



# Contract No. EP/SP/61/10 Organic Resources Recovery Centre (Phase 1)

Thirty-sixth Quarterly EM&A  
Summary Report

PREPARED FOR  
OSCAR Bioenergy Joint Venture

DATE  
31 October 2025

REFERENCE  
0279222



Meinhardt Infrastructure and Environment Limited

**Organic Resources Recovery Centre,  
Phase I**

36<sup>th</sup> Quarterly EM&A Report  
(1 Mar 2024 – 31 May 2024)

Verified by: Claudine Lee



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# Contract No. EP/SP/61/10 Organic Resources Recovery Centre (Phase 1)

## Thirty-sixth Quarterly EM&A Summary Report 0279222



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## CONTENTS

EXECUTIVE SUMMARY	1
ENVIRONMENTAL MONITORING AND AUDIT PROGRESS	1
AIR QUALITY MONITORING	1
ENVIRONMENTAL EXCEEDANCE/ NON-CONFORMANCE/ COMPLIANT/ SUMMONS AND PROSECUTION	1
1. PROJECT INFORMATION	1
1.1 BACKGROUND	1
1.2 GENERAL SITE DESCRIPTION	1
1.2.1 MAJOR ACTIVITIES UNDERTAKEN	1
2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS AND RESULTS	2
2.1 ENVIRONMENTAL MONITORING	2
2.1.1 AIR QUALITY	2
2.1.2 ODOUR	5
2.2 SITE AUDIT	5
2.3 LANDSCAPE AND VISUAL	5
2.4 WASTE MANAGEMENT	5
ANNEX A PROJECT LAYOUT	
ANNEX B PROJECT ORGANISATION CHART AND CONTACT DETAIL	

LIST OF TABLES	
TABLE 1.1 SUMMARY OF ACTIVITIES UNDERTAKEN IN THE REPORTING PERIOD	2
TABLE 2.1 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CAPCS	2
TABLE 2.2 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CHP 1	3
TABLE 2.3 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CHP 2	3
TABLE 2.4 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CHP 3	3
TABLE 2.5 HOURLY AVERAGE OF PARAMETERS RECORDED FOR ASP	4
TABLE 2.6 HOURLY AVERAGE OF PARAMETERS RECORDED FOR THE STANDBY FLARING GAS UNIT	4
TABLE 2.7 QUANTITIES OF WASTE GENERATED FROM THE OPERATION OF THE PROJECT	5

## 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 36<sup>th</sup> Quarterly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 March 2024 to 31 May 2024 in accordance with the EM&A Manual.

## ENVIRONMENTAL MONITORING AND AUDIT PROGRESS

### AIR QUALITY MONITORING

Non-compliance of emission limits of NO<sub>x</sub>, SO<sub>2</sub>, and HCl from CHP1; NO<sub>x</sub> and SO<sub>2</sub> from CHP2; NO<sub>x</sub> and SO<sub>2</sub> from CHP3; and NO<sub>x</sub>, SO<sub>2</sub>, NH<sub>3</sub>, and HCl from the ASP were recorded during March 2024.

Non-compliance of emission limits of NO<sub>x</sub>, SO<sub>2</sub>, and HCl from CHP1; NO<sub>x</sub>, SO<sub>2</sub>, and HCl from CHP2; NO<sub>x</sub> and SO<sub>2</sub> from CHP3; and NO<sub>x</sub>, SO<sub>2</sub>, NH<sub>3</sub>, and HCl from the ASP were recorded during April 2024.

Non-compliance of emission limits of NO<sub>x</sub> and SO<sub>2</sub>, from CHP1; NO<sub>x</sub> and SO<sub>2</sub> from CHP2; NO<sub>x</sub> and SO<sub>2</sub> from CHP3; NO<sub>x</sub>, SO<sub>2</sub>, NH<sub>3</sub>, and HCl from the ASP; and HF from the Standby Gas Flaring Unit were recorded during May 2024.

All exceedances occurred due to system instability.

### ENVIRONMENTAL EXCEEDANCE/ NON-CONFORMANCE/ COMPLIANT/ SUMMONS AND PROSECUTION

Exceedances for the air emission limits for the CAPCS, CHP, and ASP stacks were recorded during the reporting period.

