Appendix 3-11B
Findings of Odour Patrol

Odour Patrol Methodology:

Baseline Odour Patrol survey was to be conducted for the Comprehensive Development and Wetland Protection near Yau Mei San Tsuen to understand the existing odour condition in these areas. The odour patrol survey was conducted by qualified odour panelists (certificates are shown in Appendix 1) using their olfactory sensors to sniff odour at different locations during the atmospheric temperature is 30° C or above. The survey locations are shown in Fig A. The qualified panelists have their individual n-butanol thresholds within a required range of 20 to 80 ppb/v. During the odour patrol survey, the weather conditions of wind direction and wind speed were recorded by a handheld anemometer.

The odour intensty was recorded at 5 different levels according to the criteria below:

0	Not Detected	No odour perceived or an odour so weak that it can not be easily characterised or described
1	Slight	Identifiable odour, slight
2	Moderate	Identifiable odour, moderate
3	String	Identifiable odour, strong
4	Extreme	Severe odour

The baseline odour patrol results are provided below:

Panelists: Fung Lim Chee, Ng Sin Kou, Lai Wai Yan

Weather: Sunny

Date: 27 May 2014

Site Location: Yau Mei San Tsuen

Sample	Location	Time	AT (° C)	RH (%)	WS (m/s)	WD	Direction from Source (1.Downwind, 2. Upwind, 3. Sidewind)	OI(0,1,2,3,4)	Duration of Odour (Intermittent / Persistent)	On-Site Observation	
										Odour Nature	Possible Source
NTM1	22.28.585 N 114.03.295 E	13:15	33.6	65.4	1.5	102	1	1	Persistent	River Water	NTM Channel

Panelists: Fung Lim Chee, Ng Sin Kou, Lai Wai Yan

Weather: Sunny

Date: 27 May 2014

Site Location: Yau Mei San Tsuen

Sample	Location	Time	AT (° C)	RH (%)	WS (m/s)	WD	Direction from Source (1.Downwind, 2. Upwind, 3. Sidewind)	OI(0,1,2,3,4)	Duration of Odour (Intermittent / Persistent)	On-Site Observation	
										Odour Nature	Possible Source
PS1	22.28.892 N 114.03.262 E	13:32	33.9	65.2	0.0	NIL	NIL	0	NIL	NIL	NIL

Panelists: Fung Lim Chee, Ng Sin Kou, Lai Wai Yan

Weather: Sunny

Date: 27 May 2014

Site Location: Yau Mei San Tsuen

Sample	Location	Time	AT (° C)	RH (%)	WS (m/s)	WD	Direction from Source (1.Downwind, 2. Upwind, 3. Sidewind)	OI(0,1,2,3,4)	Duration of Odour (Intermittent / Persistent)	On-Site Observation	
										Odour Nature	Possible Source
NTM2	22.28.838 N 114.03.207 E	13:27	34.4	62.6	3.5	055	1	1	Intermittent	River Water	NTM Channel

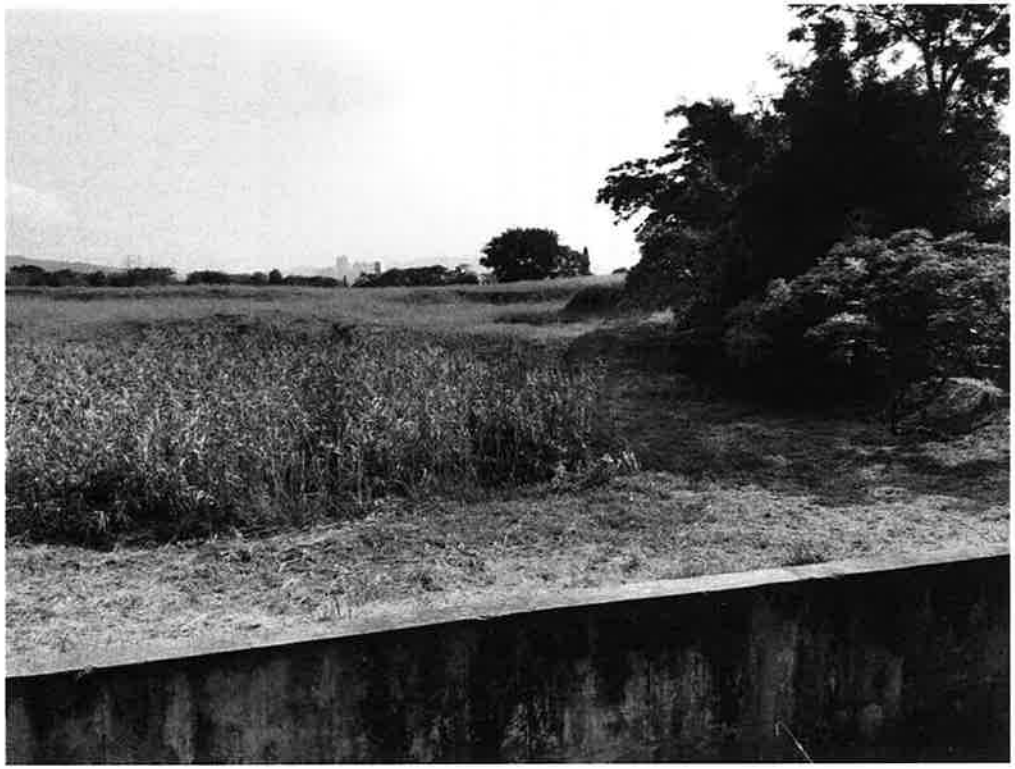
Panelists: Fung Lim Chee, Ng Sin Kou, Lai Wai Yan

