergency. Introduction training should be provided to any staff before carryout construction works at the Project site. Periodic drills should be coordinated and conducted to ensure all construction personnel are familiar with the emergency procedures. Upon completion of the drills, a review on every step taken should be conducted to identify area of improvement. Prior notice of periodic drills should be given to Station Commander of Tung Chung Fire Station. Joint operational exercise with FSD and SHWWTW is recommended. 		
	Vater Quality			
5.44	4.5	<u>Construction site run-off and general construction activities:</u> The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage should be adopted where applicable.	Construction Site / During Construction Period	√
5.45	4.5	Excavation of Soil Materials The construction programme should be properly planned to minimise soil excavation, if any, in rainy seasons. This prevents soil erosion from exposed soil surfaces. Any exposed soil surfaces should also be properly protected to minimise dust emission. In areas where a large amount of exposed soils exist, earth bunds or sand bags should be provided. Exposed stockpiles should be covered with tarpaulin or impervious sheets at all times. The stockpiles of materials should be	Construction Site / During Construction Period	√ √

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		placed at locations away from any stream courses so as to avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted and protected by permanent work.		
5.46	4.5	Accidental spillage of chemicals: Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Construction Site / During Construction Period	√
5.47	4.5	Maintenance of vehicles and equipments involving activities with potential for leakage and spillage should only be undertaken within the areas which appropriately equipped to control these discharges.	Construction Site / During Construction Period	√
5.48	4.5	Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal.	Construction Site / During Construction Period	√ ·
5.49	4.5	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: • Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. • Chemical waste containers should be suitably labeled, to notify and warn the personnel who are handling the wastes, to avoid accidents. • Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Construction Site / During Construction Period	<>
5.50	4.5	Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid entering to the nearby watercourses. Stockpiles of cement and other construction materials should be kept covered when not being used. Rubbish and litter from construction sites should also be collected to prevent spreading of rubbish and litter from the site area. It is recommended to clean the construction sites on a regular basis.	Construction Site / During Construction Period	√
5.51	4.5	Sewage Effluent	Work site/During the	

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		The presence of construction workers generates sewage. It is recommended to provide sufficient chemical toilets in the works areas. The toilet facilities should be more than 30m from any watercourse. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis.	construction period	
5.52	4.5	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the project. Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site.	Work Site / During Construction Period	√ ·
5.53	4.5	Nullah Decking To minimize the potential water quality impacts from the nullah reconstruction works, the practices outlined below should be adopted where applicable: The proposed works should be carried out within the dry season between October and March when the flow in the open nullah is low. The use of less or smaller construction plants may be specified to reduce the disturbance to the nullah bed. Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from the nullah and any water courses during carrying out of the construction works. Stockpiling of construction materials and dusty materials should be covered and located away from the nullah any water courses. Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nullah and nearby water receivers. Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the nullah, where practicable. Construction effluent, site run-off and sewage should be properly collected and/or treated. Any works site inside the nullah should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the water quality. Proper shoring may need to be erected in order to prevent soil/mud from slipping into the nullah and nearby watercourse.	Work Site / During Construction Period	N/A
D. V	 Vaste Managem	l nent	l	
6.41	5.4	Good Site Practices	Work Site / During	<>

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		Recommendations for good site practices during the construction phase would include: Obtain relevant waste disposal permits from appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and subsidiary Regulations and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); Provide staff training for proper waste management and chemical handling procedures; Provide sufficient waste disposal points and regular waste collection; Provide appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; Carry out regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; Separate chemical wastes for special handling and disposed of to licensed facility for treatment; and Employ licensed waste collector to collect waste.	Construction Period	
6.42	5.5	Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: • Design foundation works that could minimise the amount of excavated material to be generated; • Provide training to workers on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling; • Sort out demolition debris and excavated materials from demolition works to recover reusable/ recyclable portions (i.e. soil, broken concrete, metal etc.); • Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • Encourage the collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; and • Plan and stock construction materials carefully to minimize the amount of waste to be generated and to avoid unnecessary generation of waste.	Work Site/During Design & Construction Period	
6.44	5.7	Excavated and C&D Materials In order to minimise the impact resulting from collection and transportation of C&D material for off-site disposal, the excavated material arising from site formation and foundation works should be reused on-site as backfilling material and for landscaping works as far as practicable. Other mitigation requirements are listed below: • A WMP, which becomes part of the Environmental Management Plan (EMP), should be prepared in accordance with ETWB TCW No.19/2005;	Work Site/During Design & Construction Period	√ √

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status			
		 A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) should be adopted for easy tracking; and In order to monitor the disposal of excavated and C&D material at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be adopted (refer to ETWB TCW No. 31/2004). 					
6.45 – 6.46	5.8 - 5.9	An EMP should be prepared and implemented in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from construction activities. The EMP should be submitted to the Supervising Officer (SO) and Supervising Officer's Representative (SOR) for approval. The EMP should be reviewed regularly and updated, preferably on a monthly basis. A system should be devised to work for on-site sorting of excavated and C&D materials and promptly removing all sorted and process materials arising from the construction activities to minimize temporary stockpiling on-site. The system should be included in the EMP identifying the source of generation, estimated quantity, arrangement for on-site sorting, collection, temporary storage areas and frequency of collection by recycling Contractors or frequency of removal off-site.	Work Site/During Design & Construction Period	√			
6.47	5.10	Chemical Waste Should chemical wastes be produced at the construction site, the Contractor would be required to register with EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste (such as explosive, flammable, oxidizing, irritant, toxic, harmful, or corrosive). The Contractor should employ a licensed collector to transport and dispose of the chemical wastes, to either the CWTC in Tsing Yi, or any other licensed facilities, in accordance with the Waste Disposal (Chemical Waste) General) Regulation.	Work Site / During Construction Period	√			
6.48	5.11	General Refuse General refuse should be stored in enclosed bins or compaction units separated from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Work Site / During Construction Period	V			
E. Landscape and Visual							
7.99 & Table 7.7	Table 6.1	Construction Phase Topsoil, where identified, should be stripped and stored for re-use in the construction of the	Work Site / During Construction Period	√			

EIA Ref.	EM&A	Environmental Protection Measures	Location/ Timing	Status
	Log Ref.			
		soft landscape works, where practical		
		 Compensatory tree planting should be provided to compensate for felled trees. 		
		- Compensation tree species shall be chosen from both indigenous and ornamental species		
		- Compensatory tree planting quantities shall be as per DLO approved requirement.		
		Control of night-time lighting		
		Erection of decorative screen hoarding compatible with the surrounding setting		
F. N	loise			
8.25	7.3	Good Site Practice:	Work site/During Design &	$\sqrt{}$
		Only well-maintained plant should be operated on-site and plant should be serviced	Construction Stages	
		regularly during the construction program;		
		• Mobile plant, if any, should be sited as far from noise sensitive receivers (NSRs) as possible;		
		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;		
		• Plant known to emit noise strongly in one direction should, wherever possible, be orientated		
		so that the noise is directed away from the nearby NSRs; and		
		Material stockpiles and other structures should be effectively utilized, wherever practicable,		
		in screening noise from on-site construction activities.		

