



ANNEX G

ODOUR PATROL RESULT

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right solutions.  
right partner.

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### CERTIFICATE OF ANALYSIS

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CLIENT:	OSCAR BIOENERGY JOINT VENTURE	WORK ORDER:	HK2436244
CONTACT:	MR LAWRENCE LEE		
ADDRESS:	NO. 5, SHAM FUNG ROAD, SIU HO WAN, NORTH LANTAU ISLAND, NT, HONG KONG	LABORATORY:	HONG KONG
		SUB-BATCH:	0
		DATE OF PATROL:	09 SEPTEMBER 2024
		DATE OF ISSUE:	19 SEPTEMBER 2024
PROJECT:	ODOUR PATROL FOR THE ORGANIC RESOURCES RECOVERY CENTRE PHASE 1 IN SIU HO WAN	SAMPLE TYPE:	ODOUR PATROL
SITE:	ORGANIC RESOURCES RECOVERY CENTRE PHASE 1 (O-PARK 1)	NO. OF LOCATIONS:	9
PO:	--		

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### COMMENTS

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Odour Patrol was conducted by the staff of ALS Technichem during 10:31 - 10:50 and 14:30 - 14:49.

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

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### NOTES

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

The results related only to the items tested. All pages of this report have been checked and approved for release.

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Fung Lim Chee, Richard  
Managing Director - Hong Kong



## 1. Summary of Work

The odour patrol was conducted during morning and afternoon time. Detailed patrol route was shown in Appendix 1.

## 2. Odour Patrol

Odour patrolling is a process to make use of the calibrated olfactory senses (i.e. 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	Identifiable odour, slight
2	Moderate	Identifiable odour, moderate
3	Strong	Identifiable odour, strong
4	Extreme	Severe odour

The odour patrol locations were shown in Appendix 1.



### 3. Odour Patrol Result

#### 3.1 Morning Time:

Location	Panellist	Weather	Time	T (°C)	RH (%)	WS (m/s)	WD (Degree)	Odour Intensity	Duration of Odour	Direction from Source	On-Site Observation	
											Odour Characteristics	Potential Odour Source
1	1	Sunny	10:31	30.3	74.6	0.3	276	1	Continuous	Side wind	Refuse	Tipping Hall
	2							0	NA	NA	NA	NA
2	1	Sunny	10:33	30.2	77.4	1.8	097	1	Continuous	Side wind	Refuse	Tipping Hall
	2							1				
3	1	Sunny	10:36	30.6	79.0	0.5	199	0	NA	NA	NA	NA
	2							0				
4	1	Sunny	10:37	30.4	80.5	0.5	201	0	NA	NA	NA	NA
	2							0				
5	1	Sunny	10:40	30.5	82.8	0.4	293	1	Intermittent	Side wind	Compost	Composting Hall
	2							1				



Location	Panellist	Weather	Time	T (°C)	RH (%)	WS (m/s)	WD (Degree)	Odour Intensity	Duration of Odour	Direction from Source	On-Site Observation	
											Odour Characteristics	Potential Odour Source
6	1	Sunny	10:41	29.8	84.4	0.5	299	1	Continuous	Side wind	Grassy	Nearby vegetation
	0							NA	NA	NA	NA	
7	1	Sunny	10:44	30.7	82.1	0.4	147	0	NA	NA	NA	NA
	0											
8	1	Sunny	10:46	31.6	80.7	0.0	--	1	Continuous	NA	Ammonia	Composting Hall
	1											
9	1	Sunny	10:50	26.3	78.8	--	--	1	Continuous	NA	Musty	Air Conditioner
	1											

Remark:

- T: Air Temperature
- RH: Relative Humidity
- WS: Wind Speed
- WD: Wind Direction
- NA: Not Applicable



**3.2 Afternoon Time:**

Location	Panellist	Weather	Time	T (°C)	RH (%)	WS (m/s)	WD (Degree)	Odour Intensity	Duration of Odour	Direction from Source	On-Site Observation	
											Odour Characteristics	Potential Odour Source
1	1	Cloudy	14:30	28.6	76.3	0.4	302	1	Continuous	Side wind	Refuse	Tipping Hall
	2							1				
2	1	Cloudy	14:32	28.5	82.1	0.8	126	1	Intermittent	Side wind	Refuse	Tipping Hall
	2							1				
3	1	Cloudy	14:35	29.4	82.0	1.0	164	1	Continuous	Upwind	Biogas	Biogas Tank Valve Holder
	2							1				
4	1	Cloudy	14:36	29.4	82.2	0.0	--	1	Continuous	NA	Biogas	Biogas Tank Valve Holder
	2							1				
5	1	Cloudy	14:39	29.8	83.4	0.5	306	1	Continuous	Side wind	Compost	Composting Hall
	2							1				