Weather: Sunny

Date: 27 May 2014

Site Location: Yau Mei San Tsuen

Sample	Location	Time	AT (° C)	RH (%)	WS (m/s)	WD	Direction from Source (1.Downwind, 2. Upwind, 3. Sidewind)	OI(0,1,2,3,4)	Duration of Odour (Intermittent / Persistent)	On-Site Observation	
										Odour Nature	Possible Source
FVP3	22.28.913 N 114.02.998 E	15:29	34.8	60.3	0.7	170	1	0	NIL	NIL	NIL



Panelists: Fung Lim Chee, Ng Sin Kou, Lai Wai Yan

Weather: Sunny

Date: 27 May 2014

Site Location: Yau Mei San Tsuen

Sample	Location	Time	AT (° C)	RH (%)	WS (m/s)	WD	Direction from Source (1.Downwind, 2. Upwind, 3. Sidewind)	OI(0,1,2,3,4)	Duration of Odour (Intermittent / Persistent)	On-Site Observation	
										Odour Nature	Possible Source
FVP1	22.28.780 N 114.02.880 E	15:14	36.2	47.5	0.4	263	3	1	Persistent	Cooking Smell, Paint	Residence

Panelists: Fung Lim Chee, Ng Sin Kou, Lai Wai Yan

Weather: Sunny

Date: 27 May 2014

Site Location: Yau Mei San Tsuen

Sample	Location	Time	AT (° C)	RH (%)	WS (m/s)	WD	Direction from Source (1.Downwind, 2. Upwind, 3. Sidewind)	OI(0,1,2,3,4)	Duration of Odour (Intermittent / Persistent)	On-Site Observation	
										Odour Nature	Possible Source
NTM3	22.28.646 N 114.02.933 E	13:48	36.0	60.6	1.4	108	3	1	Intermittent	River Water	NTM Channel

Appendix 2

Calibration Certificate of Qualified Odour Panelists

Certificate for a Qualified Odour Panellist for Field Odour Patrol

This is to certify that

Fung Lim Chee

Participated in a set of n-Butanol Screening Tests in ALS Technichem (HK) Pty Ltd between

10 Dec 2013 to 27 May 2014

and

fulfil the Requirement of the

Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 - 80 ppb/v with Standard Deviation less than 2.3

of the European Standard Method of Air Quality - Determination of Odour Concentration by Dynamic Olfactometry (EN13725) and

Trained with Reference to ASTM Standard Practices for Referencing Suprathreshold Odor Intensity (ASTM E544) for Hong Kong Four Point Scale between

10 Dec 2013 to 27 May 2014

and

Qualified to Participate the Field Odour Patrol to Determine Odour Intensity with a refreshment check in ALS Technichem (HK) Pty Ltd by Every Two Weeks until
25 Aug 2014

27 May 2014
Issue Date

Fung Lim Chee, Richard

ALS Life Sciences | Environmental

Certificate for a Qualified Odour Panellist for Field Odour Patrol

This is to certify that

Ng Sin Kou

Participated in a set of n-Butanol Screening Tests in ALS Technichem (HK) Pty Ltd between

05 Sep 2013 to 27 May 2014

and

fulfil the Requirement of the

Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 - 80 ppb/v with Standard Deviation less than 2.3

of the European Standard Method of Air Quality - Determination of Odour Concentration by Dynamic Olfactometry (EN13725) and

Trained with Reference to ASTM Standard Practices for Referencing Suprathreshold Odor Intensity (ASTM E544) for Hong Kong Four Point Scale between

05 Sep 2013 to 27 May 2014

and

Qualified to Participate the Field Odour Patrol to Determine Odour Intensity with a refreshment check in ALS Technichem (HK) Pty Ltd by Every Two Weeks until
25 Aug 2014

27 May 2014
Issue Date

Fung Lim Chee, Richard

ALS Life Sciences | Environmental

Certificate for a Qualified Odour Panellist for Field Odour Patrol

This is to certify that

Lai Wai Yan

Participated in a set of n-Butanol Screening Tests in ALS Technichem (HK) Pty Ltd between