Remark:

- Compliance of Mitigation Measures
 Compliance of Mitigation but need improvement <>
- X
- Non-compliance of Mitigation Measures
 Non-compliance of Mitigation Measures but rectified by OSCAR Bioenergy JV \blacktriangle
- Deficiency of Mitigation Measures but rectified by OSCAR Bioenergy JV Δ
- N/A Not Applicable in Reporting Period

Annex F

Waste Flow Table

No. EP/SP/61/10 of Organic Resources Recovery Centre (Phase I) Monthly Summary Waste Flow Table

		Actual Quantities of Inert C&D Materials Generated					Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated				
Month	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)	
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne	
May 2015	29.58	0.00	0.00	0.00	29.58	0.00	0.00	0.00	0.00	0.00	
June 2015	2226.90	0.00	0.00	0.00	2226.90	0.00	0.00	0.00	0.00	9.66	
July 2015	2832.27	0.00	0.00	0.00	2832.27	0.00	0.00	0.00	0.00	33.68	
August 2015	6657.25	0.00	0.00	0.00	6657.25	0.00	20.00	0.00	0.00	55.06	
September 2015	5467.05	0.00	0.00	0.00	5467.05	3480.00	0.00	0.00	0.00	83.81	
October 2015	5419.04	0.00	0.00	0.00	5419.04	18710.00	0.00	0.00	0.00	20.45	
November 2015	1375.26	0.00	0.00	0.00	1375.26	21610.00	0.00	0.00	0.00	17.38	
December 2015	2199.56	75.28	0.00	0.00	2124.28	0.00	41.00	0.00	0.00	21.83	
January 2016	4601.43	0.00	0.00	0.00	4601.43	18140.00	50.00	0.00	640.00	20.86	
February 2016	4167.01	0.00	0.00	0.00	4167.01	510.00	79.00	0.00	0.00	16.57	
March 2016	299.92	41.28	0.00	0.00	258.64	22320.00	75.00	0.00	0.00	22.69	
April 2016	3186.37	98.37	0.00	0.00	3088.00	60690.00	77.00	0.00	255.00	37.63	
May 2016	1612.33	63.41	0.00	0.00	1548.92	13490.00	35000.00	0.00	0.00	40.76	
June 2016	1144.73	30.43	0.00	0.00	1114.30	14600.00	120.00	0.00	0.00	58.34	
July 2016	662.76	0.00	0.00	0.00	662.76	13370.00	0.00	0.00	0.00	40.48	
August 2016	391.88	0.00	0.00	0.00	391.88	18660.00	84.00	0.00	0.00	61.91	
September 2016	324.35	0.00	0.00	0.00	324.35	56800.00	2780.00	0.00	0.00	138.25	
October 2016	1561.82	39.00	0.00	0.00	1522.82	40000	9.30	0.00	700.00	114.47	
November 2016	897.23	507.94	00.00	0.00	389.76	0.00	123.00	0.00	0.00	154.22	
December 2016	2477.95	489.00	0.00	0.00	1988.95	2960.00	93.00	0.00	0.00	136.80	
January 2017	2150.92	503.60	0.00	0.00	1647.32	31240.00	21051.00	3630.00	0.00	127.43	

		Actual Quantities of Inert C&D Materials Generated					Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated			
Month	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne
February 2017	553.80	440.00	0.00	0.00	113.80	14940.00	18820.00	2880.00	460.00	83.46
March 2017	665.93	460.00	0.00	0.00	205.93	11660.00	29370.00	4400.00	660.00	99.59
April 2017	553.41	220.00	0.00	0.00	333.41	8600.00	25610.00	520.00	700.00	81.83
May 2017	388.82	211.00	0.00	0.00	177.82	1090.00	64.00	0.00	0.00	109.10
June 2017	352.12	104.00	0.00	0.00	248.12	1800.00	16400.00	12030.00	700.00	70.58
July 2017	400.72	165.00	0.00	0.00	235.72	6500.00	12330.00	4690.00	0.00	52.20
August 2017	589.89	202.00	0.00	0.00	387.89	23330.00	27079.00	5220.00	700.00	69.52
September 2017	3347.18	1364.00	0.00	0.00	1983.18	33379.00	29426.00	3990.00	0.00	62.82
October 2017	2384.86	984.00	0.00	0.00	1400.86	11842.00	34071.00	5230.00	0.00	74.13
November 2017	797.42	384.18	0.00	0.00	413.24	20210.00	25225.00	4030.00	0.00	163.03
December 2017	106.32	51.00	0.00	0.00	55.32	17650.00	19520.00	3210.00	0.00	82.23
January 2018	283.65	125.83	0.00	0.00	157.82	12900.00	15600.00	12330.00	0.00	30.93
February 2018	122.31	55.70	0.00	0.00	66.61	10950.00	13260.00	6570.00	0.00	16.95
March 2018	217.06	99.80	0.00	0.00	117.26	12260.00	12120.00	5960.00	0.00	32.53
April 2018	1118.36	460.58	0.00	0.00	657.78	16320.00	12590.00	6280.00	0.00	33.90
May 2018	475.54	198.85	0.00	0.00	276.69	15230.00	11024.00	0.00	0.00	40.02
June 2018	684.10	256.50	0.00	0.00	427.60	14320.00	10260.00	2630.00	0.00	43.01
July 2018	93.99	42.00	0.00	0.00	51.99	11220.00	6200.00	0.00	0.00	59.77
August 2018	528.56	225.00	0.00	0.00	303.56	13620.00	33400.00	26760.00	0.00	44.50
September 2018	765.70	325.00	0.00	0.00	440.70	10600.00	4500.00	0.00	0.00	41.82
October 2018	0.00	0.00	0.00	0.00	0.00	0.00	2330.00	0.00	0.00	109.49
November 2018	77.71	0.00	0.00	0.00	77.71	0.00	0.00	0.00	0.00	30.18
December 2018	88.43	0.00	0.00	0.00	88.43	0.00	0.00	0.00	0.00	5.72
January 2019	21.13	0.00	0.00	0.00	21.13	0.00	0.00	0.00	1880.00	4.55

