Annex K

Odour Patrol Result



ALS Technichem (HK) Pty Ltd
11/F, Chung Shun Knitting Centre
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Kwai Chung, N.T., Hong Kong
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CERTIFICATE OF ANALYSIS

CLIENT:

Oscar Bioenergy Joint

WORK ORDER:

HK1939568

CONTACT:

PROJECT:

Venture Mr Terence Chan

ADDRESS:

No. 5, Sham Fung Road, Siu

Ho Wan, North Lantau

SU

LABORATORY: Hong Kong

SUB-BATCH: DATE OF PATROL:

DATE OF ISSUE:

9 September 2019

16 September 2019

Island, NT, Hong Kong

Odour Patrol for the Organic Resources Recovery Centre

Phase 1 in Siu Ho Wan

SITE:

Organic Resources Recovery

Centre Phase 1 (O-Park 1)

COMMENTS

Date of Odour Patrol: 9th September 2019.

Odour Patrol was conducted by ALS Technichem (HK) Pty Ltd staff during 10:31 - 10:47 and 16:21 - 16:35.

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

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.

Mr Richard Fung Managing Director - Hong Kong

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1. Summary of Work

The odour patrol was conducted during daytime and evening time.

2. Odour Patrol

Odour patrolling is a process to make use of the calibrated olfactory senses (ie the nasal sense) of the patrol members to evaluate the odour and its intensity during a patrol exercise at the site.

The patrol work was conducted by two odour patrol team members from ALS Technichem (HK) Pty Ltd during each time session. All members are free from any respiratory diseases during patrol day. None of the members has been working or living in the area of the vicinity of the inspection zone.

The patrol team was required to move slowly from one to the other monitoring locations and use their olfactory senses to detect odour at each location.

The location of odour sources and the areas to be affected by the odour nuisance were identified as much as possible.

During the patrolling, the meteorological and surrounding information were recorded:

- the prevailing weather condition;
- the wind direction;
- the wind speed;
- location where odour is spotted;
- possible source of odour:
- perceived intensity of the odour;
- duration of odour: and
- characteristics of the odour detected

The perceived intensity is to be divided into 5 levels which are ranked in an ascending order as follows:

0	Not detected	No odour perceives or an odour so weak that it cannot be easily characterised or described					
1	Slight	ght Identifiable odour, slight					
2	Moderate	Identifiable odour, moderate					
3	Strong	Identifiable odour, strong					
4	Extreme	Severe odour					

The odour patrol location was shown in Appendix 1.



3. Odour Patrol Result:3.1. Daytime:

Location	Panellist	Weather	Time	т	RH	WS (m/s)	WD (Degree)	Odour		Direction from Source	On-Site Observation	
Loca	Pane		Time	(°C)	(%)			Intensity			Odour Characteristics	Potential Odour Source
8	1	C	10.21	22.1	90.0	0.0	221	0	NI A	NIA	NIA	NIA
8	2	Sunny	10:31	33.1	80.0	0.9	321	0	NA	NA	NA	NA
7	1	Cuppy	10:33	33.9	71.2	0.0	_	1	Continuous	NA	Piegos	Biogas Holder Tank Relief Valve
/	2	Sunny 10:3	10.55	33.9				1			Biogas	
2	1	Sunny	nny 10:36	33.2	72.6	0.9	329	1	- Continuous	Upwind	Biogas	Biogas Holder Tank Relief Valve
2	2	Sullily						1				
3	1	Cuppy	10.27	22.2	72.4	0.4	220	1	6 .:	Downwind	Piegos	Biogas Holder Tank Relief
)	2	Sunny	10:37	33.3	73.4	0.4	328	1	Continuous	Downwind	Biogas	Valve
5	1	Cuppy	10.40	22.0	70.4	0.0	_	1	Continuous	NA	Grassy smell	Nearby vegetation
)	2	Sunny	10:40	2:40 33.0	79.4			1				



Location	Panellist	Weather	Time	T (°C)	RH (%)	WS (m/s)	WD (Degree)	Odour Intensity	Duration of Odour	Direction from Source	On–Site Observation	
Loca	Pane	Wea									Odour Characteristics	Potential Odour Source
6	6 1 Sunny	Suppy	10:42	32.9	73.0	1.5	317	0	- NA	NA	NA	NA
0		Sullily	10.42	32.9				0				
	1	Sunny	10:44	33.3	74.2	0.5	326	0	NA	NA	NA	NA
9	9 2							0				
10	1		10:47	7 23.7	67.7	-	-	0	- NA	NA	NA	NA
10	2	Sunny						0				

Remark:

T: Air Temperature;
RH: Relative Humidity;
WS: Wind Speed;
WD: Wind Direction.
Location 9 and 10 were added as new odour patrol points. Location 1 and 4 patrol points were removed and will not be performed.



3.2. Evening time:

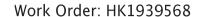
Location	Illist	Panellist Weather	Time	Т	RH	WS (m/s)	WD (Degree)	Odour	Duration of Odour	Direction from Source	On-Site Observation	
Loca	Pane			(°C)	(%)			Intensity			Odour Characteristics	Potential Odour Source
8	1		16:21	31.0	76.2	1.1	312	0	NA	NA	NA	NA.
8	2	Sunny	10.21	31.0	/6.2	1.1		0	NA	INA	NA I	NA
7	1	Cunny	16:23	31.6	73.0	1.9	313	0	NA	NA	NA	NA
	2	Sunny	10.23					1	Intermittent	Downwind	Biogas	Biogas Holder Tank Relief Valve
2	1	C	Sunny 16:25	31.1	.1 73.5	0.8	325	1	Continuous	Upwind	Biogas	Biogas Holder Tank Relief Valve
2	2	Sullily						1				
3	1	Cunny	nny 16:26	31.1	74.6	0.7	324	0		NA	NA	NA
3	2	- Sunny 1			/4.0	0.7		0	NA			
5	1	Cuppy	16.22	31.0	76.4	0.0		1	6		6 "	Nearby Vegetation
)	2	Sunny	16:28	31.0	70.4	0.0	_	1	Continuous	NA	Grassy smell	



