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

2507, 25/F, One Harbourfront, 18 Tak Fung Street, Hunghom, Kowloon, Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com Meinhardt Infrastructure and Environment Limited

Organic Resources Recovery Centre, Phase I

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

(March 2019)

Verified by: <u>Helen Cochrane</u>

Position: Independent Environmental Checker

Date: _____ 14 March 2019

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

1 February 2019 - 28 February 2019

For and on behalf	of ERM-Hong Kong, Limited
Approved by:	Frank Wan
Signed:	Wardenty.
Position:	Partner
Certified by:	Mandy 20
Certified by: (Environ	Mously 20 mental Team Leader - Mandy To)
(Énviron Certified by:	mental Team Leader - Mandy To)
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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
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• Landscape & Visual Inspections 3 times

<u>Odour</u>

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 2.1Summary 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 2.2Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/	Reference	Validity Period	Remarks			
Notification						
Environmental	Environmental FEP-01/395/2010/C		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	

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.

IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

4

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*.

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*.

Month / Year	Quantity								
	Total Inert C&D	Non-inert C&D Materials (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					

Table 5.1Quantities of Waste Generated from the Project

(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.

ENVIRONMENTAL RESOURCES MANAGEMENT

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 8.1Works 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*.

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.

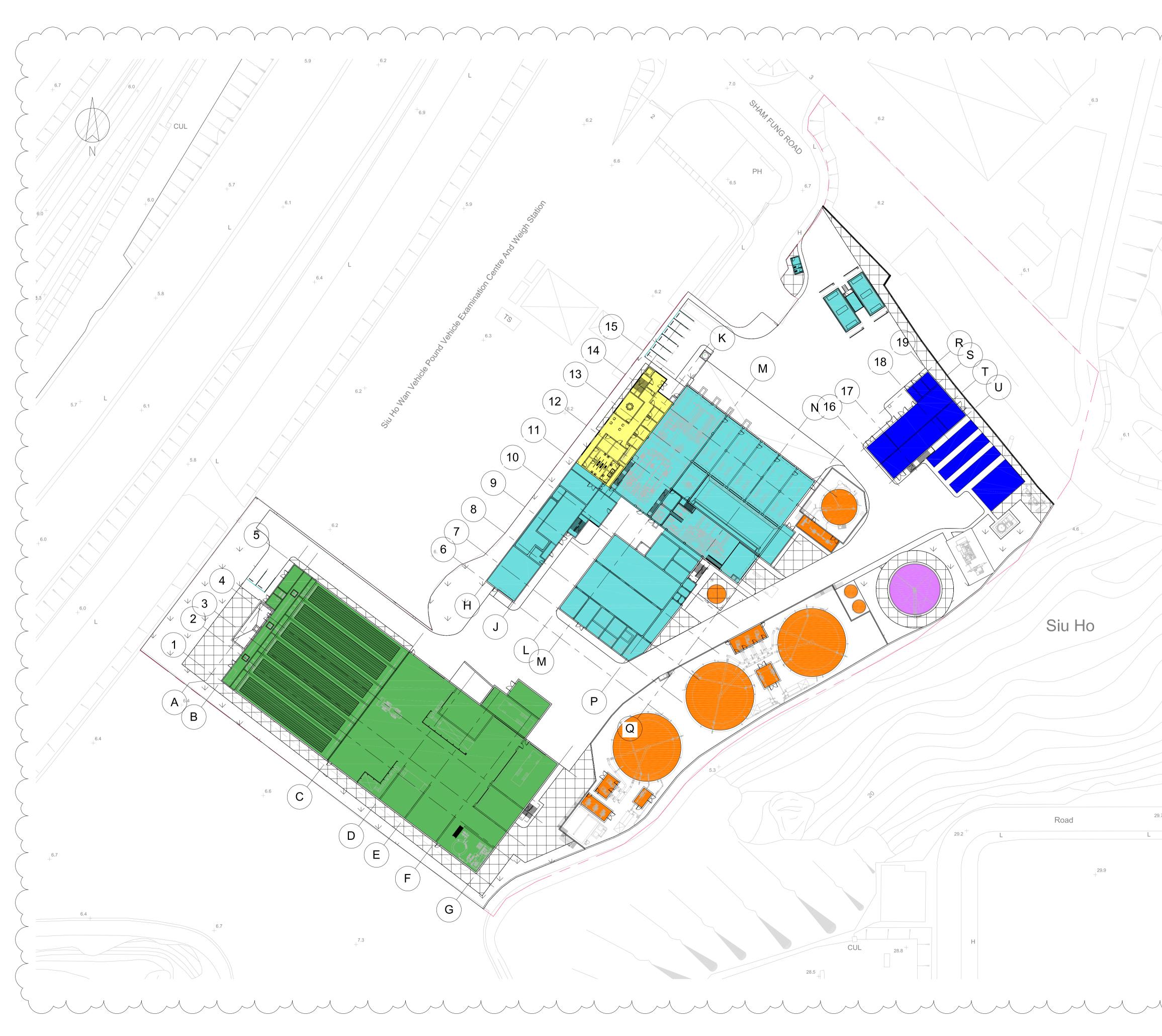
Bi-weekly landscape and visual monitoring was conducted in the reporting period. The necessary landscape and visual mitigation measures recommended in the approved EIA Report were generally implemented by the Contractor.

No incident occurred during reporting period.

No complaint/summon/prosecution was received.

