Emission factor for Industrial Chimneys

Adopt average emission rate among all emission points from the nearby SP Licences

Nox	0.45980	(g/s)	
RSP	0.04153	(g/s)	
FSP	0.03269	(g/s)	
TSP	0.06200	(g/s)	(Only For Construction Dust Cumulative Assessment)

Summary of Emission Rate

Company	Source ID	Type	X	Y	Z	Release Height[2]	Exit Temperature [3]	Exit velocity [3]	Internal diameter [2]	Emissoin Rate (g/s) [4]				Operation Hour
			(m)	(m)	mPD	(m)	(K)	(m/s)	(m)	NO_X	TSP	RSP	FSP	
Techno Enterpreise Ltd.	TECH01	POINT	836644	835260	5.6	10.0	373	6.00	0.50	0.4598	0.0620	0.0415	0.0327	Assume 0800 - 1800 (10 hours a day)
Lee Kum Kee Company Limited	LECH01	POINT	836611	835477	5.1	30.0	373	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
Hitachi Chemical Electronic Materials (Hong Kong) Limited	HICH01	POINT	836842	835379	5.7	20.0	373	6.00	0.80	0.4598	0.0620	0.0415	0.0327	
	HICH02	POINT	836842	835382	5.7	20.0	373	6.00	0.20	0.4598	0.0620	0.0415	0.0327	
GMP Centre	GMCH01	POINT	837020	835656	5.0	20.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
Bridgestone Aircraftire Co. (Asia) Ltd.	BRCH01	POINT	836953	835385	5.8	15.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
	BRCH02	POINT	836952	835362	5.8	15.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
	BRCH03	POINT	837023	835374	5.8	15.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
Nissin Foods Co. Ltd.	NICH01	POINT	836969	835324	5.7	20.0	373	6.00	0.80	0.4598	0.0620	0.0415	0.0327	
	NICH02	POINT	836998	835220	5.7	20.0	373	6.00	0.80	0.4598	0.0620	0.0415	0.0327	
	NICH03	POINT	836969	835335	5.7	15.0	373	6.00	0.80	0.4598	0.0620	0.0415	0.0327	
Hong Kong Yamazaki Baking Co. Ltd.	YACH01	POINT	836956	835241	5.7	15.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
Convenience Foods International Ltd.	COCH01	POINT	837157	835730	6.0	25.0	373	6.00	0.80	0.4598	0.0620	0.0415	0.0327	
	COCH02	POINT	837182	835712	6.0	20.0	373	6.00	0.10	0.4598	0.0620	0.0415	0.0327	
Meadville Technologies Group Ltd.	MECH01	POINT	837257	835650	6.0	20.0	373	6.00	0.10	0.4598	0.0620	0.0415	0.0327	
	MECH02	POINT	837258	835645	6.0	20.0	373	6.00	0.10	0.4598	0.0620	0.0415	0.0327	
	MECH03	POINT	837246	835649	6.0	20.0	373	6.00	0.10	0.4598	0.0620	0.0415	0.0327	
	MECH04	POINT	837239	835649	6.0	20.0	373	6.00	0.10	0.4598	0.0620	0.0415	0.0327	
	MECH05	POINT	837227	835649	6.0	20.0	373	6.00	0.10	0.4598	0.0620	0.0415	0.0327	
Amoy Food Limited	AMCH01	POINT	837181	835598	6.0	30.0	373	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
Café de Coral Central Processing Plant 2	CACH01	POINT	837137	835493	6.0	25.0	373	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
Winner Food Products Ltd.	WICH01	POINT	837202	835416	5.9	35.0	373	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
	WICH02	POINT	837398	834995	5.8	30.0	373	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
	WICH03	POINT	837419	834987	5.8	25.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
	WICH04	POINT	837419	834985	5.8	25.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
	WICH05	POINT	837399	834983	5.8	25.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
	WICH06	POINT	837398	834985	5.8	25.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
	WICH07	POINT	837399	835013	5.8	25.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
Jean-Marie Pharmacal Company Limited	JMCH01	POINT	837355	835563	6.0	25.0	373	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
Hong Kong Yakult Co. Ltd.	KUCH01	POINT	837532	835472	5.7	20.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
Watson's Water Centre	WACH01	POINT	837615	835475	5.7	25.0	373	6.00	0.80	0.4598	0.0620	0.0415	0.0327	
Tung Fong Hung Property Investment Limited	TFCH01	POINT	837531	835012	5.4	25.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
Apex Print Limited	APCH01	POINT	837519	834907	5.3	15.0	373	6.00	0.20	0.4598	0.0620	0.0415	0.0327	
	APCH02	POINT	837519	834906	5.3	15.0	373	6.00	0.20	0.4598	0.0620	0.0415	0.0327	
	APCH03	POINT	837503	834887	5.4	15.0	373	6.00	0.20	0.4598	0.0620	0.0415	0.0327	
	APCH04	POINT	837519	834865	5.4	15.0	373	6.00	0.20	0.4598	0.0620	0.0415	0.0327	
	APCH05	POINT	837519	834841	5.5	15.0	373	6.00	0.20	0.4598	0.0620	0.0415	0.0327	
	APCH06	POINT	837519	834840	5.5	15.0	373	6.00	0.20	0.4598	0.0620	0.0415	0.0327	
Lei Garden	LICH01	POINT	837332	835652	6.0	20.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
Mass Lam Int'l Ltd.	MACH01	POINT	836833	835484	5.9	10.0	373	6.00	0.20	0.4598	0.0620	0.0415	0.0327	
APT Satellite Co. Ltd.	SACH01	POINT	837402	834909	5.4	10.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
	SACH02	POINT	837406	834922	5.4	10.0	373	6.00	0.30	0.4598	0.0620	0.0415	0.0327	
FC Packaging (HK) Limited[1]	FCCH01	POINT	837379	835648	6.0	33.6	448	6.00	0.70	0.4598	0.0620	0.0415	0.0327	Operates 24 hours a day as advised by the Operator
	FCCH02	POINT	837385	835648	6.0	33.6	448	6.00	0.70	0.4598	0.0620	0.0415	0.0327	
	FCCH03	POINT	837392	835648	6.0	35.5	723	6.00	0.60	0.4598	0.0620	0.0415	0.0327	
	FCCH04	POINT	837375	835690	6.0	35.5	723	6.00	0.60	0.4598	0.0620	0.0415	0.0327	
	FCCH05	POINT	837381	835684	6.0	35.4	723	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
	FCCH06	POINT	837390	835684	6.0	35.5	723	6.00	0.60	0.4598	0.0620	0.0415	0.0327	
	FCCH07	POINT	837398	835648	6.0	35.5	448	6.00	0.60	0.4598	0.0620	0.0415	0.0327	
	FCCH08	POINT	837394	835694	6.0	35.5	448	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
	FCCH09	POINT	837405	835648	6.0	35.4	448	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
	FCCH10	POINT	837412	835648	6.0	35.4	448	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
Transtech Photonics	TRCH01	POINT	837584	835689	6.0	25.0	373	6.00	0.80	0.4598	0.0620	0.0415	0.0327	Assume 0800 - 1800 (10 hours a day)
Taclon Industries Limited	TACH01	POINT	837757	835136	5.5	12.0	373	6.00	0.50	0.4598	0.0620	0.0415	0.0327	
Unilever Hong Kong Limited[5]	UICH01	POINT	837251	835830	6.0	-	-	-	-	-	-	-	-	-

Note:

[1] The operator has provided the heights and diameters of their active chimneys. They advised that the chimneys are connected to the drying oven which are fueled by LPG. Since the emission rates of combusting LPG would be much lower (NOx = 0.0136 g/s ; RSP = 0.0012 g/s, based on the fuel consumption provided by the operator and USEPA AP-42 Section 1.5) than the averaged emission rates of all Specified Processes (SP) in the vicinity, the averaged SP emission rates are adopted as conservative assessment.

[2] Release heights and chimney diameters are estimated during chimney surveys conducted in November 2017, December 2017 and January 2018

[3] For those chimneys where the operators did not provide any information, their exit velocities and temperatures are assumed to be 6m/s and 373K. 6m/s exit velocity is the minimum requirement of the license whereas 373K is the minimum of the range typical of those stacks servicing industrial boilers.

[4] The emission rates of NOx, TSP, RSP and FSP are estimated by taking the average values of all emission points specified in the SP licenses hold by nearby premisies, namely Meyer Aluminium Limited, Universal (Hot-Dip) Galvanising Limited, Zama Industries Ltd., K. Wah Materials Limited, K. Wah Concrete Co. Ltd. and The Hong Kong and China Gas Co. Ltd. Those non-control points (e.g.paved road, loading / unloading activities) which are not specified in the SP license are not included for obtaining the averaged values.

[5] As confirmed with the operator, their chimney is no longer in use.

