

Odour Emission Inventory

Source	Source ID	Type	Point Source					Area Source						Reference	
			X	Y	Near/Farfield	Base Elevation	Release Height	Exit Temperature	Exit velocity	Internal diameter	X-dim	Y-dim	Angle		Emission Rate
			(m)	(m)		(mpd)	(m)	(K)	(m/s)	(m)	(m)	(m)	(o)		(OU/s) or (OU/m2/s)
Tai Po Sewage Treatment Plant	PRI201	AREA	837486	835313	Near	6	0.0	---	---	---	18.2	18.2	0	1.05E-02	AEIAR-081/2004
	PRI202	AREA	837510	835313	Near	6	0.0	---	---	---	18.2	18.2	0	1.05E-02	
	PRI203	AREA	837486	835287	Near	6	0.0	---	---	---	18.2	18.2	0	1.05E-02	
	PRI205	AREA	837486	835260	Near	6	0.0	---	---	---	18.2	18.2	0	1.05E-02	
	PRI206	AREA	837510	835260	Near	6	0.0	---	---	---	18.2	18.2	0	1.05E-02	
	PRI207	AREA	837486	835234	Near	6	0.0	---	---	---	18.2	18.2	0	1.05E-02	
	AER201	AREA	837546	835276	Near	6	0.2	---	---	---	36	60	0	3.37E-02	
	AER202	AREA	837546	835232	Near	6	0.2	---	---	---	36	40	0	3.37E-02	
	FST201	AREA	837602	835311	Near	6	0.0	---	---	---	38.6	19.3	0	1.24E-03	
	FST202	AREA	837602	835285	Near	6	0.0	---	---	---	38.6	19.3	0	1.24E-03	
	FST203	AREA	837602	835242	Near	6	0.0	---	---	---	38.6	19.3	0	1.24E-03	
	FST204	AREA	837602	835216	Near	6	0.0	---	---	---	38.6	19.3	0	1.24E-03	
	FST205	AREA	837648	835299	Near	6	0.0	---	---	---	19.3	19.3	0	1.24E-03	
	FST206	AREA	837647	835229	Near	6	0.0	---	---	---	19.3	19.3	0	1.24E-03	
	SBR2	AREA	837482	835207	Near	6	0.2	---	---	---	20	15	0	1.06E-04	
	IN401	AREA	837691	835219	Near	6	0.0	---	---	---	10	8.4	0	4.84E-01	
	PRI401	AREA	837780	835290	Near	6	2.0	---	---	---	45.0	60.0	0	1.92E-01	
	AER401	AREA	837830	835290	Near	6	1.0	---	---	---	70.0	90.0	0	8.53E-02	
	AER402	AREA	837772	835361	Near	6	1.0	---	---	---	50.9	21.2	0	8.53E-02	
	FST401	AREA	837773	835239	Near	6	1.0	---	---	---	53.2	26.6	0	4.07E-02	
	FST402	AREA	837773	835205	Near	6	1.0	---	---	---	53.2	26.6	0	4.07E-02	
	FST403	AREA	837773	835171	Near	6	1.0	---	---	---	53.2	26.6	0	4.07E-02	
	FST404	AREA	837851	835239	Near	6	1.0	---	---	---	53.2	26.6	0	4.07E-02	
	FST405	AREA	837851	835205	Near	6	1.0	---	---	---	53.2	26.6	0	4.07E-02	
	FST406	AREA	837851	835171	Near	6	1.0	---	---	---	26.6	26.6	0	4.07E-02	
	IN4	POINT	837686	835234	Far	6	3.0	Ambient	2.31	0.30	---	---	---	4.07E-01	
	SRC401	POINT	837690	835278	Far	6	8.7	Ambient	2.55	0.5	---	---	---	3.22E+00	
	SRC402	POINT	837694	835278	Far	6	8.7	Ambient	2.55	0.5	---	---	---	3.22E+00	
SRC403	POINT	837697	835278	Far	6	8.7	Ambient	2.55	0.5	---	---	---	3.22E+00		
IN2	POINT	837531	835365	Far	6	3.0	Ambient	2.20	0.30	---	---	---	2.21E-01		
DI2	POINT	837495	835181	Far	6	7.0	Ambient	0.50	0.30	---	---	---	8.60E-02		
TH2	POINT	837579	835139	Far	6	3.0	Ambient	9.20	0.30	---	---	---	3.21E-01		
SOL2	POINT	837512	835132	Far	6	6.0	Ambient	6.97	0.74	---	---	---	5.30E-01		
SODI4	POINT	837728	835367	Far	6	6.0	Ambient	6.50	0.63	---	---	---	4.51E-01		
Food Waste Pre-treatment Facilities	TPFW	POINT	837818	835441	Far	8.7	6.0	298	15.00	0.61	---	---	0	8.77E+01	Environmental Review Study of Food Waste Pre-treatment Facilities

Note:

[1] All area sources, except IN401, have odour emission rate depending on stability class and wind direction. Details refer to "Emission Rates by Stability Class".