Annex A

Project Layout



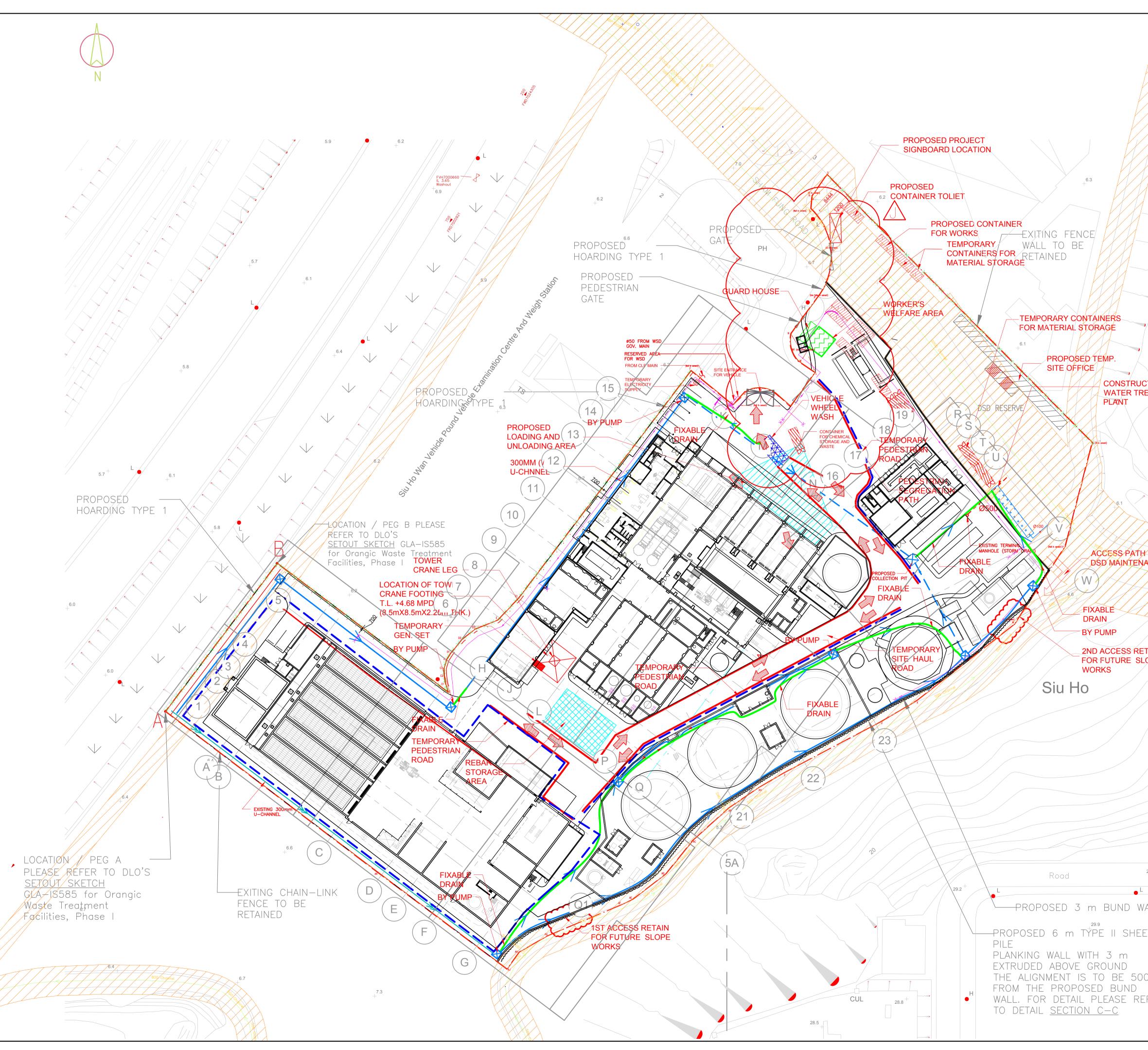
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Annex B

Works Location



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	KEY PLAN
	Teacter Weter Tractment Works
	LEGEND
	SITE BOUNDARY
	T T T T PROPOSED HOARDING TYPE 1
	+++++++ EXISTING CHAIN-LINK FENCE
	PROPOSED 6 m TYPE II SHEET PILE PLANKING WALL WITH 3 m EXTRUDED ABOVE GROUND
	\times \times \times \times EXISTING FENCE WALL
	DISCHARGE DRAINAGE
	300mm(W) PROPOSED TEMP. CHANNEL
	300mm(W) EXISTING U-CHANNEL 50/75mm FLEXIBLE DRAIN
	PROPOSED TEMP. CATCH PIT
	PORTABLE WATER PIPE
	TRAFFIC DIRECTION
	REBAR STORAGE AREA AND BENDING YARD
	GENERAL MATERIAL STORAGE AREA
UCTION WASTE	C & D MATERIAL STORAGE AREA
	VEHICLE WHEEL WASH
	J 01 SEP 2016 LL JC REVISED LAYOUT
	27 APR 2016 LL JC REVISED LAYOUT
	H 30 DEC 2015 LL JC REVISED LAYOUT G 30 MAY 2015 LL CL REVISED LAYOUT
	REV DATE BY APP DESCRIPTION
	CLIENT
	ENVIRONMENTAL PROTECTION DEPARTMENT GOVERNMENT OF THE HKSAR
TH FØR NANCE 3000 channe	CLIENT'S CONSULTANT
	AECOM ASIA CO. LTD.
	SUE2 OSCAR Bioenergy Joint Venture
RETAIN SLOPE	
	LEAD DESIGNER
	ARUP
	Ove Arup & Partners Hong Kong Limited
	ERM
	ERM HONG KONG LIMITED
	MEIN-KRDT
	Meinhardt Infrastructure and Environment Limited 邁進基建環保工程顧問有限公司
	遇進參建項保工 在顧同有限公司 PROJECT
	ORGANIC WASTE TREATMENT FACILITIES PHASE I
30.1	EP/SP/61/10
29.7	STATUS
L	DRAWING TITLE
WALL	GENERAL SITE LAYOUT PLAN AT PORTION 1
EET	
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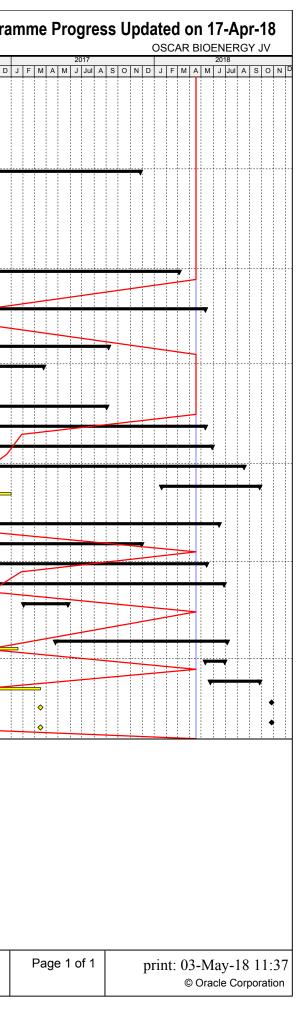
Annex C