Emissions from Specified Process

Company	Source ID	Type	X	Y	Base Elevation	Release Height	Exit Temperature	Exit velocity	Discharge Diameter	Emission Rate (g/s)				Remark / Reference	Operation Hour
										NOx	TSP	RSP	FSP		
			(m)	(m)	(mpd)	(m)	(K)	(m/s)	(m)						
Meyer Aluminium Limited	MEYEP1	POINT	837626	835696	6.3	44.1	633	15.1	1.19	1.5278	0.1806	0.1083	0.0903	Specified Process Licence	24 hours a day
	MEYEP2	POINT	837628	835694	6.3	44.1	573	15.1	0.68	0.4944	0.1306	0.0783	0.0653		
	MEYEP3	POINT	837626	835693	6.3	44.1	573	15.2	0.96	0.9889	0.2611	0.1567	0.1306		
	MEYEP4	POINT	837639	835627	6.3	39.4	573	15.1	0.37	0.1556	0.0389	0.0233	0.0194		
	MEYEP5	POINT	837613	835694	6.3	15.5	313	15.1	0.88	-	0.4000	0.2400	0.2000		
	MEYEP7	POINT	837624	835679	6.3	21.9	333	15.7	0.30	-	0.0456	0.0273	0.0228		
	MEYEP8	POINT	837626	835679	6.3	21.9	333	14.7	0.58	-	0.1639	0.0983	0.0819		
	MEYEP9A	POINT	837626	835677	6.3	44.1	589	20.4	0.9	0.1667	0.0444	0.0267	0.0222		
	MEYEP9B	POINT	837625	835676	6.3	23.9	873	15.8	0.32	0.0583	-	-	-		
Universal (Hot-Dip) Galvanising Limited	UNEP1	POINT	836852	835065	5.9	13.4	326	15.5	0.85	-	0.1111	0.1022	0.0911	Specified Process Licence	24 hours a day
	UNEP2	POINT	836852	835063	5.9	13.4	313	16.0	1.69	-	0.4722	0.4344	0.3872		
Zama Industries Ltd.	ZAEP1	POINT	837763	835018	5.4	13.53	343	15.1	0.63	0.0633	0.0472	0.0283	0.0236	Specified Process Licence	0800 - 1800 (10 hours a day)
K. Wah Materials Limited	CPEP1	POINT	839035	835530	5.1	29	Ambient	24.2	0.16	-	0.0222	0.0113	0.0033	Specified Process Licence	Assume 0700 - 2300 (16 hours a day)
	CPEP2	POINT	839043	835533	5.1	11	Ambient	24.2	0.16	-	0.0222	0.0113	0.0033		
	CPEP3	POINT	839030	835540	5.1	31	Ambient	24.2	0.16	-	0.0222	0.0113	0.0033		
	CPEP4	POINT	839037	835545	5.1	15	Ambient	24.2	0.16	-	0.0222	0.0113	0.0033		
	CPEP5	POINT	839062	835542	5.1	32	Ambient	24.2	0.16	-	0.0222	0.0113	0.0033		
	CPEP6	POINT	839057	835555	5.1	32	Ambient	24.2	0.16	-	0.0222	0.0113	0.0033		
	CPEP7	POINT	839052	835537	5.1	10	Ambient	24.2	0.16	-	0.0222	0.0113	0.0033		
	CPEP8	POINT	839026	835553	5.1	32	Ambient	24.2	0.16	-	0.0243	0.0124	0.0036		
	CPEP9	POINT	839017	835534	5.1	32	Ambient	24.2	0.16	-	0.0243	0.0124	0.0036		
	CPEP10	POINT	839013	835548	5.1	32	Ambient	24.2	0.16	-	0.0243	0.0124	0.0036		
K. Wah Concrete Co. Ltd.	SMTEP1	POINT	838998	835552	5.6	34	Ambient	12.0	0.23	-	0.0049	0.0025	0.0004	Specified Process Licence	Assume 0700 - 1900 (12 hours a day)* Except SMTEP2, SMTEP6 and SMTEP9 which operate 24 hours a day as stated in the latest SP Licence.
	SMTEP2	POINT	838993	835555	5.6	20	Ambient	17.5	0.23	-	0.0071	0.0036	0.0005		
	SMTEP3	POINT	839002	835553	5.6	34	Ambient	12.0	0.23	-	0.0049	0.0025	0.0004		
	SMTEP4	POINT	839000	835549	5.6	34	Ambient	12.0	0.23	-	0.0049	0.0025	0.0004		
	SMTEP5	POINT	839001	835545	5.6	34	Ambient	12.0	0.23	-	0.0049	0.0025	0.0004		
	SMTEP6	POINT	838996	835548	5.6	20	Ambient	17.5	0.23	-	0.0071	0.0036	0.0005		
	SMTEP7	POINT	839004	835538	5.6	34	Ambient	12.0	0.23	-	0.0049	0.0025	0.0004		
	SMTEP8	POINT	839003	835542	5.6	34	Ambient	12.0	0.23	-	0.0049	0.0025	0.0004		
	SMTEP9	POINT	839009	835536	5.6	20	Ambient	17.5	0.23	-	0.0071	0.0036	0.0005		
	SMTEP12	POINT	839006	835543	5.6	34	Ambient	12.0	0.23	-	0.0049	0.0025	0.0004		
	SMTEP19	POINT	838997	835555	5.6	28.4	Ambient	12.0	0.23		0.0049	0.0025	0.0004		
	SMTEP20	POINT	839003	835550	5.6	28.4	Ambient	12.0	0.23		0.0049	0.0025	0.0004		
	TPEP1	POINT	839123	835514	5.6	22.8	Ambient	11.7	0.23	-	0.0047	0.0024	0.0004		
	TPEP2	POINT	839125	835511	5.6	22.8	Ambient	11.7	0.23	-	0.0047	0.0024	0.0004		
	TPEP10	POINT	839125	835515	5.6	6.65	Ambient	82.3	0.23	-	0.0333	0.0170	0.0026		
The Hong Kong and China Gas Co. Ltd.	CGEP1	POINT	836759	834979	6.4	30.8	436	1.6	0.71	0.1111	-	-	-	Specified Process Licence	24 hours a day
	CGEP2	POINT	836788	834979	6.4	30.8	436	1.6	0.71	0.1111	-	-	-		
	CGEP3	POINT	836864	834980	6.4	30.8	436	1.6	0.71	0.1111	-	-	-		
	CGEP4	POINT	836898	834980	6.4	30.8	436	1.6	0.71	0.1111	-	-	-		
	CGEP5	POINT	836909	835070	6.4	30.8	686	2.3	0.76	0.1111	-	-	-		
	CGEP6	POINT	836942	835070	6.4	30.8	686	2.6	0.71	0.1111	-	-	-		
	CGEP7	POINT	837016	835070	6.4	30.8	686	2.3	0.76	0.1111	-	-	-		
	CGEP8	POINT	837050	835070	6.4	30.8	686	2.6	0.71	0.1111	-	-	-		
	CGEP9	POINT	836912	835102	6.4	46.3	431	16.1	1.02	1.1111	-	-	-		
	CGEP10	POINT	836945	835101	6.4	46.3	431	16.1	1.02	1.1111	-	-	-		
	CGEP11	POINT	837018	835102	6.4	46.3	431	16.1	1.02	1.1111	-	-	-		
	CGEP12	POINT	837053	835102	6.4	46.3	431	16.1	1.02	1.1111	-	-	-		
	CGEP29	POINT	836910	835078	6.4	31.4	604	2.7	1.22	0.3333	-	-	-		
	CGEP30	POINT	836942	835079	6.4	31.4	604	2.7	1.22	0.3333	-	-	-		
	CGEP31	POINT	837015	835078	6.4	31.4	604	2.7	1.22	0.3333	-	-	-		
	CGEP32	POINT	837050	835078	6.4	31.4	604	2.7	1.22	0.3333	-	-	-		
	CGEP33	POINT	836782	835016	6.4	46.9	412	21.6	1.70	0.7500	-	-	-		
	CGEP34	POINT	836890	835016	6.4	46.9	412	21.6	1.70	0.7500	-	-	-		
	CGEP49	POINT	837062	835074	6.4	18.9	469	7.7	0.88	0.3333	-	-	-		

Note: Calculations of emission rates can be referred to "Emission Factors for Meyer Aluminium Limited, Universal (Hot-Dip) Galvanising Limited, Zama Industries Ltd., The Hong Kong and China Gas Co. Ltd., K. Wah Materials Limited and K. Wah Concrete Co. Ltd.".