	Actual Quantities of Inert C&D Materials Generated					Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated				
Month	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne
February 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.69
Total	64320.00	8222.28	0.00	0.00	56097.72	605001	418801.3	110360	6695	2680.83

Notes:

- Metal and paper/cardboard packaging were collected by recycler for recycling. Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material collected by recycler for recycling. General refuse was disposed of at NENT by subcontractors. (2)

Annex G

Environmental Complaint, Environmental Summons and Persecution Log

Annex G Cumulative Complaint and Summons/Prosecutions Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
May 2015	0	0
June 2015	0	0
July 2015	0	0
August 2015	0	0
September 2015	0	0
October 2015	0	0
November 2015	0	0
December 2015	0	0
January 2016	0	0
February 2016	0	0
March 2016	0	0
April 2016	0	0
May 2016	0	0
June 2016	0	0
July 2016	0	0
August 2016	0	0
September 2016	0	0
October 2016	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2016	0	0
December 2016	0	0
January 2017	0	0
February 2017	0	0
March 2017	0	0
April 2017	0	0
May 2017	0	0
June 2017	0	0
July 2017	0	0
August 2017	0	0
September 2017	0	0
October 2017	0	0
November 2017	0	0
December 2017	0	0
January 2018	0	0
February 2018	0	0
March 2018	0	0
April 2018	0	0
May 2018	0	0
June 2018	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
July 2018	0	0
August 2018	0	0
September 2018	1	0
October 2018	0	0
November 2018	0	0
December 2018	0	0
January 2019	0	0
February 2019	0	0
Overall Total	1	0

Annex H

Odour Monitoring Result

Annex H1

Odour Patrol Result



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	1/2/2019
Start & End Time (24hr)	From 16:00 To (6:19
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	22.8
Relative Humidity (%)	45
Monitoring Point	1) 2 / 3 / 4 / 5 / 6 / 7 / 8 0) 1 / 2 / 3 / 4
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	1 / 2 /(3)/ 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV OF Biogas Holder
Monitoring Point	PSV 0+ Biogas Holder 1/2/3/4/5/6/7/8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 /(5)/ 6 / 7 / 8
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / (6)/ 7 / 8
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	Ü
Possible Source of Odour	
Follow-up Actions Romark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Teresa Na			Sarah HO
Signature				
	2	NA	NA	Sarah
Date	1 Feb 2019			1/2/2019

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

Page 4 of 4 / of 2 Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	1/2/2019
Start & End Time (24hr)	From 16-00 To 16-19
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (で)	22.8
Relative Humidity (%)	45
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / (7)/ 8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Machine Smell
Possible Source of Odour	Air Compressor
Monitoring Point	1/2/3/4/5/6/7/(8)
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4/ 5 / 6 / 7 / 8
Intensity of Odour	0 /1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0 / 1 / 2 / 3 / 4
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	/
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Terasa Non			Sarah Ho
Signature	5			
	<i>~</i> ~	NA	NA	Sonah
Date	1 Feb 2019			1/2/2019

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

Page 4 of 4
2 of 2
Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	4 /2 / 2019
Start & End Time (24hr)	From 13:34 To 13:52
Type of Patrol	Weekly
Weather Condition	(Sunny) / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	25.8
Relative Humidity (%)	(1)/2/3/4/5/6/7/8 (0)/1/2/3/4
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Minor Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	PSV of Biogas Holder 1/2/(3)/4/5/6/7/8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Very Minor was towater smel
Possible Source of Odour	# Desulphyrization Unit
Monitoring Point	1 / 2 / 3 / (4) 5 / 6 / 7 / 8
Intensity of Odour	(0)1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / (5) 6 / 7 / 8
Intensity of Odour	(0)/ 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / (6) 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM			Sarah HO
Signature	Front	NA	NA	Sarah
Date	4/2/2019			4/2/2019

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

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Page 4 of 4

1 of 2



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	4/2/2019
Start & End Time (24hr)	From 13=34 To 13:52
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	25.8 68
Relative Humidity (%)	68
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM			Sarah HO
Signature	Find	NA	NA	Sarah
Date	4/2/2019			4/2/2019

Document Title: Odour Patrol Procedure

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Page 4 of 4 2 of 2



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	8/2/2019
Start & End Time (24hr)	From 11:38 To 11:55
Type of Patrol	Weekly
Weather Condition	Sunny/ Cloudy / Windy / Humid / Foggy /
Temperature (°C)	26.5
Relative Humidity (%)	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0 / 1 / 2 / 3 / 4
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 / (2)/ 3 / 4 / 5 / 6 / 7 / 8 0 / (1) / 2 / 3 / 4
Characteristic of Odour	Miner Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	Minor Hot Plastic PSV of Biogas Holder 1/2/3/4/5/6/7/8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	(Vom minor) MIX H2S & whatomator small
Possible Source of Odour	1/2/3/4/5/6/7/8
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIBNA LAM			Sarah HO
Signature				
	Fron	NA	NA	Savah
Date	8/2/2019			8/2/2019

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

Page 4 of 4

l of 2 Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	8/2/2019
Start & End Time (24hr)	From 11:38 To 11:55
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	26.5
Relative Humidity (%)	70
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / (7) / 8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / (8)
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	/
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FLONA LAM			Sarah HO
Signature	Find	NA	NA	Sarah
Date	8/2/20189			8/2/2019