Construction Programme of the Project

invironmental Protection Department f the HKSAR		0			/SP/61/10							Execu	utive	Sumn	nary P	rograi
Activity ID Activity Name	Pl Project	Organ BL Project Start			very Centre (Phase 1)	0/	Variance -			2015				2016	
	Duration	BL FIOJECI Stari	BL FIOJECT FINISH	Duration	Start	Fillisti	Complete		V D J	F M A		ASON	DJF	MAM	JULAS	OND
Contract No. EP/SP/61/10 - The Design & Construction Works	688	20-Nov-14	17-Mar-17	159	20-Nov-14 A	27-Oct-18		-476								
Preliminary and Site Establishment	217	20-Nov-14	15-Aug-15	0	20-Nov-14 A	19-Oct-16 A		-349								
ESum110 Preliminary and Site Establishment	217	20-Nov-14	15-Aug-15	0	20-Nov-14 A	19-Oct-16 A	100%	-349								-
Design	372	20-Nov-14	23-Feb-16	0	20-Nov-14 A	05-Mar-18 A		-601								
ESum120 Design Criteria and Design Preparation	80	20-Nov-14	27-Feb-15	0	20-Nov-14 A	01-Sep-15 A	100%	-151				◄				
ESum130 Detailed Design Submission (DDS) - General, Civil, ABWF and Landscape	289	19-Dec-14	23-Feb-16	0	18-Dec-14 A	27-Nov-17 A	100%	-437								<u></u>
ESum132 Detailed Design Submission (DDS) - Building 1	151	21-Apr-15	25-Nov-15	0	13-Apr-15 A	27-Jul-16 A	100%	-164		-			_			
ESum134 Detailed Design Submission (DDS) - Building 2	158	12-Mar-15	30-Oct-15	0	12-Mar-15 A	07-Apr-16 A	100%	-106								
ESum136 Detailed Design Submission (DDS) - Building 3		03-Jun-15	29-Oct-15	0	20-Jul-15 A	30-Mar-16 A	100%	-102			-			-		
				-						_						
ESum138 Detailed Design Submission (DDS) - Auxilliary Buildings & Facilities	177	10-Feb-15	29-Oct-15	0	11-Feb-15 A	08-Aug-16 A	100%	-191								
ESum140 Detailed Design Submission (DDS) - E&M and BS	216	18-Dec-14	04-Nov-15	0	18-Dec-14 A	05-Mar-18 A	100%	-577								
Procurement	507	12-Feb-15	02-Jul-16	25	01-Mar-15 A	11-May-18		-678								
ESum150 Procurement, Manufacturing, F.A.T., Shipment & Delivery of E&M Systems Equipment	507	12-Feb-15	02-Jul-16	25	01-Mar-15 A	11-May-18	99.94%	-678					_			
Construction	489	13-May-15	31-Dec-16	135	04-May-15 A	26-Sep-18		-513								
ESum160 Construction of Building #1 (Waste Receiving, Pre-treatment & Administration)	178	19-Aug-15	23-Mar-16	0	02-Sep-15 A	06-Sep-17 A	100%	-431							++++	\square
ESum170 Construction of Building #2 (Composting & Maturation, and Link Bridge)	262	23-May-15	11-Apr-16	0	16-Jun-15 A	24-Mar-17 A	100%	-285		-+++						
ESum175 Construction of Building #3 (Energy Centre)	87	30-Oct-15	15-Feb-16	0	24-Mar-16 A	24-Oct-16 A	100%	-205						-		-
ESum180 Construction of Auxiliary Buildings & Facilities	263	13-May-15	31-Mar-16	0	04-May-15 A	02-Sep-17 A	100%	-424								
ESum190 ABWF, Finishing and Fitting-out Works to Building #1, #2, #3 and Auxiliary Buildings	5 259	23-Dec-15	08-Nov-16	21	21-Mar-16 A	11-May-18	97.1%	-443								<u> </u>
& Facilities (excl. EEC) ESum200 Sitewide, Boundary Wall and Roadworks	326	02-Sep-15	07-Oct-16	34	13-Nov-15 A	28-May-18	98.5%	-482				-				
ESum210 Statutory and Utilities Works (excl. Lifting Platform)		04-Mar-16	06-Oct-16	102	02-Nov-16 A	17-Aug-18	99.4%	-551								
						-										$\boldsymbol{\mathbf{X}}$
ESum215 Green Roof and Landscaping	129	29-Jul-16	31-Dec-16	135	20-Jan-18 A	26-Sep-18		-513								
E&M and Building Services Installation	229	04-Feb-16	12-Nov-16	59	11-May-16 A	27-Jun-18		-477								
ESum220 E&M Installation - Mechanical	164	04-Feb-16	25-Aug-16	50	11-May-16 A	15-Jun-18	99.6%	-533					_			
ESum222 E&M Installation - Piping	144	24-May-16	12-Nov-16	0	28-Nov-16 A	30-Nov-17 A	100%	-311						-		
ESum224 E&M Installation - Electrical, Instrumentation & Control	181	02-Apr-16	08-Nov-16	23	28-Sep-16 A	14-May-18	99.9%	-445								
ESum226 Building Services Installation (excl. EEC)	125	18-Apr-16	14-Sep-16	59	24-Jun-16 A	27-Jun-18	86.9%	-525								-
ESum230 Energisation of Switchboards / MCC with SAT	1	28-Jul-16	28-Jul-16	0	02-Feb-17 A	26-May-17 A	100%	-244								
Testing & Commissioning and Completion *Note	232	29-Jul-16	17-Mar-17	193	24-Apr-17 A	30-Dec-18		-588								
ESum240 Pre-Commissioning	144	29-Jul-16	19-Jan-17	81	24-Apr-17 A	06-Jul-18	61.2%	-533								
ESum241 System Commissioning	0			50	11-May-18	29-Jun-18	0%									
ESum250 Process Commissioning, Performance & Acceptance Testing	119	22-Oct-16	16-Mar-17	127	23-May-18	26-Sep-18	0%	-559								
KD100360 Completion of the Design and the Works including Testing and Commissioning	0		16-Mar-17	0	1-May-18	15-Mar-19ª	0%	-589							/	
(Extended Completion Date: 10-Jun-2017 noon) KD100380 Commencement of the Operation	0	17-Mar-17		0	4-Dec-18b		0%	-588								
	Ŭ Ŭ			, in the second			0,0									

a: The T&C is in progress. b: The confirmation for substantial completion has been dated to 3 December 2018.