Emission factor for Meyer Aluminium Limited

With reference to the latest Specified Process (SP) Licence [L-2-005(6)]:

Emission Details

Source ID	Dust Emissoin Rate [from SP Licence]	NOx Emissoin Rate [from SP Licence]	Emissoin Rate (g/s)				Control Equipment
	(kg/hour)	(kg/hour)	TSP	RSP [1]	FSP [1]	NOx	
MEYEP1	0.65	5.5	0.1806	0.1083	0.0903	1.5278	-
MEYEP2	0.47	1.78	0.1306	0.0783	0.0653	0.4944	-
MEYEP3	0.94	3.56	0.2611	0.1567	0.1306	0.9889	-
MEYEP4	0.14	0.56	0.0389	0.0233	0.0194	0.1556	-
MEYEP5	1.44	-	0.4000	0.2400	0.2000	-	Electrostatic Precipitator
MEYEP7	0.16	-	0.0456	0.0273	0.0228	-	Bag filter
MEYEP8	0.59	-	0.1639	0.0983	0.0819	-	Bag filter
MEYEP9A	0.16	0.6	0.0444	0.0267	0.0222	0.1667	-
MEYEP9B	-	0.21	-	-	-	0.0583	-

Note:

[1] Emission rates of RSP / FSP are not provided in the SP Licence. Considering the nature of the industriy (i.e. Aluminum Works), with reference to the Section12.8, Table 12.8-3 of USEPA AP42, conversion factors of 0.6 and 0.5 are adopted to estimate the emissions of RSP and FSP from TSP (as given in the SP License) respectively.

Dimensions

Source ID	Gas Flow Rate	Temperature	Exit Velocity	Width	Length	Diameter	Chimney Height above Ground
	(m^3/hour)	(K)	(m/s)	(m)	(m)	(m)	(m)
MEYEP1	60350	633	15.1	-	-	1.19	44.1
MEYEP2	19800	573	15.1	-	-	0.68	44.1
MEYEP3	39600	573	15.2	-	-	0.96	44.1
MEYEP4	5832	573	15.1	-	-	0.37	39.4
MEYEP5	33000	313	15.1	-	-	0.88	15.5
MEYEP7	4000	333	15.7	-	-	0.30	21.9
MEYEP8	14000	333	14.7	-	-	0.58	21.9
MEYEP9A	46830	589	20.4	-	-	0.90	44.1
MEYEP9B	4580	873	15.8	-	-	0.32	23.9

Emission factor for Universal (Hot-Dip) Galvanising Limited

With reference to the latest Specified Process (SP) Licence [L-27-004(6)]:

Emission Details

Source ID	Dust Emissoin Rate [from SP Licence]	Emissoin Rate (g/s)			Control Equipment
	(kg/hour)	TSP	RSP [1]	FSP [1]	
UNEP1	0.4	0.1111	0.1022	0.0911	Bag Filter
UNEP2	1.7	0.4722	0.4344	0.3872	Nil

Note:

[1] Emission rates of RSP / FSP are not provided in the SP Licence. Considering the nature of the industriy (i.e. Zinc galvanising works), with reference to the Category 8, Appendix B.2 (Generalized Particle Size Distributions) of USEPA AP42, conversion factors of 0.92 and 0.82 are adopted to estimate the emissions of RSP and FSP from TSP (as given in the SP License) respectively.

Dimensions

Source ID	Gas Flow Rate	Temperature	Exit Velocity	Width	Length	Diameter [1]	Chimney Height above Ground
	(m^3/hour)	(K)	(m/s)	(m)	(m)	(m)	(m)
UNEP1	31680	326	15.5	-	-	0.85	13.4
UNEP2	129600	313	16	1.50	1.50	1.69	13.4

Note:

[1] Diameters are calculated from the the area of the source:

Width x Length = $r^2 \times \pi$

Diameter = r x 2

Emission factor for Zama Industries Ltd.

With reference to the latest Specified Process (SP) Licence [L-2-006(5)]:

Emission Details

Source ID	Dust Emissoin Rate [from SP Licence]	NOx Emissoin Rate [from SP Licence]	Emissoin Rate (g/s)				Control Equipment
	(kg/hour)	(kg/hour)	TSP	RSP [1]	FSP [1]	NOx	
ZAEP1	0.170	0.228	0.0472	0.0283	0.0236	0.0633	Venturi Scrubber

Note:

[1] Emission rates of RSP / FSP are not provided in the SP Licence. Considering the nature of the industriy (i.e. Aluminum Works), with reference to the Section12.8, Table 12.8-3 of USEPA AP42, conversion factors of 0.6 and 0.5 are adopted to estimate the emissions of RSP and FSP from TSP (as given in the SP License) respectively.

Dimensions

Source ID	Gas Flow Rate	Temperature	Exit Velocity	Width	Length	Diameter	Chimney Height above Ground
	(m^3/hour)	(K)	(m/s)	(m)	(m)	(m)	(m)
ZAEP1	16992	343	15.1	-	-	0.63	13.53

Emission factor for K. Wah Materials Limited

With reference to the latest Specified Process (SP) Licence [L-3-070(7)]:

Emission Details

Source ID	Dust Emissoin Rate [from SP Licence]	Emissoin Rate (g/s)			Control Equipment
	(kg/hour)	TSP	RSP [1]	FSP [1]	
CPEP1	0.08	0.0222	0.0113	0.003	Dust collector
CPEP2	0.08	0.0222	0.0113	0.003	Dust collector
CPEP3	0.08	0.0222	0.0113	0.003	Dust collector
CPEP4	0.08	0.0222	0.0113	0.003	Dust collector
CPEP5	0.08	0.0222	0.0113	0.003	Dust collector
CPEP6	0.08	0.0222	0.0113	0.003	Dust collector
CPEP7	0.08	0.0222	0.0113	0.003	Dust collector
CPEP8	0.0875	0.0243	0.0124	0.004	Dust collector
CPEP9	0.0875	0.0243	0.0124	0.004	Dust collector
CPEP10	0.0875	0.0243	0.0124	0.004	Dust collector

Note:

[1] Emission rates of RSP / FSP are not provided in the SP Licence. With reference to the Category 3, Appendix B.2 (Generalized Particle Size Distributions) of USEPA AP42, conversion factors of 0.51 and 0.15 are adopted to estimate the emissions of RSP and FSP from TSP (as given in the SP License) respectively.

Dimensions

Source ID	Gas Flow Rate	Temperature	Exit Velocity	Width	Length	Diameter	Chimney Height above Ground
	(m^3/hour)	(K)	(m/s)	(m)	(m)	(m)	(m)
CPEP1	1750	Ambient	24.18	-	-	0.16	29
CPEP2	1750	Ambient	24.18	-	-	0.16	11
CPEP3	1750	Ambient	24.18	-	-	0.16	31
CPEP4	1750	Ambient	24.18	-	-	0.16	15
CPEP5	1750	Ambient	24.18	-	-	0.16	32
CPEP6	1750	Ambient	24.18	-	-	0.16	32
CPEP7	1750	Ambient	24.18	-	-	0.16	10
CPEP8	1750	Ambient	24.18	-	-	0.16	32
CPEP9	1750	Ambient	24.18	-	-	0.16	32
CPEP10	1750	Ambient	24.18	-	-	0.16	32

Emission factor for K. Wah Concrete Co. Ltd.

With reference to the latest Specified Process (SP) Licence [L-3-078(7)]:

Emission Details

Source ID	RSP Emissoin Rate [from SP Licence]	Gas Flow Rate	Dust Concentration Limit [BPM 3/2(16)]	Emissoin Rate (g/s)			Control Equipment
	(kg/hour)	(m^3/hour)	(mg/m3)	TSP [1]	RSP [2]	FSP [2]	
SMTEP1	0.0175	1750	10	0.0049	0.0025	0.0004	Dust collector
SMTEP2	0.0255	2550	10	0.0071	0.0036	0.0005	Dust collector
SMTEP3	0.0175	1750	10	0.0049	0.0025	0.0004	Dust collector
SMTEP4	0.0175	1750	10	0.0049	0.0025	0.0004	Dust collector
SMTEP5	0.0175	1750	10	0.0049	0.0025	0.0004	Dust collector
SMTEP6	0.0255	2550	10	0.0071	0.0036	0.0005	Dust collector
SMTEP7	0.0175	1750	10	0.0049	0.0025	0.0004	Dust collector
SMTEP8	0.0175	1750	10	0.0049	0.0025	0.0004	Dust collector
SMTEP9	0.0255	2550	10	0.0071	0.0036	0.0005	Dust collector
SMTEP12	0.0175	1750	10	0.0049	0.0025	0.0004	Dust collector
SMTEP19	0.0175	1750	10	0.0049	0.0025	0.0004	Dust collector
SMTEP20	0.0175	1750	10	0.0049	0.0025	0.0004	Dust collector
TPEP1	0.017	1700	10	0.0047	0.0024	0.0004	Dust collector
TPEP2	0.017	1700	10	0.0047	0.0024	0.0004	Dust collector
TPEP10	0.12	12000	10	0.0333	0.0170	0.0026	Dust collector

Note:

[1] According to the "A Guidance Note on Technical, Management and Monitoring Requirements for Specified Process - Cement Works (Concrete Batching Plants" (BPM 3/2 (16)) published by EPD, the concentration limit for particulate matter of 10mg/m3 shall be met by 1 Jan 2018 and the construction of the Project would be tentatively commenced in Year 2019. Hence, the estimated dust emission rates from the BPM 3/2 (16) is adopted. The concentration limit is applied to TSP and the emission rate of RSP and FSP can be referred to Note [2].