One (1) Environmental Complaint regarding odour nuisance was received at the facility on 2 May 2024. Mitigation measures were implemented, daily odour patrols were arranged, ad-hoc independent odour patrol was conducted on 3 May 2024 and interim report regarding the complaints were submitted to EPD on 22 May 2024.

## 1. PROJECT INFORMATION

### 1.1 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.

ERM-Hong Kong, Ltd (ERM) has been appointed by OSCAR as the Environmental Team (ET) for the construction phase EM&A programme and the Monitoring Team (MT) for the operation phase EM&A programme for the implementation of the EM&A programme in accordance with the requirements of the EP and the approved EM&A Manual.

### 1.2 GENERAL SITE DESCRIPTION

The Project Site is located at Siu Ho Wan in North Lantau with an area of about 2 hectares. The facility received an average of 157.17 to 170.58 tonnes and treated an average of 126.09 to 142.80 tonnes of source separated organic waste per day during the reporting period.

#### 1.2.1 MAJOR ACTIVITIES UNDERTAKEN

A summary of the major activities undertaken in the reporting period is shown in *Table 1.1*.

**TABLE 1.1 SUMMARY OF ACTIVITIES UNDERTAKEN IN THE REPORTING PERIOD**

Activities Undertaken in the Reporting Period
<ul style="list-style-type: none"> <li>• Operation of the Project, including organic waste reception, and operation of the pre-treatment facilities, anaerobic digesters, composting facilities, air pollution control systems, on-line emission monitoring system for the Centralised Air Pollution Control Unit (CAPCS), Co-generation Units (CHP)s and Ammonia Stripping Plant (ASP), and the wastewater treatment plant;</li> <li>• Replaced pumps and spool for leachate sump;</li> <li>• Began installation of PT blowers;</li> <li>• Began stripping of PT line 2 crusher bearings;</li> <li>• Continued SBT cleaning work and internal vessel repairs;</li> <li>• Replaced biogas sump pumps x 2;</li> <li>• Installed and commissioned drum screen installation;</li> <li>• Planned maintenance work of wet scrubber No. 2;</li> <li>• Centrifuge area and polymer dosing systems;</li> <li>• Completed Suspension Buffer Tank (SBT) cleaning and repair works;</li> <li>• Began work of ASP overhaul of ECU and other items;</li> <li>• Continued PT2 crusher repair;</li> <li>• Completed PT blower installation;</li> <li>• Began upgrade to polymer tank and associated items;</li> <li>• Implementation of SO<sub>2</sub> emission factors at the CHPs;</li> <li>• Expert review of the CHPs system;</li> <li>• Continuous environmental monitoring system (CEMS) span gas calibration;</li> <li>• WR2 – Periodic Test for Fixed Electrical Installations; and</li> <li>• ASP overhaul.</li> </ul>

## 2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS AND RESULTS

### 2.1 ENVIRONMENTAL MONITORING

#### 2.1.1 AIR QUALITY

The concentrations of concerned air pollutants emitted from the stacks of the CAPCS, CHP, and ASP during the reporting period are monitored on-line by the continuous environmental monitoring system (CEMS). The number of exceedances of the concerned air emissions monitored for the CAPCS, CHP and ASP during this reporting period are presented in *Tables 2.1 to 2.6*.

It should be noted that measurements recorded under abnormal operating conditions, e.g., start up and stopping of stacks and unstable operation, as well as test runs and interference of sensor, are disregarded. There is a change in the data processing setting/ correction factor in the CEMS to improve the data accuracy starting from 14 May 2024.

**TABLE 2.1 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CAPCS**

Parameter	Range of Hourly Average Conc. (mg/Nm <sup>3</sup> )	Emission Limit (mg/Nm <sup>3</sup> )	Exceedance Identified	Remarks
VOCs (including methane) <sup>(a)</sup>	0.00 – 654.73	680	Nil	Nil
Dust (or TSP)	0.00 – 0.02	6	Nil	Nil
Odour (including NH <sub>3</sub> & H <sub>2</sub> S) <sup>(b)</sup>	0.00 – 100.21	220	Nil	Nil

**Notes:**

(a) The VOCs emission limit includes methane as biogas is adopted, as fuel in the combustion process.

(b) The odour unit is OU/Nm<sup>3</sup>.