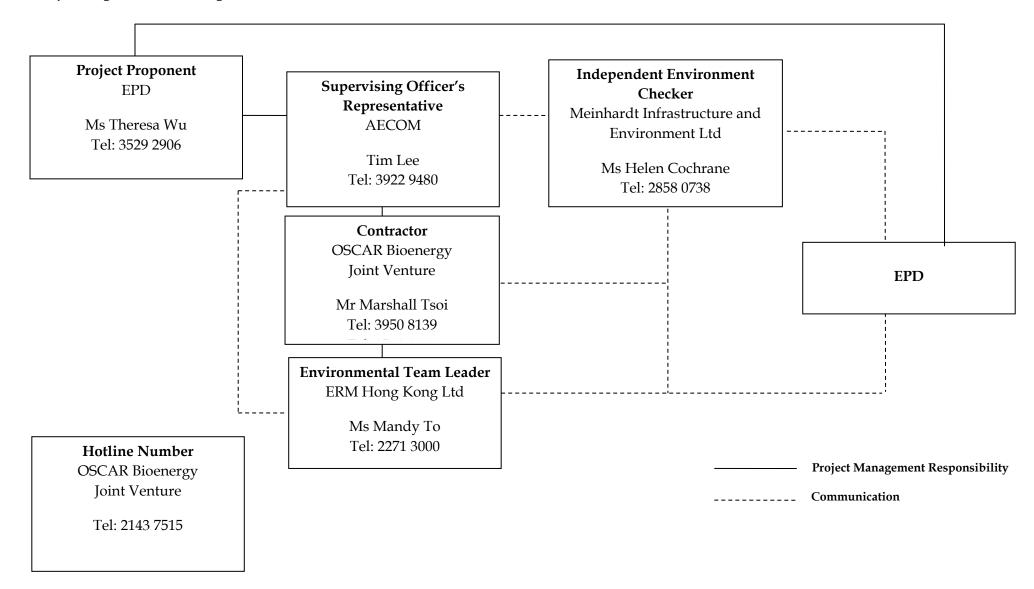
Project:V1.4_up_17Apr18-2	◆ ◆ Milestor	ne 🔶 🔶 Actual Milesto	ne 🔷 🛛 💠 Baseline Milestone	Baseline: Contract Programme for The Design and Construction
Ref.:WS-OSC-0-0-TM-0123-A, Da	te: 24-Apr-2018 BL Sum	nmary Exe. Summar	у	Works v1.4



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 Summary of Mitigation Measures Implementation Schedule

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
0	ő			
ě,	,	al Mitigation Measures in the EIA and EM&A Manual		
	Air Quality	Air Pollution Control (Construction Dust) Regulation & Good Site Practices		
3.73	2.5	• Use of regular watering, with complete coverage, to reduce dust emissions from exposed site	Construction Site / During	N
			Construction Period	
		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		
		an effective fabric filter or equivalent air pollution control system.		
В. Н	lazard to Life			
4.102	3.3	Construction Phase	Construction Site / During	\checkmark
		• 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 Kei.	the assessment.		
		Construction works should be suspended when delivery of chlorine takes place.		
		• 3m high fence 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	Construction site run-off and general construction activities:	Construction Site / During	\checkmark
		The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage	Construction Period	
		should be adopted where applicable.		
5.45	4.5	Excavation of Soil Materials	Construction Site / During	
		The construction programme should be properly planned to minimise soil excavation, if any, in	Construction Period	
		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		

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	<u>Accidental spillage of chemicals:</u> 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	\checkmark
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	\checkmark
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	\checkmark
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 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 Managen		I	1
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	<u>Chemical Waste</u> 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	\checkmark
6.48	5.11	<u>General Refuse</u> 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	\checkmark
	andscape an			
7.99 & Table 7.7	Table 6.1	<u>Construction Phase</u> Topsoil, where identified, should be stripped and stored for re-use in the construction of the	Work Site / During Construction Period	N

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		
<i>F.</i> N	Joise		·	·
8.25	7.3	Good Site Practice:	Work site/During Design &	\checkmark
		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:

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Compliance of Mitigation Measures Compliance of Mitigation but need improvement <>

- х
- Non-compliance of Mitigation Measures Non-compliance of Mitigation Measures but rectified by OSCAR Bioenergy JV
- Deficiency of Mitigation Measures but rectified by OSCAR Bioenergy JV Δ
- N/A Not Applicable in Reporting Period

Annex F

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

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

		Actual Quant	ities of Inert C&D Mate	rials Generated		Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated				on Waste) Generated
	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				on 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

(1) 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)

(3)

Annex G

Environmental Complaint, Environmental Summons and Persecution 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

Annex G Cumulative Complaint and Summons/Prosecutions Log

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

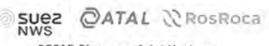
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6. Appendix

Organic Resources Recovery Centre (Phase 1)

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
Intensity of Odour	(1) 2/3/4/5/6/7/8 (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	Hot Plastr
Possible Source of Odour	PSV OF Biogue Holder
Monitoring Point	BV OF Biogus Holder 1/2/(3)/4/5/6/7/8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Hot Plastic PSV of Biugas Holder 1/2/3/(4)/5/6/7/8
Possible Source of Odour	- PSV of Biugas Holder
Monitoring Point	1 / 2 / 3 / (4)/ 5 / 6 / 7 / 8
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	U U
Possible Source of Odour	- Contraction of the second se
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	U U
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	V
Possible Source of Odour	
Follow-up Actions Remark	4

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Teresa Ne			Savah HO
Signature	2	NA	NĂ	Swah
Date	1 Eeb 2019			1/2/2019



6. Appendix

Organic Resources Recovery Centre (Phase 1)

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 (C)	22.8
Relative Humidity (%)	u c
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 COMPYESON
Monitoring Point	Air Compressor 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 1 1 2 1 3 1 4
Characteristic of Odour	
Possible Source of Odour	
Monitoring Point	X12/3/4/5/6/7/8
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	

0.00	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Terose Non			Sarah Ho
Signature		NA	NA	Smah
Date	1 Feb 2019		/*/	1/2/2019



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 (%)	68
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	
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	Minor Hot Plastic
Possible Source of Odour	PSV of Biogus Holder
Monitoring Point	PSV of Biogas Holder 1/2/(3)/4/5/6/7/8
Intensity of Odour	0 7(1) / 2 / 3 / 4
Characteristic of Odour	Vom Minor maxtoniaton small
Possible Source of Odour	B Dosubhurization Unit
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	U U
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	
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	U
Possible Source of Odour	
Follow-up Actions Remark	