[2] With reference to the Category 3, Appendix B.2 (Generalized Particle Size Distributions) of USEPA AP42, the cumulative percentage of TSP particle size distribution of general concrete batching process and rock crushing to RSP is 51% and that of TSP to FSP is 15%. Hence, a conversion factor of 0.51 is applied to obtain the emission rate for RSP and for FSP, a conversion factor of 0.15 is applied.

Dimensions

Source ID	Gas Flow Rate	Temperature	Exit Velocity	Width	Length	Diameter [2]	Chimney Height above Ground
	(m^3/hour)	(K)	(m/s)	(m)	(m)	(m)	(m)
SMTEP1	1750	Ambient	12.0	0.15	0.27	0.23	34
SMTEP2	2550	Ambient	17.5	0.15	0.27	0.23	20
SMTEP3	1750	Ambient	12.0	0.15	0.27	0.23	34
SMTEP4	1750	Ambient	12.0	0.15	0.27	0.23	34
SMTEP5	1750	Ambient	12.0	0.15	0.27	0.23	34
SMTEP6	2550	Ambient	17.5	0.15	0.27	0.23	20
SMTEP7	1750	Ambient	12.0	0.15	0.27	0.23	34
SMTEP8	1750	Ambient	12.0	0.15	0.27	0.23	34
SMTEP9	2550	Ambient	17.5	0.15	0.27	0.23	20
SMTEP12	1750	Ambient	12.0	0.15	0.27	0.23	34
SMTEP19	1750	Ambient	12.0	0.15	0.27	0.23	28.4
SMTEP20	1750	Ambient	12.0	0.15	0.27	0.23	28.4
TPEP1	1700	Ambient	11.7	0.15	0.27	0.23	22.8
TPEP2	1700	Ambient	11.7	0.15	0.27	0.23	22.8
TPEP10	12000	Ambient	82.3	0.15	0.27	0.23	6.65

Note:

[2] Equivalent Diameters are calculated from the the area of the source:

Width x Length = $r^2 \times \pi$

Diameter = r x 2

Emission factor for The Hong Kong and China Gas Co. Ltd.

With reference to the latest Specified Process (SP) Licence [L-8-001(8)]:

Emission Details

Source ID	NOx Emissoin Rate [from SP Licence]	Emissoin Rate (g/s)	Control Equipment
	(kg/hour)	NOx	
CGEP1	0.4	0.1111	Use of advanced process controller
CGEP2	0.4	0.1111	Use of advanced process controller
CGEP3	0.4	0.1111	Use of advanced process controller
CGEP4	0.4	0.1111	Use of advanced process controller
CGEP5	0.4	0.1111	Use of advanced process controller
CGEP6	0.4	0.1111	Use of advanced process controller
CGEP7	0.4	0.1111	Use of advanced process controller
CGEP8	0.4	0.1111	Use of advanced process controller
CGEP9	4.0	1.1111	Low Nox burners, selective non-catalytic reudction DeNox system
CGEP10	4.0	1.1111	Low Nox burners, selective non-catalytic reudction DeNox system
CGEP11	4.0	1.1111	Low Nox burners, selective non-catalytic reudction DeNox system
CGEP12	4.0	1.1111	Low Nox burners, selective non-catalytic reudction DeNox system
CGEP29	1.2	0.3333	Use of advanced process controller
CGEP30	1.2	0.3333	Use of advanced process controller
CGEP31	1.2	0.3333	Use of advanced process controller
CGEP32	1.2	0.3333	Use of advanced process controller
CGEP33	2.7	0.7500	Low Nox burners, selective non-catalytic reudction DeNox system
CGEP34	2.7	0.7500	Low Nox burners, selective non-catalytic reudction DeNox system
CGEP49	1.2	0.3333	Use of town gas or landfill gas as fuel

Dimensions

Source ID	Gas Flow Rate	Temperature	Exit Velocity	Width	Length	Diameter [3]	Chimney Height above Ground
	(m^3/hour)	(K)	(m/s)	(m)	(m)	(m)	(m)
CGEP1	2344	436	1.6	-	-	0.712	30.8
CGEP2	2344	436	1.6	-	-	0.712	30.8
CGEP3	2344	436	1.6	-	-	0.712	30.8
CGEP4	2344	436	1.6	-	-	0.712	30.8
CGEP5	3757	686	2.3	-	-	0.762	30.8
CGEP6	3757	686	2.6	-	-	0.712	30.8
CGEP7	3757	686	2.3	-	-	0.762	30.8
CGEP8	3757	686	2.6	-	-	0.712	30.8
CGEP9	47363	431	16.1	-	-	1.02	46.3
CGEP10	47363	431	16.1	-	-	1.02	46.3
CGEP11	47363	431	16.1	-	-	1.02	46.3
CGEP12	47363	431	16.1	-	-	1.02	46.3
CGEP29	11339	604	2.7	-	-	1.22	31.4
CGEP30	11339	604	2.7	-	-	1.22	31.4
CGEP31	11339	604	2.7	-	-	1.22	31.4
CGEP32	11339	604	2.7	-	-	1.22	31.4
CGEP33	176378	412	21.6	-	-	1.70	46.9
CGEP34	176378	412	21.6	-	-	1.70	46.9
CGEP49	16964	469	7.7	-	-	0.88	18.9

Emissions from Non-Control Points at SP Sites

			Point Source							Area Source							
Company	Source ID	Type	X	Y	Base Elevation	Release Height	Exit Temperature	Exit velocity	Discharge Diameter	Length of X side	Length of Y side	Angle	Emission Rate (g/s or g/m2/s)			Remark / Reference	Operation Hour
													TSP	RSP	FSP		
			(m)	(m)	(mpd)	(m)	(K)	(m/s)	(m)	(m)	(m)	(^{0})					
K. Wah Materials Limited [1]	CPEP99	POINT	839035.0	835512.0	7.1	2	Ambient	24.18	0.16	-	-	-	9.53E-03	4.86E-03	4.96E-03	Sources Listed in the latest available APCP	0700 - 2300 (16 hours a day)
	CPEP11	AREA	839013.5	835533.7	5.6	0.5	-	-	-	59.1	4.0	-20.3	6.49E-05	3.31E-05	8.02E-06		
K. Wah Concrete Co. Ltd.[1]	SMTRH01	POINT	838988.0	835505.0	5.6	1	Ambient	0.001	1.5	-	-	-	1.16E-01	5.94E-02	1.85E-02	Sources Listed in the latest available APCP	Assume 24 hours a day
	SMTUN01	AREA	839007.0	835452.0	5.6	1.2	-	-	-	13.0	34.0	-23.0	2.02E-04	1.03E-04	5.19E-05		
	SMTUN02	POINT	839005.0	835523.0	5.6	1	Ambient	0.001	0.50	-	-	-	8.96E-02	4.57E-02	1.41E-02		
	SMTPR4A	AREA	839000.9	835565.7	5.4	0.5	-	-	-	68.0	4.0	9.8	1.81E-04	9.26E-05	2.24E-05		
	SMTPR4B	AREA	838975.3	835556.8	5.6	0.5	-	-	-	28.0	4.0	-18.6	1.81E-04	9.26E-05	2.24E-05		
	SMTPR4C	AREA	838985.1	835510.2	5.5	0.5	-	-	-	4.0	49.6	-14.4	1.55E-04	7.93E-05	1.92E-05		
	SMTPR4D	AREA	838987.5	835509.0	5.3	0.5	-	-	-	39.3	4.0	-15.0	3.12E-05	1.59E-05	3.85E-06		
	SMTPR4E	AREA	839025.7	835519.0	5.1	0.5	-	-	-	47.7	4.0	-21.3	3.12E-05	1.59E-05	3.85E-06		
	SMTPR4F	AREA	839067.5	835539.2	5.2	0.5	-	-	-	4.0	16.8	31.4	3.12E-05	1.59E-05	3.85E-06		
	SMTPR4G	AREA	839013.5	835533.7	5.6	0.5	-	-	-	59.1	4.0	-20.3	1.73E-05	8.84E-06	2.14E-06		
	TPRH01	POINT	839112.0	835496.0	5.2	2	Ambient	0.001	0.50	-	-	-	1.85E-02	9.44E-03	2.92E-03		
	TPRH02	POINT	839143.0	835512.0	5.2	13	Ambient	0.001	0.50	-	-	-	1.85E-02	9.44E-03	2.92E-03		
	TPOB01	POINT	839129.0	835518.0	5.2	17	Ambient	0.001	0.50	-	-	-	1.85E-02	9.44E-03	2.92E-03		
	TPWH01	POINT	839129.0	835518.0	5.2	17	Ambient	0.001	0.50	-	-	-	1.85E-02	9.44E-03	2.92E-03		
	TPUN01	POINT	839103.0	835496.0	5.2	0.5	Ambient	0.001	0.50	-	-	-	1.85E-02	9.44E-03	2.92E-03		
	TPPR10A	AREA	839000.9	835565.7	5.4	0.5	-	-	-	68.0	4.0	9.8	1.92E-05	9.81E-06	2.37E-06		
	TPPR10B	AREA	838975.3	835556.8	5.6	0.5	-	-	-	28.0	4.0	-18.6	1.92E-05	9.81E-06	2.37E-06		
	TPPR10C	AREA	838985.1	835510.2	5.5	0.5	-	-	-	4.0	49.6	-14.4	1.92E-05	9.81E-06	2.37E-06		
	TPPR10D	AREA	838987.5	835509.0	5.3	0.5	-	-	-	39.3	4.0	-15.0	3.90E-05	1.99E-05	4.81E-06		
	TPPR10E	AREA	839025.7	835519.0	5.1	0.5	-	-	-	47.7	4.0	-21.3	3.90E-05	1.99E-05	4.81E-06		
	TPPR10F	AREA	839067.5	835539.2	5.2	0.5	-	-	-	4.0	16.8	31.4	3.90E-05	1.99E-05	4.81E-06		
	TPPR10G	AREA	839067.2	835554.3	5.2	0.5	-	-	-	30.1	4.0	31.2	1.21E-04	6.19E-05	1.50E-05		
	TPPR10H	AREA	839105.4	835513.2	5.2	0.5	-	-	-	4.0	29.4	-26.5	1.21E-04	6.19E-05	1.50E-05		
	TPPR10I	AREA	839102.9	835505.8	5.2	0.5	-	-	-	4.0	9.2	14.9	6.68E-05	3.41E-05	8.26E-06		
	TPPR10J	AREA	839108.1	835512.3	5.2	0.5	-	-	-	28.3	4.0	-26.3	4.55E-05	2.32E-05	5.62E-06		
	TPPR10K	AREA	839134.9	835517.1	5.2	0.5	-	-	-	4.0	9.6	-25.8	4.55E-05	2.32E-05	5.62E-06		
	TPPR10L	AREA	839013.5	835533.7	5.1	0.5	-	-	-	59.1	4.0	-20.3	8.66E-06	4.42E-06	1.07E-06		