TABLE 2.2 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CHP 1

Parameter	Range of Hourly Average Conc. (mg/Nm <sup>3</sup> ) <sup>(a)</sup>	Max. Emission Limit (mg/Nm <sup>3</sup> )	Exceedance Identified	Remarks
Dust (or TSP)	0 - 13	15	Nil	Nil
Carbon Monoxide	0 - 578	650	Nil	Nil
NO <sub>x</sub>	0 - 946	300	Identified <sup>(c)</sup>	System unstable (e.g., low efficiency)
SO <sub>2</sub>	0 - 351	50	Identified <sup>(d)</sup>	System unstable (e.g., low efficiency)
VOCs (including methane) <sup>(b)</sup>	0 - 1,432	1,500	Nil	Nil
HCl	0 - 85	10	Identified <sup>(e)</sup>	System unstable (e.g., low efficiency)
HF	0 - 1	1	Nil	Nil

**Notes:**

(a) All values refer to an oxygen content in the exhaust gas of 6% and dry basis.

(b) The VOCs emission limit includes methane as biogas is adopted as fuel in the combustion process.

(c) Dates with NO<sub>x</sub> exceedances (number of exceedances on the day) were identified on 1(13), 2(24), 3(24), 4(24), 5(23), 6(21), 7(17), 8(11), 19(9), 21(8), 22(18), 23(7), 24(9), 26(6), 27(16), 28(24), 29(24), and 30(15) March 2024; 5(11), 6(21), 7(19), 8(21), 9(22), 10(6), 11(24), 12(18), 15(21), 16(24), 17(23), 18(11), 19(9), 20(24), 21(24), 22(24), and 23(7) April 2024; 3(2), 10(7), 11(24), 12(24), 13(20), 14(19), 15(24), 16(24), 17(17), 18(23), 19(24), 20(20), 21(8), 22(9), 23(24), 24(24), 25(24), 26(24), 27(24), 28(14), 29(12), 30(24), and 31(23) May 2024.

(d) Dates with SO<sub>2</sub> exceedances (number of exceedances on the day) were identified on 1(12), 2(5), 3(24), 4(24), 5(23), 6(21), 7(17), 8(11), 19(9), 21(8), 22(18), 23(7), 24(9), 26(6), 27(13), 28(24), 29(24), and 30(15) March 2024; 5(11), 6(21), 7(20), 8(21), 9(22), 10(6), 11(24), 12(18), 15(8), 16(11), 17(18), 18(11), 19(5), 20(22), 21(23), 22(24), and 23(7) April 2024; 3(1), 9(1), 10(7), 11(24), 12(24), 13(20), 14(13), 15(6), and 18(8) May 2024.

(e) Dates with HCl exceedances (number of exceedances on the day) were identified on 8(1) and 22(1) March 2024 and 6(1) April 2024.

TABLE 2.3 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CHP 2

Parameter	Range of Hourly Average Conc. (mg/Nm <sup>3</sup> ) <sup>(a)</sup>	Max. Emission Limit (mg/Nm <sup>3</sup> )	Exceedance Identified	Remarks
Dust (or TSP)	0 - 15	15	Nil	Nil
Carbon Monoxide	0 - 340	650	Nil	Nil
NO <sub>x</sub>	0 - 533	300	Identified <sup>(c)</sup>	System unstable (e.g., low efficiency)
SO <sub>2</sub>	0 - 267	50	Identified <sup>(d)</sup>	System unstable (e.g., low efficiency)
VOCs (including methane) <sup>(b)</sup>	0 - 1,500	1,500	Nil	Nil
HCl	0 - 15	10	Identified <sup>(e)</sup>	System unstable (e.g. low efficiency)
HF	0 - 1	1	Nil	Nil

**Notes:**

(a) All values refer to an oxygen content in the exhaust gas of 6% and dry basis.

(b) The VOCs emission limit includes methane as biogas is adopted as fuel in the combustion process.