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



6. Appendix

Organic Resources Recovery Centre (Phase 1)

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 (%)	6.8
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	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	No.
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	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 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	1
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM			Sarah HO
Signature	Find	NA	NA	Savah
Date	4/2/2019	19:1		4/2/2019

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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	(0)/1/2/3/4
Characteristic of Odour	V V
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	1/2/3/4/5/6/7/8
Intensity of Odour	0 /(1) / 2 / 3 / 4
Characteristic of Odour	(VONS MINOR) MIX H.S. & WRODINTON SHOLL
Possible Source of Odour	Desulopuization U.
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	(0)/1/2/3/4
Characteristic of Odour	V. Andrewski (Market Construction)
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	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Characteristic of Odour	Q
Possible Source of Odour	
	1

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM			Sarah HO
Signature	Find	NA	NA	Savah
Date	8/2/2019		7011	8/2/2019

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Organic Resources Recovery Centre (Phase 1)

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	(0)/1/2/3/4
Characteristic of Odour	V
Possible Source of Odour	
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / (8)
Intensity of Odour	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> 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 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	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM			Sarah HO
Signature	Find	NА	NA	Sarah
Date	8/2/20189	- COLL	1411	8/2/2019

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Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	9/2/2019
Start & End Time (24hr)	From 1000 To 102/
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	23.7 °C
Relative Humidity (%)	23.7 C 70 % (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 0 / (1) / 2 / 3 / 4 Minor Hot Plastic PSV of Biogas Holder 1 / 2 / 3/ 4 / 5 / 6 / 7 / 8 (0) / 1 / 2 / 3 / 4
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Minor Hot Plastic
Possible Source of Odour	PSY OF Brogas 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 / <u>(4</u>)/ 5 / 6 / 7 / 8 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	
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	
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAN		and the second se	Edward Link
Signature	Fins	NA	NA	formolule
Date	9/2/2019			9/2/2019

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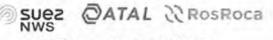
6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	9/2/20/9
Start & End Time (24hr)	From 1000 To 1021
Type of Patrol	Weekly
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (C)	23.7%
Relative Humidity (%)	<u>70 %</u> 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	Snell of Rubbish
Possible Source of Odour	Pretreatment area, unloading skip
Monitoring Point	Pretreatmant area, interding skip 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	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIOND LAM			Edmond Lak
Signature	Fins	NA	NA	fomptile
Date	9/2/2019			9/2/2019.



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Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	11/2/2019
Start & End Time (24hr)	From 10:03 To 0:20
Type of Patrol	Weekly
Weather Condition	Sunny / Qloudy / Windy / Humid / Foggy /
Temperature (°C)	27
Relative Humidity (%)	65 (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	Hot Plastic
Possible Source of Odour	PSV of Bignas 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 0 / 1 / 2 / 3 / 4
Characteristic of Odour	U U U U U U U U U U U U U U U U U U U
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 Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Daniel Cho			Sarah HO
Signature	ail	NA	NA	Sarah
Date	11/2/2018			11/2/2019

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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 0:05
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	0
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	
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	1
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Daniel Char			Sarah HO
Signature	mil	NA	NA	Sarah
Date	11/2/2019			11/2/2019

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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^{-4}
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	Minor Hot Plastic
Possible Source of Odour	- PSV of Bingas Holden
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / (1) / 2 / 3 / 4
Characteristic of Odour	Hot Plasti
Possible Source of Odour	pSV of Biogus Hulder
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	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 (0)/ 1 / 2 / 3 / 4
Intensity of Odour	0/1/2/3/4
Characteristic of Odour	0
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	0
Possible Source of Odour	
Follow-up Actions Remarks	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Tevese Neg	Contraction and the second		Sarah Ho
Signature	2	NA	NA	Sarah
Date	13 Feb 2019	1011		13/2/2019

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Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	13/2/2019
Start & End Time (24hr)	From [6=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	Expire Smell
Possible Source of Odour	Air COMMOVEMENT
Monitoring Point	Air Compresser 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	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Teresa Ng	A CONTRACT OF CONTRACT		Savah HO
Signature		NA	NA	Sarah
Date	13 Feb 2019			13/2/2019



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	15/2/2019
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	
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	PSV of Biogas Holder 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	Pasalphumation with Avea
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	0
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	0
Possible Source of Odour	
Follow-up Actions Romark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM			Sarah HO
Signature	Front	NA	NA	Savah
Date	15/2/2019	1910		15/2/2019



6. Appendix

Organic Resources Recovery Centre (Phase 1)

Parameter	Observations
Date	15/2/2019
Start & End Time (24hr)	From 10:00 To 10:30
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 +mick -
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 thick
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	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	PURA LAM			Sarah HO
Signature	Fias	NA	NA	Savah
Date	15/2/2019	10/1		15/2/2019

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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
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	

odour patrol was cancelled due to the rainy weather condition.

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	TESS CHAN			Sarah HO
Signature	Jess	NA	NA	Sarah
Date	18 Feb 2018		1911	18/2/2019

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	20 Feb 2019
Start & End Time (24hr)	From 10-39 To 10:55
Type of Patrol	Weekly_ Inderselent Monthly Dutril
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	24226°C
Relative Humidity (%)	79 ~ 90
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0/12/3/4
Characteristic of Odour	按 林 ~
Possible Source of Odour	Plant.
Monitoring Point	1/2/3/4/5/6/7/8
Intensity of Odour	0 / 10 / 2 / 3 / 4
Characteristic of Odour	Plastre.
Possible Source of Odour	Brogas Hulder
Monitoring Point	1 / 2 / (3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	071/2/3/4 081
Characteristic of Odour	Plastic
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	Glass
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 Remark	

This is the independent odor Patrol. Pla refer to ALS report for detail

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Texesa Na	philip chan	Edwin Wong / Ho Tsz Kin	TELEUR CHAN
Signature	2	S	6 \$	C
Date	20/2/2019	21/2/2019	20/2/2019	20/2/2019

Document Title: Odour Patrol Procedure Prepared By: Terence CHAN Approved By: Page 4 of 4 1 of 2 Revision: Draft