Note :
[1] Emission rates can be referred to "Emission factor for K. Wah Materials Limited (Non-Control Points) and K. Wah Concrete Co. Ltd (Non-control Points)".
[2] Since some control points in the K.Wah Concrete Co. Ltd. SP License [L-3-078(7)] operate 24 hours a day, the non-control points are also assumed to be operating 24 hours a day for conservative assessment.

Emission factor for K. Wah Materials Limited (Non-Control Points)

With reference to the latest Air Pollution Control Plan (APCP) prepared for Sam Mun Tsai and Tai Po Concrete Batching Plants owned by K. Wah Concrete Co. Ltd (July 2018):

Emission Details

Source ID	Emissoin Rate (g/s or g/m^2/s)			Remark
	TSP [1]	RSP [1]	FSP [1]	
CPEP99	9.53E-03	4.86E-03	4.96E-03	Barge
CPEP11	6.49E-05	3.31E-05	8.02E-06	Paved Road

Note:

[1] All emission rates are referenced from the latest APCP for the variation of Specified Process License for Concrete Batching Plant in Tai Po - Sam Mun Tsai Batching Plant and Tai Po Batching Plant. Since only RSP and FSP emission rates are provided in the report, TSP emission rates are taken to be 1.96 times that of RSP with reference to Appendix B.2 (Generalized Particle Size Distributions) Category 3 of USEPA AP42 for which suggested RSP would constitute to 51% of TSP in aggregates.

Dimensions

Source ID	Gas Flow Rate	Temperature	Exit Velocity	Width	Length	Angle	Diameter	Release Height above Ground
	(m^3/hour)	(K)	(m/s)	(m)	(m)	(Degree)	(m)	(m)
CPEP99	1750	Ambient	24.18	-	-	-	0.16	2
CPEP11	-	-	-	59.1	4	-20.3	-	0.5

Emission factor for K. Wah Concrete Co. Ltd (Non-control Points)

With reference to the latest Air Pollution Control Plan (APCP) dated July 2018:

Emission Details

Source ID	Emissoin Rate (g/s or g/m^2/s)[1]			Remark
	TSP	RSP	FSP	
SMTRH01	1.16E-01	5.94E-02	1.85E-02	Receiving Hopper
SMTUN01	2.02E-04	1.03E-04	5.19E-05	Station barge unloading from other barges
SMTUN02	8.96E-02	4.57E-02	1.41E-02	Unloading activities from aggregates overhead bin
SMTPR4A	1.81E-04	9.26E-05	2.24E-05	Paved Road
SMTPR4B	1.81E-04	9.26E-05	2.24E-05	Paved Road
SMTPR4C	1.55E-04	7.93E-05	1.92E-05	Paved Road
SMTPR4D	3.12E-05	1.59E-05	3.85E-06	Paved Road
SMTPR4E	3.12E-05	1.59E-05	3.85E-06	Paved Road
SMTPR4F	3.12E-05	1.59E-05	3.85E-06	Paved Road
SMTPR4G	1.73E-05	8.84E-06	2.14E-06	Paved Road
TPRH01	1.85E-02	9.44E-03	2.92E-03	Receiving Hopper
TPRH02	1.85E-02	9.44E-03	2.92E-03	Receiving Hopper
TPOB01	1.85E-02	9.44E-03	2.92E-03	Unloading aggregates from truck to aggregate bin
TPWH01	1.85E-02	9.44E-03	2.92E-03	Unloading aggregates from truck to aggregate bin
TPUN01	1.85E-02	9.44E-03	2.92E-03	Aggregate tipper ground bin
TPPR10A	1.92E-05	9.81E-06	2.37E-06	Paved Road
TPPR10B	1.92E-05	9.81E-06	2.37E-06	Paved Road
TPPR10C	1.92E-05	9.81E-06	2.37E-06	Paved Road
TPPR10D	3.90E-05	1.99E-05	4.81E-06	Paved Road
TPPR10E	3.90E-05	1.99E-05	4.81E-06	Paved Road
TPPR10F	3.90E-05	1.99E-05	4.81E-06	Paved Road
TPPR10G	1.21E-04	6.19E-05	1.50E-05	Paved Road
TPPR10H	1.21E-04	6.19E-05	1.50E-05	Paved Road
TPPR10I	6.68E-05	3.41E-05	8.26E-06	Paved Road
TPPR10J	4.55E-05	2.32E-05	5.62E-06	Paved Road
TPPR10K	4.55E-05	2.32E-05	5.62E-06	Paved Road
TPPR10L	8.66E-06	4.42E-06	1.07E-06	Paved Road

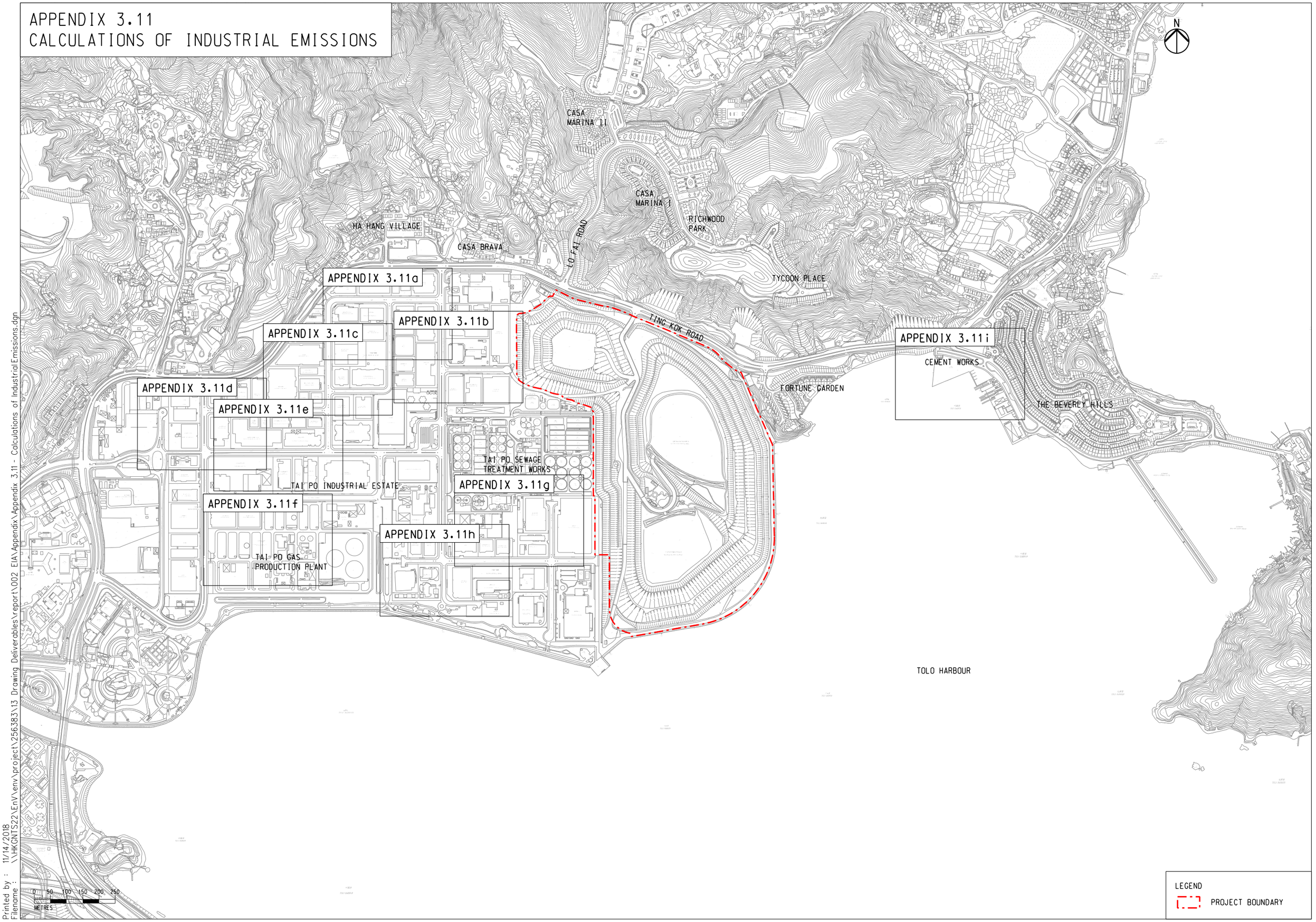
Note:

[1] All emission rates are referenced from the latest APCP for the variation of Specified Process License for Concrete Batching Plant in Tai Po - Sam Mun Tsai Batching Plant and Tai Po Batching Plant. Since only RSP and FSP emission rates are provided in the report, TSP emission rates are taken to be 1.96 times that of RSP with reference to Appendix B.2 (Generalized Particle Size Distributions) Category 3 of USEPA AP42 for which suggested RSP would constitute to 51% of TSP in aggregates.

Dimensions

Source ID	Temperature	Exit Velocity	Width	Length	Angle	Diameter	Release Height above Ground
	(K)	(m/s)	(m)	(m)	(Degree)	(m)	(m)
SMTRH01	Ambient	0.001	-	-	-	1.5	1
SMTUN01	-	-	13	34	-23	-	1.2
SMTUN02	Ambient	0.001	-	-	-	0.5	1
SMTPR4A	-	-	68	4	9.8	-	0.5
SMTPR4B	-	-	28	4	-18.6	-	0.5
SMTPR4C	-	-	4	49.6	-14.4	-	0.5
SMTPR4D	-	-	39.3	4	-15	-	0.5
SMTPR4E	-	-	47.7	4	-21.3	-	0.5
SMTPR4F	-	-	4	16.8	31.4	-	0.5
SMTPR4G	-	-	59.1	4	-20.3	-	0.5
TPRH01	Ambient	0.001	-	-	-	0.5	2
TPRH02	Ambient	0.001	-	-	-	0.5	13
TPOB01	Ambient	0.001	-	-	-	0.5	17
TPWH01	Ambient	0.001	-	-	-	0.5	17
TPUN01	Ambient	0.001	-	-	-	0.5	0.5
TPPR10A	-	-	68	4	9.8	-	0.5
TPPR10B	-	-	28	4	-18.6	-	0.5
TPPR10C	-	-	4	49.6	-14.4	-	0.5
TPPR10D	-	-	39.3	4	-15.0	-	0.5
TPPR10E	-	-	47.7	4	-21.3	-	0.5
TPPR10F	-	-	4	16.8	31.4	-	0.5
TPPR10G	-	-	30.1	4	31.2	-	0.5
TPPR10H	-	-	4	29.4	-26.5	-	0.5
TPPR10I	-	-	4	9.2	14.9	-	0.5
TPPR10J	-	-	28.3	4	-26.3	-	0.5
TPPR10K	-	-	4	9.6	-25.8	-	0.5
TPPR10L	-	-	59.1	4	-20.3	-	0.5

APPENDIX 3.11
CALCULATIONS OF INDUSTRIAL EMISSIONS



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APPENDIX 3.11a
CALCULATIONS OF INDUSTRIAL EMISSIONS

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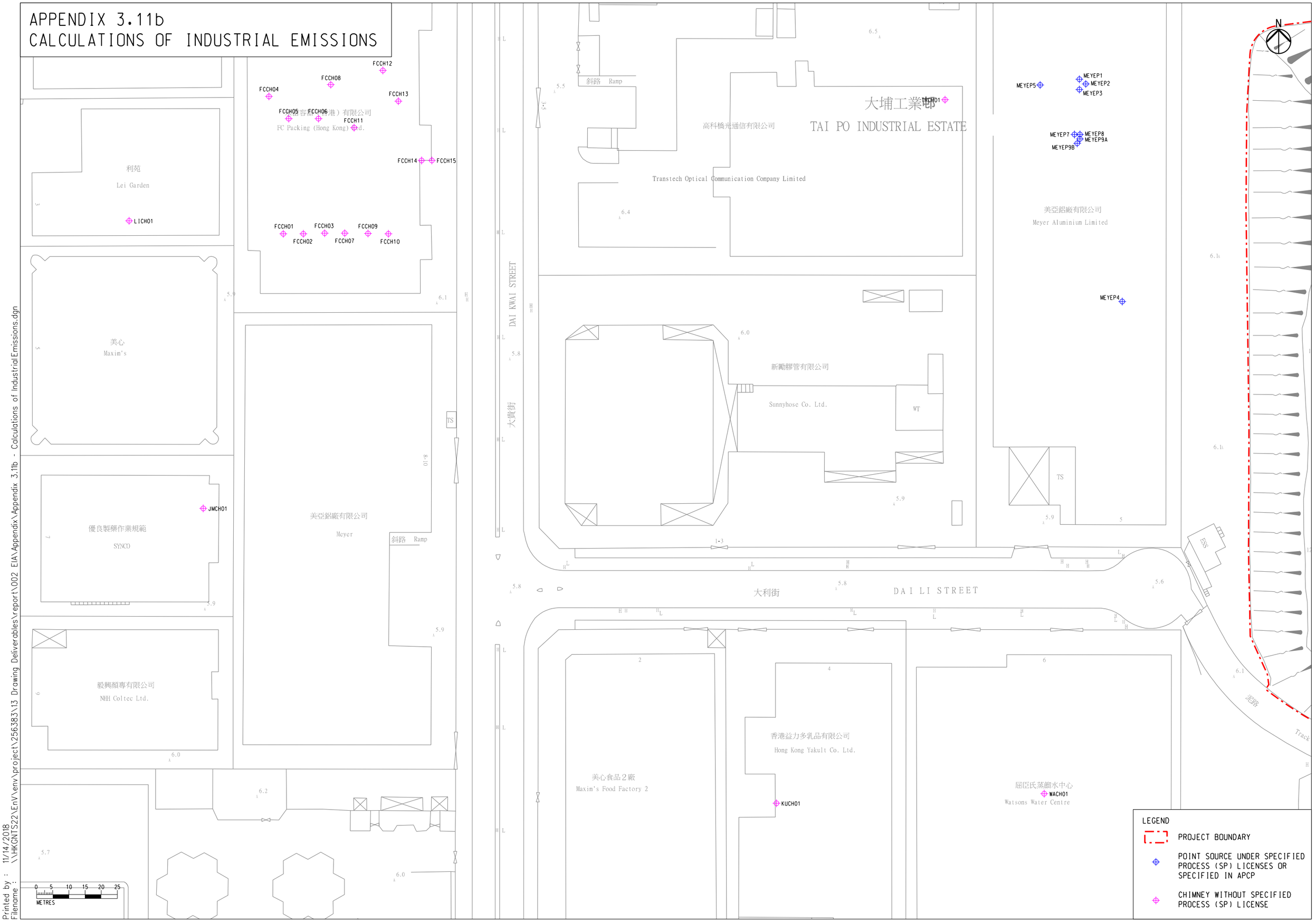
APPENDIX 3.11b
CALCULATIONS OF INDUSTRIAL EMISSIONS