(c) Dates with NO<sub>x</sub> exceedances (number of exceedances on the day) were identified on 1(14), 2(6), 6(1), 7(2), 8(16), 9(17), 10(19), 11(24), 12(23), 13(15), 14(11), 15(17), 16(19), 17(15), 18(11), 19(13), 20(13), 21(2), 22(4), 23(24), 24(21), 25(24), 26(24), 27(19), 28(4), 29(10), 30(18), and 31(24) March 2024; 1(19), 2(10), 3(10), 4(24), 5(15), 6(11), 7(11), 8(21), 9(24), 10(24), 11(18), 12(4), 13(19), 14(21), 15(13), 16(22), 17(11), 18(8), 19(3), 20(21), 21(24), 22(24), 23(24), 24(24), 25(24), 26(24), 27(24), 28(24), 29(24), and 30(24) April 2024; 1(9), 2(4), 3(8), 4(6), 5(15), 6(12), 7(6), 8(13), 9(5), 10(4), 11(16), 12(6), 13(3), 14(11), 15(2), 21(14), 22(20), 23(6), 24(8), 25(4), 26(11), 27(8), 28(6), 29(23), 30(22), and 31(23) May 2024.

(d) Dates with SO<sub>2</sub> exceedances (number of exceedances on the day) were identified on 25(2) March 2024; 1(19), 2(10), 3(8), 4(15), 5(14), 6(7), 7(4), 8(10), 9(7), 10(14), 11(9), 12(4), 13(19), 14(21), 15(4), 16(11), 17(9), 18(5), 19(3), 20(17), 21(16), 22(16), 23(23), 24(23), 25(24), 26(24), 27(24), 28(24), 29(24), and 30(24) April 2024; 4(5), 5(5), 6(7), 7(11), 8(22), 9(15), 10(19), 11(3), 13(1), 14(7), and 18(2) May 2024.

(e) Dates with HCl exceedances (number of exceedances on the day) was identified on 5(1) April 2024.

TABLE 2.4 HOURLY AVERAGE OF PARAMETERS RECORDED FOR CHP 3

Parameter	Range of Hourly Average Conc. (mg/Nm <sup>3</sup> ) <sup>(a)</sup>	Max. Emission Limit (mg/Nm <sup>3</sup> )	Exceedances Identified	Remarks
Dust (or TSP)	0 - 15	15	Nil	Nil
Carbon Monoxide	0 - 158	650	Nil	Nil
NO <sub>x</sub>	0 - 662	300	Identified <sup>(c)</sup>	System unstable (e.g., low efficiency)
SO <sub>2</sub>	0 - 274	50	Identified <sup>(d)</sup>	System unstable (e.g., low efficiency)



Parameter	Range of Hourly Average Conc. (mg/Nm <sup>3</sup> ) <sup>(a)</sup>	Max. Emission Limit (mg/Nm <sup>3</sup> )	Exceedances Identified	Remarks
VOCs (including methane) <sup>(b)</sup>	0 – 1,276	1,500	Nil	Nil
HCl	0 – 6	10	Nil	Nil
HF	0 – 1	1	Nil	Nil

**Notes:**

(a) All values refer to an oxygen content in the exhaust gas of 6% and dry basis.

(b) The VOCs emission limit includes methane as biogas is adopted as fuel in the combustion process.

(c) Dates with NO<sub>x</sub> exceedances (number of exceedances on the day) were identified on 1(1), 2(1), 3(2), 12(1), 13(1), 14(2), 15(2), 19(7), 21(1), 22(3), 23(4), 24(12), 25(1), 26(5), 27(2), 28(5), 30(3), and 31(11) March 2024; 1(1), 2(22), 3(24), 4(24), 5(18), 6(17), 10(16), 11(3), 12(13), 13(23), 14(24), 15(12), 19(7), 20(7), 21(14), 22(3), 23(9), 24(22), 25(24), 26(24), 27(18), 28(18), and 29(11) April 2024; 2(2), 4(1), 5(3), 6(2), 7(4), 8(1), 13(2), 14(3), 19(11), 20(11), 21(11), 22(10), 23(2), 24(2), and 25(1) May 2024.

(d) Dates with SO<sub>2</sub> exceedances (number of exceedances on the day) were identified on 31(1) March 2024; 5(10), 6(9), 10(1), 14(6), 15(7), 19(1), 21(9), and 22(3) April 2024; 4(3), 5(3), 6(6), 7(12), 8(3), 9(4), 13(4), and 14(3) May 2024.