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	20 706 2019
Start & End Time (24hr)	From USSY To JOSE
Type of Patrol	Weekly Independent Monthly Patal
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy / Rach
Temperature (°C)	24-26%
Relative Humidity (%)	7929020
Monitoring Point	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Intensity of Odour	0 /(1) / 2 / 3 / 4
Characteristic of Odour	Petroleun Turel
Possible Source of Odour	Petuleun Truck
Monitoring Point	Petwlein Truck 1/2/3/4/5/6/7/8
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	
Possible Source of Odour	<i>—</i> ,
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 adow Patrol, Ple refer to AL Creport for debolis

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	Tevese Ne	Philip cheurs	Edwin Way / HoTszkin	Televice CHAN
Signature	2		FX	ter
Date	20/2/2019	20/2/2019	20/2 /2019	20/2/2019

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	20 Feb 2019
Start & End Time (24hr)	From 17:24 To 17:40
Type of Patrol	Weekly independent Monthly Patral
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	23~24°C
Relative Humidity (%)	81~8970
Monitoring Point	(T) 2/3/4/5/6/7/8
Intensity of Odour	0 / 1-1, 2 / 3 / 4
Characteristic of Odour	Plostic sway
Possible Source of Odour	Burdels
Monitoring Point	1/2/3/4/546/7/8
Intensity of Odour	0/(1)2/3/4
Characteristic of Odour	Plustic
Possible Source of Odour	Bode Lander
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	Glace
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 - Remarker	

This is the independent Pratal. Pls refer to ALS Report the Deball

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Philip Chen	Edwin Wory HUTSZ kin	Telence (HAN
Signature	First	Z	7 3	- to
Date	20/2/2019	70/2/14	20/2/2019	20 12 12019

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

Parameter	Observations
Date	20 Feb 2019
Start & End Time (24hr)	From / T-34 To 17:46
Type of Patrol	Weekly Independent Monthly Patrol
Weather Condition	Sunny / Cloudy / Windy / Humid / Foggy /
Temperature (°C)	23~244
Relative Humidity (%)	81~897
Monitoring Point	81~892, 1/2/3/4/5/6/9/8
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) 9 / 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	<u>1 / 2 / 3 / 4 / 5 / 6 / 7 / 8</u> 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 Mile C	

This in Independent adam Patrol, Ma refer to ALS Report for details

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAM	Phillys chew	Edwin Wong / Ho Too kin	THAN (HAN/
Signature	Fint		2 7	C
Date	20/2/2019	20/2/19	20/2/2019	20/2/2019

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Organic Resources Recovery Centre (Phase 1)

Parameter	Observations	
Date	22/2/2019	
Start & End Time (24hr)	rom row row <th row<="" td="" th<=""></th>	
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	(1) / 2 / 3 / 4 / 5 / 6 / 7 / 8 (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 Bioaas 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	Septic smell	
Possible Source of Odour	Dosulphinization limit	
Monitoring Point	Septic smell 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	
Intensity of Odour	(0) / 1 / 2 / 3 / 4	
Characteristic of Odour	Y	
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		
Eollow-up Actions Remark		

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	TESS CHAN			Sarah HO
Signature	Jese	NA	NA	Sarah
Date	22 jeb 2019		1971	22/2/2019

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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	0/(1)/2/3/4
Characteristic of Odour	* * *
Possible Source of Odour	construction Air compressive Sarah
Monitoring Point	1/2/3/4/5/6/7/(8)
Intensity of Odour	$\begin{array}{c} 1 / 2 / 3 / 4 / 5 / 6 / 7 / (8) \\ \hline 0 / 1 / 2 / 3 / 4 \end{array}$
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 Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	TESS CHAN			Sarah HO
Signature	Jess	NA	NA	Sarah
Date	22 Feb 2018		1.11	22/2/2019



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 (%)	57 %
Monitoring Point	57% (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 0 / (1) 2 / 3 / 4 Prostic circly Brogas Holder 1 / 2 / 3 / 4 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	Dratic cupli
Possible Source of Odour	Brogas Holder.
Monitoring Point	1/2/3/445/6/7/8
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	U U
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	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Characteristic of Odour	
Possible Source of Odour	
Follow-up Actions	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIONA LAN		/	Terence (HAA)
Signature	Farx			e a
Date	75 2/2019			25/2/2019

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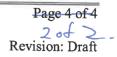
6. Appendix

Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

25 Feb 2019 From 14:05 To Weekly Sunny / Qloudy / Windy / Humid / Foggy /
From /4:05 To /4:19 Weekly Sunny / Qloudy / Windy / Humid / Foggy /
Weekly Sunny / Qloudy / Windy / Humid / Foggy /
22,5%
(77)
1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
0 / 1) / 2 / 3 / 4
Dievel smell
DReed Compares of conchests of
1/2/3/4/5/6/7/8
(1/2/3/4
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
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
/

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	TIONA LAM			Terence (HAN)
Signature	Frons			lerence (MAN
Date	25/2/2019			2+12/2011



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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 Ringas Holdas
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	HzS smell
Possible Source of Odour	Darwing and the F Aven
Monitoring Point	Dasulphinitation Unit frea 1/2/3/(4)/5/6/7/8
Intensity of Odour	(0) / 1 / 2 / 3 / 4
Characteristic of Odour	0
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	97 ass 1 / 2 / 3 / 4 / 5 / (6) / 7 / 8
Intensity of Odour	(0) 1 / 2 / 3 / 4
Characteristic of Odour	V
Possible Source of Odour	
Follow-up Actions Remark	

	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIDNA LAM			Sarah HO
Signature	Find	NA	NA	Savah
Date	27/2/2019			27/2/2019

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Organic Resources Recovery Centre (Phase 1)