25 Nov 2013 to 05-Feb-14

and

fulfil the Requirement of the

Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 - 80 ppb/v with Standard Deviation less than 2.3

of the European Standard Method of Air Quality - Determination of Odour Concentration by Dynamic Olfactometry (EN13725) and

Trained with Reference to ASTM Standard Practices for Referencing Suprathreshold Odor Intensity (ASTM E544) for Hong Kong Four Point Scale between

25 Nov 2013 to 26 May 2014

and

Qualified to Participate the Field Odour Patrol to Determine Odour Intensity with a refreshment check in ALS Technichem (HK) Pty Ltd by Every Two Weeks until
24 Aug 2014

26 May 2014
Issue Date

Fung Lim Chee, Richard

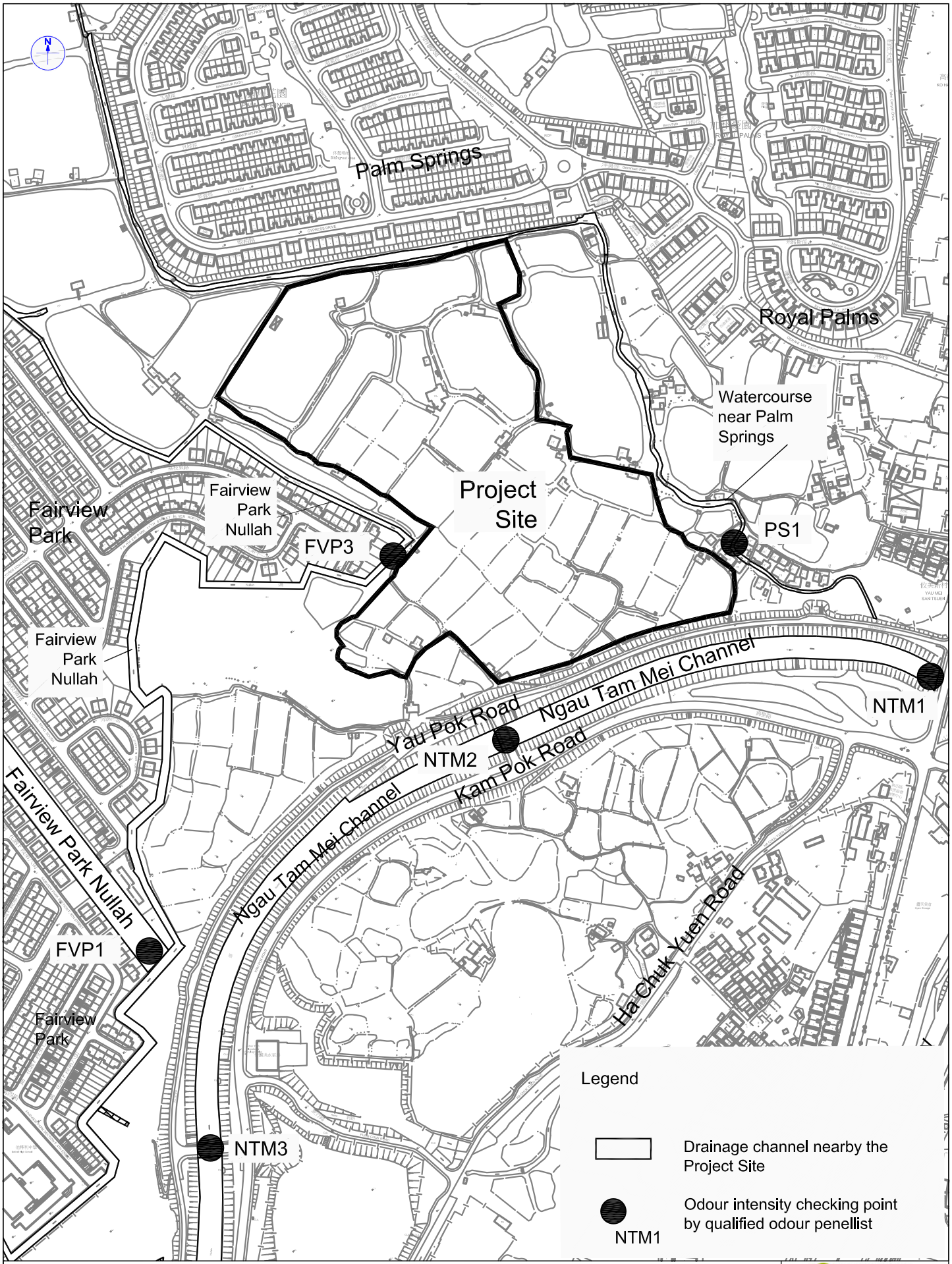


Figure: A	ENVIRON
Title: Baseline Odour Patrol Locations	Drawn by: HN
	Checked by: TC
Project: Comprehensive Development and Wetland Protection near Yau Mei San Tsuen	Rev.: 1.0
	Date: May 2014