**TABLE 2.5 HOURLY AVERAGE OF PARAMETERS RECORDED FOR ASP**

Parameter	Range of Hourly Average Conc. (mg/Nm <sup>3</sup> ) <sup>(a)</sup>	Max. Emission Limit (mg/Nm <sup>3</sup> )	Exceedances Identified	Remarks
Dust (or TSP)	0 – 5	5	Nil	Nil
Carbon Monoxide	0 – 97	100	Nil	Nil
NO <sub>x</sub>	0 – 702	200	Identified <sup>(c)</sup>	System unstable (e.g., low efficiency, unstable column temperature)
SO <sub>2</sub>	0 – 386	50	Identified <sup>(d)</sup>	System unstable (e.g., low efficiency, unstable column temperature)
VOCs (including methane) <sup>(b)</sup>	0 – 13	20	Nil	Nil
NH <sub>3</sub>	0 – 404	35	Identified <sup>(e)</sup>	System unstable (e.g., low efficiency, unstable column temperature)
HCl	0 – 7,691	10	Identified <sup>(f)</sup>	System unstable (e.g., low efficiency, unstable column temperature)
HF	0 – 1	1	Nil	Nil

**Notes:**

(a) All values refer to an oxygen content in the exhaust gas of 11% and dry basis.

(b) The VOCs emission limit include methane as biogas is adopted as fuel in the combustion process.

(c) Dates with NO<sub>x</sub> exceedances (number of exceedances on the day) were identified on 1(11), 2(12), 3(8), 4(14), 5(20), 6(18), 7(23), 8(19), 9(22), 10(10), 11(13), 12(4), 13(5), 14(2), 15(10), 16(3), 17(4), 18(9), 19(20), 20(2), 21(1), 22(12), 23(8), 24(8), 25(5), 26(6), 27(2), 29(6), 30(22), and 31(15) March 2024; 1(12), 2(10), 3(13), 4(5), 5(21), 6(12), 7(18), 8(16), 9(20), 10(19), 11(15), 12(10), 13(18), 14(19), 15(22), 16(18), 17(7), 18(18), 19(21), 20(23), 21(20), 22(23), 23(24), 24(20), 25(20), 26(16), 27(22), 28(19), and 29(4) April 2024; 7(6), 8(5), 9(6), 16(9), 17(5), 18(15), 21(10), 22(8), 24(5), 26(3), 27(5), 28(2), 29(1), and 30(3) May 2024.

(d) Dates with SO<sub>2</sub> exceedances (number of exceedances on the day) were identified on 5(2), 6(4), 7(11), 8(16), 9(3), 10(2), 11(1), 12(6), 13(4), 25(1), and 30(4) March 2024; 1(1), 2(1), 5(13), 6(14), 7(11), 8(22), 9(10), 14(7), 15(13), 18(1), 19(1), 21(10), 22(11), 24(7), 25(13), 27(3), and 28(6) April 2024; 7(6), 8(11), 9(24), 10(24), 11(24), 12(22), 13(24), 14(22), 15(24), 16(7), 17(7), 18(21), 19(12), 20(18), 21(8), 22(5), 23(3), 24(1), 25(1), and 27(3) May 2024.

(e) Dates with NH<sub>3</sub> exceedances (number of exceedances on the day) were identified on 1(3), 2(3), 3(3), 4(4), 5(2), 6(1), 9(3), 10(2), 11(3), 12(7), 13(2), 15(1), 16(8), 17(18), 18(17), 19(2), 20(6), 21(9), 22(4), 23(10), 24(11), 25(20), 26(13), 27(12), 28(8), 29(2), and 31(1) March 2024; 1(4), 2(12), 4(1), 5(2), 6(1), 7(2), 8(4), 9(2), 15(2), 16(1), 17(8), 18(3), 19(2), 21(4), 24(11), 25(8), and 28(4) April 2024; 8(1), 9(17), 10(23), 11(20), 12(23), 13(21), 14(23), 15(24), 16(9), 17(4), 19(1), 20(20), 21(1), 22(15), 23(20), 24(6), 25(10), 26(14), 27(8), 28(3), 29(10), 30(6), and 31(1) May 2024.

(f) Dates with HCl exceedances (number of exceedances on the day) were identified on 29(3) March 2024; 8(2) April 2024, 9(1) and 27(2) May 2024.