Odour Patrol Record Log Sheet

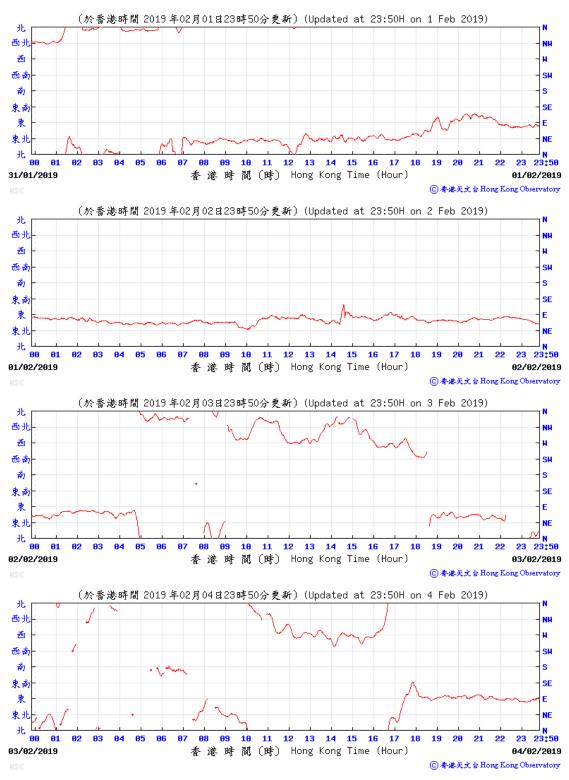
Parameter	Observations	
Date	27/2/2019	
Start & End Time (24hr)	From 14:02 To 14:29	
Type of Patrol	Weekly	
Weather Condition	(unn) / Cloudy / Windy / Humid / Foggy /	
Temperature (°C)	26.6	
Relative Humidity (%)		
Monitoring Point	64 1/2/3/4/5/6/(7)/8	
Intensity of Odour	0/(1)/2/3/4	
Characteristic of Odour	Hot Plastic and publich small	
Possible Source of Odour	PSV of Biogas Holder, skip and	
Monitoring Point	Hot Plastic and rubbish smell PSV of Biogas Hoker, skip area 1/2/3/4/5/6/7/(8)	
Intensity of Odour	0/Q/2/3/4	
Characteristic of Odour	Solvent smell	
Possible Source of Odour	Workhurdes 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	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		

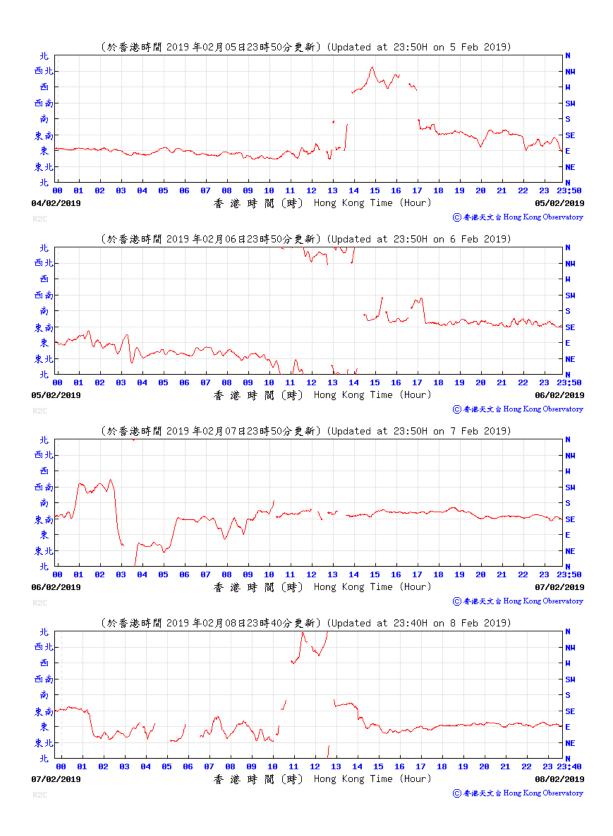
	EPD Representative	Employer Representative	Independent Odour Patrol Team	OSCAR Bioenergy JV
Name	FIDNA LAM			Sarah Ho
Signature	Find	NA	NA	Sonah
Date	27/2/2019			27/2/2019

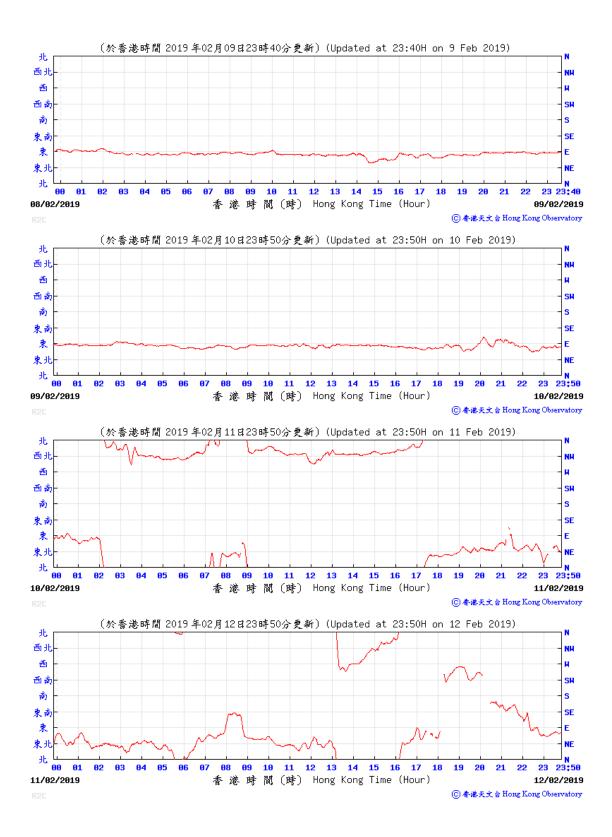
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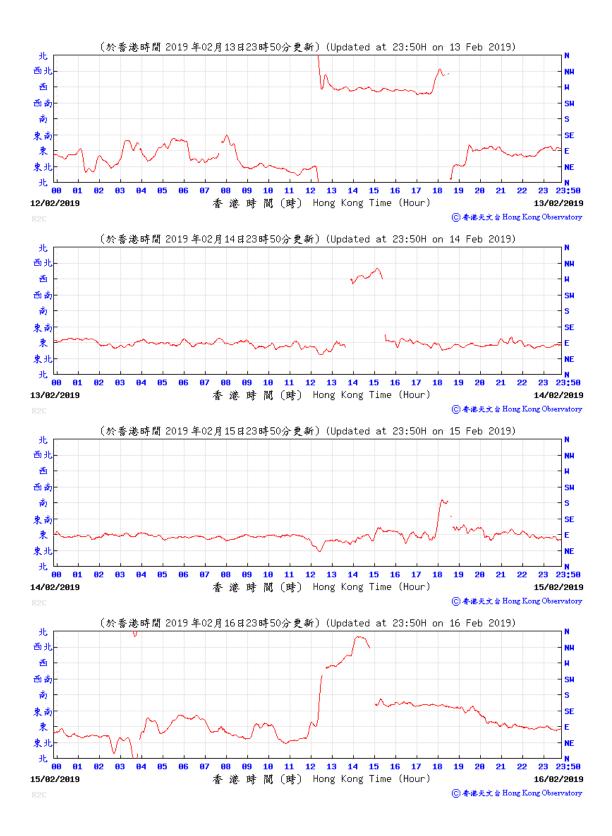
Local Wind Direction and Wind Speed