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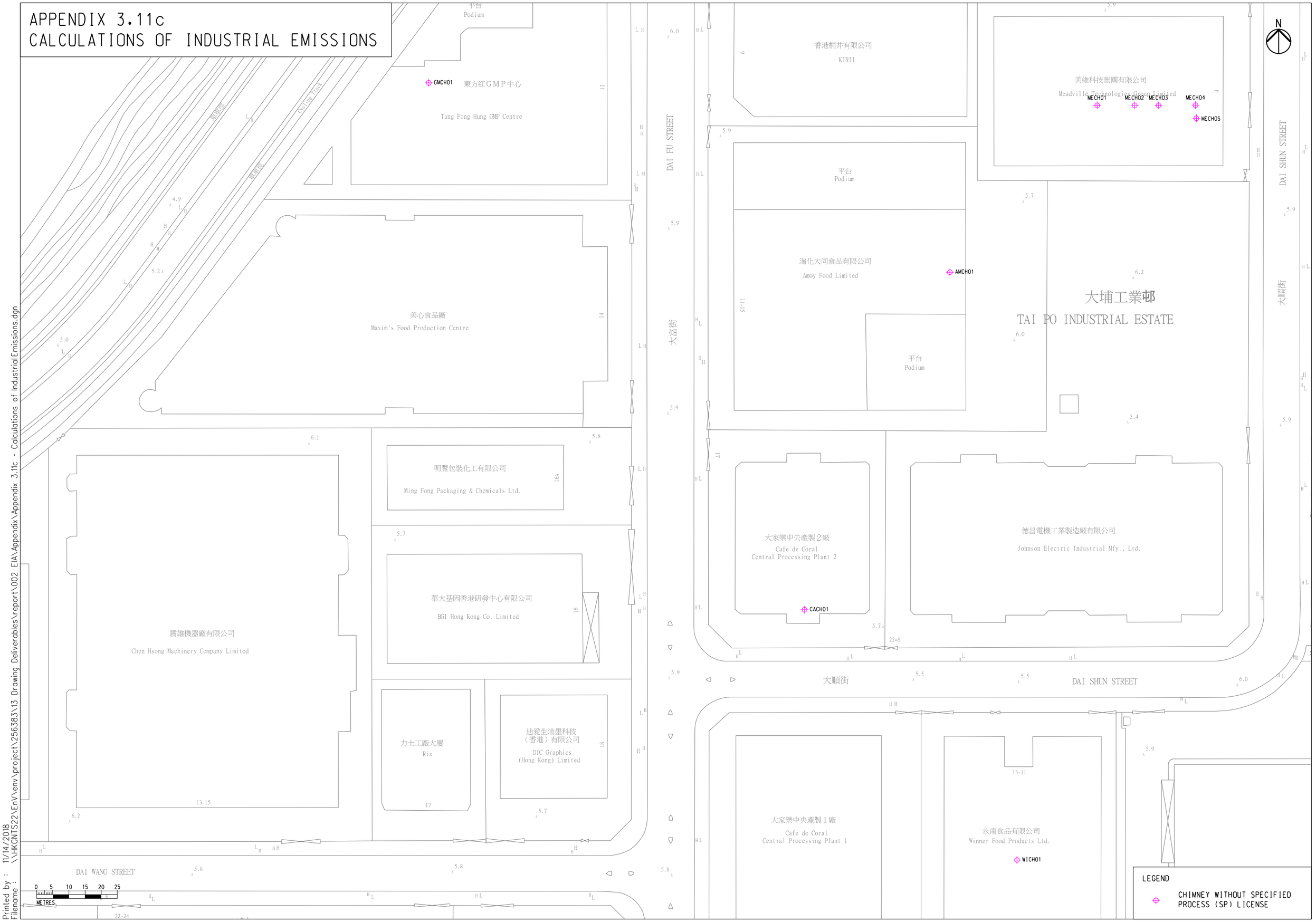
APPENDIX 3.11c
CALCULATIONS OF INDUSTRIAL EMISSIONS



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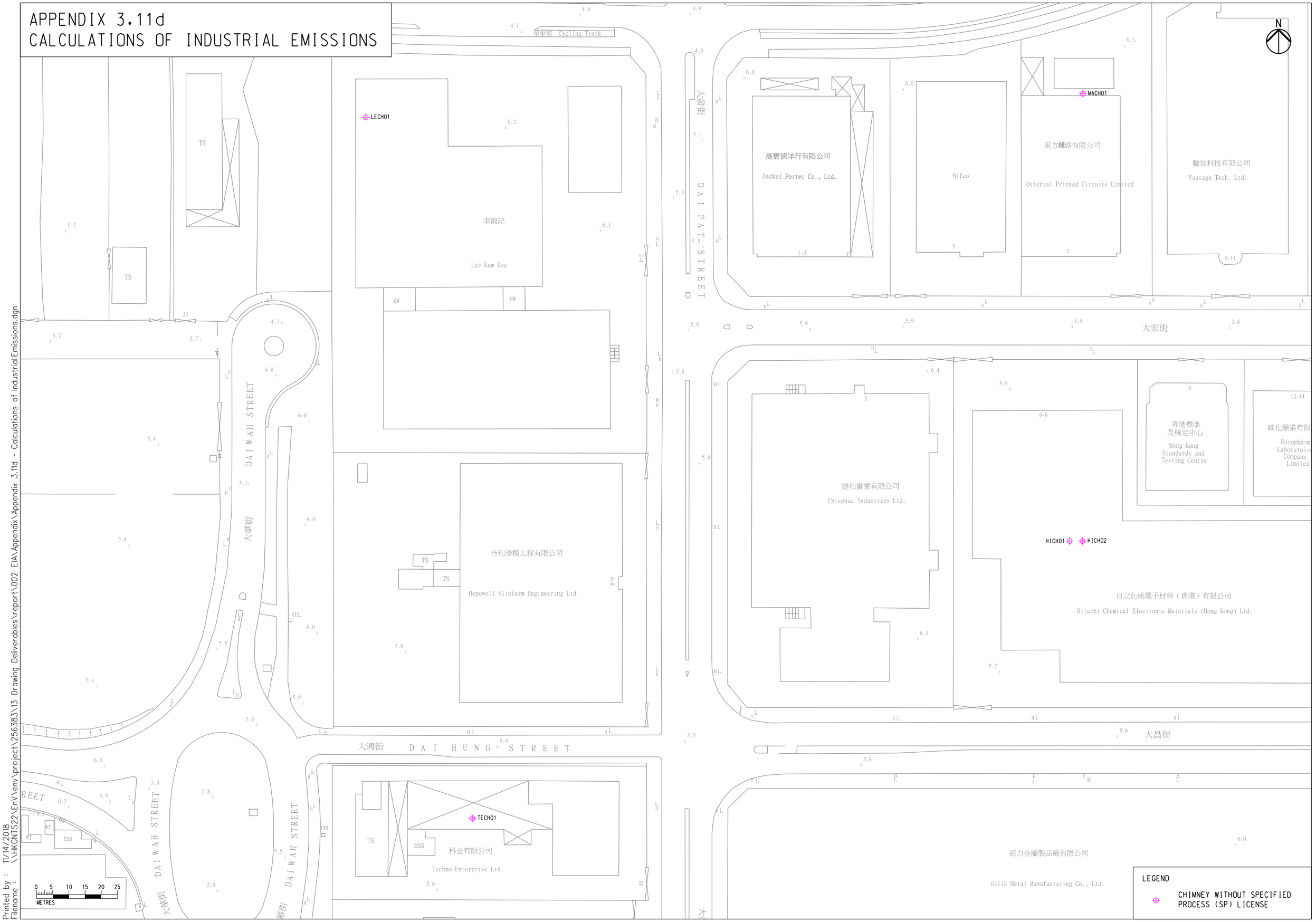
APPENDIX 3.11d
CALCULATIONS OF INDUSTRIAL EMISSIONS