**TABLE 2.6 HOURLY AVERAGE OF PARAMETERS RECORDED FOR THE STANDBY FLARING GAS UNIT**

Parameter	Range of Hourly Average Conc. (mg/Nm <sup>3</sup> ) <sup>(a)</sup>	Max. Emission Limit (mg/Nm <sup>3</sup> )	Exceedances Identified	Remarks
Dust (or TSP)	0 – 0	5	Nil	Nil
Carbon Monoxide	0 – 0	100	Nil	Nil
NO <sub>x</sub>	0 – 0	200	Nil	Nil
SO <sub>2</sub>	0 – 0	50	Nil	Nil
VOCs (including methane) <sup>(b)</sup>	0 – 0	20	Nil	Nil
HCl	0 – 0	10	Nil	Nil
HF	0 – 5	1	Identified <sup>(c)</sup>	System unstable (start-up/ shut-down procedures) and Power outage (28 May 2024)

**Notes:**

Parameter	Range of Hourly Average Conc. (mg/Nm <sup>3</sup> ) <sup>(a)</sup>	Max. Emission Limit (mg/Nm <sup>3</sup> )	Exceedances Identified	Remarks
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(a) All values refer to an oxygen content in the exhaust gas of 11% and dry basis.

(b) The VOCs emission limit include methane as biogas is adopted as fuel in the combustion process.

(c) Dates with HF exceedances (number of exceedances on the day) were identified on 2(2) and 28(3) May 2024.

## 2.1.2 ODOUR

No odour patrol was required to be conducted for this reporting period.

One (1) Environmental Complaint regarding odour nuisance was received at the facility on 2 May 2024. Mitigation measures were implemented, daily odour patrols were arranged, and interim report regarding the complaints received were submitted to EPD on 22 May 2024.

## 2.2 SITE AUDIT

Environmental mitigation measures (related to air quality, water quality, waste, land contamination, hazard-to-life, and landscape and visual) to be implemented during the operation phase of the Project are recommended in the approved EIA Report and EM&A Manual. Monthly site audits for March 2024 to May 2024 have been carried out to check the implementation of these mitigation measures. Follow-up actions resulting from the site audits were generally taken as reported by the Contractor. The Contractor has implemented environmental mitigation measures recommended in the approved EIA Report and EM&A Manual.

## 2.3 LANDSCAPE AND VISUAL

The monthly inspections of the landscape and visual mitigation measures for the operation phase of the Project were performed on 28 March 2024, 19 April 2024 and 29 May 2024, and no non-compliance in relation to the landscape and visual mitigation measures were identified.

## 2.4 WASTE MANAGEMENT

Wastes generated from the operation of the Project include chemical waste, wastes generated from pre-treatment process and general refuse. The quantities of different types of waste generated from the operation of the Project in the reporting period are summarised in *Table 2.7*.

**TABLE 2.7 QUANTITIES OF WASTE GENERATED FROM THE OPERATION OF THE PROJECT**

Month / Year	Chemical Waste	Waste Generated from Pre-treatment Process		General Refuse	
	Disposal of at CWTC	Disposed of at Landfill <sup>(a)</sup>	Recycled <sup>(b)</sup>	Disposed of at Landfill <sup>(a) (e)</sup>	Recycled <sup>(c)</sup>
March 2024	0 L <sup>(d)</sup>	1,037.81 tonnes	0 tonnes	2.765 tonnes <sup>(e)</sup>	0.051 tonnes
April 2024	0 L <sup>(d)</sup>	946.15 tonnes	0 tonnes	2.304 tonnes <sup>(e)</sup>	0 tonnes
May 2024	1,700 L <sup>(d)</sup>	1,300.62 tonnes	0 tonnes	2.880 tonnes <sup>(e)</sup>	0.077 tonnes

**Notes:**

(a) Waste generated from pre-treatment process and general refuse other than chemical waste and recyclables were disposed of at NENT landfill by sub-contractors.

(b) Among waste generated from pre-treatment process, no metals, papers/ cardboard packing or plastics were sent to recyclers for recycling during the reporting period.

(c) Among general refuse, 0.001 tonnes of metals, 0.115 tonnes of papers/ cardboard packing and 0.012 tonnes of plastics were sent to recyclers for recycling during the reporting period.