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

Page 4 of 4

2 of 2 Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Type of Patrol	9/2/20/9 From 1000 To 102/ Weekly Sunny/Cloudy/Windy/Humid/Foggy/ 23.7°C 70% (1)/2/3/4/5/6/7/8 0/1/2/3/4 1/2/3/4/5/6/7/8 0/1/2/3/4 Minor Hot Plastic PSV OF Biogas Holder 1/2/3/4/5/6/7/8
Type of Patrol Weather Condition S Temperature (C) Relative Humidity (%) Monitoring Point Intensity of Odour Characteristic of Odour Possible Source of Odour Monitoring Point Intensity of Odour	From / 1000 To / 100/ Weekly Sunny / Cloudy / Windy / Humid / Foggy / 23.7 20 70 / 2 1) / 2 / 3 / 4 / 5 / 6 / 7 / 8 0) / 1 / 2 / 3 / 4
Weather Condition Temperature (°C) Relative Humidity (%) Monitoring Point Intensity of Odour Characteristic of Odour Possible Source of Odour Monitoring Point Intensity of Odour	Weekly Sunny / Cloudy / Windy / Humid / Foggy / 23.7 *C 70 / 5 (1) / 2 / 3 / 4 / 5 / 6 / 7 / 8 (0) / 1 / 2 / 3 / 4
Temperature (C) Relative Humidity (%) Monitoring Point Intensity of Odour Characteristic of Odour Possible Source of Odour Monitoring Point Intensity of Odour	23.7°C 70.7° (1)/2/3/4/5/6/7/8 (0)/1/2/3/4
Temperature (C) Relative Humidity (%) Monitoring Point Intensity of Odour Characteristic of Odour Possible Source of Odour Monitoring Point Intensity of Odour	23.7°C 70.7° (1)/2/3/4/5/6/7/8 (0)/1/2/3/4
Monitoring Point Intensity of Odour Characteristic of Odour Possible Source of Odour Monitoring Point Intensity of Odour	1)/2/3/4/5/6/7/8 0)/1/2/3/4
Intensity of Odour Characteristic of Odour Possible Source of Odour Monitoring Point Intensity of Odour	
Characteristic of Odour Possible Source of Odour Monitoring Point Intensity of Odour	
Possible Source of Odour Monitoring Point Intensity of Odour	
Monitoring Point Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0 / (1) / 2 / 3 / 4
Intensity of Odour	1 / (2)/ 3 / 4 / 5 / 6 / 7 / 8 0 / (1) / 2 / 3 / 4
	0 /(1) / 2 / 3 / 4
Characteristic of Odour	
	Minor Hot Plastic
Possible Source of Odour	PSV of Riogas Holder
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / (4)/ 5 / 6 / 7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / (5) / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	•
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / (6) / 7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM			Edmond Link
Signature	FIN	NA	NA	formedale
Date	9/2/2019			9/2/2019

Document Title: Odour Patrol Procedure

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Page 4 of 4

1 of 2 Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	9/2/2019
Start & End Time (24hr)	From 1000 To 1021
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy Humid / Foggy /
Temperature (°C)	23.7°C
Relative Humidity (%)	1/2/3/4/5/6/(7)/8
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / (7) / 8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Could of Rubbich
Possible Source of Odour	Portreatment area, imbording skip
Monitoring Point	Pretreatment area, inloading skip. 1/2/3/4/5/6/7/8 (0)/1/2/3/4
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Front LAM			Edmond Luk
Signature	Find	NA	NA	fample
Date	9/2/2019		[VI]	9/2/2019.

Document Title: Odour Patrol Procedure

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Page 4 of 4

2 of 2



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	11/2/2019
Start & End Time (24hr)	From 10:03 To 0:20
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	2)
Relative Humidity (%)	65
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	1 / 2 / (3) / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / (5) / 6 / 7 / 8 (0) / 1 / 2 / 3 / 4
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / (6)/ 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Dantil Chai			Sarah HO
Signature		NA	NA	Sarah
Date	11/2/2018			11/2/2019

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

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Page 4 of 4



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	11/2/2019
Start & End Time (24hr)	From 10=03 To 0=15
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	22
Relative Humidity (%)	65
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / (8)
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 /(8)
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	/
Follow-up Actions Remark	

	EPD		Employer	Independent	OSCAR
	Repres	entative	Representative	Odour Patrol Team	Bioenergy JV
Name	Danie	1 Chor			Sarah HO
Signature		~/			
	2	\sim	NA	NA	Sarah
Date	11/	2/20/9			11/2/2019

Document Title: Odour Patrol Procedure

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Page 4 of 4

a of a Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	13 / 2 / 2019
Start & End Time (24hr)	From $16=3$ To $6=49$
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	24.9
Relative Humidity (%)	65
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Millor Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	1 / 2 / (3) / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / (1)/ 2 / 3 / 4
Characteristic of Odour	Minor Hot Plastic
Possible Source of Odour	PSV of Biolas Holder
Monitoring Point	1 / 2 / 3 / (4)/ 5 / 6 / 7 / 8
Intensity of Odour	(0) / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remarks	•

EPD	Employer	Independent	OSCAR
Representative	Representative	Odour Patrol Team	Bioenergy JV
Tevesa Ne			Sarah HO
7-			
~	NA	NA	Sarah
13 Feb 2019		and the second	13/2/2019
	Representative	Representative Representative	Representative Representative Odour Patrol Team

Document Title: Odour Patrol Procedure

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Page 4 of 4



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	13/2/2019
Start & End Time (24hr)	From 16-3 To 16:49
Type of Patrol	Weekly
Weather Condition	Sunny/ Cloudy / Windy / Humid / Foggy /
Temperature (°C)	24.9
Relative Humidity (%)	65
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / (7)/ 8
Intensity of Odour	0 /(1 / 2 / 3 / 4
Characteristic of Odour	Ergine Smell Air Compression
Possible Source of Odour	Air Compressor
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / (8)
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	SSOW smell
Possible Source of Odour	WCV
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remarks	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Teresa Na			Sarah HO
Signature	, ,			
				Sarah
	h	NA	NA	300VaV)
Date	13 Feb 2019			13/2/2019

Document Title: Odour Patrol Procedure

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Page 4 of 4 2 of 2



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	15/2/2019
Start & End Time (24hr)	From 10:00 To (0:30
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	27.8
Relative Humidity (%)	69
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	(1)/2/3/4/5/6/7/8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8 0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Hot Placia
Possible Source of Odour	- PSV of Biogas Holder
Monitoring Point	1 / 2 /(3) /4 / 5 / 6 / 7 / 8
Intensity of Odour	0 /(1 // 2 // 3 // 4
Characteristic of Odour	wastewater smell
Possible Source of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0 / 1 / 2 / 3 / 4
Monitoring Point	1 / 2 / 3 / (4)/ 5 / 6 / 7 / 8
Intensity of Odour	0)1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Romark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	TIONA LAM			Sarah HO
Signature	Fron	NA	NA	Sarah
Date	15/2/2019			15/2/2019