LEGEND

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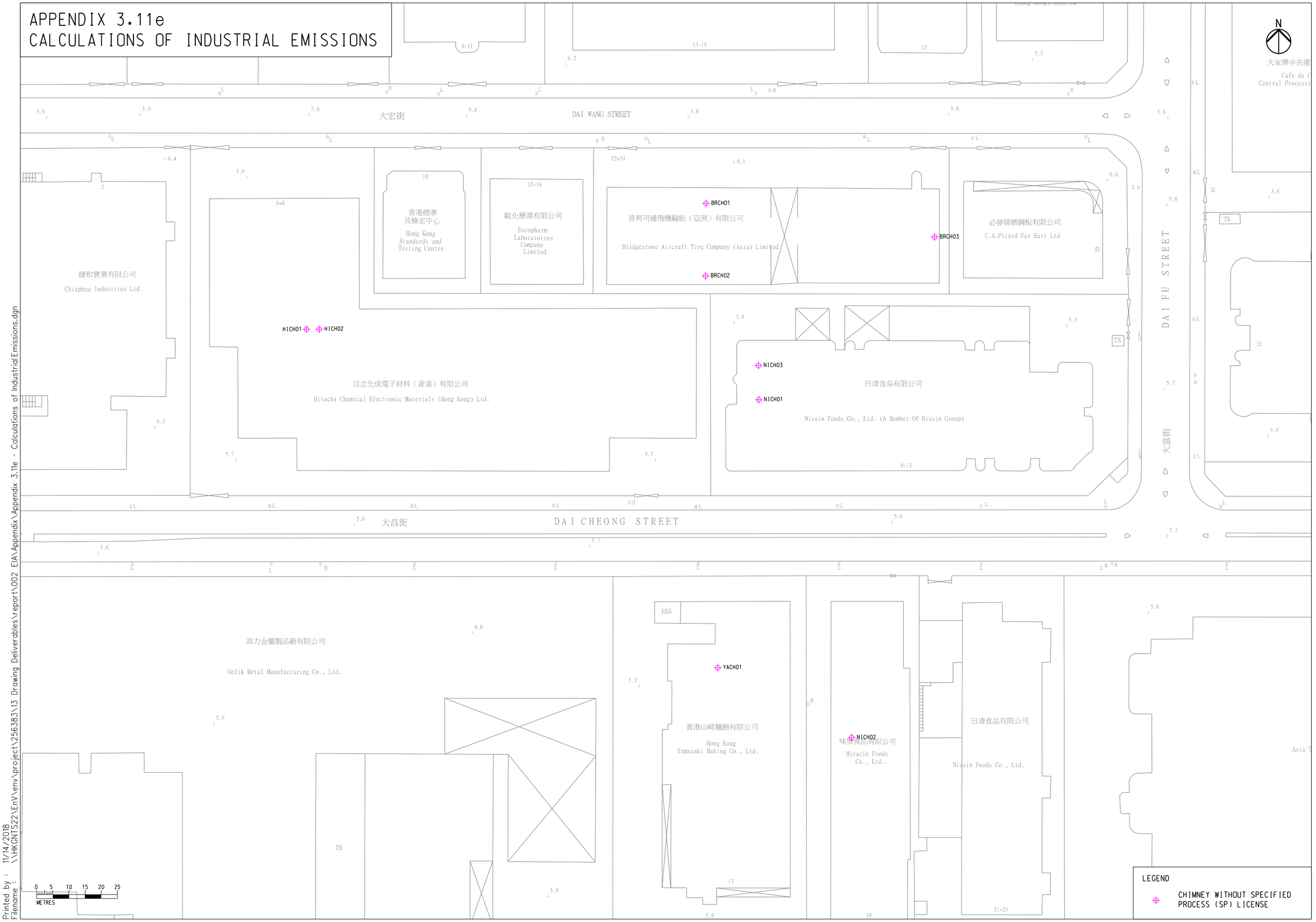
APPENDIX 3.11e
CALCULATIONS OF INDUSTRIAL EMISSIONS



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APPENDIX 3.11f
CALCULATIONS OF INDUSTRIAL EMISSIONS

大盛街
DAI SHING STREET

大埔工業邨
TAI PO INDUSTRIAL ESTATE

香港印鈔有限公司
Hong Kong Note Printing Ltd.

環球熱浸鍍鋅有限公司
Universal (Hot-Dip) Galvanising Ltd.

香港中華煤氣有限公司
大埔煤氣廠
The Hong Kong And China Gas Company Limited
Tai Po Gas Production Plant

CGEP1
CGEP2
CGEP3
CGEP4
CGEP5
CGEP6
CGEP9
CGEP10
CGEP11
CGEP12
CGEP29
CGEP30
CGEP31
CGEP32
CGEP33
CGEP34
CGEP49
CGEP7
CGEP8
UNEP1
UNEP2

道路 Road

WT
TS
FT
缸 Tank
濾水池 Filter Bed

0 5 10 15 20 25
METRES

LEGEND

⊕ POINT SOURCE UNDER SPECIFIED PROCESS (SP) LICENSE OR SPECIFIED IN APCP

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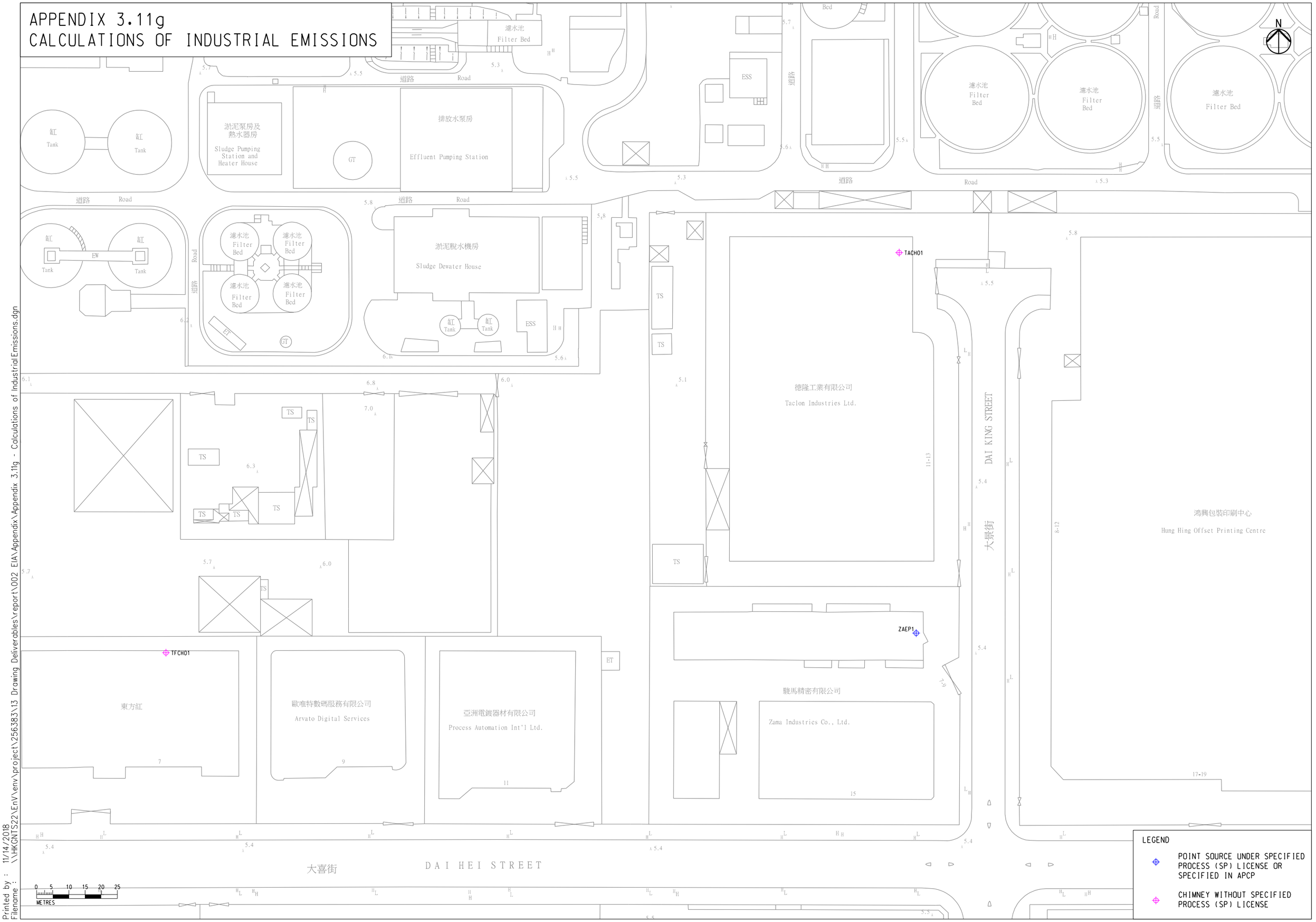
APPENDIX 3.11g
CALCULATIONS OF INDUSTRIAL EMISSIONS



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APPENDIX 3.11h
CALCULATIONS OF INDUSTRIAL EMISSIONS

WICH07
WICH02
WICH06
WICH05
WICH03
WICH04
TFCH01
SACH01
SACH02
APCH01
APCH02
APCH03
APCH04
APCH05
APCH06

停車場
Car Park

漢生堂
Han Sheng Tang Herbal Technologies Co., Ltd.

ABB工業及
建築系統有限公司
ABB Industrial and Building Systems Ltd.

永南食品有限公司
Winner Food Products Ltd.

大喜街
Dai Hei Kwai Street Substation

東方紅

歐唯特數碼服務有限公司
Arvato Digital Services

亞洲電鍍器材有限公司
Process Automation Int'l Ltd.

大喜街 DAI HEI STREET

大埔工業邨
TAI PO INDUSTRIAL ESTATE

方正花園
Formal Garden

亞太通信衛星有限公司
APT SATELLITE COMPANY LIMITED

籃球場
Basketball Court

泰業印刷有限公司
Apex Print Limited

亞洲衛星有限公司
Asia Satellite Telecommunications Co., Ltd.

香港回歸祖國
十週年紀念雕塑

單車徑 Cycling Track

觀景臺 Viewing Terrace

TS
SA
FB
HL

LEGEND

CHIMNEY WITHOUT SPECIFIED PROCESS (SP) LICENSE

0 5 10 15 20 25
METRES

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APPENDIX 3.11i
CALCULATIONS OF INDUSTRIAL EMISSIONS

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