Location	Panellist	Weather	Time	Т	RH	WS	WD (Degree)	Odour	Duration of	Direction from Source	On-Site Observation		
Loca	Pane	Wea	Time	(°C)	(%)	(m/s)	M (Deg	Intensity	Odour		Odour Characteristics	Potential Odour Source	
6	1		16:30	31.8	72.8	0.0	-	0	NA	NA	Biogas	Biogas Holder Tank Relief Valve	
0	2	Sunny	10.50	31.0				1	Continuous	INA			
9	1	- Sunny	16:32	31.7	74.2	0.5	326	0	- NA	NA	NA	NA	
9	2							0					
10	1	Sunny 16:	16:35	25.6	57.2	-	-	1	Continuous	NA	Rubbish	Staircase 8	
10	2							1					

Remark:

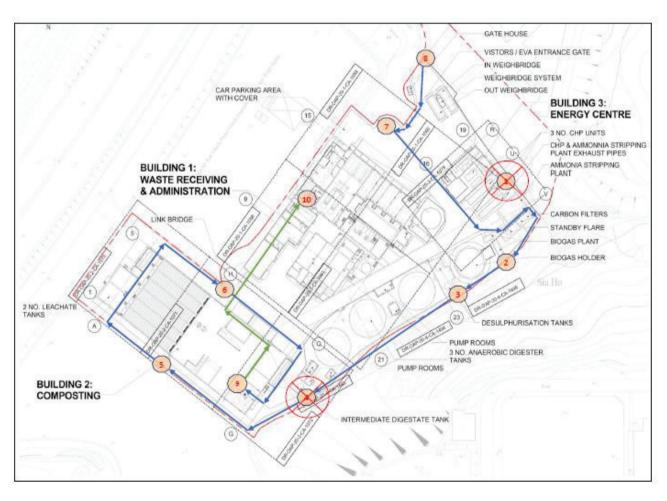
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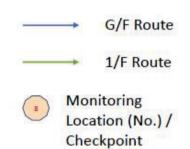




APPENDIX 1

Odour Patrol Route

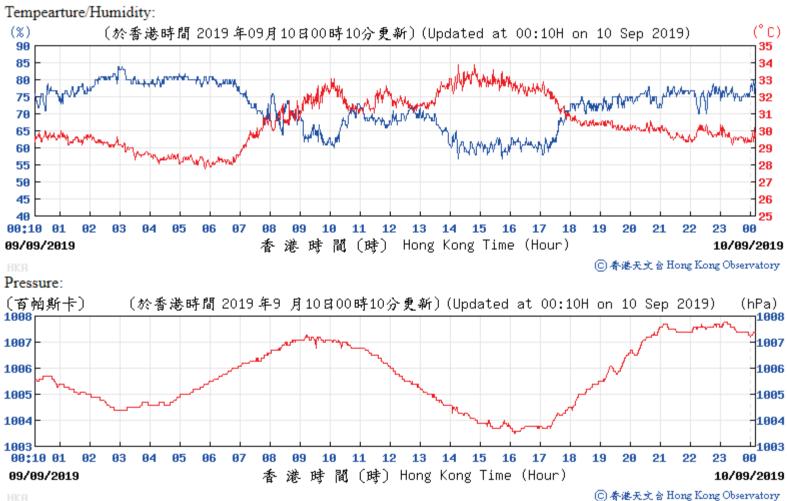


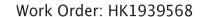




APPENDIX 2

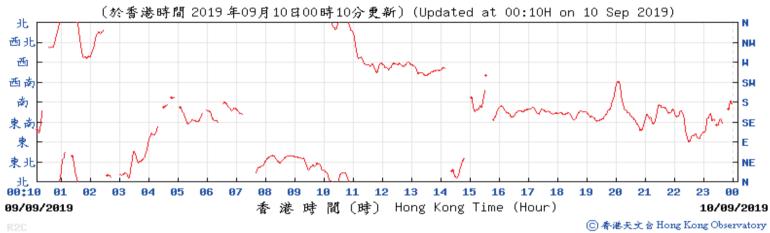
Extract of Meteorological Observations from Hong Kong Airport Observatory Station



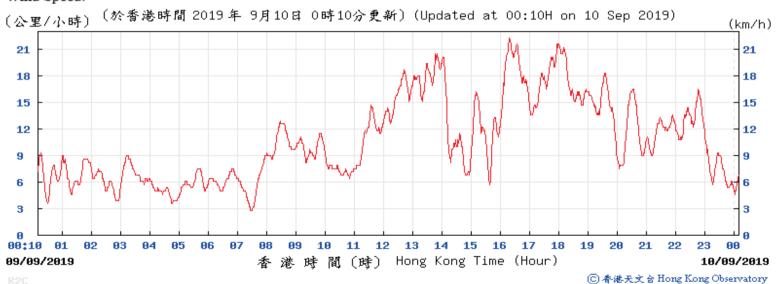




Wind Direction:



Wind Speed:





APPENDIX 3

A3.1. Odour Patrol at Different Locations – Daytime



Location: 2



Location: 7



Location: 3





Location: 5



Location: 9



Location: 6



Location: 10

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A3.2. Odour Patrol at Different Locations – Evening time



Location: 2



Location: 3



Location: 5



Location: 6



Location: 7



Location: 8



Location: 9



Location: 10