

### Appendix 3.9 Emission Inventory of Major Stack in 4km Boundary

#### Dust Emission Source Listing in AERMOD

#### Sources from the existing Asphalt Plant (Operated by K. Wah Asphalt Limited)

Source ID	Type	X <sup>1</sup>	Y <sup>1</sup>	Height (mAG) <sup>2</sup>	Exit Temp. (K) <sup>2</sup>	Exit velocity (m/s) <sup>2,3</sup>	Stack Diameter (m) <sup>2</sup>	Working Hours <sup>2</sup>	Emission Rate (g/s) <sup>2,3</sup>			
									NOx	SO2	RSP	FSP
EP1	POINT	830930.04	842375.26	34.00	343.0	12.97	1.23	0000 - 2400	1.5194E+01	8.0833E+00	4.5833E-01	4.5833E-01
EP10	POINT	830930.04	842375.26	28.60	293.0	8.60	0.24	0800-1800	-	-	3.8889E-03	3.8889E-03
EP19	POINT	830909.99	842378.48	8.00	453.0	14.71	0.50	0000 - 2400	7.9361E-02	2.7778E-03	8.6639E-02	8.6639E-02

Remarks:

- Coordinates of the stack are determined based on observation.
- Stack parameter and emission strength of the asphalt plant refer to SP Licenec No. L-15-035(2) in Specified Processes License Register maintained by HKEPD.
- Emission rates of EP1, EP10 and EP19 are directly adopted from the register. Exit velocity of EP19 is not presented in the register, and is calculated from the maximum emission rate and maximum concentration of EP19 presented in the register.

ISO A1 594mm x 841mm  
 Approved:  
 Checked:  
 Designer:  
 Project Management Initials:  
 Plot File by: haiguang.zhao 11/14/2023  
 PATH: P:\PROJECTS\60670882\DRAWING\REPORT\A34\A34\_639.dwg



- LEGEND:**
- PROJECT BOUNDARY
  - 4km BOUNDARY
  - EP1 EMISSION SOURCE (POINT SOURCE)

**AECOM**

**PROJECT**  
 項目  
 FIRST PHASE DEVELOPMENT OF  
 THE NEW TERRITORIES NORTH –  
 SAN TIN / LOK MA CHAU  
 DEVELOPMENT NODE –  
 INVESTIGATION

**CLIENT**  
 業主  
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**ISSUE/REVISION**  
 修訂

IR	DATE	DESCRIPTION	CHK.

**STATUS**  
 階段

**SCALE**                      **DIMENSION UNIT**  
 比例                              單位  
 A3 1 : 15000                      METRES

**KEY PLAN**  
 索引圖

**PROJECT NO.**                      **AGREEMENT NO.**  
 項目編號                              協議編號  
 60670882                              CE 20/2021

**SHEET TITLE**  
 圖紙名稱  
 LOCATION OF MAJOR STACK IN  
 4km BOUNDARY

**SHEET NUMBER**  
 圖紙編號  
 60670882/A34/Appendix 3.9

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