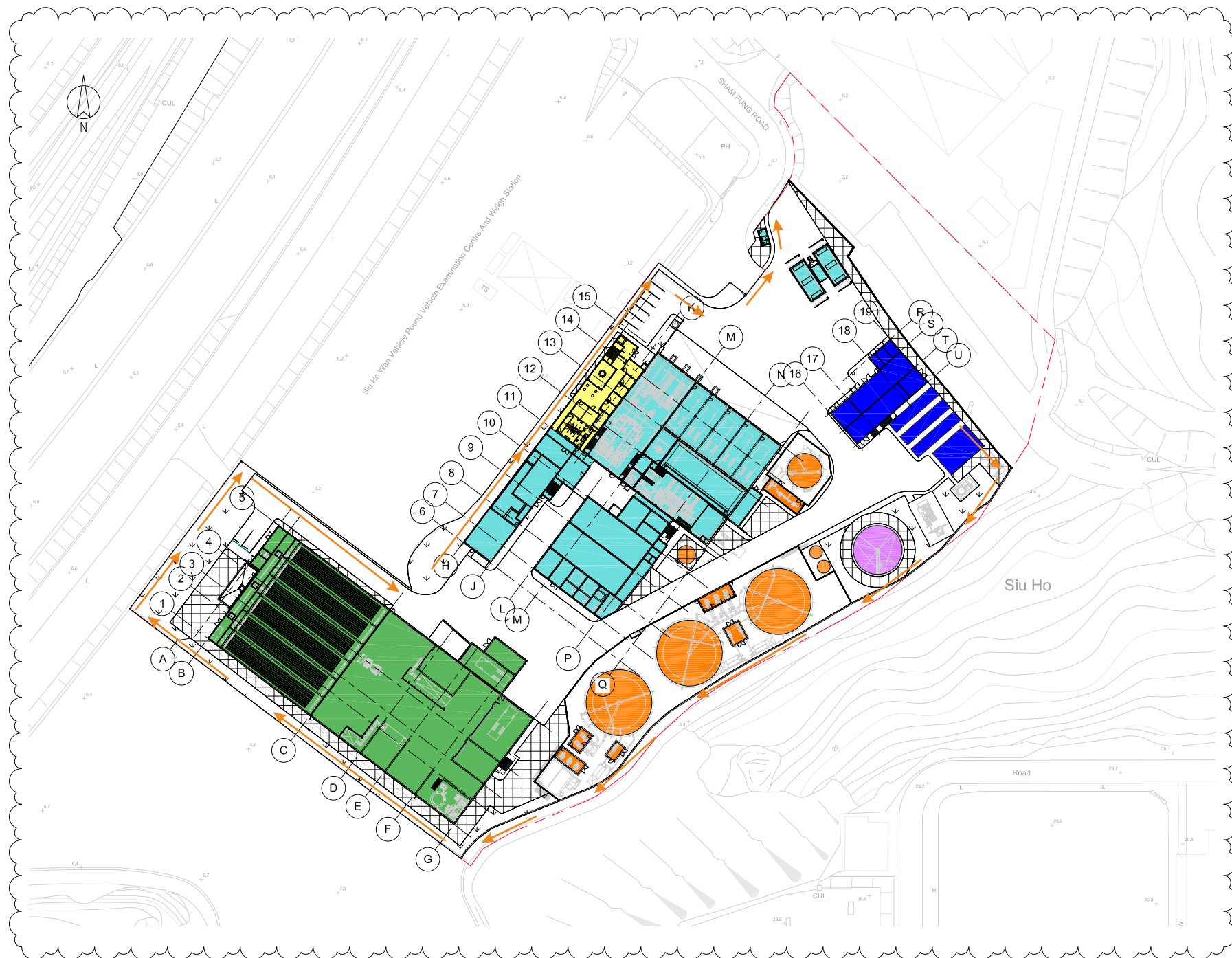
(d) No chemical waste was disposed of during March and April 2024; 1,700 L of chemical waste (waste lead-acid batteries) was disposed of at CWTC in May 2024.

(e) It was assumed that four 240-litre bins filled with 80% of general refuse were collected at each collection. The general refuse density was assumed to be around 0.15 kg/L.



ANNEX A

PROJECT LAYOUT



### Key

CLIENT

CLIENT'S CONSULTANT

AECOM ASIA CO., LTD.