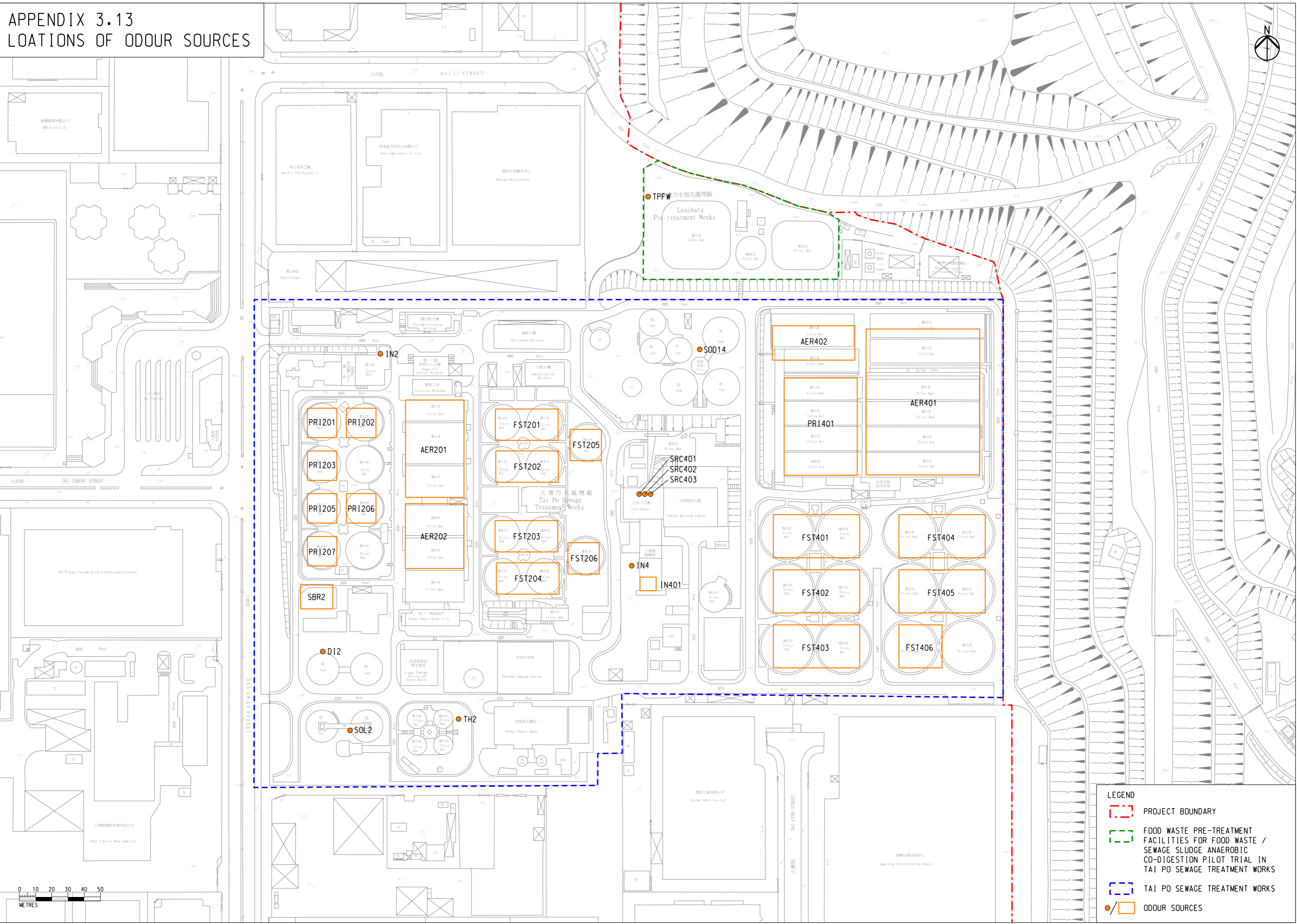
[2] Covered odour sources which have "0" odour emission rates are not shown in the above table.

Odour Emission by Stability Class

Stability Class	Odour Emission Rate (OU/s)													
	Roughness=100 i.e. Wind Direction < 90° and > 130°							Roughness=50 (90°≤Wind Direction≤130°)						
	PRI201	AER201	FST201	SBR2	PRI401	AER401	FST401	PRI201	AER201	FST201	SBR2	PRI401	AER401	FST401
1/A	1.01E-02	3.37E-02	1.16E-03	2.54E-05	8.08E-02	3.75E-02	1.86E-03	9.97E-03	3.36E-02	1.14E-03	1.93E-06	9.59E-02	4.65E-02	1.03E-02
2/B	1.02E-02	3.37E-02	1.19E-03	5.90E-05	9.86E-02	4.10E-02	2.92E-03	9.98E-03	3.36E-02	1.14E-03	4.43E-06	1.35E-01	6.23E-02	2.28E-02
3/C	1.03E-02	3.37E-02	1.21E-03	7.94E-05	1.10E-01	4.31E-02	3.58E-03	9.99E-03	3.36E-02	1.14E-03	5.93E-06	1.61E-01	7.26E-02	3.07E-02
4/D	1.05E-02	3.37E-02	1.24E-03	1.06E-04	1.24E-01	4.59E-02	4.42E-03	1.00E-02	3.36E-02	1.14E-03	7.89E-06	1.92E-01	8.53E-02	4.07E-02
5/E	1.02E-02	3.37E-02	1.18E-03	4.89E-05	9.41E-02	4.00E-02	2.61E-03	9.98E-03	3.36E-02	1.14E-03	3.61E-06	1.25E-01	5.81E-02	1.93E-02
6/F	1.00E-02	3.36E-02	1.15E-03	1.29E-05	7.50E-02	3.62E-02	1.48E-03	9.97E-03	3.36E-02	1.14E-03	9.45E-07	8.38E-02	4.12E-02	5.98E-03

APPENDIX 3.13 LOCATIONS OF ODOUR SOURCES

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 Filename : \\HKGNTS22\Env\project\256383\13 Drawing Deliverables\report\002 EIA\Appendix 3.13 - Locations of Odour Sources.dgn



LEGEND

- PROJECT BOUNDARY
- FOOD WASTE PRE-TREATMENT FACILITIES FOR FOOD WASTE / SEWAGE SLUDGE ANAEROBIC CO-DIGESTION PILOT TRIAL IN TAI PO SEWAGE TREATMENT WORKS
- TAI PO SEWAGE TREATMENT WORKS
- / ● ODOUR SOURCES