Document Title: Odour Patrol Procedure

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Page 4 of 4



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	15/7/2019
Start & End Time (24hr)	From [0:00 To [0:30]
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	22.8
Relative Humidity (%)	69
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / (7)/ 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Minor Diesel Smell
Possible Source of Odour	Diesel truck
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / (8)
Intensity of Odour	0 / (1)/ 2 / 3 / 4
Characteristic of Odour	Septic smell
Possible Source of Odour	SSOW truck
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	/
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	DONA LAM			Sarah HO
Signature	Find	NA	NA	Sarah
Date	15/2/2019			15/2/2019

Document Title: Odour Patrol Procedure

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Page 4 of 4



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	18 12 1 2019
Start & End Time (24hr)	From NA To NA
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy / Rain
Temperature (°C)	
Relative Humidity (%)	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0 / 1 / 2 / 3 / 4
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 1/3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	/
Follow-up Actions Remark	
odour patrol was cancelled	due to the rainy weather condition.

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	TESS CHAN			Sarah HD
Signature	Jess	NA	NA	Sarah
Date	18 Feb 2019			18/2/2019

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Approved By:

Page 4 of 4

1 of 1



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	20 Feb 2019
Start & End Time (24hr)	From to 39 To 10:55
Type of Patrol	Weekly / Indespelent Monthly Patrol
Weather Condition	Sunny/Cloudy/Windy/Humid/Foggy/Ram
Temperature (C)	24~26°C
Relative Humidity (%)	79 ~ 90
Monitoring Point	1 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 10 / 2 / 3 / 4
Characteristic of Odour	档 tx ex
Possible Source of Odour	Plant.
Monitoring Point	1 / (2°) 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 2 / 3 / 4
Characteristic of Odour	Plastre
Possible Source of Odour	Brogas Holder
Monitoring Point	1 / 2 /(3) / 4 / 5 // 6 / 7 / 8
Intensity of Odour	0/1/2/3/4 0 27
Characteristic of Odour	Plastic
Possible Source of Odour	Bigas Holdon
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0) / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / (5) / 6 / 7 / 8
Intensity of Odour	0 / (1 \langle 2 \times 3 / 4
Characteristic of Odour	Glass
Possible Source of Odour	Gluss
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	
This is the independent role	ur Patril. Pls refer to ALS report for detail

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Tereca Na	Dhilip chan	Edvin Wong / Ho Tsz kin	Terena CHAN
Signature			2	0
	4	16	6	
Date	20/2/2019	2,12/2019	20/2/2019	20/2/2019
	1 1 1			

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Page 4 of 4



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	20 Feb 2019
Start & End Time (24hr)	From 60:39 To 10:00
Type of Patrol	Weekly Independent Monthly Patal
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy / Ram
Temperature (°C)	24~2600
Relative Humidity (%)	7929020
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 /(1) / 2 / 3 / 4
Characteristic of Odour	Detalem two
Possible Source of Odour	Petween Truck
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

This is the independent odown Patrol. Ple refer to Al Creport For details

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	Terrece Ne	Philip Cheus	Edwin Way / HoTszkin	Televice CHAN
Signature	,			
	2		be S	ten
Date	20/2/2019	20/2/10/9	20/2/2019	20/2/2019
Date	20/2/2019	20/2/10/9	20/2/2019	20/5

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Page 4 of 4 2 of 2



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	20 Feb 20P
Start & End Time (24hr)	From 17:34 To 17:46
Type of Patrol	Weekly Independent Monthly Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (で)	23~24°C
Relative Humidity (%)	81 ~ 89 %
Monitoring Point	(T) 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / (1-/, 2 / 3 / 4
Characteristic of Odour	Plostic snot
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	Plastis
Possible Source of Odour	Badas Holder
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 1 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 /(4)/ 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / (1) 2 / 3 / 4
Characteristic of Odour	Gilacc
Possible Source of Odour	Glass
Monitoring Point	1 / 2 / 3 / 4 / 5 / (6) 7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remarks	
This is the independent Pratol	. Pls refer to ALS Report in Petal

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Philip Chen	Edwin Word HoTszkin	TOIGHTE CHAN
Signature	Find		7- *	tu
Date	20/8/2019	70/2/19	20/2/2019	20/2/2019

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Page 4 of 4



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	20 Feb 2019
Start & End Time (24hr)	From / 7=34 To /7=46
Type of Patrol	Weekly Independent Monthly Batrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	23~24°C
Relative Humidity (%)	1/2/3/4/5/6/0/8
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 /(8)
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Re Mark	
(, , , ,	
This in Independent odon	Patrol. Me wer to ALS Report In details

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM	Philly chews	Eduin Wong / Ho Tsz kin	THAM!
Signature	Find		2 2	
Date	20/2/2019	20/2/19	20/2/2019	20/2/2019

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

Approved By:

Page 4 of 4



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	22/2/2019
Start & End Time (24hr)	From 14:05 To 14:28
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	26.3
Relative Humidity (%)	55 (1)/2/3/4/5/6/7/8 (0)/1/2/3/4
Monitoring Point	1)/2/3/4/5/6/7/8
Intensity of Odour	(i) / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8 0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	PSV OF Brogas Holder 1/2/(3)/4/5/6/7/8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Septic smell
Possible Source of Odour	Desulphurization land
Monitoring Point	Desulphurization Unit 1/2/3/4/5/6/7/8
Intensity of Odour	(0) / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / (5) / 6 / 7 / 8 (0) / 1 / 2 / 3 / 4
Intensity of Odour	① / 1 / 2 / 3 / 4
Characteristic of Odour	· · · · · · · · · · · · · · · · · · ·
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(iii)
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	TESS CHAN			Sarah HO
Signature	1			
	'flle			
	V	NA	NA	Davan
Date	22 reb 2019			22/2/2019

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Prepared By: Terence CHAN

Approved By:

Page 4 of 4

of 2 Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	22/2/2019
Start & End Time (24hr)	From 14:05 To 14:28
Type of Patrol	Weekly
Weather Condition	Sunny/ Cloudy / Windy / Humid / Foggy /
Temperature (°C)	26.3
Relative Humidity (%)	55
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / (7) / 8
Intensity of Odour	
Characteristic of Odour	0/(1)/2/3/4 ***** Construction Air compress Sarah
Possible Source of Odour	Construction Air compress Sarah
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(Q) / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	,
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1/ 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 1/2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	/
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	TESS CHAN			Sarah Ho
Signature				
	Jess	NA	NA	Sarah
Date	22 Feb 2019	,,,,	777	22/2/2019

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Prepared By: Terence CHAN

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Page 4 of 4

2 of 2 Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	25 Feb 2019
Start & End Time (24hr)	From 14:05 To 14:19
Type of Patrol	Weekly
Weather Condition	Sunny Cloudy / Windy / Humid / Foggy /
Temperature (°C)	72 500
Relative Humidity (%)	0/1/2/3/4 0/1/2/3/4
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8 0/1/2/3/4 Maste coult Broggs Holder 1/2/3/4/5/6/7/8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Mastic Cwall
Possible Source of Odour	Broggs Holder.
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 40/ 5 / 6 / 7 / 8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 8)/ 6 / 7 / 8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 / 2 + 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAW		/	Terence CHAN
Signature	Frank			Ce
Date	75/2/2019			25/2/2019

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

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Page 4 of 4

lof 2

Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	25 Feb 2019
Start & End Time (24hr)	From /4:05 To /4:19
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	22,5%
Relative Humidity (%)	57%
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 //1 / 2 / 3 / 4
Characteristic of Odour	Piesel Smell
Possible Source of Odour	mad Constant
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	(b) 1 / 2 / 3 / 4
Characteristic of Odour	0,1121317
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	011121314
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	011121314
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	1/2/3/4/5/6/7/8
Characteristic of Odour	71121314
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	7 7 7 7 7 7 7
Possible Source of Odour	
Follow-up Actions	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	DIONA LAM			lerence (HAN)
Signature	Frons			Terence (MAN)
Date	15/2/2019			2+12/2011

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

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Page 4 of 4

2 of 2 Revision: Draft



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	27 / 2 / 2019
Start & End Time (24hr)	From 14:02 To 14:29
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	26.6
Relative Humidity (%)	64
Monitoring Point	(1)/2/3/4/5/6/7/8
Intensity of Odour	0/0/2/3/4
Characteristic of Odour	Hot Air Smell
Possible Source of Odour	Generator
Monitoring Point	1 /(2)/ 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 /(1)/ 2 / 3 / 4
Characteristic of Odour	Hot Plastic
Possible Source of Odour	PSV of Biogas Holder
Monitoring Point	1/2/3)/4/5/6/7/8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	HzS smell
Possible Source of Odour	Daswlohmination like t Area
Monitoring Point	Daswiphmination (unit freq 1/2/3/4)/5/6/7/8
Intensity of Odour	(0) / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / (5)/ 6 / 7 / 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	grass smell
Possible Source of Odour	grass
Monitoring Point	1 / 2 / 3 / 4 / 5 / (6)/ 7 / 8
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	

	EPD	Employer	Independent	OSCAR
	Representative	Representative	Odour Patrol Team	Bioenergy JV
Name	FIONA LAM			Sarah HO
Signature	Frond	.10	3.15	Savah
		NA	NA	
Date	27/2/2019			27 / 2/2019

Document Title: Odour Patrol Procedure

Prepared By: Terence CHAN

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Page 4 of 4

1 of 2



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	27/2/2019
Start & End Time (24hr)	From 14:02 To 14:29
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (℃)	26.6
Relative Humidity (%)	64
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / (7) / 8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Hot Plastic and mabbish small
Possible Source of Odour	PSV of Biogas Holder, Skip area
Monitoring Point	Hot Plastic and nubbish smell PSV of Biogas Holder, skip area 1/2/3/4/5/6/7/8
Intensity of Odour	0/Q/2/3/4
Characteristic of Odour	Solvent small
Possible Source of Odour	Wordhardon painting
Monitoring Point	Waighbridge painting 1/2/3/4/5/0/7/8
Intensity of Odour	0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 0 / 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions Remark	•

EPD	Employer	Independent	OSCAR
Representative	Representative	Odour Patrol Team	Bioenergy JV
FIDNA LAM			Sarah Ho
T 1			
Find			
(*	NA	NA	Sonah
27/2/2019			27/2/2019
	Representative FIDNA LAM FINA	Representative Flow LAM Find NA	Representative Representative Odour Patrol Team Flow A LAM NA NA

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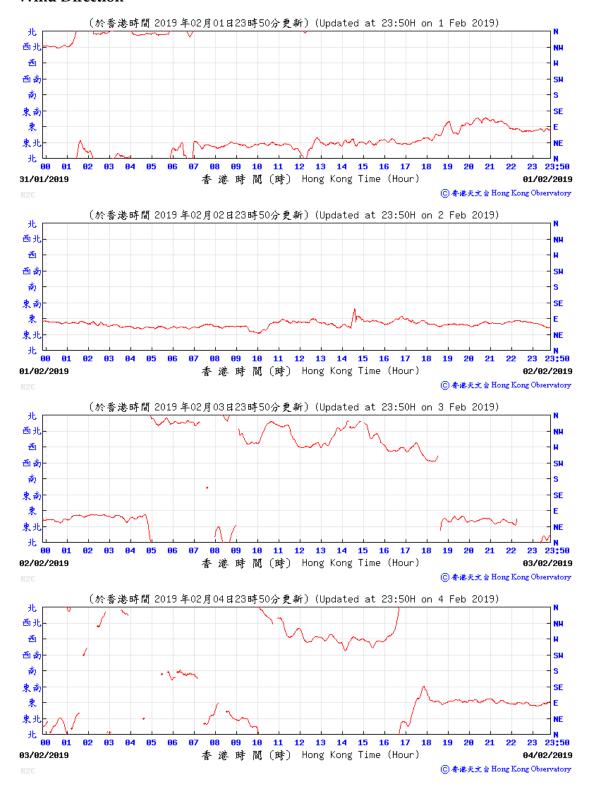
Page 4 of 4

