Annex G

Laboratory Results for NMVOCs

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CERTIFICATE OF ANALYSIS

CLIENT:	Oscar Bioenergy Joint Venture	WORK ORDER:	HK1951146
CONTACT:	Mr Edwin wong		
ADDRESS:	No. 5, Sham Fung Road, Siu Ho Wan, Lantau Island, NT, Hong Kong	LABORATORY:	Hong Kong
		SUB-BATCH:	0
		DATE RECEIVED:	19th November, 2019
		DATE OF ISSUE:	4th December, 2019
PROJECT:	Stack Gas Sampling for CHP2	SAMPLE TYPE:	Air
SITE:	ORRC1, Siu Ho Wan, Lantau Island	NO OF SAMPLES:	1
PO: ---			

COMMENTS

One (1) stack gas sample for CHP-2 was collected by ALS Technichem (HK) staff on 19th November, 2019 at the Organic Resources Recovery Centre (Phase 1) in Lantau Island.

Sampling information (Project name, Sample ID) is provided by client.

The sample(s) was analysed and reported on an as received basis.

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

PP Richard Fung
Managing Director - Hong Kong

1. Summary of Work

The document is the final report for the stack gas sampling and testing event for Oscar Bioenergy Joint Venture in Siu Ho Wan, North Lantau Island.

Sampling Period: 19th November, 2019
Location of Stack: ORRC1, Siu Ho Wan
No. of Stack: 1
Name of Stack: CHP-2

Methods for Stack Sampling and Analysis:

Parameter	Method Reference	Sampling Time (minutes)
Volatile Organic Compounds (VOCs) [1]	US EPA Method 18	60
Non-Methane Volatile Organic Compounds (NMCOCs)) [1]	US EPA Method 18	60

Note:
[1]: Results expressed as carbon

2. Sampling Summary

Volatile Organic Compounds (VOCs)
Sample gas was collected by using a stainless steel sampling probe, from the centroid of the stack, into the Tedlar bag by passive sampling technique.
The measurement of total volatile organic compounds (VOCs) content in the sample was conducted in references to BS EN 12619. VOCs content was determined by measuring the methane and non-methane volatile organic compounds of the sample by Gas Chromatograph-Flame Ionisation Detector (GC-FID).

VOCs was reported as the sum of methane and non-methane organics content in the sample.

3. Sampling Period

Test Parameters	Sampling Period
Volatile Organic Compounds (VOCs)	19 November 2019 13:32 - 14:32

4. Result

Parameter	Unit	Reporting Limit	Result [1]
Gaseous & vaporous organic substances (VOCs) [2]	mg/m^3	0.7	957
Methane (CH_4) [2]	mg/m^3	0.5	954
Non-Methane Organic Carbon (NMOC) [2]	mg/m^3	0.2	3.2
Oxygen [3]	%	0.5	8.5

Note:
[1] Results expressed as dry, at 0 degree Celsius temperature, 101.325 kilopascal pressure and 6% O_2 content conditions.
[2] Results expressed as carbon.
[3] The oxygen content reported was the averaged result during the sampling period.