CONTRACTOR

OSCAR BIOENERGY JV

LEAD DESIGNER

ENVIRONMENTAL TEAM

INDEPENDENT CONSULTANTS

PROJECT  
ORGANIC WASTE TREATMENT FACILITIES  
PHASE 1  
EP/SP/61/10

STATUS

DRAFT ISSUE

DRAWING TITLE
SITE LAYOUT

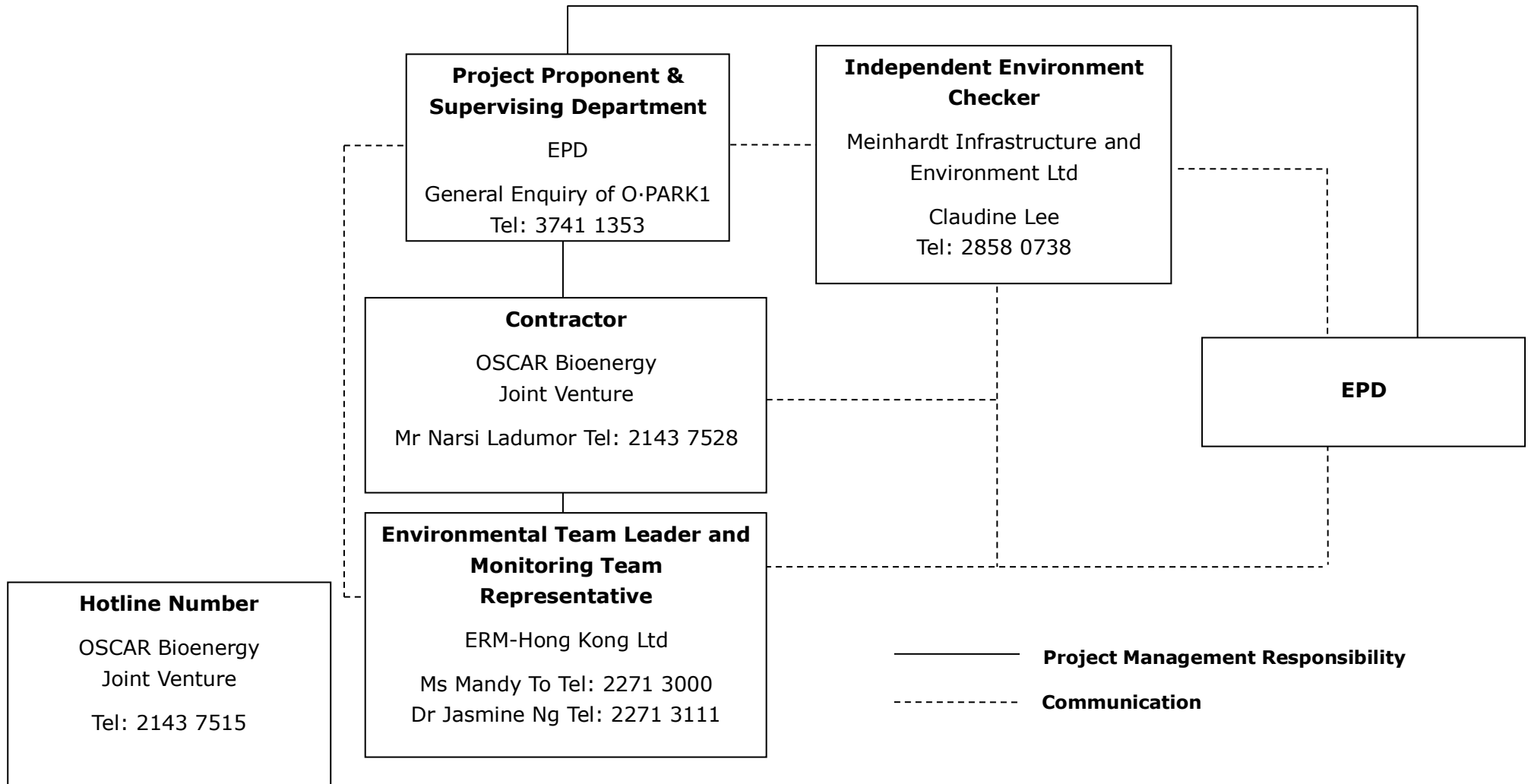


## ANNEX B

## PROJECT ORGANISATION CHART AND CONTACT DETAIL



## PROJECT ORGANISATION (WITH CONTACT DETAILS)





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