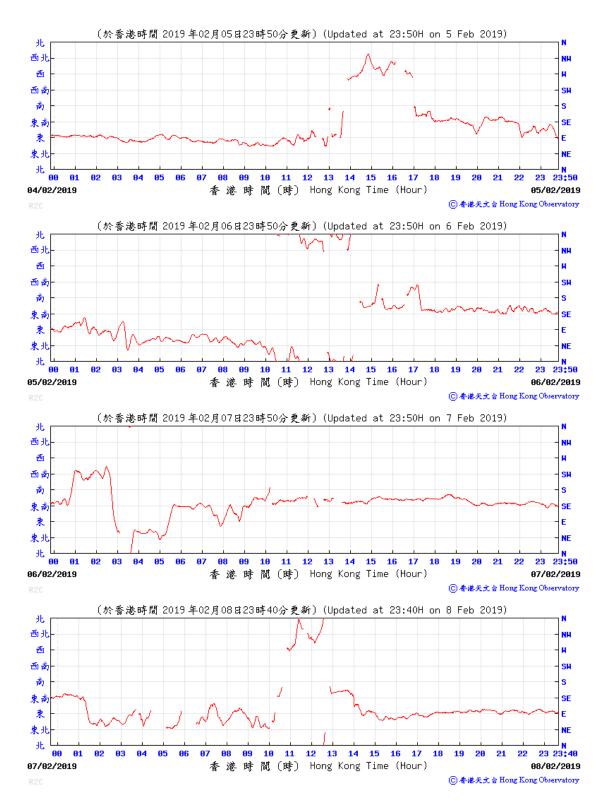
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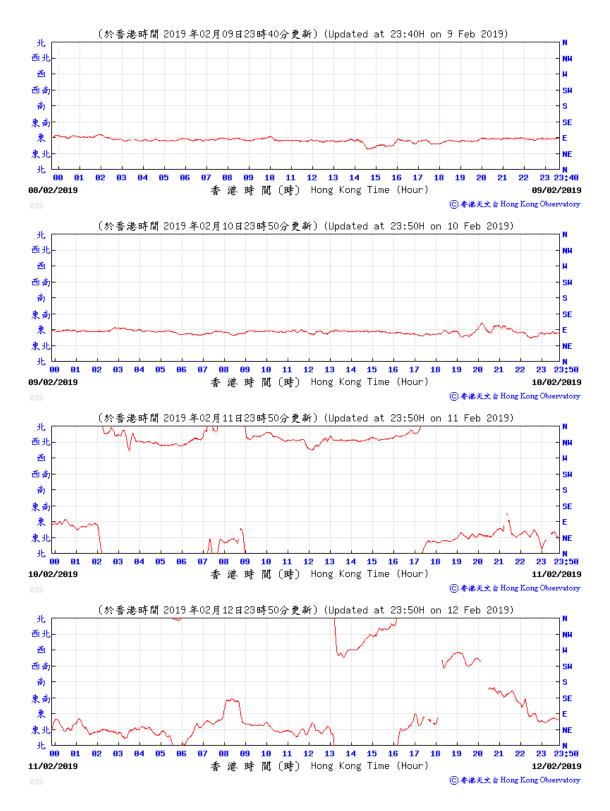
Annex H2

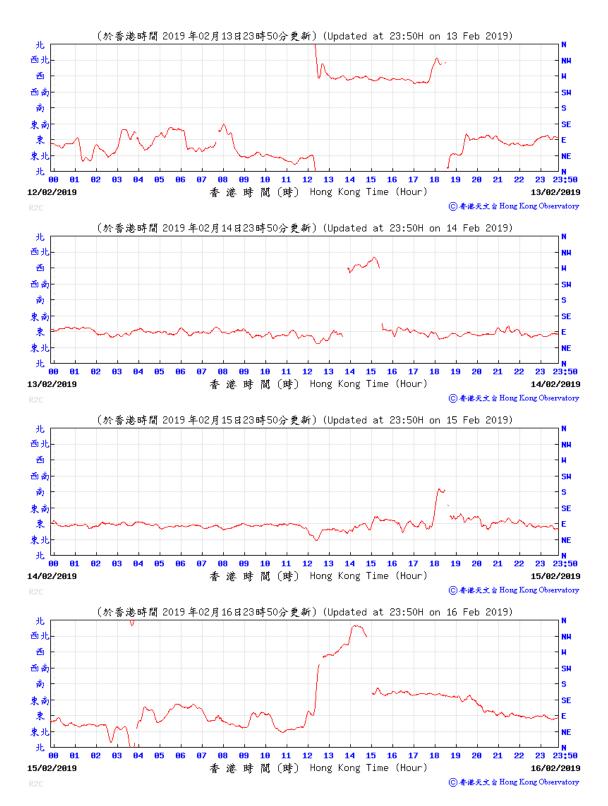
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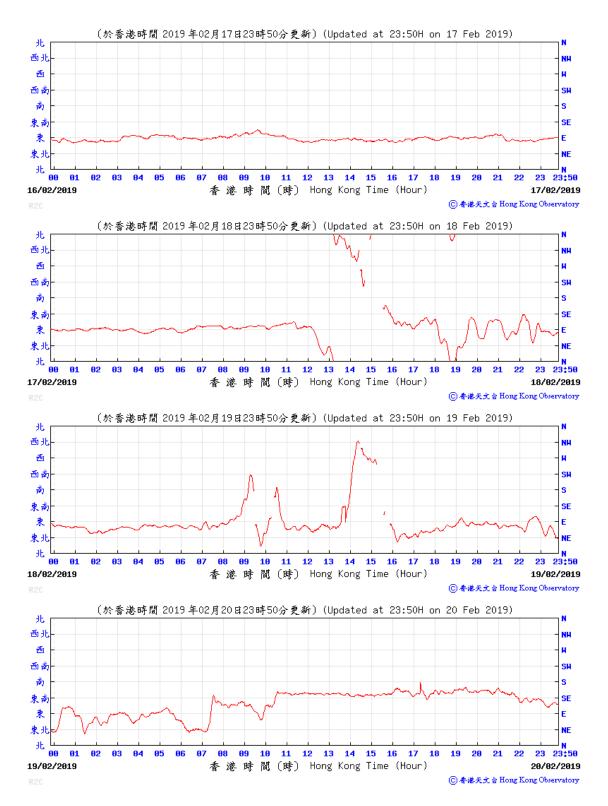
Wind Direction