Location	Panellist	Weather	Time	T (°C)	RH (%)	WS (m/s)	WD (Degree)	Odour Intensity	Duration of Odour	Direction from Source	On-Site Observation	
											Odour Characteristics	Potential Odour Source
6	1	Cloudy	14:41	29.3	84.7	0.7	301	1	Continuous	Side wind	Compost	Composting Hall
	2							1				
7	1	Cloudy	14:43	29.2	82.6	0.0	--	1	Continuous	NA	Compost	Composting Hall
	2							1				
8	1	Cloudy	14:46	29.8	84.8	1.0	026	1	Continuous	Side wind	Grassy	Nearby vegetation
	20							1				
9	1	Cloudy	14:49	25.8	72.5	--	--	1	Continuous	NA	Artificial Fragrance <sup>[Note 1]</sup>	Air Purifier
	2							1				

Remark:

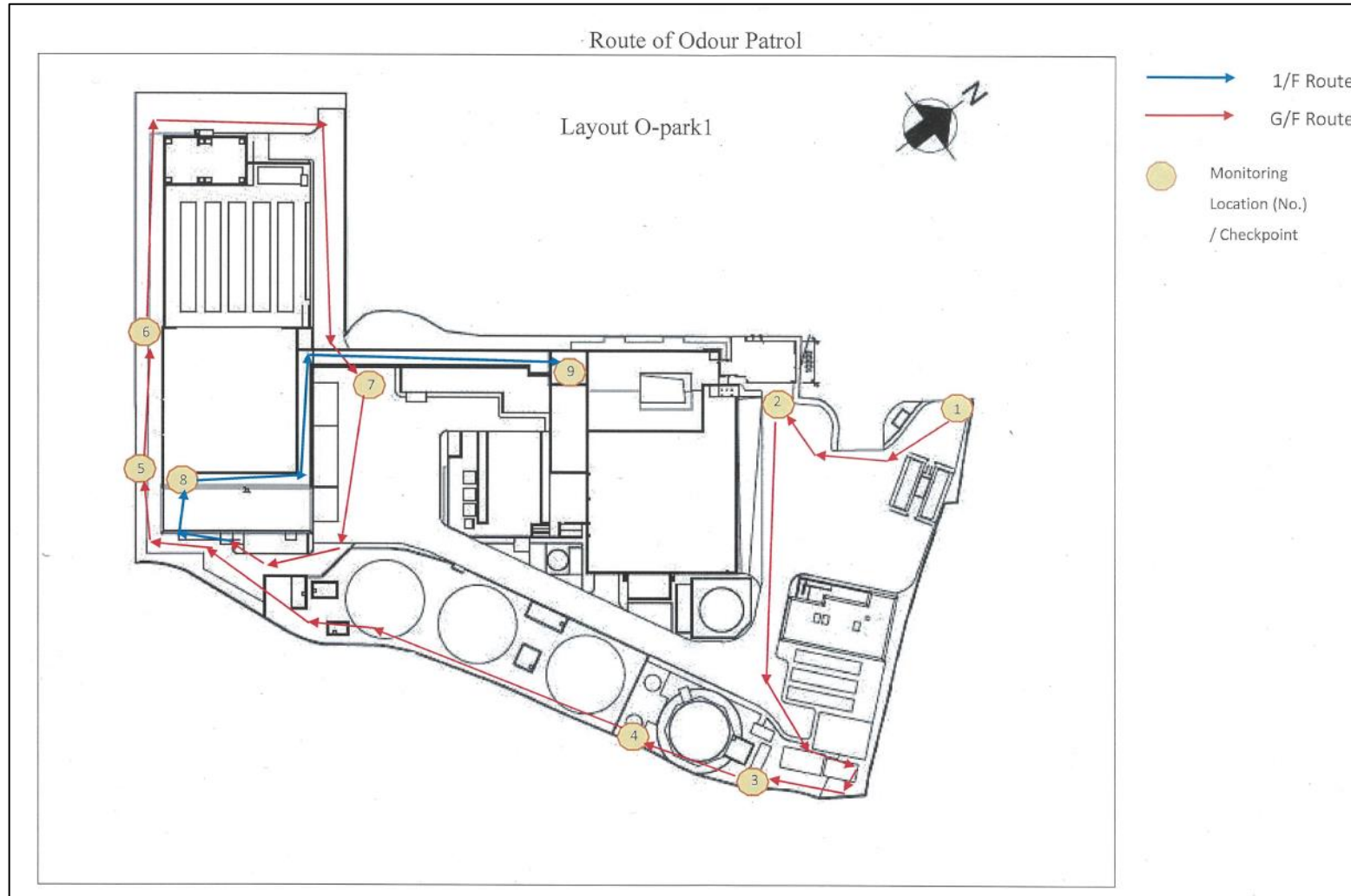
- T: Air Temperature
- RH: Relative Humidity
- WS: Wind Speed
- WD: Wind Direction