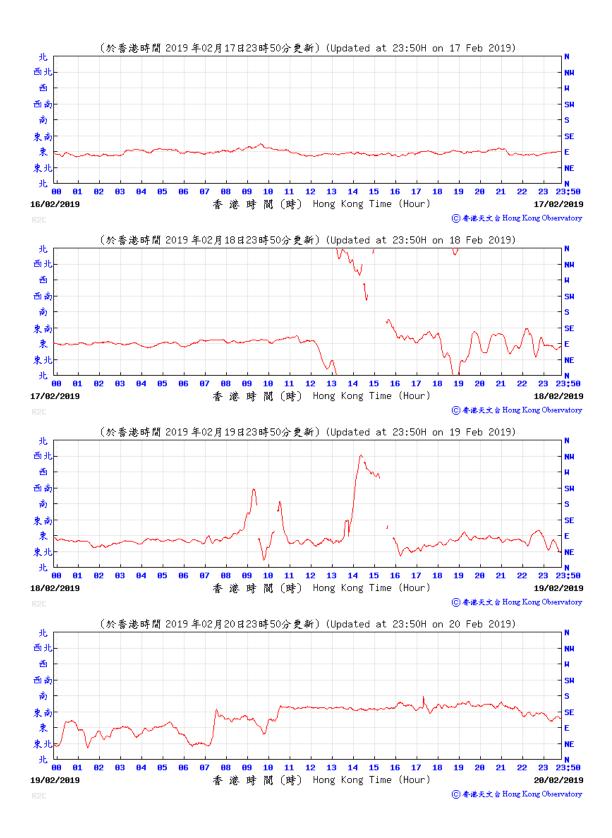
Wind Direction

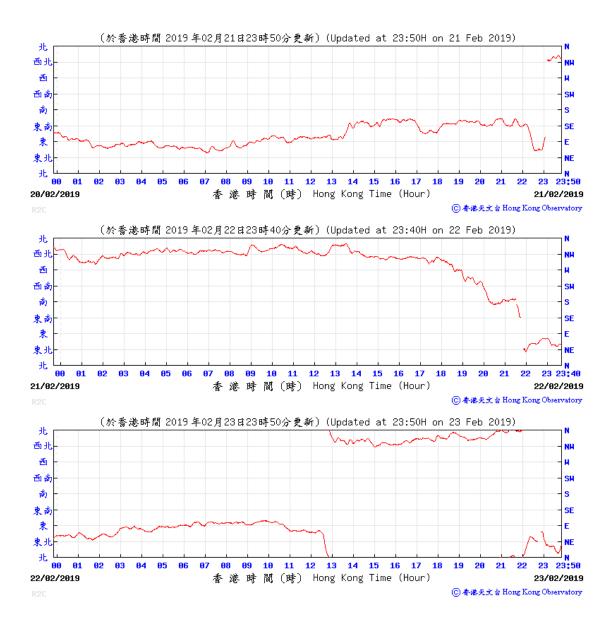


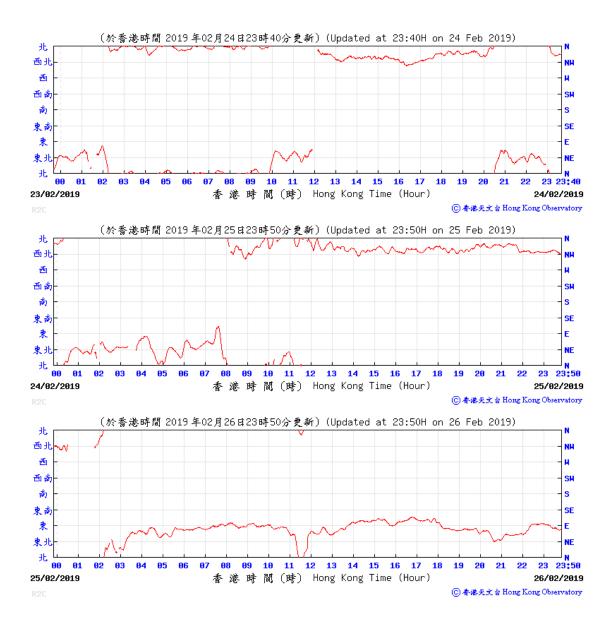


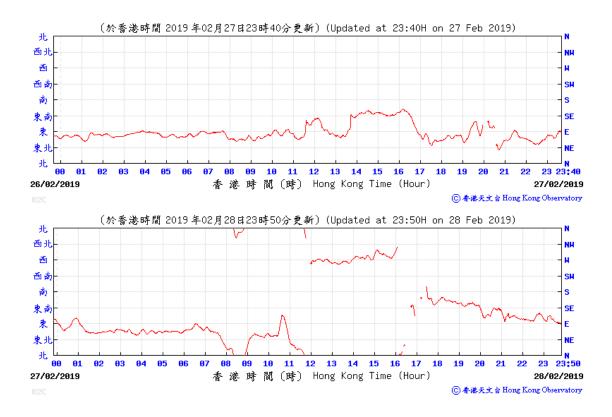












Annex H3

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.

	ACTION		
EVENT	Person-in-charge of Odour	Project Proponent ⁽¹⁾	
ACTION LEVEL	Outour		
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. 	

Event and Action Plan for Odour Monitoring

	ACTION		
EVENT	Person-in-charge of Odour	Project Proponent ⁽¹⁾	
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	1. Identify	1. Carry out investigation to	
of Limit	source/reason of	identify the source/reason of	
level	exceedance;	exceedance. Investigation	
	2. Inform EPD;	should be completed within 2	
	3. Repeat odour patrol to	week;	
	confirm findings;	2. Rectify any unacceptable practice;	
	4. Increase odour patrol	3. Formulate remedial actions;	
	frequency to bi-weekly;	4. Ensure remedial actions	
	5. Assess effectiveness of	properly implemented;	
	remedial action and keep EPD	5. If exceedance continues,	
	informed of the results;	consider what	
	6. If exceedance stops,	more/enhanced mitigation	
	cease additional odour	measures should be	
	patrol.	implemented;	

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