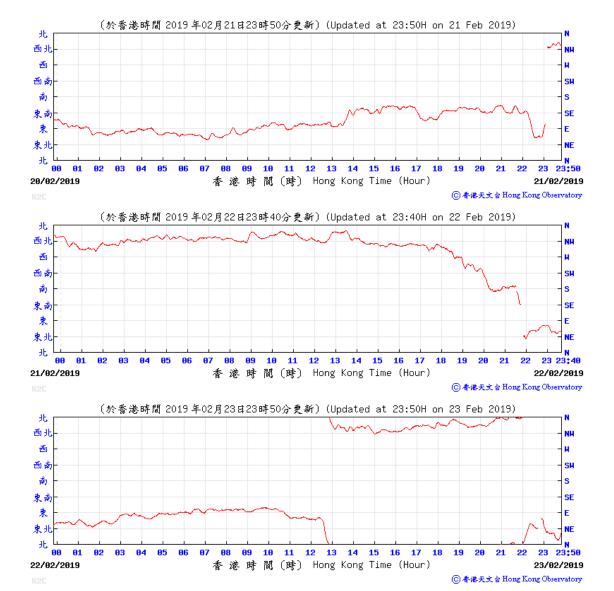


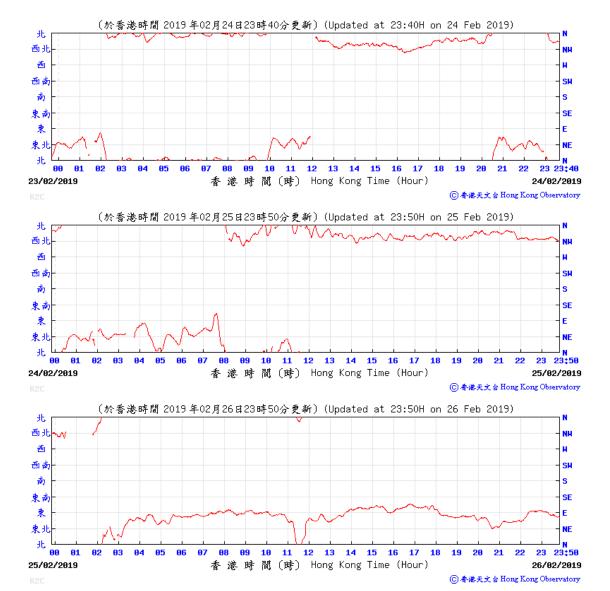


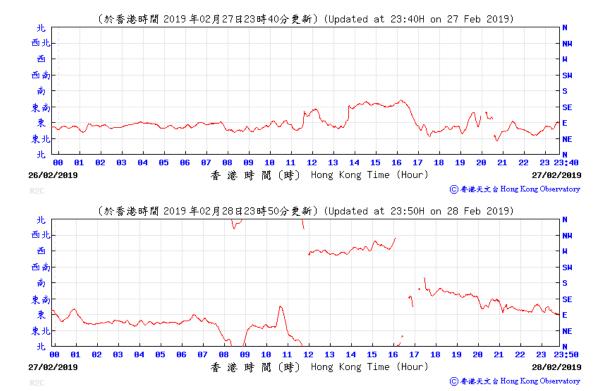












Annex H3

Action and Limit Levels for Odour Nuisance

Odour Intensity Level

Level	Odour Intensity
0	Not detected. No odour perceived or an odour so weak that it cannot be easily
1	Slight identifiable odour, and slight chance to have odour
2	Moderate identifiable odour, and moderate chance to have odour
3	Strong identifiable, likely to have odour nuisance
4	Extreme severe odour, and unacceptable odour level

Action and Limit Levels for Odour Nuisance

Parameter	Action Level	Limit Level
Odour Nuisance	When one documented	Two or more documented
(from odour	compliant is received ⁽¹⁾ , or	complaints are received (1) within
patrol)	Odour Intensity of 2 is measured from odour	a week; or
	patrol.	Odour intensity of 3 or above is measured from odour patrol.

Note:

(1) Once the compliant is received by the Project Proponent (EPD), the Project Proponent would investigate and verify the complaint whether it is related to the potential odour emission from the OWTF and its onsite wastewater treatment unit.

Event and Action Plan for Odour Monitoring

	ACTION		
EVENT	Person-in-charge of Odour	Project Proponent ⁽¹⁾	
ACTION LEVEL			
Exceedance of action level (Odour Patrol)	 Identify source/reason of exceedance; Repeat odour patrol to confirm finding. 	 Carry out investigation to identify the source/reason of exceedance. Investigation should be completed within 2 weeks; Rectify any unacceptable practice; Implement more mitigation measures if necessary; Inform DSD or the operator of the Siu Ho Wan Sewage Treatment Works (SHWSTW) if exceedance is considered to be caused by the operation of the SHWSTW. Inform North Lantau Refuse Transfer Station (NLTS) operator if exceedance is considered to be caused by the operation of NLTS. 	

	ACTION	
EVENT	Person-in-charge of	Project Proponent ⁽¹⁾
	Odour	
Exceedance	1. Identify	1. Carry out investigation and
of action	source/reason of	verify the complaint whether it
level (Odour	exceedance;	is related to potential odour
Complaints)	2. Carry out odour patrol to	emission from the nearby
	determinate odour	SHWSTW;
	intensity.	2. Carry out investigation to
		identify the source/reason of
		exceedance. Investigation
		should be completed within 2
		weeks;
		3. Rectify any unacceptable practice;
		4. Implement more
		mitigation measures if
		necessary;
		5. Inform DSD or the operator of
		the SHWSTW if exceedance
		is considered to be caused by
		the operation of the
		SHWSTW.

	ACTION	
EVENT	Person-in-charge of Odour	Project Proponent ⁽¹⁾
LIMIT LEVEL		
Exceedance of Limit level	 Identify source/reason of exceedance; Inform EPD; Repeat odour patrol to confirm findings; Increase odour patrol frequency to bi-weekly; 	 Carry out investigation to identify the source/reason of exceedance. Investigation should be completed within 2 week; Rectify any unacceptable practice; Formulate remedial actions; Ensure remedial actions
	5. Assess effectiveness of remedial action and keep EPD informed of the results;6. If exceedance stops, cease additional odour patrol.	properly implemented; 5. If exceedance continues, consider what more/enhanced mitigation measures should be implemented;

Note: (1) Project Proponent shall identify an implementation agent