NA: Not Applicable

Note 1: Artificial fragrance is not classified as odour nuisance according to the contract requirement of O-Park1 if odour intensity level 2 is perceived.



### APPENDIX 1







## APPENDIX 2

### A2.1 Odour Patrol at Different Locations - Morning time



**Location: 1**



**Location: 2**



**Location: 3**



**Location: 4**



**Location: 5**



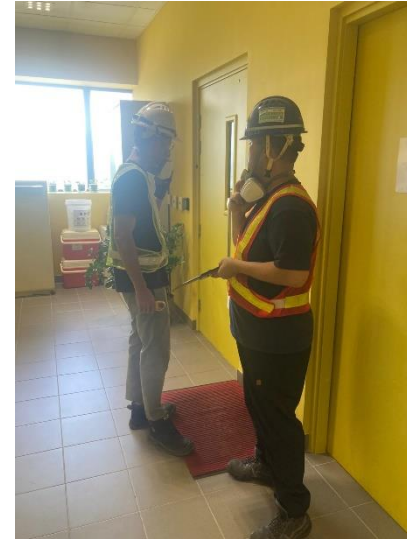
**Location: 6**



**Location: 7**



**Location: 8**



**Location: 9**



### A2.1 Odour Patrol at Different Locations - Afternoon time



**Location: 1**



**Location: 2**



**Location: 3**



**Location: 4**



**Location: 5**



**Location: 6**



**Location: 7**



**Location: 8**

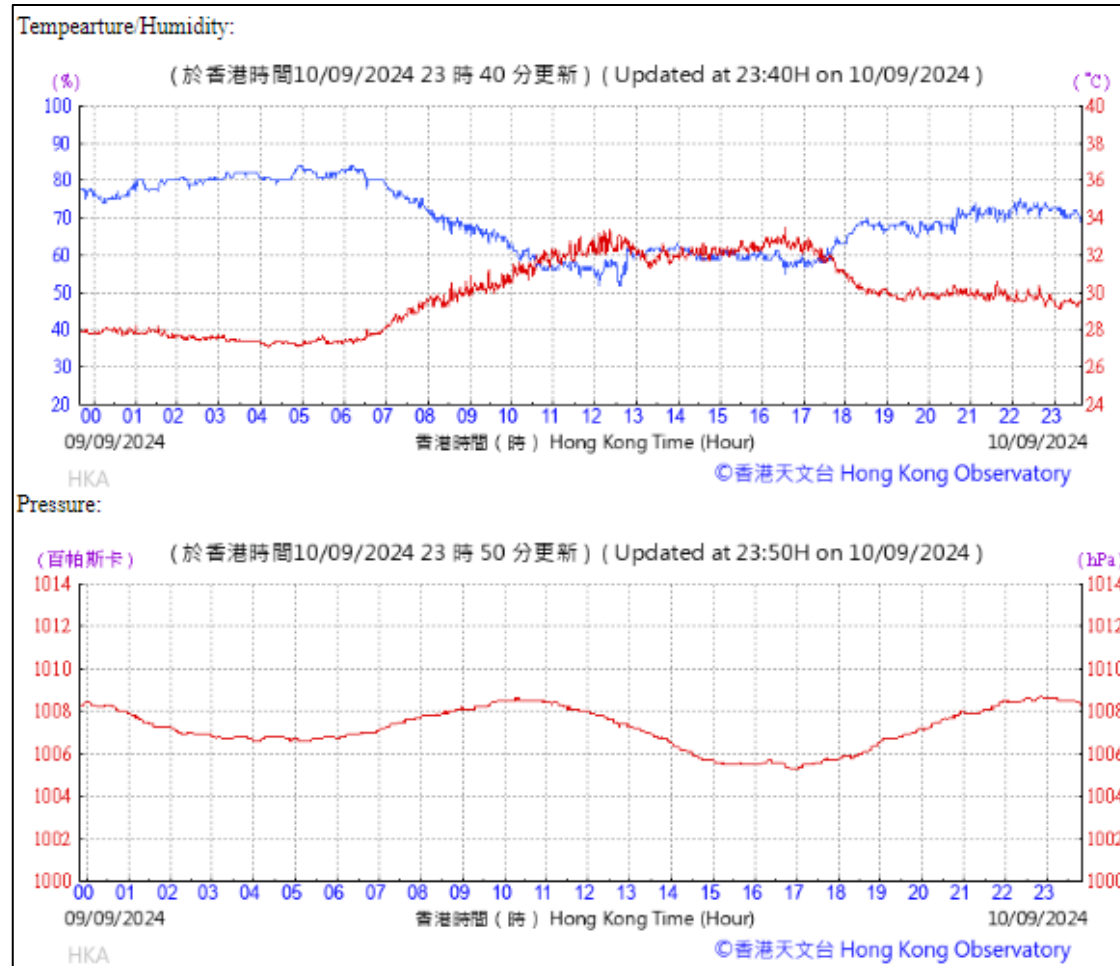


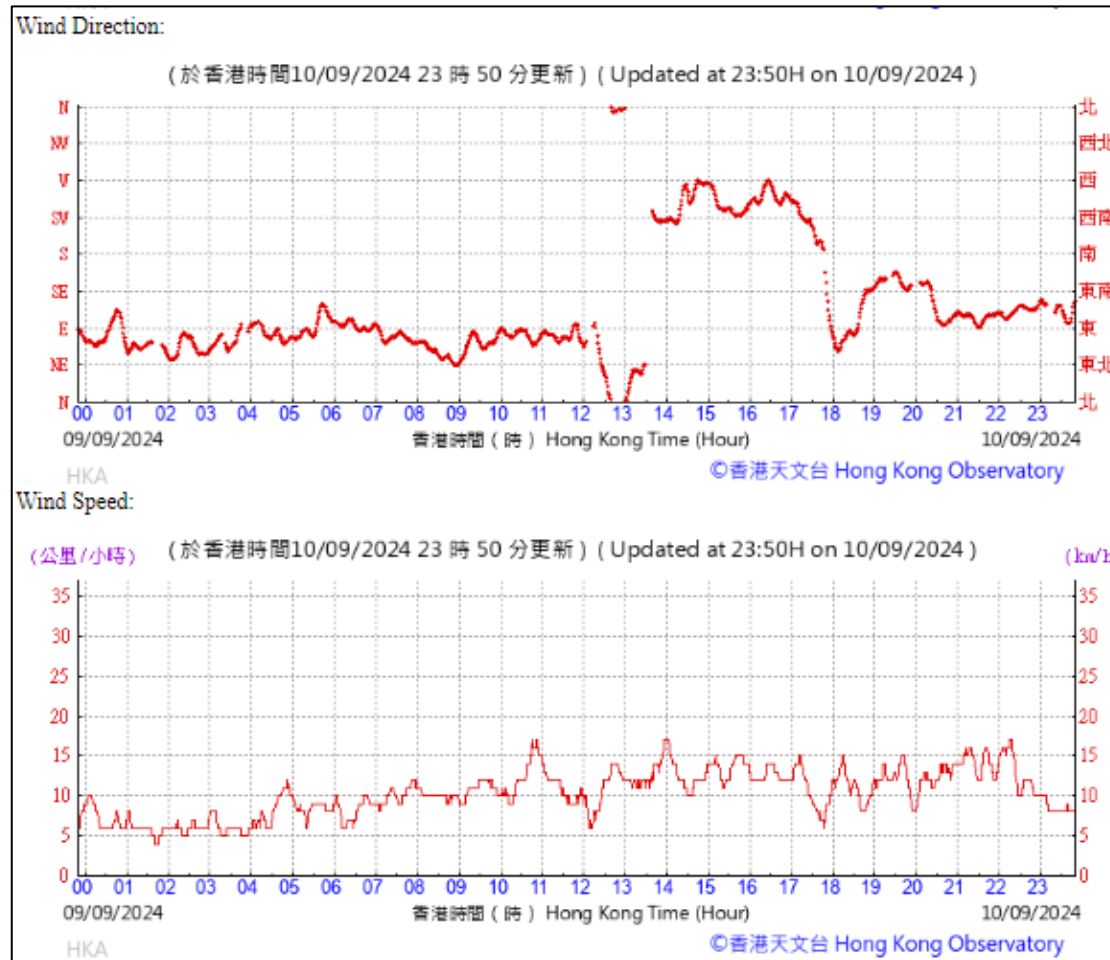
**Location: 9**



### APPENDIX 3

#### Extract of Meteorological Observations from Hong Kong Airport Observatory Station





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